

# MasterFormat®

2020 EDITION  
Numbers and Titles



## **MasterFormat® Numbers & Titles**

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01 91 19.43	Exterior Enclosure Commissioning	02 05 19	Geosynthetics for Existing Conditions
01 91 19.73	Roofing Commissioning	02 05 19.13	Geotextiles for Existing Conditions
01 91 23	Interiors Commissioning	02 05 19.16	Geomembranes for Existing Conditions
01 91 23.13	Interior Construction Commissioning	02 05 19.19	Geogrids for Existing Conditions
01 91 23.43	Stairways Commissioning	<b>02 06 00</b>	<b>Schedules for Existing Conditions</b>
01 91 23.73	Interior Finishes Commissioning	02 06 13	Geotechnical Baseline Report
01 91 26	Integrated System Commissioning	02 06 14	Geotechnical Data Report
<b>01 92 00</b>	<b>Facility Operation</b>	02 06 30	Schedules for Subsurface Investigations
01 92 13	Facility Operation Procedures	02 06 30.13	Boring or Test Pit Log Schedule
<b>01 93 00</b>	<b>Facility Maintenance</b>	02 06 50	Schedules for Site Remediation
01 93 13	Facility Maintenance Procedures	02 06 65	Schedules for Underground Storage Tank Removal
01 93 16	Recycling Programs	02 06 80	Schedules for Facility Remediation
<b>01 94 00</b>	<b>Facility Decommissioning</b>	02 06 86	Schedules for Hazardous Waste Drum Handling
01 94 13	Facility Decommissioning Procedures	<b>02 08 00</b>	<b>Commissioning of Existing Conditions</b>
<b>02 00 00</b>	<b>Existing Conditions</b>		
<b>02 01 00</b>	<b>Maintenance of Existing Conditions</b>		
02 01 50	Maintenance of Site Remediation		
02 01 65	Maintenance of Underground Storage Tank Removal		
02 01 80	Maintenance of Facility Remediation		

## **02 20 00 Assessment**

### **02 21 00 Surveys**

- 02 21 13 Site Surveys
- 02 21 13.13 Boundary and Survey Markers
- 02 21 13.23 Archaeological and Historic Surveys
- 02 21 16 Measured Drawings
- 02 21 19 Utilities Surveys

### **02 22 00 Existing Conditions Assessment**

- 02 22 13 Movement and Vibration Assessment
- 02 22 16 Acoustic Assessment
- 02 22 19 Traffic Assessment
- 02 22 23 Accessibility Assessment

### **02 24 00 Environmental Assessment**

- 02 24 13 Natural Environment Assessment
- 02 24 13.13 Air Assessment
- 02 24 13.43 Water Assessment
- 02 24 13.73 Land Assessment
- 02 24 23 Chemical Sampling and Analysis of Soils
- 02 24 43 Transboundary and Global Environmental Aspects Assessment

### **02 25 00 Existing Material Assessment**

- 02 25 16 Existing Concrete Assessment
- 02 25 16.13 Concrete Assessment Drilling
- 02 25 19 Existing Masonry Assessment
- 02 25 19.13 Masonry Assessment Drilling
- 02 25 23 Existing Metals Assessment
- 02 25 23.13 Welding Investigations
- 02 25 26 Existing Wood, Plastics, and Composites Assessment
- 02 25 29 Existing Thermal and Moisture Protection Assessment
- 02 25 29.13 Waterproofing Investigations
- 02 25 29.23 Roofing Investigations

## **02 26 00 Hazardous Material Assessment**

- 02 26 23 Asbestos Assessment
- 02 26 26 Lead Assessment
- 02 26 29 Polychlorinated Biphenyl Assessment
- 02 26 33 Biological Assessment
- 02 26 33.13 Mold Assessment
- 02 26 36 Hazardous Waste Drum Assessment

## **02 30 00 Subsurface Investigation**

### **02 31 00 Geophysical Investigations**

- 02 31 13 Seismic Investigations
- 02 31 16 Gravity Investigations
- 02 31 19 Magnetic Investigations
- 02 31 23 Electromagnetic Investigations
- 02 31 26 Electrical Resistivity Investigations
- 02 31 29 Magnetotelluric Investigations

### **02 32 00 Geotechnical Investigations**

- 02 32 13 Subsurface Drilling and Sampling
- 02 32 16 Material Testing
- 02 32 19 Exploratory Excavations
- 02 32 23 Geotechnical Monitoring Before Construction
- 02 32 23.13 Groundwater Monitoring Before Construction

## **02 40 00 Demolition and Structure Moving**

### **02 41 00 Demolition**

- 02 41 13 Selective Site Demolition
- 02 41 13.13 Paving Removal
- 02 41 13.23 Utility Line Removal
- 02 41 13.33 Railtrack Removal
- 02 41 16 Structure Demolition
- 02 41 16.13 Building Demolition
- 02 41 16.23 Tower Demolition
- 02 41 16.33 Bridge Demolition
- 02 41 16.43 Dam Demolition

02 41 19	Selective Demolition	02 42 21.43	Gypsum Board Salvage
02 41 19.13	Selective Building Demolition	02 42 21.45	Ceiling Tile Salvage
02 41 19.16	Selective Interior Demolition	02 42 21.47	Flooring Salvage
02 41 19.19	Selective Facility Services Demolition	02 42 21.49	Paint and Coatings Salvage
02 41 19.33	Selective Bridge Demolition	02 42 21.53	Electronics Salvage
<b>02 42 00</b>	<b>Removal and Diversion of Construction Materials</b>	02 42 21.55	Appliance Salvage
02 42 13	Deconstruction of Structures	02 42 21.57	Restaurant Equipment Salvage
02 42 13.13	Deconstruction of Buildings	02 42 21.59	Toilet Room Finishings Salvage
02 42 19	Recycling of Construction Materials	02 42 21.61	Office Finishings Salvage
02 42 19.13	Paper Recycling	02 42 21.67	Residential Finishings Salvage
02 42 19.15	Concrete Recycling	02 42 21.81	Plumbing Fixture Salvage
02 42 19.17	Masonry Recycling	02 42 21.83	HVAC Salvage
02 42 19.19	Metal Recycling	02 42 21.89	Electrical Salvage
02 42 19.23	Wood Recycling	02 42 21.91	Yard Waste Salvage
02 42 19.25	Plastic Recycling	<b>02 43 00</b>	<b>Structure Moving</b>
02 42 19.29	Solid Surface Recycling	02 43 13	Structure Relocation
02 42 19.31	Insulation Recycling	02 43 13.13	Building Relocation
02 42 19.35	Roofing Recycling	02 43 16	Structure Raising
02 42 19.39	Window Recycling	02 43 16.13	Building Raising
02 42 19.41	Glass Recycling	<b>02 50 00</b>	<b>Site Remediation</b>
02 42 19.43	Gypsum Board Recycling	<b>02 51 00</b>	<b>Physical Decontamination</b>
02 42 19.45	Ceiling Tile Recycling	02 51 13	Coagulation and Flocculation Decontamination
02 42 19.47	Flooring Recycling	02 51 16	Reverse-Osmosis Decontamination
02 42 19.49	Paint and Coatings Recycling and Management	02 51 19	Solidification and Stabilization Decontamination
02 42 19.51	Paint Remanufacturing	02 51 23	Mechanical Filtration Decontamination
02 42 19.53	Electronics Recycling	02 51 26	Radioactive Decontamination
02 42 19.55	Appliance Recycling	02 51 29	Surface Cleaning Decontamination
02 42 19.57	Mattress Recycling	02 51 29.13	High-Pressure Water Cleaning Decontamination
02 42 19.81	Plumbing Fixture Recycling	02 51 29.16	Vacuum Sweeping Cleaning Decontamination
02 42 19.83	HVAC Recycling	02 51 33	Surface Removal Decontamination
02 42 19.89	Electrical Recycling	02 51 33.13	Surface Removal Decontamination by Grinding
02 42 19.91	Yard Waste Recycling	02 51 33.16	Surface Removal Decontamination by Sand Blasting
02 42 19.95	Tire, Rubber Recycling	02 51 33.19	Surface Removal Decontamination by Ultrasound
02 42 21	Salvage of Construction Materials		
02 42 21.11	Deconstruction Contracting		
02 42 21.15	Concrete Salvage		
02 42 21.17	Masonry Salvage		
02 42 21.19	Metal Salvage		
02 42 21.23	Wood Salvage		
02 42 21.29	Solid Surface Salvage		
02 42 21.35	Roofing Salvage		
02 42 21.37	Door Salvage		
02 42 21.39	Window Salvage		
02 42 21.41	Glass Salvage		

<b>02 52 00</b>	<b>Chemical Decontamination</b>	<b>02 57 00</b>	<b>Sinkhole Remediation</b>
02 52 13	Chemical Precipitation Decontamination	02 57 13	Sinkhole Remediation by Grouting
02 52 16	Ion Change Decontamination	02 57 13.13	Sinkhole Remediation by Compaction Grouting
02 52 19	Neutralization Decontamination	02 57 13.16	Sinkhole Remediation by Cap Grouting
<b>02 53 00</b>	<b>Thermal Decontamination</b>	02 57 16	Sinkhole Remediation by Backfilling
02 53 13	Incineration Decontamination	<b>02 58 00</b>	<b>Snow Control</b>
02 53 13.13	Remediation of Contaminated Soils and Sludges by Incineration	02 58 13	Snow Fencing
02 53 16	Thermal Desorption Decontamination	02 58 16	Snow Avalanche Control
02 53 16.13	Remediation of Contaminated Soils by Thermal Desorption	<b>02 60 00</b>	<b>Contaminated Site Material Removal</b>
02 53 19	Vitrification Decontamination	<b>02 61 00</b>	<b>Removal and Disposal of Contaminated Soils</b>
<b>02 54 00</b>	<b>Biological Decontamination</b>	02 61 13	Excavation and Handling of Contaminated Material
02 54 13	Aerobic Processes Decontamination	02 61 23	Removal and Disposal of Polychlorinated Biphenyl Contaminated Soils
02 54 16	Anaerobic Processes Decontamination	02 61 26	Removal and Disposal of Asbestos Contaminated Soils
02 54 19	Bioremediation Decontamination	02 61 29	Removal and Disposal of Organically Contaminated Soils
02 54 19.13	Bioremediation Using Landfarming	<b>02 62 00</b>	<b>Hazardous Waste Recovery Processes</b>
02 54 19.16	Bioremediation of Soils Using Windrow Composting	02 62 13	Air and Steam Stripping
02 54 19.19	Bioremediation Using Bacteria Injection	02 62 16	Soil Vapor Extraction
02 54 23	Soil Washing Through Separation/Solubilization	02 62 19	Soil Washing and Flushing
02 54 26	Organic Decontamination	<b>02 65 00</b>	<b>Underground Storage Tank Removal</b>
<b>02 55 00</b>	<b>Remediation Soil Stabilization</b>	<b>02 70 00</b>	<b>Water Remediation</b>
<b>02 56 00</b>	<b>Site Containment</b>	<b>02 71 00</b>	<b>Groundwater Treatment</b>
02 56 13	Waste Containment	<b>02 72 00</b>	<b>Water Decontamination</b>
02 56 13.13	Geomembrane Waste Containment	02 72 13	Chemical Water Decontamination
02 56 19	Gas Containment	02 72 16	Biological Water Decontamination
02 56 19.13	Fluid-Applied Gas Barrier	02 72 19	Electrolysis Water Decontamination



## **02 80 00 Facility Remediation**

### **02 81 00 Transportation and Disposal of Hazardous Materials**

### **02 82 00 Asbestos Remediation**

- 02 82 13 Asbestos Abatement
- 02 82 13.13 Glovebag Asbestos Abatement
- 02 82 13.16 Precautions for Asbestos Abatement
- 02 82 13.19 Asbestos Floor Tile and Mastic Abatement
- 02 82 13.33 Asbestos Abatement for Utilities
- 02 82 16 Engineering Control of Asbestos Containing Materials
- 02 82 33 Removal and Disposal of Asbestos Containing Materials

### **02 83 00 Lead Remediation**

- 02 83 13 Lead Hazard Control Activities
- 02 83 19 Lead-Based Paint Remediation
- 02 83 19.13 Lead-Based Paint Abatement
- 02 83 33 Removal and Disposal of Material Containing Lead
- 02 83 33.13 Lead-Based Paint Removal and Disposal

### **02 84 00 Polychlorinate Biphenyl Remediation**

- 02 84 16 Handling of Lighting Ballasts and Lamps Containing PCBs and Mercury
- 02 84 33 Removal and Disposal of Polychlorinate Biphenyls

### **02 86 00 Hazardous Waste Drum Handling**

### **02 87 00 Biohazard Remediation**

- 02 87 13 Mold Remediation
- 02 87 13.13 Precautions for Mold Remediation
- 02 87 13.16 Mold Remediation Preparation and Containment
- 02 87 13.19 Mold Remediation Clearance Air Sampling
- 02 87 13.33 Removal and Disposal of Materials with Mold

- 02 87 16 Excrement Removal
- 02 87 16.13 Bird Excrement Removal
- 02 87 16.16 Rodent Excrement Removal

## **03 00 00 Concrete**

### **03 01 00 Maintenance of Concrete**

- 03 01 10 Maintenance of Concrete Forming and Accessories
- 03 01 20 Maintenance of Concrete Reinforcing
- 03 01 23 Maintenance of Stressing Tendons
- 03 01 30 Maintenance of Cast-in-Place Concrete
- 03 01 30.51 Cleaning of Cast-in-Place Concrete
- 03 01 30.61 Resurfacing of Cast-in-Place Concrete
- 03 01 30.71 Rehabilitation of Cast-in-Place Concrete
- 03 01 30.72 Strengthening of Cast-in-Place Concrete
- 03 01 40 Maintenance of Precast Concrete
- 03 01 40.51 Cleaning of Precast Concrete
- 03 01 40.61 Resurfacing of Precast Concrete
- 03 01 40.71 Rehabilitation of Precast Concrete
- 03 01 40.72 Strengthening of Precast Concrete
- 03 01 50 Maintenance of Cast Decks and Underlayment
- 03 01 50.51 Cleaning Cast Decks and Underlayment
- 03 01 50.61 Resurfacing of Cast Decks and Underlayment
- 03 01 50.71 Rehabilitation of Cast Decks and Underlayment
- 03 01 50.72 Strengthening of Cast Decks and Underlayment
- 03 01 60 Maintenance of Grouting
- 03 01 70 Maintenance of Mass Concrete
- 03 01 80 Maintenance of Concrete Cutting and Boring

<b>03 03 00</b>	<b>Conservation Treatment for Period Concrete</b>	<b>03 10 00</b>	<b>Concrete Forming and Accessories</b>
03 03 30	Conservation Treatment for Period Cast-in-Place Concrete	<b>03 11 00</b>	<b>Concrete Forming</b>
03 03 31	Conservation Treatment for Period Structural Concrete	03 11 13	Structural Cast-in-Place Concrete Forming
03 03 33	Conservation Treatment for Period Architectural Concrete	03 11 13.13	Concrete Slip Forming
<b>03 05 00</b>	<b>Common Work Results for Concrete</b>	03 11 13.16	Concrete Shoring
03 05 05	Selective Demolition for Concrete	03 11 13.19	Falsework
<b>03 06 00</b>	<b>Schedules for Concrete</b>	03 11 16	Architectural Cast-in Place Concrete Forming
03 06 10	Schedules for Concrete Forming and Accessories	03 11 16.13	Concrete Form Liners
03 06 20	Schedules for Concrete Reinforcing	03 11 19	Insulating Concrete Forming
03 06 20.13	Concrete Beam Reinforcing Schedule	03 11 23	Permanent Stair Forming
03 06 20.16	Concrete Slab Reinforcing Schedule	03 11 26	Permanent Tier Forming
03 06 30	Schedules for Cast-in-Place Concrete	<b>03 15 00</b>	<b>Concrete Accessories</b>
03 06 30.13	Concrete Footing Schedule	03 15 13	Waterstops
03 06 30.16	Concrete Column Schedule	03 15 13.13	Non-Expanding Waterstops
03 06 30.19	Concrete Slab Schedule	03 15 13.16	Expanding Waterstops
03 06 30.23	Concrete Shaft Schedule	03 15 13.19	Combination Expanding and Injection Hose Waterstops
03 06 30.26	Concrete Beam Schedule	03 15 13.21	Injection Hose Waterstops
03 06 40	Schedules for Precast Concrete	03 15 16	Concrete Construction Joints
03 06 40.13	Precast Concrete Panel Schedule	03 15 19	Cast-In Concrete Anchors
03 06 50	Schedules for Cast Decks and Underlayment	03 15 21	Termite Barrier
03 06 60	Schedules for Grouting	<b>03 20 00</b>	<b>Concrete Reinforcing</b>
03 06 70	Schedules for Mass Concrete	<b>03 21 00</b>	<b>Reinforcement Bars</b>
03 06 80	Schedules for Concrete Cutting and Boring	03 21 11	Plain Steel Reinforcement Bars
<b>03 08 00</b>	<b>Commissioning of Concrete</b>	03 21 13	Galvanized Reinforcement Steel Bars
		03 21 16	Epoxy-Coated Reinforcement Steel Bars
		03 21 19	Stainless Steel Reinforcement Bars
		03 21 21	Composite Reinforcement Bars
		03 21 21.11	Glass Fiber-Reinforced Polymer Reinforcement Bars
		03 21 21.13	Organic Fiber-Reinforced Polymer Reinforcement Bars
		03 21 21.16	Carbon Fiber-Reinforced Polymer Reinforcement Bars
		<b>03 22 00</b>	<b>Fabric and Grid Reinforcing</b>
		03 22 13	Galvanized Welded Wire Fabric Reinforcing

03 22 16	Epoxy-Coated Welded Wire Fabric Reinforcing	03 35 29	Tooled Concrete Finishing
03 22 19	Composite Grid Reinforcing	03 35 33	Stamped Concrete Finishing
<b>03 23 00</b>	<b>Stressed Tendon Reinforcing</b>	03 35 43	Polished Concrete Finishing
<b>03 24 00</b>	<b>Fibrous Reinforcing</b>	03 35 43.13	Polished and Dyed Concrete Finishing
<b>03 25 00</b>	<b>Composite Reinforcing</b>	03 35 43.16	Polished and Stained Concrete Finishing
03 25 13	Glass Fiber-Reinforced Polymer Reinforcing	03 35 46	Concrete Topical Treatments
03 25 16	Organic Fiber-Reinforced Polymer Reinforcing	<b>03 37 00</b>	<b>Specialty Placed Concrete</b>
03 25 19	Carbon Fiber-Reinforced Polymer Reinforcing	03 37 13	Shotcrete
<b>03 30 00</b>	<b>Cast-in-Place Concrete</b>	03 37 16	Pumped Concrete
03 30 53	Miscellaneous Cast-in-Place Concrete	03 37 19	Pneumatically Placed Concrete
<b>03 31 00</b>	<b>Structural Concrete</b>	03 37 23	Roller-Compacted Concrete
03 31 13	Heavyweight Structural Concrete	03 37 26	Underwater Placed Concrete
03 31 16	Lightweight Structural Concrete	<b>03 38 00</b>	<b>Post-Tensioned Concrete</b>
03 31 19	Shrinkage-Compensating Structural Concrete	03 38 13	Post-Tensioned Concrete Preparation
03 31 23	High-Performance Structural Concrete	03 38 16	Unbonded Post-Tensioned Concrete
03 31 24	Ultra High-Performance Structural Concrete	03 38 19	Bonded Post-Tensioned Concrete
03 31 26	Self-Compacting Concrete	<b>03 39 00</b>	<b>Concrete Curing</b>
<b>03 33 00</b>	<b>Architectural Concrete</b>	03 39 13	Water Concrete Curing
03 33 13	Heavyweight Architectural Concrete	03 39 16	Sand Concrete Curing
03 33 16	Lightweight Architectural Concrete	03 39 23	Membrane Concrete Curing
<b>03 34 00</b>	<b>Low Density Concrete</b>	03 39 23.13	Chemical Compound Membrane Concrete Curing
<b>03 35 00</b>	<b>Concrete Finishing</b>	03 39 23.23	Sheet Membrane Concrete Curing
03 35 13	High-Tolerance Concrete Floor Finishing	<b>03 40 00</b>	<b>Precast Concrete</b>
03 35 16	Heavy-Duty Concrete Floor Finishing	<b>03 41 00</b>	<b>Precast Structural Concrete</b>
03 35 19	Colored Concrete Finishing	03 41 13	Precast Concrete Hollow Core Planks
03 35 23	Exposed Aggregate Concrete Finishing	03 41 16	Precast Concrete Slabs
03 35 26	Grooved Concrete Surface Finishing	03 41 23	Precast Concrete Stairs
		03 41 33	Precast Structural Pretensioned Concrete
		03 41 36	Precast Structural Post-Tensioned Concrete

<b>03 45 00</b>	<b>Precast Architectural Concrete</b>	03 52 16	Lightweight Insulating Concrete
03 45 13	Faced Architectural Precast Concrete	03 52 16.13	Lightweight Cellular Insulating Concrete
03 45 33	Precast Architectural Pretensioned Concrete	03 52 16.16	Lightweight Aggregate Insulating Concrete
03 45 36	Precast Architectural Post-Tensioned Concrete	<b>03 53 00</b>	<b>Concrete Topping</b>
<b>03 47 00</b>	<b>Site-Cast Concrete</b>	03 53 13	Emery-Aggregate Concrete Topping
03 47 13	Tilt-Up Concrete	03 53 16	Iron-Aggregate Concrete Topping
03 47 16	Lift-Slab Concrete	03 53 19	Concrete Overlayment
<b>03 48 00</b>	<b>Precast Concrete Specialties</b>	<b>03 54 00</b>	<b>Cast Underlayment</b>
03 48 13	Precast Concrete Bollards	03 54 13	Gypsum Cement Underlayment
03 48 13.11	Precast Concrete Security Bollards	03 54 16	Hydraulic Cement Underlayment
03 48 16	Precast Concrete Splash Blocks	<b>03 60 00</b>	<b>Grouting</b>
03 48 19	Precast Concrete Stair Treads	<b>03 61 00</b>	<b>Cementitious Grouting</b>
03 48 26	Precast Concrete Parking Bumpers	03 61 13	Dry-Pack Grouting
03 48 33	Precast Pre-Framed Concrete Panels	<b>03 62 00</b>	<b>Non-Shrink Grouting</b>
03 48 43	Precast Concrete Trim	03 62 13	Non-Metallic Non-Shrink Grouting
<b>03 49 00</b>	<b>Glass-Fiber-Reinforced Concrete</b>	03 62 16	Metallic Non-Shrink Grouting
03 49 13	Glass-Fiber-Reinforced Concrete Column Covers	<b>03 63 00</b>	<b>Epoxy Grouting</b>
03 49 16	Glass-Fiber-Reinforced Concrete Spandrels	<b>03 64 00</b>	<b>Injection Grouting</b>
03 49 43	Glass-Fiber-Reinforced Concrete Trim	03 64 23	Epoxy Injection Grouting
<b>03 50 00</b>	<b>Cast Decks and Underlayment</b>	<b>03 70 00</b>	<b>Mass Concrete</b>
<b>03 51 00</b>	<b>Cast Roof Decks</b>	<b>03 71 00</b>	<b>Mass Concrete for Raft Foundations</b>
03 51 13	Cementitious Wood Fiber Decks	<b>03 72 00</b>	<b>Mass Concrete for Dams</b>
03 51 16	Gypsum Concrete Roof Decks	<b>03 80 00</b>	<b>Concrete Cutting and Boring</b>
<b>03 52 00</b>	<b>Lightweight Concrete Roof Insulation</b>	<b>03 81 00</b>	<b>Concrete Cutting</b>
03 52 13	Composite Concrete Roof Insulation	03 81 13	Flat Concrete Sawing
		03 81 16	Track Mounted Concrete Wall Sawing
		03 81 19	Wire Concrete Wall Sawing
		03 81 23	Hand Concrete Wall Sawing
		03 81 26	Chain Concrete Wall Sawing
		<b>03 82 00</b>	<b>Concrete Boring</b>
		03 82 13	Concrete Core Drilling

## **04 00 00 Masonry**

### **04 01 00 Maintenance of Masonry**

- 04 01 20 Maintenance of Unit Masonry
- 04 01 20.41 Unit Masonry Stabilization
- 04 01 20.51 Unit Masonry Maintenance
- 04 01 20.52 Unit Masonry Cleaning
- 04 01 20.91 Unit Masonry Restoration
- 04 01 20.93 Testing and Sampling Brick Units for Restoration
- 04 01 40 Maintenance of Stone Assemblies
- 04 01 40.51 Stone Maintenance
- 04 01 40.52 Stone Cleaning
- 04 01 40.91 Stone Restoration
- 04 01 50 Maintenance of Refractory Masonry
- 04 01 60 Maintenance of Corrosion-Resistant Masonry
- 04 01 70 Maintenance of Manufactured Masonry

### **04 03 00 Conservation Treatment for Period Masonry**

- 04 03 01 Maintenance for Period Masonry
- 04 03 01.13 Period Masonry Cleaning
- 04 03 05 Common Work Results for Period Masonry
- 04 03 05.13 Period Masonry Mortaring
- 04 03 05.16 Period Masonry Grouting
- 04 03 05.19 Period Masonry Anchorage and Reinforcing
- 04 03 21 Conservation Treatment for Period Clay Unit Masonry
- 04 03 21.19 Clay Brick Conservation Treatment
- 04 03 21.21 Terra Cotta Conservation Treatment
- 04 03 21.23 Fiance Block Conservation Treatment
- 04 03 22 Conservation Treatment for Period Concrete Unit Masonry
- 04 03 24 Conservation Treatment for Period Adobe Unit Masonry
- 04 03 43 Conservation Treatment for Period Stone Masonry

### **04 05 00 Common Work Results for Masonry**

- 04 05 05 Selective Demolition for Masonry
- 04 05 13 Masonry Mortaring
- 04 05 13.16 Chemical-Resistant Masonry Mortaring
- 04 05 13.19 Epoxy Masonry Mortaring
- 04 05 13.23 Surface Bonding Masonry Mortaring
- 04 05 13.26 Engineered Masonry Mortaring
- 04 05 13.29 Refractory Masonry Mortaring
- 04 05 13.91 Masonry Restoration Mortaring
- 04 05 16 Masonry Grouting
- 04 05 16.16 Chemical-Resistant Masonry Grouting
- 04 05 16.26 Engineered Masonry Grouting
- 04 05 19 Masonry Anchorage and Reinforcing
- 04 05 19.13 Continuous Joint Reinforcing
- 04 05 19.16 Masonry Anchors
- 04 05 19.26 Masonry Reinforcing Bars
- 04 05 19.29 Stone Anchors
- 04 05 21 Masonry Strengthening
- 04 05 23 Masonry Accessories
- 04 05 23.13 Masonry Control and Expansion Joints
- 04 05 23.16 Masonry Embedded Flashing
- 04 05 23.19 Masonry Cavity Drainage, Weepholes, and Vents

### **04 06 00 Schedules for Masonry**

- 04 06 20 Schedules for Unit Masonry
- 04 06 20.13 Masonry Unit Schedule
- 04 06 40 Schedules for Stone Assemblies
- 04 06 50 Schedules for Refractory Masonry
- 04 06 60 Schedules for Corrosion-Resistant Masonry
- 04 06 70 Schedules for Manufactured Masonry

### **04 08 00 Commissioning of Masonry**

### **04 20 00 Unit Masonry**

#### **04 21 00 Clay Unit Masonry**

- 04 21 13 Brick Masonry
- 04 21 13.13 Brick Veneer Masonry

04 21 13.23	Surface-Bonded Brick Masonry	<b>04 27 00</b>	<b>Multiple-Wythe Unit Masonry</b>
04 21 16	Ceramic Glazed Clay Masonry	04 27 13	Composite Unit Masonry
04 21 19	Clay Tile Masonry	04 27 23	Cavity Wall Unit Masonry
04 21 23	Structural Clay Tile Masonry	<b>04 28 00</b>	<b>Concrete Form Masonry Units</b>
04 21 26	Glazed Structural Clay Tile Masonry	04 28 13	Dry-Stacked, Concrete-Filled Masonry Units
04 21 29	Terra Cotta Masonry	04 28 23	Mortar-Set, Concrete-Filled Masonry Units
<b>04 22 00</b>	<b>Concrete Unit Masonry</b>	<b>04 29 00</b>	<b>Engineered Unit Masonry</b>
04 22 00.13	Concrete Unit Veneer Masonry	<b>04 40 00</b>	<b>Stone Assemblies</b>
04 22 00.16	Surface-Bonded Concrete Unit Masonry	<b>04 41 00</b>	<b>Dry-Placed Stone</b>
04 22 19	Insulated Concrete Unit Masonry	<b>04 42 00</b>	<b>Exterior Stone Cladding</b>
04 22 23	Architectural Concrete Unit Masonry	04 42 13	Masonry-Supported Stone Cladding
04 22 23.13	Exposed Aggregate Concrete Unit Masonry	04 42 16	Steel-Stud-Supported Stone Cladding
04 22 23.16	Fluted Concrete Unit Masonry	04 42 19	Strongback-Frame-Supported Stone Cladding
04 22 23.19	Molded-Face Concrete Unit Masonry	04 42 23	Truss-Supported Stone Cladding
04 22 23.23	Prefaced Concrete Unit Masonry	04 42 26	Grid-System-Supported Stone Cladding
04 22 23.26	Sound-Absorbing Concrete Unit Masonry	04 42 43	Stone Panels for Curtain Walls
04 22 23.29	Split-Face Concrete Unit Masonry	<b>04 43 00</b>	<b>Stone Masonry</b>
04 22 26	Autoclaved Aerated Concrete Unit Masonry	04 43 13	Stone Masonry Veneer
04 22 33	Interlocking Concrete Unit Masonry	04 43 13.13	Anchored Stone Masonry Veneer
<b>04 23 00</b>	<b>Glass Unit Masonry</b>	04 43 13.16	Adhered Stone Masonry Veneer
04 23 13	Vertical Glass Unit Masonry	04 43 16	Stone Fabrications
04 23 16	Glass Unit Masonry Floors	<b>04 50 00</b>	<b>Refractory Masonry</b>
04 23 19	Glass Unit Masonry Skylights	<b>04 51 00</b>	<b>Flue Liner Masonry</b>
<b>04 24 00</b>	<b>Adobe Unit Masonry</b>	<b>04 52 00</b>	<b>Combustion Chamber Masonry</b>
04 24 13	Site-Cast Adobe Unit Masonry	<b>04 53 00</b>	<b>Castable Refractory Masonry</b>
04 24 16	Manufactured Adobe Unit Masonry	<b>04 54 00</b>	<b>Refractory Brick Masonry</b>
<b>04 25 00</b>	<b>Unit Masonry Panels</b>	<b>04 57 00</b>	<b>Masonry Fireplaces</b>
04 25 13	Metal-Supported Unit Masonry Panels	04 57 33	Modular Masonry Fireplaces
<b>04 26 00</b>	<b>Single-Wythe Unit Masonry</b>		
04 26 13	Masonry Veneer		

<b>04 60 00</b>	<b>Corrosion-Resistant Masonry</b>	05 03 51	Conservation Treatment for Period Metal Stairs
<b>04 61 00</b>	<b>Chemical-Resistant Brick Masonry</b>	05 03 58	Conservation Treatment for Period Column Covers
<b>04 62 00</b>	<b>Vitrified Clay Liner Plate</b>	05 03 70	Conservation Treatment for Period Decorative Metal
<b>04 70 00</b>	<b>Manufactured Masonry</b>	05 03 71	Conservation Treatment for Period Decorative Metal Stairs
<b>04 71 00</b>	<b>Manufactured Brick Masonry</b>	05 03 73	Conservation Treatment for Period Decorative Metal Railings
04 71 13	Calcium Silicate Manufactured Brick Masonry	05 03 75	Conservation Treatment for Period Decorative Formed Metal
<b>04 72 00</b>	<b>Cast Stone Masonry</b>	05 03 76	Conservation Treatment for Period Decorative Forged Metal
<b>04 73 00</b>	<b>Manufactured Stone Masonry</b>	<b>05 05 00</b>	<b>Common Work Results for Metals</b>
04 73 13	Calcium Silicate Manufactured Stone Masonry	05 05 05	Selective Demolition for Metals
04 73 23	Lightweight Synthetic Stone	05 05 13	Shop-Applied Coatings for Metal
<b>05 00 00</b>	<b>Metals</b>	05 05 19	Post-Installed Concrete Anchors
<b>05 01 00</b>	<b>Maintenance of Metals</b>	05 05 23	Metal Fastenings
05 01 10	Maintenance of Structural Metal Framing	05 05 53	Security Metal Fastenings
05 01 20	Maintenance of Metal Joists	<b>05 06 00</b>	<b>Schedules for Metals</b>
05 01 30	Maintenance of Metal Decking	05 06 10	Schedules for Structural Metal Framing
05 01 40	Maintenance of Cold-Formed Metal Framing	05 06 10.13	Steel Column Schedule
05 01 50	Maintenance of Metal Fabrications	05 06 10.16	Steel Beam Schedule
05 01 70	Maintenance of Decorative Metal	05 06 20	Schedules for Metal Joists
05 01 70.91	Historic Treatment of Decorative Metal	05 06 20.13	Steel Joist Schedule
<b>05 03 00</b>	<b>Conservation Treatment for Period Metals</b>	05 06 30	Schedules for Metal Decking
05 03 12	Conservation Treatment for Period Structural Steel	05 06 40	Schedules for Cold-Formed Metal Framing
05 03 12.13	Conservation Treatment for Period Architecturally Exposed Steel	05 06 50	Schedules for Metal Fabrications
05 03 12.23	Conservation Treatment for Period Structural Steel for Buildings	05 06 70	Schedules for Decorative Metal
		<b>05 08 00</b>	<b>Commissioning of Metals</b>

<b>05 10 00</b>	<b>Structural Metal Framing</b>	<b>05 30 00</b>	<b>Metal Decking</b>
<b>05 12 00</b>	<b>Structural Steel Framing</b>	<b>05 31 00</b>	<b>Steel Decking</b>
05 12 13	Architecturally-Exposed Structural Steel Framing	05 31 13	Steel Floor Decking
05 12 16	Fabricated Fire Protected Steel Columns	05 31 23	Steel Roof Decking
05 12 19	Buckling Restrained Braces	05 31 33	Steel Form Decking
05 12 23	Structural Steel for Buildings	<b>05 33 00</b>	<b>Aluminum Decking</b>
05 12 33	Structural Steel for Bridges	05 33 13	Aluminum Floor Decking
<b>05 13 00</b>	<b>Structural Stainless-Steel Framing</b>	05 33 23	Aluminum Roof Decking
<b>05 14 00</b>	<b>Structural Aluminum Framing</b>	<b>05 34 00</b>	<b>Acoustical Metal Decking</b>
05 14 13	Architecturally-Exposed Structural Aluminum Framing	<b>05 35 00</b>	<b>Raceway Decking Assemblies</b>
<b>05 15 00</b>	<b>Wire Rope Assemblies</b>	<b>05 36 00</b>	<b>Composite Metal Decking</b>
05 15 13	Aluminum Wire Rope Assemblies	05 36 13	Composite Steel Plate and Elastomer Decking
05 15 16	Steel Wire Rope Assemblies	<b>05 40 00</b>	<b>Cold-Formed Metal Framing</b>
05 15 19	Stainless-Steel Wire Rope Assemblies	<b>05 41 00</b>	<b>Structural Metal Stud Framing</b>
<b>05 16 00</b>	<b>Structural Cabling</b>	<b>05 42 00</b>	<b>Cold-Formed Metal Joist Framing</b>
05 16 13	Cable Bow Truss Assemblies	05 42 13	Cold-Formed Metal Floor Joist Framing
05 16 33	Bridge Cabling	05 42 23	Cold-Formed Metal Roof Joist Framing
<b>05 17 00</b>	<b>Structural Rod Assemblies</b>	<b>05 43 00</b>	<b>Slotted Channel Framing</b>
<b>05 19 00</b>	<b>Tension Rod and Cable Truss Assemblies</b>	<b>05 44 00</b>	<b>Cold-Formed Metal Trusses</b>
05 19 13	Façade Support Truss Assemblies	05 44 13	Cold-Formed Metal Roof Trusses
05 19 19	Canopy Support Truss Assemblies	<b>05 45 00</b>	<b>Metal Support Assemblies</b>
<b>05 20 00</b>	<b>Metal Joists</b>	05 45 13	Mechanical Metal Supports
<b>05 21 00</b>	<b>Steel Joist Framing</b>	05 45 16	Electrical Metal Supports
05 21 13	Deep Longspan Steel Joist Framing	05 45 19	Communications Metal Supports
05 21 16	Longspan Steel Joist Framing	05 45 23	Healthcare Metal Supports
05 21 19	Open Web Steel Joist Framing	<b>05 50 00</b>	<b>Metal Fabrications</b>
05 21 23	Steel Joist Girder Framing	<b>05 51 00</b>	<b>Metal Stairs</b>
<b>05 25 00</b>	<b>Aluminum Joist Framing</b>	05 51 13	Metal Pan Stairs
		05 51 16	Metal Floor Plate Stairs



05 51 17	Alternating Tread Stairs	<b>05 75 00</b>	<b>Decorative Formed Metal</b>
05 51 19	Metal Grating Stairs	<b>05 76 00</b>	<b>Decorative Forged Metal</b>
05 51 23	Metal Fire Escapes	<b>05 77 00</b>	<b>Decorative Extruded Metal</b>
05 51 33	Metal Ladders		
05 51 33.13	Vertical Metal Ladders		
05 51 33.16	Inclined Metal Ladders		
05 51 33.23	Alternating Tread Ladders		
05 51 36	Metal Walkways		
05 51 36.13	Metal Catwalks		
05 51 36.16	Metal Ramps		
05 51 36.19	Metal Platforms		
<b>05 52 00</b>	<b>Metal Railings</b>		
05 52 13	Pipe and Tube Railings		
<b>05 53 00</b>	<b>Metal Gratings</b>		
05 53 13	Bar Gratings		
05 53 16	Plank Gratings		
05 53 19	Expanded Metal Gratings		
<b>05 54 00</b>	<b>Metal Floor Plates</b>		
<b>05 55 00</b>	<b>Metal Stair Treads and Nosings</b>		
05 55 13	Metal Stair Treads		
05 55 16	Metal Stair Nosings		
<b>05 56 00</b>	<b>Metal Castings</b>		
<b>05 58 00</b>	<b>Formed Metal Fabrications</b>		
05 58 13	Column Covers		
05 58 16	Formed Metal Enclosures		
05 58 19	Heating/Cooling Unit Covers		
05 58 23	Formed Metal Guards		
<b>05 59 00</b>	<b>Metal Specialties</b>		
05 59 13	Metal Balconies		
05 59 63	Detention Enclosures		
<b>05 70 00</b>	<b>Decorative Metal</b>		
<b>05 71 00</b>	<b>Decorative Metal Stairs</b>		
05 71 13	Fabricated Metal Spiral Stairs		
<b>05 73 00</b>	<b>Decorative Metal Railings</b>		
05 73 13	Glazed Decorative Metal Railings		
05 73 16	Wire Rope Decorative Metal Railings		
<b>05 74 00</b>	<b>Decorative Metal Castings</b>		
		<b>06 00 00</b>	<b>Wood, Plastics, and Composites</b>
		<b>06 01 00</b>	<b>Maintenance of Wood, Plastics, and Composites</b>
		06 01 10	Maintenance of Rough Carpentry
		06 01 10.71	Rough Carpentry Rehabilitation
		06 01 10.91	Rough Carpentry Restoration
		06 01 10.92	Rough Carpentry Preservation
		06 01 20	Maintenance of Finish Carpentry
		06 01 20.71	Finish Carpentry Rehabilitation
		06 01 20.91	Finish Carpentry Restoration
		06 01 20.92	Finish Carpentry Preservation
		06 01 40	Maintenance of Architectural Woodwork
		06 01 40.51	Architectural Woodwork Cleaning
		06 01 40.61	Architectural Woodwork Refinishing
		06 01 40.91	Architectural Woodwork Restoration
		06 01 50	Maintenance of Structural Plastics
		06 01 60	Maintenance of Plastic Fabrications
		06 01 60.51	Plastic Cleaning
		06 01 60.71	Plastic Rehabilitation
		06 01 60.91	Plastic Restoration
		06 01 60.92	Plastic Preservation
		06 01 70	Maintenance of Structural Composites
		06 01 80	Maintenance of Composite Assemblies
		06 01 80.51	Composite Cleaning
		06 01 80.71	Composite Rehabilitation
		06 01 80.91	Composite Restoration
		06 01 80.92	Composite Preservation

<b>06 03 00</b>	<b>Conservation Treatment for Period Wood</b>	<b>06 06 00</b>	<b>Schedules for Wood, Plastics, and Composites</b>
06 03 01	Maintenance for Period Wood	06 06 10	Schedules for Rough Carpentry
06 03 01.31	Period Wood Storage and Protection	06 06 10.13	Nailing Schedule
06 03 05	Common Work Results for Period Wood	06 06 10.16	Wood Beam Schedule
06 03 05.73	Long-term Period Wood Treatment	06 06 10.19	Plywood Shear Wall Schedule
06 03 05.74	Eradication of Insects in Period Wood	06 06 10.23	Plywood Web Joist Schedule
06 03 05.75	Antiseptic Treatment of Period Wood	06 06 10.26	Wood Truss Schedule
06 03 13	Conservation Treatment of Period Log Construction	06 06 20	Schedules for Finish Carpentry
06 03 13.23	Conservation Treatment for Period Heavy Timber	06 06 40	Schedules for Architectural Woodwork
06 03 20	Conservation Treatment for Period Finish Carpentry	06 06 50	Schedules for Structural Plastics
06 03 20.13	Period Exterior Finish Carpentry	06 06 60	Schedules for Plastic Fabrications
06 03 20.23	Period Interior Finish Carpentry	06 06 70	Schedules for Structural Composites
06 03 40	Conservation Treatment for Period Architectural Woodwork	06 06 80	Schedules for Composite Assemblies
06 03 40.13	Period Exterior Architectural Woodwork	<b>06 08 00</b>	<b>Commissioning of Wood, Plastics, and Composites</b>
06 03 40.23	Period Interior Architectural Woodwork	<b>06 10 00</b>	<b>Rough Carpentry</b>
<b>06 05 00</b>	<b>Common Work Results for Wood, Plastics, and Composites</b>	06 10 53	Miscellaneous Rough Carpentry
06 05 05	Selective Demolition for Wood, Plastics, and Composites	06 10 63	Exterior Rough Carpentry
06 05 23	Wood, Plastic, and Composite Fastenings	<b>06 11 00</b>	<b>Wood Framing</b>
06 05 73	Wood Treatment	06 11 13	Engineered Wood Products
06 05 73.13	Fire-Retardant Wood Treatment	06 11 16	Mechanically Graded Lumber
06 05 73.33	Preservative Wood Treatment	<b>06 12 00</b>	<b>Structural Panels</b>
06 05 73.91	Long-Term Wood Treatment	06 12 13	Cementitious Reinforced Panels
06 05 73.93	Eradication of Insects in Wood	06 12 16	Stressed Skin Panels
06 05 73.96	Antiseptic Treatment of Wood	<b>06 13 00</b>	<b>Heavy Timber Construction</b>
06 05 83	Shop-Applied Wood Coatings	06 13 13	Log Construction
		06 13 13.91	Period Horizontal Log Work
		06 13 16	Pole Construction
		06 13 23	Heavy Timber Framing
		06 13 26	Heavy Timber Trusses
		06 13 33	Heavy Timber Pier Construction

<b>06 14 00</b>	<b>Treated Wood Foundations</b>	06 25 16	Prefinished Plywood Paneling
<b>06 15 00</b>	<b>Wood Decking</b>	<b>06 26 00</b>	<b>Board Paneling</b>
06 15 13	Wood Floor Decking	06 26 13	Profile Board Paneling
06 15 13.91	Carvel Planking	<b>06 40 00</b>	<b>Architectural Woodwork</b>
06 15 16	Wood Roof Decking	06 40 13	Exterior Architectural Woodwork
06 15 19	Timber Decking	06 40 23	Interior Architectural Woodwork
06 15 23	Laminated Wood Decking	<b>06 41 00</b>	<b>Architectural Wood Casework</b>
06 15 33	Wood Patio Decking	06 41 13	Wood-Veneer-Faced Architectural Cabinets
<b>06 16 00</b>	<b>Sheathing</b>	06 41 16	Plastic-Laminate-Clad Architectural Cabinets
06 16 13	Insulating Sheathing	06 41 93	Cabinet and Drawer Hardware
06 16 23	Subflooring	<b>06 42 00</b>	<b>Wood Paneling</b>
06 16 26	Underlayment	06 42 13	Wood Board Paneling
06 16 33	Wood Board Sheathing	06 42 14	Stile and Rail Wood Paneling
06 16 36	Wood Panel Product Sheathing	06 42 16	Flush Wood Paneling
06 16 43	Gypsum Sheathing	06 42 19	Plastic-Laminate-Faced Wood Paneling
06 16 53	Moisture-Resistant Sheathing Board	<b>06 43 00</b>	<b>Wood Stairs and Railings</b>
06 16 63	Cementitious Sheathing	06 43 13	Wood Stairs
<b>06 17 00</b>	<b>Shop-Fabricated Structural Wood</b>	06 43 16	Wood Railings
06 17 13	Laminated Veneer Lumber	<b>06 44 00</b>	<b>Ornamental Woodwork</b>
06 17 19	Cross-Laminated Timber	06 44 13	Wood Turnings
06 17 21	Dowel-Laminated Timber	06 44 16	Wood Pilasters
06 17 23	Parallel Strand Lumber	06 44 19	Wood Grilles
06 17 33	Wood I-Joists	06 44 23	Wood Corbels
06 17 36	Metal-Web Wood Joists	06 44 26	Wood Cupolas
06 17 43	Rim Boards	06 44 29	Wood Finials
06 17 53	Shop-Fabricated Wood Trusses	06 44 33	Wood Mantels
<b>06 18 00</b>	<b>Glued-Laminated Construction</b>	06 44 36	Wood Pediment Heads
06 18 13	Glued-Laminated Beams	06 44 39	Wood Posts and Columns
06 18 16	Glued-Laminated Columns	<b>06 46 00</b>	<b>Wood Trim</b>
<b>06 20 00</b>	<b>Finish Carpentry</b>	06 46 13	Wood Door and Window Casings
06 20 13	Exterior Finish Carpentry	06 46 16	Wood Aprons
06 20 23	Interior Finish Carpentry	06 46 19	Wood Base and Shoe Moldings
<b>06 22 00</b>	<b>Millwork</b>	06 46 23	Wood Chair Rails
06 22 13	Standard Pattern Wood Trim		
<b>06 25 00</b>	<b>Prefinished Paneling</b>		
06 25 13	Prefinished Hardboard Paneling		

06 46 26	Wood Cornices	<b>06 70 00</b>	<b>Structural Composites</b>
06 46 29	Wood Fasciae and Soffits	<b>06 71 00</b>	<b>Structural Composite Shapes and Plates</b>
06 46 33	Wood Stops, Stools, and Sills	06 71 13	Composite Lumber
06 46 91	Splicing of Wooden Components	<b>06 72 00</b>	<b>Composite Structural Assemblies</b>
<b>06 48 00</b>	<b>Wood Frames</b>	06 72 13	Composite Joist Assemblies
06 48 13	Exterior Wood Door Frames	06 72 23	Composite Stair Assemblies
06 48 16	Interior Wood Door Frames	<b>06 73 00</b>	<b>Composite Decking</b>
06 48 19	Ornamental Wood Frames	06 73 13	Composite Structural Decking
06 48 23	Stick-Built Wood Windows	<b>06 74 00</b>	<b>Composite Gratings</b>
06 48 26	Wood-Veneer Frames	06 74 13	Fiberglass Reinforced Gratings
<b>06 49 00</b>	<b>Wood Screens and Shutters</b>	<b>06 80 00</b>	<b>Composite Fabrications</b>
06 49 13	Wood Screens	<b>06 81 00</b>	<b>Composite Railings</b>
06 49 16	Wood Blinds	06 81 13	Glass-Fiber-Reinforced Plastic Railings
06 49 19	Wood Shutters	<b>06 82 00</b>	<b>Composite Trim</b>
<b>06 50 00</b>	<b>Structural Plastics</b>	<b>06 83 00</b>	<b>Composite Paneling</b>
<b>06 51 00</b>	<b>Structural Plastic Shapes and Plates</b>	06 83 13	Resin Composite Paneling
06 51 13	Plastic Lumber	06 83 16	Fiberglass Reinforced Paneling
<b>06 52 00</b>	<b>Plastic Structural Assemblies</b>	<b>07 00 00</b>	<b>Thermal and Moisture Protection</b>
<b>06 53 00</b>	<b>Plastic Decking</b>	<b>07 01 00</b>	<b>Operation and Maintenance of Thermal and Moisture Protection</b>
06 53 13	Solid Plastic Decking	07 01 10	Maintenance of Dampproofing and Waterproofing
<b>06 60 00</b>	<b>Plastic Fabrications</b>	07 01 10.81	Waterproofing Replacement
<b>06 61 00</b>	<b>Cast Polymer Fabrications</b>	07 01 20	Maintenance of Thermal Protection
06 61 13	Simulated Stone Fabrications	07 01 30	Maintenance of Steep Slope Roofing
06 61 16	Solid Surfacing Fabrications	07 01 40	Maintenance of Roofing and Siding Panels
<b>06 62 00</b>	<b>Plastic Foam Fabrications</b>	07 01 50	Maintenance of Membrane Roofing
<b>06 63 00</b>	<b>Plastic Railings</b>		
<b>06 64 00</b>	<b>Plastic Paneling</b>		
06 64 13	Plastic Lattice Paneling		
<b>06 65 00</b>	<b>Plastic Trim</b>		
<b>06 66 00</b>	<b>Custom Ornamental Simulated Woodwork</b>		

07 01 50.13	Roof Moisture Survey	07 03 33	Conservation Treatment for Period Natural Roof Coverings
07 01 50.16	Roof Maintenance Program		
07 01 50.19	Preparation for Re-Roofing	07 03 33.13	Conservation Treatment for Period Sod Roofing
07 01 50.23	Roof Removal	07 03 40	Conservation Treatment for Period Roofing and Siding Panels
07 01 50.61	Roof Re-Coating	07 03 41	Conservative Treatment for Period Roof Panels
07 01 50.81	Roof Replacement	07 03 41.13	Conservation Treatment for Period Metal Roof Panels
07 01 50.91	Roofing Restoration	07 03 41.23	Conservation Treatment for Period Wood Roof Panels
07 01 60	Maintenance of Flashing and Sheet Metal	07 03 46	Conservation Treatment for Period Wood Siding
07 01 60.71	Flashing and Sheet Metal Rehabilitation	07 03 60	Conservation Treatment of Period Flashing and Sheet Metal
07 01 60.91	Flashing and Sheet Metal Restoration	07 03 61	Conservation Treatment for Period Sheet Metal Roofing
07 01 60.92	Flashing and Sheet Metal Preservation	07 03 61.13	Conservation Treatment for Period Standing Seam Sheet Metal Roofing
07 01 70	Operation and Maintenance of Roof Specialties and Accessories	07 03 61.16	Conservation Treatment for Period Batten Seam Sheet Metal Roofing
07 01 80	Maintenance of Fire and Smoke Protection	07 03 61.19	Conservation Treatment for Period Flat Seam Sheet Metal Roofing
07 01 90	Maintenance of Joint Protection	<b>07 05 00</b>	<b>Common Work Results for Thermal and Moisture Protection</b>
07 01 90.71	Joint Sealant Rehabilitation	07 05 05	Selective Demolition for Thermal and Moisture Protection
07 01 90.81	Joint Sealant Replacement	07 05 43	Cladding Support Systems
<b>07 03 00</b>	<b>Conservation Treatment for Period Roofing</b>	07 05 53	Fire and Smoke Assembly Identification
07 03 30	Conservation Treatment for Period Steep Slope Roofing	<b>07 06 00</b>	<b>Schedules for Thermal and Moisture Protection</b>
07 03 30.13	Conservation Treatment for Period Canvas Roofing	07 06 10	Schedules for Dampproofing and Waterproofing
07 03 30.16	Conservation Treatment for Period Board Roofing	07 06 20	Schedules for Thermal Protection
07 03 31	Conservation Treatment for Period Shingles and Shakes	07 06 30	Schedules for Steep Slope Roofing
07 03 31.16	Conservation Treatment for Period Metal Shingles	07 06 40	Schedules for Roofing and Siding Panels
07 03 31.26	Conservation Treatment for Period Slate Shingles		
07 03 31.29	Conservation Treatment for Period Wood Shingles and Shakes		
07 03 32	Conservation Treatment for Period Roof Tiles		
07 03 32.13	Conservation Treatment for Period Clay Roof Tiles		
07 03 32.16	Conservation Treatment for Period Concrete Roof Tiles		
07 03 32.19	Conservation Treatment for Period Metal Roof Tiles		

07 06 50	Schedules for Membrane Roofing	07 14 16	Cold Fluid-Applied Waterproofing
07 06 60	Schedules for Flashing and Sheet Metal	<b>07 15 00</b>	<b>Sheet Metal Waterproofing</b>
07 06 70	Schedules for Roof Specialties and Accessories	07 15 13	Sheet Lead Waterproofing
07 06 80	Schedules for Fire and Smoke Protection	<b>07 16 00</b>	<b>Cementitious and Reactive Waterproofing</b>
07 06 80.13	Fire Protection Schedule	07 16 13	Polymer Modified Cement Waterproofing
07 06 80.16	Firestopping Schedule	07 16 16	Crystalline Waterproofing
07 06 90	Schedules for Joint Protection	07 16 19	Metal Oxide Waterproofing
07 06 90.13	Joint Sealant Schedule	<b>07 17 00</b>	<b>Bentonite Waterproofing</b>
<b>07 08 00</b>	<b>Commissioning of Thermal and Moisture Protection</b>	07 17 13	Bentonite Panel Waterproofing
<b>07 10 00</b>	<b>Dampproofing and Waterproofing</b>	07 17 16	Bentonite Composite Sheet Waterproofing
<b>07 11 00</b>	<b>Dampproofing</b>	<b>07 18 00</b>	<b>Traffic Coatings</b>
07 11 13	Bituminous Dampproofing	07 18 13	Pedestrian Traffic Coatings
07 11 16	Cementitious Dampproofing	07 18 16	Vehicular Traffic Coatings
07 11 19	Sheet Dampproofing	<b>07 19 00</b>	<b>Water Repellents</b>
<b>07 12 00</b>	<b>Built-Up Bituminous Waterproofing</b>	07 19 13	Acrylic Water Repellents
07 12 13	Built-Up Asphalt Waterproofing	07 19 16	Silane Water Repellents
07 12 16	Built-Up Coal Tar Waterproofing	07 19 19	Silicone Water Repellents
<b>07 13 00</b>	<b>Sheet Waterproofing</b>	07 19 23	Siloxane Water Repellents
07 13 13	Bituminous Sheet Waterproofing	07 19 26	Stearate Water Repellents
07 13 26	Self-Adhering Sheet Waterproofing	07 19 29	Penetrating Polyester Water Repellents
07 13 52	Modified Bituminous Sheet Waterproofing	<b>07 20 00</b>	<b>Thermal Protection</b>
07 13 53	Elastomeric Sheet Waterproofing	<b>07 21 00</b>	<b>Thermal Insulation</b>
07 13 54	Thermoplastic Sheet Waterproofing	07 21 13	Board Insulation
<b>07 14 00</b>	<b>Fluid-Applied Waterproofing</b>	07 21 13.13	Foam Board Insulation
07 14 13	Hot Fluid-Applied Rubberized Asphalt Waterproofing	07 21 13.16	Fibrous Board Insulation
07 14 14	Hot Fluid-Applied Polyurea Waterproofing	07 21 13.19	Mineral Board Insulation
		07 21 16	Blanket Insulation
		07 21 19	Foamed-In-Place Insulation
		07 21 23	Loose-Fill Insulation
		07 21 26	Blown Insulation
		07 21 29	Sprayed Insulation
		07 21 53	Reflective Insulation
		07 21 63	Fluid-Applied Insulative Coating

<b>07 22 00</b>	<b>Roof and Deck Insulation</b>	07 31 29.16	Wood Shakes
07 22 13	Asphaltic Perlite Concrete Deck	07 31 33	Composite Rubber Shingles
07 22 16	Roof Board Insulation	07 31 53	Plastic Shakes
<b>07 24 00</b>	<b>Exterior Insulation and Finish Systems</b>	<b>07 32 00</b>	<b>Roof Tiles</b>
07 24 13	Polymer-Based Exterior Insulation and Finish System	07 32 13	Clay Roof Tiles
07 24 16	Polymer-Modified Exterior Insulation and Finish System	07 32 14	Ceramic and Porcelain Roof Tiles
07 24 19	Water-Drainage Exterior Insulation and Finish System	07 32 16	Concrete Roof Tiles
07 24 23	Direct-Applied Finish Systems	07 32 19	Metal Roof Tiles
<b>07 25 00</b>	<b>Weather Barriers</b>	07 32 23	Mineral-Fiber Cement Roof Tiles
<b>07 26 00</b>	<b>Vapor Retarders</b>	07 32 26	Plastic Roof Tiles
07 26 13	Above-Grade Vapor Retarders	07 32 29	Rubber Tiles/Panels
07 26 16	Below-Grade Vapor Retarders	<b>07 33 00</b>	<b>Natural Roof Coverings</b>
07 26 23	Below-Grade Gas Retarders	07 33 13	Sod Roofing
<b>07 27 00</b>	<b>Air Barriers</b>	07 33 16	Thatched Roofing
07 27 13	Modified Bituminous Sheet Air Barriers	07 33 63	Vegetated Steep-Slope Roofing
07 27 16	Sheet Metal Membrane Air Barriers	<b>07 40 00</b>	<b>Roofing and Siding Panels</b>
07 27 19	Plastic Sheet Air Barriers	<b>07 41 00</b>	<b>Roof Panels</b>
07 27 23	Board Product Air Barriers	07 41 13	Metal Roof Panels
07 27 26	Fluid-Applied Membrane Air Barriers	07 41 16	Insulated Metal Roof Panels
07 27 36	Sprayed Foam Air Barrier	07 41 23	Wood Roof Panels
<b>07 30 00</b>	<b>Steep Slope Roofing</b>	07 41 33	Plastic Roof Panels
07 30 91	Canvas Roofing	07 41 43	Composite Roof Panels
<b>07 31 00</b>	<b>Shingles and Shakes</b>	07 41 63	Fabricated Roof Panel Assemblies
07 31 13	Asphalt Shingles	<b>07 42 00</b>	<b>Wall Panels</b>
07 31 13.13	Fiberglass-Reinforced Asphalt Shingles	07 42 13	Metal Wall Panels
07 31 16	Metal Shingles	07 42 13.13	Formed Metal Wall Panels
07 31 19	Mineral-Fiber Cement Shingles	07 42 13.16	Metal Plate Wall Panels
07 31 23	Porcelain Enamel Shingles	07 42 13.19	Insulated Metal Wall Panels
07 31 26	Slate Shingles	07 42 13.23	Metal Composite Material Wall Panels
07 31 29	Wood Shingles and Shakes	07 42 23	Wood Wall Panels
07 31 29.13	Wood Shingles	07 42 26	Tile Wall Panels
		07 42 29	Terra Cotta Wall Panels
		07 42 33	Plastic Wall Panels
		07 42 43	Composite Wall Panels
		07 42 46	Cementitious Wall Panels
		07 42 63	Fabricated Wall Panel Assemblies
		07 42 93	Soffit Panels

<b>07 44 00</b>	<b>Faced Panels</b>	07 52 13.11	Cold Adhesive Applied Atactic-Polypropylene-Modified Bituminous Membrane Roofing
07 44 13	Aggregate Coated Panels	07 52 13.13	Torch-Applied Atactic-Polypropylene-Modified Bituminous Membrane Roofing
07 44 16	Porcelain Enameled Faced Panels	07 52 13.14	Mechanically Fastened Atactic-Polypropylene-Modified Bituminous Membrane Roofing
07 44 19	Tile-Faced Panels	07 52 16	Styrene-Butadiene-Styrene Modified Bituminous Membrane Roofing
07 44 23	Ceramic-Tile-Faced Panels	07 52 16.11	Cold Adhesive Styrene-Butadiene-Styrene Modified Bituminous Membrane Roofing
07 44 33	Metal Faced Panels	07 52 16.12	Hot-Mopped Styrene-Butadiene-Styrene Modified Bituminous Membrane Roofing
07 44 53	Glass-Fiber-Reinforced Cementitious Panels	07 52 16.13	Torch-Applied Styrene-Butadiene-Styrene Modified Bituminous Membrane Roofing
07 44 56	Mineral-Fiber-Reinforced Cementitious Panels	07 52 16.14	Mechanically Fastened Styrene-Butadiene-Styrene Modified Bituminous Membrane Roofing
07 44 63	Fabricated Faced Panel Assemblies	<b>07 53 00</b>	<b>Elastomeric Membrane Roofing</b>
<b>07 46 00</b>	<b>Siding</b>	07 53 13	Chlorinated-Polyethylene Roofing
07 46 16	Aluminum Siding	07 53 16	Chlorosulfonate-Polyethylene Roofing
07 46 19	Steel Siding	07 53 23	Ethylene-Propylene-Diene-Monomer Roofing
07 46 21	Zinc Siding	07 53 29	Polyisobutylene Roofing
07 46 23	Wood Siding	<b>07 54 00</b>	<b>Thermoplastic Membrane Roofing</b>
07 46 24	Wood Shingle and Shake Siding	07 54 13	Copolymer-Alloy Roofing
07 46 24.13	Wood Shingle Siding	07 54 16	Ketone Ethylene Ester Roofing
07 46 24.16	Wood Shake Siding	07 54 19	Polyvinyl-Chloride Roofing
07 46 26	Hardboard Siding	07 54 23	Thermoplastic-Polyolefin Roofing
07 46 29	Plywood Siding	07 54 26	Nitrile-Butadiene-Polymer Roofing
07 46 33	Plastic Siding	<b>07 55 00</b>	<b>Protected Membrane Roofing</b>
07 46 43	Composition Siding	07 55 51	Built-Up Bituminous Protected Membrane Roofing
07 46 46	Fiber-Cement Siding		
07 46 63	Fabricated Panel Assemblies with Siding		
<b>07 50 00</b>	<b>Membrane Roofing</b>		
<b>07 51 00</b>	<b>Built-Up Bituminous Roofing</b>		
07 51 13	Built-Up Asphalt Roofing		
07 51 13.13	Cold-Applied Built-Up Asphalt Roofing		
07 51 16	Built-Up Coal Tar Roofing		
07 51 23	Glass-Fiber-Reinforced Asphalt Emulsion Roofing		
<b>07 52 00</b>	<b>Modified Bituminous Membrane Roofing</b>		
07 52 13	Atactic-Polypropylene-Modified Bituminous Membrane Roofing		



07 55 52	Modified Bituminous Protected Membrane Roofing	<b>07 64 00</b>	<b>Sheet Metal Wall Cladding</b>
07 55 53	Elastomeric Protected Membrane Roofing	07 64 13	Standing Seam Sheet Metal Wall Cladding
07 55 54	Thermoplastic Protected Membrane Roofing	07 64 16	Batten Seam Sheet Metal Wall Cladding
07 55 56	Fluid-Applied Protected Membrane Roofing	07 64 19	Flat Seam Sheet Metal Wall Cladding
07 55 56.13	Hot-Applied Rubberized Asphalt Protected Membrane Roofing	<b>07 65 00</b>	<b>Flexible Flashing</b>
07 55 63	Vegetated Protected Membrane Roofing	07 65 13	Laminated Sheet Flashing
<b>07 56 00</b>	<b>Fluid-Applied Roofing</b>	07 65 16	Modified Bituminous Sheet Flashing
<b>07 57 00</b>	<b>Coated Foamed Roofing</b>	07 65 19	Plastic Sheet Flashing
07 57 13	Sprayed Polyurethane Foam Roofing	07 65 23	Rubber Sheet Flashing
<b>07 58 00</b>	<b>Roll Roofing</b>	07 65 26	Self-Adhering Sheet Flashing
<b>07 60 00</b>	<b>Flashing and Sheet Metal</b>	<b>07 70 00</b>	<b>Roof and Wall Specialties and Accessories</b>
<b>07 61 00</b>	<b>Sheet Metal Roofing</b>	<b>07 71 00</b>	<b>Roof Specialties</b>
07 61 13	Standing Seam Sheet Metal Roofing	07 71 13	Manufactured Copings
07 61 16	Batten Seam Sheet Metal Roofing	07 71 16	Manufactured Counterflashing Systems
07 61 19	Flat Seam Sheet Metal Roofing	07 71 19	Manufactured Gravel Stops and Fasciae
<b>07 62 00</b>	<b>Sheet Metal Flashing and Trim</b>	07 71 23	Manufactured Gutters and Downspouts
07 62 13	Fabricated Copings	07 71 23.13	Gutter Debris Guards
07 62 16	Fabricated Counterflashing Systems	07 71 26	Reglets
07 62 19	Fabricated Gravel Stops and Fasciae	07 71 29	Manufactured Roof Expansion Joints
07 62 23	Fabricated Gutters and Downspouts	07 71 33	Manufactured Scuppers
07 62 29	Fabricated Roof Expansion Joints	<b>07 72 00</b>	<b>Roof Accessories</b>
07 62 33	Fabricated Scuppers	07 72 13	Manufactured Curbs
<b>07 63 00</b>	<b>Sheet Metal Roofing Specialties</b>	07 72 23	Relief Vents
		07 72 26	Ridge Vents
		07 72 33	Roof Hatches
		07 72 36	Smoke Vents
		07 72 39	Operable Roof Vents
		07 72 43	Roof Walk Boards
		07 72 46	Roof Walkways
		07 72 53	Snow Guards
		07 72 63	Waste Containment Assemblies
		07 72 73	Vegetated Roof Systems

<b>07 76 00</b>	<b>Roof Pavers</b>	07 92 16	Rigid Joint Sealants
07 76 13	Roof Ballast Pavers	07 92 19	Acoustical Joint Sealants
07 76 16	Roof Decking Pavers	<b>07 95 00</b>	<b>Expansion Control</b>
<b>07 77 00</b>	<b>Wall Specialties</b>	07 95 13	Expansion Joint Cover Assemblies
<b>07 80 00</b>	<b>Fire and Smoke Protection</b>	07 95 13.13	Interior Expansion Joint Cover Assemblies
<b>07 81 00</b>	<b>Applied Fire Protection</b>	07 95 13.16	Exterior Expansion Joint Cover Assemblies
07 81 13	Cement Aggregate Fire Protection	07 95 13.19	Parking Deck Expansion Joint Cover Assemblies
07 81 16	Cementitious Fire Protection	07 95 53	Joint Slide Bearings
07 81 19	Foamed Magnesium-Oxychloride Fire Protection	07 95 63	Bridge Expansion Joint Cover Assemblies
07 81 23	Intumescent Fire Protection	<b>08 00 00</b>	<b>Openings</b>
07 81 26	Magnesium Cement Fire Protection	<b>08 01 00</b>	<b>Operation and Maintenance of Openings</b>
07 81 29	Mineral-Fiber Cementitious Fire Protection	08 01 10	Operation and Maintenance of Doors and Frames
07 81 33	Mineral-Fiber Fire Protection	08 01 11	Operation and Maintenance of Metal Doors and Frames
<b>07 82 00</b>	<b>Board Fire Protection</b>	08 01 14	Operation and Maintenance of Wood Doors
07 82 13	Calcium-Silicate Board Fire Protection	08 01 15	Operation and Maintenance of Plastic Doors
07 82 16	Slag-Fiber Board Fire Protection	08 01 16	Operation and Maintenance of Composite Doors
<b>07 84 00</b>	<b>Firestopping</b>	08 01 17	Operation and Maintenance of Integrated Door Opening Assemblies
07 84 13	Penetration Firestopping	08 01 30	Operation and Maintenance of Specialty Doors and Frames
07 84 13.13	Penetration Firestopping Mortars	08 01 32	Operation and Maintenance of Sliding Glass Doors
07 84 13.16	Penetration Firestopping Devices	08 01 33	Operation and Maintenance of Coiling Doors and Grilles
07 84 43	Joint Firestopping	08 01 34	Operation and Maintenance of Special Function Doors
07 84 53	Building Perimeter Firestopping	08 01 35	Operation and Maintenance of Folding Doors and Grilles
<b>07 86 00</b>	<b>Smoke Seals</b>	08 01 36	Operation and Maintenance of Panel Doors
<b>07 87 00</b>	<b>Smoke Containment Barriers</b>	08 01 39	Operation and Maintenance of Traffic Doors
<b>07 90 00</b>	<b>Joint Protection</b>		
<b>07 91 00</b>	<b>Preformed Joint Seals</b>		
07 91 13	Compression Seals		
07 91 16	Joint Gaskets		
07 91 23	Backer Rods		
07 91 26	Joint Fillers		
<b>07 92 00</b>	<b>Joint Sealants</b>		
07 92 13	Elastomeric Joint Sealants		

08 01 40	Operation and Maintenance of Entrances, Storefronts, and Curtain Walls	08 01 81	Maintenance of Glass Glazing
08 01 41	Operation and Maintenance of Entrances	08 01 84	Maintenance of Plastic Glazing
08 01 42	Operation and Maintenance of Storefronts	08 01 88	Maintenance of Special Function Glazing
08 01 44	Operation and Maintenance of Curtain Walls	08 01 90	Operation and Maintenance of Louvers and Vents
08 01 50	Operation and Maintenance of Windows	08 01 91	Operation and Maintenance of Louvers
08 01 51	Operation and Maintenance of Metal Windows	08 01 92	Operation and Maintenance of Louvered Equipment Enclosures
08 01 52	Operation and Maintenance of Wood Windows	08 01 95	Operation and Maintenance of Vents
08 01 52.61	Wood Window Repairs	<b>08 03 00</b>	<b>Conservation Treatment for Period Openings</b>
08 01 52.71	Wood Window Rehabilitation		
08 01 52.81	Wood Window Replacement	08 03 11	Conservation Treatment for Period Metal Doors and Frames
08 01 52.91	Wood Window Restoration		
08 01 52.93	Historic Treatment of Wood Windows	08 03 11.23	Conservation Treatment for Period Bronze Doors and Frames
08 01 53	Operation and Maintenance of Plastic Windows	08 03 14	Conservation Treatment for Period Wood Doors
08 01 54	Operation and Maintenance of Composite Windows	08 03 14.23	Conservation Treatment for Period Metal-Faced Wood Doors
08 01 56	Operation and Maintenance of Special Function Windows	08 03 14.33	Conservation Treatment for Period Stile and Rail Wood Doors
08 01 60	Operation and Maintenance of Skylights and Roof Windows	08 03 30	Conservation Treatment for Period Specialty Doors and Frames
08 01 61	Operation and Maintenance of Roof Windows	08 03 34	Conservation Treatment for Period Special Function Doors
08 01 62	Operation and Maintenance of Unit Skylights	08 03 34.59	Conservation Treatment for Period Vault Doors
08 01 63	Operation and Maintenance of Metal-Framed Skylights	08 03 50	Conservation Treatment for Period Windows
08 01 64	Operation and Maintenance of Plastic-Framed Skylights	08 03 51	Conservation Treatment for Period Metal Windows
08 01 70	Operation and Maintenance of Hardware	08 03 51.16	Conservation Treatment for Period Bronze Windows
08 01 71	Operation and Maintenance of Door Hardware	08 03 51.23	Conservation Treatment for Period Steel Windows
08 01 74	Operation and Maintenance of Access Control Hardware	08 03 52	Conservation Treatment for Period Wood Windows
08 01 75	Operation and Maintenance of Window Hardware		
08 01 80	Maintenance of Glazing		

08 03 70	Conservation Treatment for Period Hardware	08 11 63	Metal Screen and Storm Doors and Frames
08 03 71	Conservation Treatment for Period Door Hardware	08 11 63.13	Steel Screen and Storm Doors and Frames
08 03 75	Conservation Treatment for Period Window Hardware	08 11 63.23	Aluminum Screen and Storm Doors and Frames
08 03 90	Conservation Treatment for Period Louvers and Vents	08 11 66	Metal Screen Doors and Frames
08 03 91	Conservation Treatment for Period Louvers	08 11 66.13	Steel Screen Doors and Frames
08 03 95	Conservation Treatment for Period Vents	08 11 66.23	Aluminum Screen Doors and Frames
<b>08 05 00</b>	<b>Common Work Results for Openings</b>	08 11 69	Metal Storm Doors and Frames
08 05 05	Selective Demolition for Openings	08 11 69.13	Steel Storm Doors and Frames
<b>08 06 00</b>	<b>Schedules for Openings</b>	08 11 69.23	Aluminum Storm Doors and Frames
08 06 10	Door Schedule	08 11 73	Sliding Metal Fire Doors
08 06 10.13	Door Type Schedule	08 11 74	Sliding Metal Grilles
08 06 10.16	Frame Type Schedule	<b>08 12 00</b>	<b>Metal Frames</b>
08 06 40	Schedules for Entrances, Storefronts, and Curtain Walls	08 12 13	Hollow Metal Frames
08 06 41	Entrance Schedule	08 12 13.13	Standard Hollow Metal Frames
08 06 42	Storefront Schedule	08 12 13.53	Custom Hollow Metal Frames
08 06 50	Window Schedule	08 12 16	Aluminum Frames
08 06 60	Skylight Schedule	08 12 16.13	Fire-Rated Aluminum Frames
08 06 70	Hardware Schedule	08 12 19	Stainless-Steel Frames
08 06 71	Door Hardware Schedule	08 12 23	Bronze Frames
08 06 80	Glazing Schedule	<b>08 13 00</b>	<b>Metal Doors</b>
08 06 90	Louver and Vent Schedule	08 13 13	Hollow Metal Doors
<b>08 08 00</b>	<b>Commissioning of Openings</b>	08 13 13.13	Standard Hollow Metal Doors
<b>08 10 00</b>	<b>Doors and Frames</b>	08 13 13.53	Custom Hollow Metal Doors
<b>08 11 00</b>	<b>Metal Doors and Frames</b>	08 13 16	Aluminum Doors
08 11 13	Hollow Metal Doors and Frames	08 13 16.13	Aluminum Terrace Doors
08 11 13.13	Standard Hollow Metal Doors and Frames	08 13 19	Stainless-Steel Doors
08 11 13.16	Custom Hollow Metal Doors and Frames	08 13 23	Bronze Doors
08 11 16	Aluminum Doors and Frames	08 13 73	Sliding Metal Doors
08 11 19	Stainless-Steel Doors and Frames	08 13 76	Bifolding Metal Doors
08 11 23	Bronze Doors and Frames	<b>08 14 00</b>	<b>Wood Doors</b>
		08 14 13	Carved Wood Doors
		08 14 16	Flush Wood Doors
		08 14 23	Clad Wood Doors
		08 14 23.13	Metal-Faced Wood Doors
		08 14 23.16	Plastic-Laminate-Faced Wood Doors
		08 14 23.17	Plastic-Faced Wood Doors
		08 14 23.19	Molded-Hardboard-Faced Wood Doors
		08 14 29	Prefinished Wood Doors

08 14 33	Stile and Rail Wood Doors	08 33 26	Overhead Coiling Grilles
08 14 33.13	Wood Terrace Doors	08 33 33	Side Coiling Doors
08 14 66	Wood Screen Doors	08 33 36	Side Coiling Grilles
08 14 69	Wood Storm Doors	08 33 43	Overhead Coiling Smoke Curtains
08 14 73	Sliding Wood Doors		
08 14 76	Bifolding Wood Doors	08 33 44	Overhead Coiling Fire Curtains
<b>08 15 00</b>	<b>Plastic Doors</b>	<b>08 34 00</b>	<b>Special Function Doors</b>
08 15 13	Laminated Plastic Doors	08 34 13	Cold Storage Doors
08 15 16	Solid Plastic Doors	08 34 16	Hangar Doors
08 15 66	Plastic Screen Doors	08 34 19	Industrial Doors
08 15 69	Plastic Storm Doors	08 34 33	Lightproof Doors
08 15 73	Sliding Plastic Doors	08 34 36	Darkroom Doors
08 15 76	Bifolding Plastic Doors	08 34 46	Radio-Frequency- Interference Shielding Doors
<b>08 16 00</b>	<b>Composite Doors</b>		
08 16 13	Fiberglass Doors	08 34 49	Radiation Shielding Doors and Frames
08 16 73	Sliding Composite Doors		
08 16 76	Bifolding Composite Doors	08 34 49.13	Neutron Shielding Doors and Frames
<b>08 17 00</b>	<b>Integrated Door Opening Assemblies</b>	08 34 53	Security Doors and Frames
08 17 13	Integrated Metal Door Opening Assemblies	08 34 56	Security Gates
08 17 23	Integrated Wood Door Opening Assemblies	08 34 58	File Room Doors and Frames
08 17 33	Integrated Plastic Door Opening Assemblies	08 34 59	Vault Doors and Day Gates
08 17 43	Integrated Composite Door Opening Assemblies	08 34 73	Sound Control Door Assemblies
<b>08 18 00</b>	<b>Glass Doors</b>	08 34 73.13	Metal Sound Control Door Assemblies
08 18 13	Swinging Glass Doors	08 34 73.16	Wood Sound Control Door Assemblies
08 18 16	Sliding Glass Doors	<b>08 35 00</b>	<b>Folding Doors and Grilles</b>
08 18 19	Bifolding Glass Doors	08 35 13	Folding Doors
<b>08 30 00</b>	<b>Specialty Doors and Frames</b>	08 35 13.13	Accordion Folding Doors
<b>08 31 00</b>	<b>Access Doors and Panels</b>	08 35 13.23	Accordion Folding Fire Doors
08 31 13	Access Doors and Frames	08 35 13.33	Panel Folding Doors
08 31 13.53	Security Access Doors and Frames	08 35 16	Folding Grilles
08 31 16	Access Panels and Frames	08 35 16.13	Accordion Folding Grilles
08 31 23	Floor Doors	<b>08 36 00</b>	<b>Panel Doors</b>
<b>08 33 00</b>	<b>Coiling Doors and Grilles</b>	08 36 13	Sectional Doors
08 33 13	Coiling Counter Doors	08 36 16	Single-Panel Doors
08 33 16	Coiling Counter Grilles	08 36 19	Multi-Leaf Vertical Lift Doors
08 33 23	Overhead Coiling Doors	08 36 23	Telescoping Vertical Lift Doors
08 33 23.13	Overhead Rapid Coiling Doors	<b>08 38 00</b>	<b>Traffic Doors</b>
		08 38 13	Flexible Strip Doors

08 38 16	Flexible Traffic Doors	08 43 13	Aluminum-Framed Storefronts
08 38 19	Rigid Traffic Doors	08 43 13.13	Fire-Rated Aluminum Storefronts
<b>08 39 00</b>	<b>Pressure-Resistant Doors</b>	08 43 16	Bronze-Framed Storefronts
08 39 13	Airtight Doors	08 43 19	Stainless-Steel-Framed Storefronts
08 39 19	Watertight Doors	08 43 23	Steel-Framed Storefronts
08 39 23	Tornado Resistant Door Assemblies	08 43 26	All-Glass Storefronts
08 39 53	Blast-Resistant Doors	08 43 27	Channel Glass Storefronts
<b>08 40 00</b>	<b>Entrances, Storefronts, and Curtain Walls</b>	08 43 29	Sliding Storefronts
<b>08 41 00</b>	<b>Entrances and Storefronts</b>	<b>08 44 00</b>	<b>Curtain Wall and Glazed Assemblies</b>
08 41 13	Aluminum-Framed Entrances and Storefronts	08 44 11	Glazed Timber Curtain Walls
08 41 13.13	Fire-Rated Aluminum-Framed Entrances and Storefronts	08 44 12	Glazed Composite Curtain Wall
08 41 16	Bronze-Framed Entrances and Storefronts	08 44 12.13	Glazed Fiberglass Curtain Wall
08 41 19	Stainless-Steel-Framed Entrances and Storefronts	08 44 13	Glazed Aluminum Curtain Walls
08 41 23	Steel-Framed Entrances and Storefronts	08 44 16	Glazed Bronze Curtain Walls
08 41 26	All-Glass Entrances and Storefronts	08 44 18	Glazed Steel Curtain Walls
08 41 26.13	Point Supported All-Glass Storefronts	08 44 19	Glazed Stainless-Steel Curtain Walls
<b>08 42 00</b>	<b>Entrances</b>	08 44 23	Structural Sealant Glazed Curtain Walls
08 42 13	Aluminum-Framed Entrances	08 44 26	Structural Glass Curtain Walls
08 42 26	All-Glass Entrances	08 44 26.13	Glass Framed Point Supported Glass Curtain Walls
08 42 29	Automatic Entrances	08 44 26.16	Metal Framed Point Supported Glass Curtain Walls
08 42 29.13	Folding Automatic Entrances	08 44 26.23	Cable Framed Point Supported Glass Curtain Walls
08 42 29.23	Sliding Automatic Entrances	08 44 33	Sloped Glazing Assemblies
08 42 29.33	Swinging Automatic Entrances	<b>08 45 00</b>	<b>Translucent Wall and Roof Assemblies</b>
08 42 33	Revolving Door Entrances	08 45 13	Structured-Polycarbonate-Panel Assemblies
08 42 33.13	Security Revolving Door Entrances	08 45 23	Fiberglass-Sandwich-Panel Assemblies
08 42 36	Balanced Door Entrances	<b>08 46 00</b>	<b>Window Wall Assemblies</b>
08 42 39	Pressure-Resistant Entrances	<b>08 50 00</b>	<b>Windows</b>
08 42 43	Intensive Care Unit/Critical Care Unit Entrances	<b>08 51 00</b>	<b>Metal Windows</b>
<b>08 43 00</b>	<b>Storefronts</b>	08 51 13	Aluminum Windows
08 43 11	Timber-Framed Storefronts	08 51 16	Bronze Windows

08 51 19	Stainless-Steel Windows	<b>08 62 00</b>	<b>Unit Skylights</b>
08 51 23	Steel Windows	08 62 13	Domed Unit Skylights
08 51 23.13	Hot-Rolled Steel Windows	08 62 16	Pyramidal Unit Skylights
08 51 23.23	Cold-Rolled Steel Windows	08 62 19	Vaulted Unit Skylights
08 51 66	Metal Window Screens	08 62 23	Tubular Skylights
08 51 69	Metal Storm Windows	<b>08 63 00</b>	<b>Metal-Framed Skylights</b>
<b>08 52 00</b>	<b>Wood Windows</b>	08 63 13	Domed Metal-Framed Skylights
08 52 13	Metal-Clad Wood Windows	08 63 16	Pyramidal Metal-Framed Skylights
08 52 16	Plastic-Clad Wood Windows	08 63 19	Vaulted Metal-Framed Skylights
08 52 66	Wood Window Screens	08 63 23	Ridge Metal-Framed Skylights
08 52 69	Wood Storm Windows	08 63 53	Motorized Metal-Framed Skylights
<b>08 53 00</b>	<b>Plastic Windows</b>	<b>08 64 00</b>	<b>Plastic-Framed Skylights</b>
08 53 13	Vinyl Windows	<b>08 65 00</b>	<b>Glazed Canopies</b>
08 53 66	Vinyl Window Screens	08 65 13	Suspended Glazed Canopies
08 53 69	Vinyl Storm Windows	<b>08 67 00</b>	<b>Skylight Protection and Screens</b>
<b>08 54 00</b>	<b>Composite Windows</b>	<b>08 70 00</b>	<b>Hardware</b>
08 54 13	Fiberglass Windows	<b>08 71 00</b>	<b>Door Hardware</b>
08 54 66	Fiberglass Window Screens	08 71 13	Power Door Operators
08 54 69	Fiberglass Storm Windows	08 71 53	Security Door Hardware
08 54 73	Vinyl-Wood Composite Windows	<b>08 74 00</b>	<b>Non-Integrated Access Control Hardware</b>
<b>08 55 00</b>	<b>Pressure-Resistant Windows</b>	08 74 13	Non-Integrated Card Key Access Control Hardware
08 55 13	Tornado-Resistant Windows	08 74 16	Non-Integrated Keypad Access Control Hardware
08 55 23	Blast-Resistant Windows	08 74 19	Non-Integrated Biometric Identity Access Control Hardware
<b>08 56 00</b>	<b>Special Function Windows</b>	<b>08 75 00</b>	<b>Window Hardware</b>
08 56 19	Pass Windows	08 75 13	Automatic Window Equipment
08 56 46	Radio-Frequency-Interference Shielding Windows	08 75 16	Window Operators
08 56 49	Radiation Shielding Windows	<b>08 78 00</b>	<b>Special Function Hardware</b>
08 56 53	Security Windows	<b>08 79 00</b>	<b>Hardware Accessories</b>
08 56 56	Security Window Screens	08 79 13	Key Storage Equipment
08 56 59	Service and Teller Window Units		
08 56 73	Sound Control Windows		
08 56 88	Interior Insulating Windows		
<b>08 60 00</b>	<b>Roof Windows and Skylights</b>		
<b>08 61 00</b>	<b>Roof Windows</b>		
08 61 13	Metal Roof Windows		
08 61 16	Wood Roof Windows		

<b>08 80 00</b>	<b>Glazing</b>		
<b>08 81 00</b>	<b>Glass Glazing</b>		
08 81 13	Decorative Glass Glazing		
08 81 23	Exterior Glass Glazing		
08 81 26	Interior Glass Glazing		
<b>08 83 00</b>	<b>Mirrors</b>		
08 83 13	Mirrored Glass Glazing		
08 83 16	Mirrored Plastic Glazing		
<b>08 84 00</b>	<b>Plastic Glazing</b>		
08 84 13	Decorative Plastic Glazing		
<b>08 85 00</b>	<b>Glazing Accessories</b>		
<b>08 87 00</b>	<b>Glazing Surface Films</b>		
08 87 13	Solar Control Films		
08 87 23	Safety and Security Films		
08 87 23.13	Safety Films		
08 87 23.16	Security Films		
08 87 26	Bird Control Film		
08 87 33	Decorative Films		
<b>08 88 00</b>	<b>Special Function Glazing</b>		
08 88 13	Fire-Rated Glazing		
08 88 19	Hurricane-Resistant Glazing		
08 88 23	Cable Suspended Glazing		
08 88 33	Transparent Mirrored Glazing		
08 88 36	Switchable Glass		
08 88 36.16	Electronically Controlled Switchable Glass		
08 88 39	Pressure-Resistant Glazing		
08 88 49	Radiation-Resistant Glazing		
08 88 53	Security Glazing		
08 88 56	Ballistics-Resistant Glazing		
<b>08 90 00</b>	<b>Louvers and Vents</b>		
<b>08 91 00</b>	<b>Louvers</b>		
08 91 13	Motorized Wall Louvers		
08 91 16	Operable Wall Louvers		
08 91 19	Fixed Louvers		
08 91 26	Door Louvers		
<b>08 92 00</b>	<b>Louvered Equipment Enclosures</b>		
<b>08 95 00</b>	<b>Vents</b>		
08 95 13	Soffit Vents		
08 95 16	Wall Vents		
08 95 33	Explosion Vents		
08 95 43	Flood Vents		
<b>09 00 00</b>	<b>Finishes</b>		
<b>09 01 00</b>	<b>Maintenance of Finishes</b>		
09 01 20	Maintenance of Plaster and Gypsum Board		
09 01 20.91	Plaster Restoration		
09 01 30	Maintenance of Tiling		
09 01 30.91	Tile Restoration		
09 01 50	Maintenance of Ceilings		
09 01 50.91	Ceiling Restoration		
09 01 60	Maintenance of Flooring		
09 01 60.91	Flooring Restoration		
09 01 70	Maintenance of Wall Finishes		
09 01 70.91	Wall Finish Restoration		
09 01 80	Maintenance of Acoustic Treatment		
09 01 90	Maintenance of Painting and Coating		
09 01 90.51	Paint Cleaning		
09 01 90.52	Maintenance Repainting		
09 01 90.53	Maintenance Coatings		
09 01 90.61	Repainting		
09 01 90.91	Paint Restoration		
09 01 90.92	Coating Restoration		
09 01 90.93	Paint Preservation		
<b>09 03 00</b>	<b>Conservation Treatment of Period Finishes</b>		
09 03 21	Conservation Treatment for Period Plaster Assemblies		
09 03 25	Conservation Treatment for Period Plastering		
09 03 25.23	Conservation Treatment for Period Lime-Based Plaster		
09 03 30	Conservation Treatment for Period Tile		
09 03 50	Conservation Treatment for Period Ceilings		
09 03 51	Conservation Treatment for Period Suspended Ceilings		
09 03 56	Conservation Treatment for Textured Ceilings		
09 03 56.16	Conservation Treatment for Period Metal-Panel Textured Ceilings		
09 03 60	Conservation Treatment for Period Flooring		



09 03 63	Conservation Treatment for Period Masonry Flooring	09 06 80	Schedules for Acoustical Treatment
09 03 63.13	Conservation Treatment for Period Brick Flooring	09 06 90	Schedules for Painting and Coating
09 03 63.40	Conservation Treatment for Period Stone Flooring	09 06 90.13	Paint Schedule
09 03 64	Conservation Treatment for Period Wood Flooring	<b>09 08 00</b>	<b>Commissioning of Finishes</b>
09 03 64.29	Conservation Treatment for Period Wood Strip and Plank Flooring	<b>09 20 00</b>	<b>Plaster and Gypsum Board</b>
09 03 65	Conservation Treatment for Period Resilient Flooring	<b>09 21 00</b>	<b>Plaster and Gypsum Board Assemblies</b>
09 03 65.16	Conservation Treatment for Period Resilient Sheet Flooring	09 21 13	Plaster Assemblies
09 03 66	Conservation Treatment for Period Terrazzo Flooring	09 21 16	Gypsum Board Assemblies
09 03 70	Conservation Treatment for Period Wall Finishes	09 21 16.23	Gypsum Board Shaft Wall Assemblies
09 03 72	Conservation Treatment for Period Wall Coverings	09 21 16.33	Gypsum Board Area Separation Wall Assemblies
09 03 90	Conservation Treatment for Period Painting and Coating	<b>09 22 00</b>	<b>Supports for Plaster and Gypsum Board</b>
09 03 91	Conservation Treatment for Period Painted Surfaces	09 22 13	Metal Furring
09 03 91.13	Conservation Treatment for Period Exterior Painting	09 22 13.13	Metal Channel Furring
09 03 91.23	Conservation Treatment for Period Interior Painting	09 22 13.23	Resilient Channel Furring
<b>09 05 00</b>	<b>Common Work Results for Finishes</b>	09 22 16	Non-Structural Metal Framing
09 05 05	Selective Demolition for Finishes	09 22 16.13	Non-Structural Metal Stud Framing
09 05 13	Common Finishes	09 22 26	Suspension Systems
09 05 61	Common Work Results for Flooring Preparation	09 22 26.23	Metal Suspension Systems
09 05 61.13	Moisture Vapor Emission Control	09 22 26.33	Plastic Suspension Systems
09 05 71	Acoustic Underlayment	09 22 36	Lath
<b>09 06 00</b>	<b>Schedules for Finishes</b>	09 22 36.13	Gypsum Lath
09 06 00.13	Room Finish Schedule	09 22 36.23	Metal Lath
09 06 20	Schedules for Plaster and Gypsum Board	09 22 39	Veneer Plaster Base
09 06 30	Schedules for Tiling	<b>09 23 00</b>	<b>Gypsum Plastering</b>
09 06 50	Schedules for Ceilings	09 23 13	Acoustical Gypsum Plastering
09 06 60	Schedules for Flooring	09 23 82	Fire Protected Gypsum Plastering
09 06 70	Schedules for Wall Finishes	<b>09 24 00</b>	<b>Cement Plastering</b>
		09 24 13	Acoustical Cement Plastering
		09 24 23	Cement Stucco
		09 24 33	Cement Parging
		<b>09 25 00</b>	<b>Other Plastering</b>
		09 25 13	Acrylic Plastering
		09 25 13.13	Acrylic Plaster Finish

09 25 23	Lime Based Plastering	09 32 23	Mortar-Bed Glass Mosaic Tiling
09 25 26	Natural Clay Plastering	09 32 26	Mortar-Bed Plastic Tiling
<b>09 26 00</b>	<b>Veneer Plastering</b>	09 32 29	Mortar-Bed Metal Tiling
09 26 13	Gypsum Veneer Plastering	09 32 33	Mortar-Bed Stone Tiling
<b>09 27 00</b>	<b>Plaster Fabrications</b>	09 32 36	Mortar-Bed Concrete Tiling
09 27 13	Glass-Fiber-Reinforced Gypsum Fabrications	<b>09 33 00</b>	<b>Conductive Tiling</b>
09 27 23	Simulated Plaster Fabrications	09 33 13	Conductive Ceramic Tiling
<b>09 28 00</b>	<b>Backing Boards and Underlayments</b>	09 33 16	Conductive Quarry Tiling
09 28 13	Cementitious Backing Boards	09 33 19	Conductive Paver Tiling
09 28 16	Glass-Mat Faced Gypsum Backing Boards	09 33 23	Conductive Glass Mosaic Tiling
09 28 19	Fibered Gypsum Backing Boards	09 33 26	Conductive Plastic Tiling
<b>09 29 00</b>	<b>Gypsum Board</b>	09 33 29	Conductive Metal Tiling
09 29 82	Gypsum Board Fire Protection	09 33 33	Conductive Stone Tiling
<b>09 30 00</b>	<b>Tiling</b>	09 33 36	Conductive Concrete Tiling
09 30 13	Ceramic Tiling	<b>09 34 00</b>	<b>Waterproofing-Membrane Tiling</b>
09 30 16	Quarry Tiling	09 34 13	Waterproofing-Membrane Ceramic Tiling
09 30 19	Paver Tiling	09 34 16	Waterproofing-Membrane Quarry Tiling
09 30 23	Glass Tiling	09 34 19	Waterproofing-Membrane Paver Tiling
09 30 26	Plastic Tiling	09 34 23	Waterproofing-Membrane Glass Mosaic Tiling
09 30 29	Metal Tiling	09 34 26	Waterproofing-Membrane Plastic Tiling
09 30 33	Stone Tiling	09 34 29	Waterproofing-Membrane Metal Tiling
09 30 36	Concrete Tiling	09 34 33	Waterproofing-Membrane Stone Tiling
09 30 39	Brick Tiling	09 34 36	Waterproofing-Membrane Concrete Tiling
<b>09 31 00</b>	<b>Thin-Set Tiling</b>	<b>09 35 00</b>	<b>Chemical-Resistant Tiling</b>
09 31 13	Thin-Set Ceramic Tiling	09 35 13	Chemical-Resistant Ceramic Tiling
09 31 16	Thin-Set Quarry Tiling	09 35 16	Chemical-Resistant Quarry Tiling
09 31 19	Thin-Set Paver Tiling	09 35 19	Chemical-Resistant Paver Tiling
09 31 23	Thin-Set Glass Mosaic Tiling	09 35 23	Chemical-Resistant Glass Mosaic Tiling
09 31 26	Thin-Set Plastic Tiling	09 35 26	Chemical-Resistant Plastic Tiling
09 31 29	Thin-Set Metal Tiling		
09 31 33	Thin-Set Stone Tiling		
09 31 36	Thin-Set Concrete Tiling		
<b>09 32 00</b>	<b>Mortar-Bed Tiling</b>		
09 32 13	Mortar-Bed Ceramic Tiling		
09 32 16	Mortar-Bed Quarry Tiling		
09 32 19	Mortar-Bed Paver Tiling		

09 35 29	Chemical-Resistant Metal Tiling	<b>09 56 00</b>	<b>Textured Ceilings</b>
09 35 33	Chemical-Resistant Stone Tiling	09 56 13	Gypsum-Panel Textured Ceilings
09 35 36	Chemical-Resistant Concrete Tiling	09 56 16	Metal-Panel Textured Ceilings
<b>09 50 00</b>	<b>Ceilings</b>	09 56 19	Plastic-Panel Textured Ceilings
<b>09 51 00</b>	<b>Acoustical Ceilings</b>	<b>09 57 00</b>	<b>Special Function Ceilings</b>
09 51 13	Acoustical Panel Ceilings	09 57 53	Security Ceiling Assemblies
09 51 14	Acoustical Fabric-Faced Panel Ceilings	<b>09 58 00</b>	<b>Integrated Ceiling Assemblies</b>
09 51 23	Acoustical Tile Ceilings	<b>09 60 00</b>	<b>Flooring</b>
09 51 26	Acoustical Wood Ceilings	<b>09 61 00</b>	<b>Flooring Treatment</b>
09 51 33	Acoustical Metal Pan Ceilings	09 61 13	Slip-Resistant Flooring Treatment
09 51 33.13	Acoustical Snap-in Metal Pan Ceilings	09 61 19	Concrete Floor Staining
09 51 53	Direct-Applied Acoustical Ceilings	09 61 36	Static-Resistant Flooring Treatment
<b>09 53 00</b>	<b>Acoustical Ceiling Suspension Assemblies</b>	<b>09 62 00</b>	<b>Specialty Flooring</b>
09 53 13	Curved Profile Ceiling Suspension Assemblies	09 62 13	Asphaltic Plank Flooring
09 53 23	Metal Acoustical Ceiling Suspension Assemblies	09 62 16	Concrete Plank Flooring
09 53 33	Plastic Acoustical Ceiling Suspension Assemblies	09 62 19	Laminate Flooring
<b>09 54 00</b>	<b>Specialty Ceilings</b>	09 62 26	Leather Flooring
09 54 13	Open Metal Mesh Ceilings	09 62 29	Cork Flooring
09 54 16	Luminous Ceilings	09 62 35	Acid-Resistant Flooring
09 54 19	Mirror Panel Ceilings	09 62 48	Acoustic Flooring
09 54 21	Metal Pan Ceilings	09 62 53	Synthetic Turf Flooring
09 54 23	Linear Metal Ceilings	09 62 63	Metal Flooring
09 54 26	Suspended Wood Ceilings	09 62 63.13	Aluminum Flooring
09 54 29	Suspended Plastic Ceilings	09 62 63.16	Stainless Steel Flooring
09 54 33	Decorative Panel Ceilings	09 62 83	Structural Glass Flooring
09 54 36	Suspended Decorative Grids	<b>09 63 00</b>	<b>Masonry Flooring</b>
09 54 43	Stretched-Fabric Ceiling Systems	09 63 13	Brick Flooring
09 54 46	Fabric-Wrapped Ceiling Panels	09 63 13.35	Chemical-Resistant Brick Flooring
09 54 53	Fiberglass Reinforced Panel Ceilings	09 63 40	Stone Flooring
		09 63 43	Composition Stone Flooring
		<b>09 64 00</b>	<b>Wood Flooring</b>
		09 64 16	Wood Block Flooring
		09 64 19	Wood Composition Flooring
		09 64 23	Wood Parquet Flooring
		09 64 23.13	Acrylic-Impregnated Wood Parquet Flooring

09 64 29	Wood Strip and Plank Flooring	09 66 16.16	Plastic-Matrix Terrazzo Floor Tile
09 64 33	Laminated Wood Flooring	09 66 23	Resinous Matrix Terrazzo Flooring
09 64 36	Bamboo Flooring	09 66 23.13	Polyacrylate Modified Cementitious Terrazzo Flooring
09 64 53	Resilient Wood Flooring Assemblies	09 66 23.16	Epoxy-Resin Terrazzo Flooring
09 64 66	Wood Athletic Flooring	09 66 23.19	Polyester-Resin Terrazzo Flooring
<b>09 65 00</b>	<b>Resilient Flooring</b>	09 66 33	Conductive Terrazzo Flooring
09 65 13	Resilient Base and Accessories	09 66 33.13	Conductive Epoxy-Resin Terrazzo
09 65 13.13	Resilient Base	09 66 33.16	Conductive Polyester-Resin Terrazzo Flooring
09 65 13.23	Resilient Stair Treads and Risers	09 66 33.19	Conductive Plastic-Matrix Terrazzo Flooring
09 65 13.26	Resilient Stair Nosings	<b>09 67 00</b>	<b>Fluid-Applied Flooring</b>
09 65 13.33	Resilient Accessories	09 67 13	Elastomeric Liquid Flooring
09 65 13.36	Resilient Carpet Transitions	09 67 13.33	Conductive Elastomeric Liquid Flooring
09 65 16	Resilient Sheet Flooring	09 67 16	Epoxy-Marble Chip Flooring
09 65 16.23	Vinyl Sheet Flooring	09 67 19	Magnesium-Oxychloride Flooring
09 65 16.33	Rubber Sheet Flooring	09 67 23	Resinous Flooring
09 65 16.43	PVC-Free Sheet Flooring	09 67 26	Quartz Flooring
09 65 19	Resilient Tile Flooring	09 67 66	Fluid-Applied Athletic Flooring
09 65 19.19	Vinyl Composition Tile Flooring	<b>09 68 00</b>	<b>Carpeting</b>
09 65 19.23	Vinyl Tile Flooring	09 68 13	Tile Carpeting
09 65 19.33	Rubber Tile Flooring	09 68 16	Sheet Carpeting
09 65 19.43	Polyester Composition Tile Flooring	<b>09 69 00</b>	<b>Access Flooring</b>
09 65 33	Conductive Resilient Flooring	09 69 13	Rigid-Grid Access Flooring
09 65 36	Static-Control Resilient Flooring	09 69 16	Snap-on Stringer Access Flooring
09 65 36.13	Static-Dissipative Resilient Flooring	09 69 19	Stringerless Access Flooring
09 65 36.16	Static-Resistant Resilient Flooring	09 69 33	Low-Profile Fixed Height Access Flooring
09 65 43	Linoleum Flooring	09 69 53	Access Flooring Accessories
09 65 66	Resilient Athletic Flooring	09 69 56	Access Flooring Stairs and Stringers
<b>09 66 00</b>	<b>Terrazzo Flooring</b>	<b>09 70 00</b>	<b>Wall Finishes</b>
09 66 13	Portland Cement Terrazzo Flooring	<b>09 72 00</b>	<b>Wall Coverings</b>
09 66 13.13	Sand Cushion Terrazzo Flooring	09 72 13	Cork Wall Coverings
09 66 13.16	Monolithic Terrazzo Flooring	09 72 16	Vinyl-Coated Fabric Wall Coverings
09 66 13.19	Bonded Terrazzo Flooring	09 72 16.13	Flexible Vinyl Wall Coverings
09 66 13.23	Palladina Terrazzo Flooring		
09 66 13.26	Rustic Terrazzo Flooring		
09 66 13.33	Structural Terrazzo Flooring		
09 66 16	Terrazzo Floor Tile		
09 66 16.13	Portland Cement Terrazzo Floor Tile		

09 72 16.16	Rigid-Sheet Vinyl Wall Coverings	<b>09 84 00</b>	<b>Acoustic Room Components</b>
09 72 19	Textile Wall Coverings	09 84 13	Fixed Sound-Absorptive Panels
09 72 23	Wallpapering	09 84 14	Acoustic Stretched-Fabric Wall Systems
<b>09 73 00</b>	<b>Wall Carpeting</b>	09 84 16	Fixed Sound-Reflective Panels
<b>09 74 00</b>	<b>Flexible Wood Sheets</b>	09 84 23	Moveable Sound-Absorptive Panels
09 74 13	Wood Wall Coverings	09 84 26	Moveable Sound-Reflective Panels
09 74 16	Flexible Wood Veneers	09 84 33	Sound-Absorbing Wall Units
<b>09 75 00</b>	<b>Stone Facing</b>	09 84 36	Sound-Absorbing Ceiling Units
09 75 13	Stone Wall Facing	<b>09 90 00</b>	<b>Painting and Coating</b>
09 75 19	Stone Trim	<b>09 91 00</b>	<b>Painting</b>
09 75 19.13	Stone Base	09 91 13	Exterior Painting
09 75 19.23	Stone Window Stools	09 91 23	Interior Painting
09 75 23	Simulated Stone Wall Facing	<b>09 93 00</b>	<b>Staining and Transparent Finishing</b>
<b>09 76 00</b>	<b>Plastic Blocks</b>	09 93 13	Exterior Staining and Finishing
<b>09 77 00</b>	<b>Special Wall Surfacing</b>	09 93 13.13	Exterior Staining
09 77 13	Stretched-Fabric Wall Systems	09 93 13.53	Exterior Finishing
09 77 23	Fabric-Wrapped Panels	09 93 23	Interior Staining and Finishing
09 77 26	Surfacing Films	09 93 23.13	Interior Staining
09 77 33	Terrazzo Wall Finish	09 93 23.53	Interior Finishing
09 77 53	Vegetated Wall Systems	<b>09 94 00</b>	<b>Decorative Finishing</b>
<b>09 78 00</b>	<b>Interior Wall Paneling</b>	09 94 13	Textured Finishing
09 78 13	Metal Interior Wall Paneling	09 94 16	Faux Finishing
09 78 16	Stone-Faced Interior Wall Paneling	09 94 19	Multicolor Interior Finishing
09 78 19	Cementitious Interior Wall Paneling	09 94 23	Gilding
09 78 23	Phenolic Interior Wall Paneling	<b>09 96 00</b>	<b>High-Performance Coatings</b>
09 78 26	Plastic Interior Wall Paneling	09 96 13	Abrasion-Resistant Coatings
<b>09 80 00</b>	<b>Acoustic Treatment</b>	09 96 23	Graffiti-Resistant Coatings
<b>09 81 00</b>	<b>Acoustic Insulation</b>	09 96 26	Marine Coatings
09 81 13	Acoustic Board Insulation	09 96 33	High-Temperature-Resistant Coatings
09 81 16	Acoustic Blanket Insulation	09 96 35	Chemical-Resistant Coatings
09 81 29	Sprayed Acoustic Insulation	09 96 43	Fire-Retardant Coatings
<b>09 83 00</b>	<b>Acoustic Finishes</b>	09 96 46	Intumescent Painting
09 83 13	Acoustic Wall Coating	09 96 53	Elastomeric Coatings
09 83 16	Acoustic Ceiling Coating		
09 83 22	Acoustic Drapery		

09 96 56	Epoxy Coatings	10 06 20	Schedules for Interior Specialties
09 96 59	High-Build Glazed Coatings	10 06 20.13	Toilet, Bath, and Laundry Accessory Schedule
09 96 63	Textured Plastic Coatings	10 06 30	Schedules for Fireplaces and Stoves
09 96 66	Aggregate Wall Coatings	10 06 40	Schedules for Safety Specialties
<b>09 97 00</b>	<b>Special Coatings</b>	10 06 50	Schedules for Storage Specialties
09 97 13	Steel Coatings	10 06 70	Schedules for Exterior Specialties
09 97 13.13	Interior Steel Coatings	10 06 80	Schedules for Other Specialties
09 97 13.23	Exterior Steel Coatings	<b>10 08 00</b>	<b>Commissioning of Specialties</b>
09 97 13.24	Steel Water Storage Tank Painting	<b>10 10 00</b>	<b>Information Specialties</b>
09 97 23	Concrete and Masonry Coatings	<b>10 11 00</b>	<b>Visual Display Units</b>
09 97 23.24	Concrete Water Storage Tank Painting	10 11 13	Chalkboards
09 97 26	Cementitious Coatings	10 11 13.13	Fixed Chalkboards
09 97 26.13	Interior Cementitious Coatings	10 11 13.23	Modular-Support-Mounted Chalkboards
09 97 26.23	Exterior Cementitious Coatings	10 11 13.33	Rail-Mounted Chalkboards
09 97 35	Dry Erase Coatings	10 11 13.43	Portable Chalkboards
<b>10 00 00</b>	<b>Specialties</b>	10 11 16	Markerboards
<b>10 01 00</b>	<b>Operation and Maintenance of Specialties</b>	10 11 16.13	Fixed Markerboards
10 01 10	Operation and Maintenance of Information Specialties	10 11 16.23	Modular-Support-Mounted Markerboards
10 01 20	Operation and Maintenance of Interior Specialties	10 11 16.33	Rail-Mounted Markerboards
10 01 30	Operation and Maintenance of Fireplaces and Stoves	10 11 16.43	Portable Markerboards
10 01 40	Operation and Maintenance of Safety Specialties	10 11 16.53	Electronic Markerboards
10 01 50	Operation and Maintenance of Storage Specialties	10 11 23	Tackboards
10 01 70	Operation and Maintenance of Exterior Specialties	10 11 23.13	Fixed Tackboards
10 01 80	Operation and Maintenance of Other Specialties	10 11 23.23	Modular-Support-Mounted Tackboards
<b>10 05 00</b>	<b>Common Work Results for Specialties</b>	10 11 23.33	Rail-Mounted Tackboards
10 05 05	Selective Demolition for Specialties	10 11 23.43	Portable Tackboards
<b>10 06 00</b>	<b>Schedules for Specialties</b>	10 11 33	Sliding Visual Display Units
10 06 10	Schedules for Information Specialties	10 11 33.13	Horizontal-Sliding Visual Display Units
10 06 10.13	Exterior Signage Schedule	10 11 33.23	Vertical-Sliding Visual Display Units
10 06 10.16	Interior Signage Schedule	10 11 36	Visual Display Conference Units
		10 11 39	Visual Display Rails
		10 11 43	Visual Display Wall Panels
		10 11 46	Visual Display Fabrics

<b>10 12 00</b>	<b>Display Cases</b>	10 21 16.14	Stainless-Steel Shower and Dressing Compartments
<b>10 13 00</b>	<b>Directories</b>	10 21 16.16	Plastic-Laminate-Clad Shower and Dressing Compartments
10 13 13	Electronic Directories	10 21 16.17	Phenolic-Core Shower and Dressing Compartments
10 13 23	Illuminated Directories	10 21 16.19	Plastic Shower and Dressing Compartments
<b>10 14 00</b>	<b>Signage</b>	10 21 16.23	Particleboard Shower and Dressing Compartments
10 14 16	Plaques	10 21 16.40	Stone Shower and Dressing Compartments
10 14 19	Dimensional Letter Signage	10 21 23	Cubicle Curtains and Track
10 14 23	Panel Signage	10 21 23.13	Cubicle Curtains
10 14 23.13	Engraved Panel Signage	10 21 23.16	Cubicle Track and Hardware
10 14 26	Post and Panel/Pylon Signage	10 21 26	Room Darkening Curtains and Tracks
10 14 33	Illuminated Signage	<b>10 22 00</b>	<b>Partitions</b>
10 14 43	Photoluminescent Signage	10 22 13	Wire Mesh Partitions
10 14 53	Traffic Signage	10 22 14	Expanded Metal Partitions
10 14 53.13	Transportation Reference Markers	10 22 16	Folding Gates
10 14 63	Electronic Message Signage	10 22 19	Demountable Partitions
10 14 64	Audible Signage	10 22 19.13	Demountable Metal Partitions
10 14 66	Floating Signage	10 22 19.23	Demountable Wood Partitions
10 14 67	Tactile Signage	10 22 19.33	Demountable Plastic Partitions
<b>10 17 00</b>	<b>Telephone Specialties</b>	10 22 19.43	Demountable Composite Partitions
10 17 13	Telephone Directory Units	10 22 19.53	Demountable Gypsum Partitions
10 17 16	Telephone Enclosures	10 22 19.63	Demountable Glass Partitions
10 17 16.13	Telephone Stalls	10 22 23	Portable Partitions, Screens, and Panels
10 17 16.16	Telephone Alcoves	10 22 23.13	Wall Screens
10 17 19	Telephone Shelving	10 22 23.23	Movable Panel Systems
<b>10 18 00</b>	<b>Informational Kiosks</b>	10 22 33	Accordion Folding Partitions
<b>10 20 00</b>	<b>Interior Specialties</b>	10 22 36	Coiling Partitions
<b>10 21 00</b>	<b>Compartments and Cubicles</b>	10 22 39	Folding Panel Partitions
10 21 13	Toilet Compartments	10 22 39.13	Folding Glass-Panel Partitions
10 21 13.13	Metal Toilet Compartments	10 22 43	Sliding Partitions
10 21 13.14	Stainless-Steel Toilet Compartments	<b>10 25 00</b>	<b>Service Walls</b>
10 21 13.16	Plastic-Laminate-Clad Toilet Compartments	10 25 13	Patient Bed Service Walls
10 21 13.17	Phenolic-Core Toilet Compartments	10 25 16	Modular Service Walls
10 21 13.19	Plastic Toilet Compartments	<b>10 26 00</b>	<b>Wall and Door Protection</b>
10 21 13.23	Particleboard Toilet Compartments	10 26 13	Corner Guards
10 21 13.40	Stone Toilet Compartments	10 26 16	Bumper Guards
10 21 16	Shower and Dressing Compartments	10 26 16.13	Bumper Rails
10 21 16.13	Metal Shower and Dressing Compartments	10 26 16.16	Protective Corridor Handrails

10 26 23	Protective Wall Covering	<b>10 40 00</b>	<b>Safety Specialties</b>
10 26 23.13	Impact Resistant Wall Protection	<b>10 41 00</b>	<b>Emergency Access and Information Cabinets</b>
10 26 23.16	Fiberglass Reinforced Protective Wall Covering	10 41 13	Fire Department Plan Cabinets
10 26 33	Door and Frame Protection	10 41 16	Emergency Key Cabinets
10 26 41	Ballistics Resistant Panels	<b>10 43 00</b>	<b>Emergency Aid Specialties</b>
<b>10 28 00</b>	<b>Toilet, Bath, and Laundry Accessories</b>	10 43 13	Defibrillator Cabinets
10 28 13	Toilet Accessories	10 43 16	First Aid Cabinets
10 28 13.13	Commercial Toilet Accessories	10 43 21	Accessibility Evacuation Chairs
10 28 13.19	Healthcare Toilet Accessories	10 43 31	Respiration Equipment
10 28 13.53	Security Toilet Accessories	10 43 33	Breathing Air Replenishment Systems
10 28 13.63	Detention Toilet Accessories	<b>10 44 00</b>	<b>Fire Protection Specialties</b>
10 28 16	Bath Accessories	10 44 13	Fire Protection Cabinets
10 28 16.13	Residential Bath Accessories	10 44 13.53	Security Fire Extinguisher Cabinets
10 28 19	Tub and Shower Enclosures	10 44 16	Fire Extinguishers
10 28 19.16	Shower Doors	10 44 16.13	Portable Fire Extinguishers
10 28 19.19	Tub Doors	10 44 16.16	Wheeled Fire Extinguisher Units
10 28 23	Laundry Accessories	10 44 19	Fire Blankets
10 28 23.13	Built-In Ironing Boards	10 44 43	Fire Extinguisher Accessories
10 28 23.16	Clothes Drying Racks and Lines	<b>10 45 00</b>	<b>Photoluminescent Exit Specialties</b>
10 28 26	Hygiene and Custodial Accessories	<b>10 50 00</b>	<b>Storage Specialties</b>
<b>10 30 00</b>	<b>Fireplaces and Stoves</b>	<b>10 51 00</b>	<b>Lockers</b>
<b>10 31 00</b>	<b>Manufactured Fireplaces</b>	10 51 13	Metal Lockers
10 31 13	Manufactured Fireplace Chimneys	10 51 13.13	Coin-Operated Metal Lockers
10 31 16	Manufactured Fireplace Forms	10 51 16	Wood Lockers
<b>10 32 00</b>	<b>Fireplace Specialties</b>	10 51 23	Plastic-Laminate-Clad Lockers
10 32 13	Fireplace Dampers	10 51 26	Plastic Lockers
10 32 16	Fireplace Inserts	10 51 26.13	Recycled Plastic Lockers
10 32 19	Fireplace Screens	10 51 29	Phenolic Lockers
10 32 23	Fireplace Doors	10 51 33	Glass Lockers
10 32 26	Fireplace Water Heaters	10 51 43	Wire Mesh Storage Lockers
<b>10 35 00</b>	<b>Stoves</b>	10 51 53	Locker Room Benches
10 35 13	Heating Stoves	<b>10 55 00</b>	<b>Postal Specialties</b>
10 35 23	Cooking Stoves	10 55 13	Central Mail Delivery Boxes
		10 55 13.13	Cluster Box Units



10 55 16	Mail Collection Boxes	10 57 23	Closet and Utility Shelving
10 55 19	Receiving Boxes	10 57 23.13	Wire Closet and Utility Shelving
10 55 23	Mail Boxes	10 57 23.16	Plastic-Laminate-Clad Closet and Utility Shelving
10 55 23.13	Apartment Mail Boxes	10 57 23.19	Wood Closet and Utility Shelving
10 55 23.16	Mail Box Directories	10 57 33	Closet and Utility Shelving Hardware
10 55 23.19	Mail Box Key Keepers	10 57 36	Closet Doors
10 55 26	Parcel Lockers	10 57 36.13	Sliding Closet Doors
10 55 33	Data Distribution Boxes	10 57 36.16	Bifold Closet Doors
10 55 36	Package Depositories	<b>10 70 00</b>	<b>Exterior Specialties</b>
10 55 91	Mail Chutes	<b>10 71 00</b>	<b>Exterior Protection</b>
<b>10 56 00</b>	<b>Storage Assemblies</b>	10 71 13	Exterior Sun Control Devices
10 56 13	Metal Storage Shelving	10 71 13.13	Exterior Shutters
10 56 13.13	End-Panel-Support Metal Storage Shelving	10 71 13.19	Rolling Exterior Shutters
10 56 13.16	Post-and-Shelf Metal Storage Shelving	10 71 13.23	Coiling Exterior Shutters
10 56 13.19	Post-and-Beam Metal Storage Shelving	10 71 13.26	Decorative Exterior Shutters
10 56 13.23	Cantilever Metal Storage Shelving	10 71 13.29	Side-Hinged Exterior Shutters
10 56 16	Fabricated Wood Storage Shelving	10 71 13.43	Fixed Sun Screens
10 56 17	Wall-Mounted Standards and Shelving	10 71 13.53	Exterior Daylighting Devices
10 56 19	Plastic Storage Shelving	10 71 16	Storm Panels
10 56 19.13	Recycled Plastic Storage Shelving	10 71 16.13	Demountable Storm Panels
10 56 23	Wire Storage Shelving	10 71 16.16	Movable Storm Panels
10 56 26	Mobile Storage Shelving	10 71 19	Flood Barriers
10 56 26.13	Manual Mobile Storage Shelving	10 71 19.16	Removable Flood Barriers
10 56 26.23	Motorized Mobile Storage Shelving	<b>10 73 00</b>	<b>Protective Covers</b>
10 56 29	Storage Racks	10 73 13	Awnings
10 56 29.13	Flow Storage Racks	10 73 13.13	Metal Awnings
10 56 29.16	Pallet Storage Racks	10 73 13.23	Fabric Awnings
10 56 29.19	Movable-Shelf Storage Racks	10 73 13.36	Point Supported Glass Awnings
10 56 29.23	Stacker Storage Racks	10 73 16	Canopies
10 56 29.26	Cantilever Storage Racks	10 73 16.13	Metal Canopies
10 56 29.29	Drive-In Storage Racks	10 73 16.23	Fabric Canopies
10 56 29.33	Drive-Through Storage Racks	10 73 16.33	Glazed Canopies
10 56 29.43	Wine Storage Racks	10 73 16.36	Point Supported Glass Canopies
10 56 33	Mercantile Storage Assemblies	10 73 23	Car Shelters
<b>10 57 00</b>	<b>Wardrobe and Closet Specialties</b>	10 73 26	Walkway Coverings
10 57 13	Hat and Coat Racks	10 73 26.13	Metal Walkway Coverings
10 57 16	Boot Racks	10 73 26.23	Fabric Walkway Coverings
		10 73 26.33	Glazed Walkway Coverings
		10 73 26.36	Point Supported Glass Walkway Coverings
		10 73 29	Smoking Shelters
		10 73 33	Marquees
		10 73 43	Transportation Stop Shelters

- 10 74 00** **Manufactured Exterior Specialties**
  - 10 74 13 Exterior Clocks
  - 10 74 23 Cupolas
  - 10 74 26 Spires
  - 10 74 29 Steeples
  - 10 74 33 Weathervanes
  - 10 74 43 Below-Grade Egress Assemblies
  - 10 74 46 Window Wells
  - 10 74 49 Modular Landing and Ramp Systems
- 10 75 00** **Flagpoles**
  - 10 75 13 Automatic Flagpoles
  - 10 75 16 Ground-Set Flagpoles
  - 10 75 19 Nautical Flagpoles
  - 10 75 23 Wall-Mounted Flagpoles
  - 10 75 26 Roof-Mounted Flagpoles
  - 10 75 29 Plaza-Mounted Flagpoles
- 10 80 00** **Miscellaneous Specialties**
- 10 81 00** **Pest Control Devices**
  - 10 81 13 Bird Control Devices
  - 10 81 16 Insect Control Devices
  - 10 81 19 Rodent Control Devices
- 10 82 00** **Grilles and Screens**
  - 10 82 13 Exterior Grilles and Screens
  - 10 82 19 Exterior Sound Screens
  - 10 82 23 Interior Grilles and Screens
- 10 83 00** **Flags and Banners**
  - 10 83 13 Flags
  - 10 83 16 Banners
- 10 84 00** **Gas Lighting**
  - 10 84 13 Exterior Gas Lighting
  - 10 84 16 Interior Gas Lighting
- 10 86 00** **Security Mirrors and Domes**
- 10 88 00** **Scales**

## **11 00 00** **Equipment**

- 11 01 00** **Operation and Maintenance of Equipment**
  - 11 01 10 Operation and Maintenance of Vehicle and Pedestrian Equipment
  - 11 01 20 Operation and Maintenance of Commercial Equipment
  - 11 01 30 Operation and Maintenance of Residential Equipment
  - 11 01 40 Operation and Maintenance of Foodservice Equipment
  - 11 01 50 Operation and Maintenance of Educational and Scientific Equipment
  - 11 01 56 Operation and Maintenance of Observatory Equipment
  - 11 01 60 Operation and Maintenance of Entertainment and Recreation Equipment
  - 11 01 70 Operation and Maintenance of Healthcare Equipment
  - 11 01 80 Operation and Maintenance of Facility Maintenance and Operation Equipment
  - 11 01 90 Operation and Maintenance of Other Equipment
- 11 05 00** **Common Work Results for Equipment**
  - 11 05 05 Selective Demolition for Equipment
  - 11 05 13 Common Motor Requirements for Equipment
- 11 06 00** **Schedules for Equipment**
  - 11 06 10 Schedules for Vehicle and Pedestrian Equipment
  - 11 06 20 Schedules for Commercial Equipment
  - 11 06 30 Schedules for Residential Equipment
  - 11 06 40 Schedules for Foodservice Equipment
  - 11 06 40.13 Foodservice Equipment Schedule

11 06 50	Schedules for Educational and Scientific Equipment	<b>11 13 00</b>	<b>Loading Dock Equipment</b>
11 06 60	Schedules for Entertainment and Recreation Equipment	11 13 13	Loading Dock Bumpers
11 06 70	Schedules for Healthcare Equipment	11 13 16	Loading Dock Seals and Shelters
11 06 70.13	Healthcare Equipment Schedule	11 13 16.13	Loading Dock Seals
11 06 80	Schedules for Facility Maintenance and Operation Equipment	11 13 16.23	Loading Dock Shelters
11 06 90	Schedules for Other Equipment	11 13 16.33	Loading Dock Rail Shelters
11 06 90.11	Schedules for Detention Equipment	11 13 19	Stationary Loading Dock Equipment
<b>11 08 00</b>	<b>Commissioning of Equipment</b>	11 13 19.13	Loading Dock Levelers
<b>11 10 00</b>	<b>Vehicle and Pedestrian Equipment</b>	11 13 19.23	Stationary Loading Dock Lifts
<b>11 11 00</b>	<b>Vehicle Service Equipment</b>	11 13 19.26	Loading Dock Truck Lifts
11 11 13	Compressed-Air Vehicle Service Equipment	11 13 19.33	Loading Dock Truck Restraints
11 11 19	Vehicle Lubrication Equipment	11 13 23	Portable Dock Equipment
11 11 23	Tire-Changing Equipment	11 13 23.13	Portable Dock Lifts
11 11 26	Vehicle-Washing Equipment	11 13 23.16	Portable Dock Ramps
11 11 36	Vehicle Charging Equipment	11 13 23.19	Portable Dock Bridges
11 11 36.13	Commercial Electric Vehicle Charging Unit	11 13 23.23	Portable Dock Platforms
11 11 36.16	Residential Electric Vehicle Charging Unit	11 13 26	Loading Dock Lights
<b>11 12 00</b>	<b>Parking Control Equipment</b>	<b>11 14 00</b>	<b>Pedestrian Control Equipment</b>
11 12 13	Parking Key and Card Control Units	11 14 13	Pedestrian Gates
11 12 16	Parking Ticket Dispensers	11 14 13.16	Rotary Gates
11 12 23	Parking Meters	11 14 13.19	Turnstiles
11 12 26	Parking Fee Collection Equipment	11 14 16	Pedestrian Control Devices
11 12 26.13	Parking Fee Coin Collection Equipment	11 14 19	Portable Posts and Railings
11 12 33	Parking Gates	11 14 26	Pedestrian Fare Collection Equipment
11 12 33.13	Lift Arm Parking Gates	11 14 26.13	Pedestrian Coin Fare Collection Equipment
11 12 33.16	Sliding Parking Gates	11 14 43	Pedestrian Detection Equipment
11 12 33.19	Swinging Parking Gates	11 14 43.13	Electronic Detection and Counting Systems
		11 14 53	Pedestrian Security Equipment
		<b>11 15 00</b>	<b>Security Control Equipment</b>
		<b>11 20 00</b>	<b>Commercial Equipment</b>
		<b>11 21 00</b>	<b>Retail and Service Equipment</b>
		11 21 13	Cash Registers and Checking Equipment
		11 21 23	Vending Equipment

11 21 23.13	Merchandise Vending Machines	<b>11 29 00</b>	<b>Postal, Packaging, and Shipping Equipment</b>
11 21 23.16	Reverse Vending Machines	11 29 23	Packaging Equipment
11 21 23.19	Video Rental Vending Machines	11 29 33	Shipping Equipment
11 21 23.36	Token Vending Machines	11 29 55	Postal Equipment
11 21 24	Money Changing Machines	<b>11 30 00</b>	<b>Residential Equipment</b>
11 21 33	Checkroom Equipment	11 30 13	Residential Appliances
11 21 43	Weighing and Wrapping Equipment	11 30 13.13	Residential Kitchen Appliances
11 21 53	Barber and Beauty Shop Equipment	11 30 13.23	Residential Laundry Appliances
11 21 63	Refrigerated Display Equipment	11 30 33	Retractable Stairs
11 21 73	Commercial Laundry and Dry Cleaning Equipment	11 30 34	Residential Ceiling Fans
11 21 73.13	Dry Cleaning Equipment	<b>11 32 00</b>	<b>Unit Kitchens</b>
11 21 73.16	Drying and Conditioning Equipment	11 32 13	Metal Unit Kitchens
11 21 73.19	Finishing Equipment	11 32 16	Wood Unit Kitchens
11 21 73.23	Commercial Ironing Equipment	11 32 19	Plastic-Laminate-Clad Unit Kitchens
11 21 73.26	Commercial Washers and Extractors	<b>11 40 00</b>	<b>Foodservice Equipment</b>
11 21 73.33	Coin-Operated Laundry Equipment	<b>11 41 00</b>	<b>Foodservice Storage Equipment</b>
11 21 73.43	Hanging Garment Conveyors	11 41 13	Refrigerated Food Storage Cases
11 21 83	Photo Processing Equipment	11 41 23	Walk-In Coolers
<b>11 22 00</b>	<b>Banking Equipment</b>	11 41 26	Walk-In Freezers
11 22 13	Vault Equipment	11 41 33	Foodservice Shelving
11 22 13.13	Safe Deposit Boxes	<b>11 42 00</b>	<b>Food Preparation Equipment</b>
11 22 13.16	Safes	11 42 13	Food Preparation Appliances
11 22 13.23	Vault Ventilators	11 42 16	Food Preparation Surfaces
11 22 13.26	Time Capsules	<b>11 43 00</b>	<b>Food Delivery Carts and Conveyors</b>
11 22 16	Teller and Service Equipment	11 43 13	Food Delivery Carts
11 22 16.13	Teller Equipment Systems	11 43 16	Food Delivery Conveyors
11 22 16.16	Automatic Banking Systems	<b>11 44 00</b>	<b>Food Cooking Equipment</b>
11 22 16.19	Money Handling Equipment	11 44 13	Commercial Ranges
11 22 16.23	Money Depositories	11 44 16	Commercial Ovens
11 22 16.26	Money Cart Pass-Through	<b>11 46 00</b>	<b>Food Dispensing Equipment</b>
11 22 16.29	Package Transfer Units	11 46 13	Bar Equipment
11 22 16.33	Deal Trays	11 46 16	Service Line Equipment
<b>11 25 00</b>	<b>Hospitality Equipment</b>		
11 25 13	Registration Equipment		
<b>11 28 00</b>	<b>Office Equipment</b>		
11 28 13	Computers		
11 28 16	Printers		
11 28 23	Copiers		

11 46 19	Soda Fountain Equipment	11 53 33	Emergency Safety Appliances
11 46 23	Coffee and Espresso Equipment	11 53 43	Service Fittings and Accessories
11 46 83	Ice Machines	11 53 53	Biological Safety Cabinets
<b>11 48 00</b>	<b>Foodservice Cleaning and Disposal Equipment</b>	<b>11 55 00</b>	<b>Planetarium Equipment</b>
11 48 13	Commercial Dishwashers	11 55 13	Planetarium Projectors
<b>11 50 00</b>	<b>Educational and Scientific Equipment</b>	11 55 16	Planetarium Pendulums
<b>11 51 00</b>	<b>Library Equipment</b>	<b>11 56 00</b>	<b>Observatory Equipment</b>
11 51 13	Automated Book Storage and Retrieval Systems	11 56 13	Telescopes
11 51 16	Book Depositories	11 56 16	Telescope Mounts
11 51 19	Book Theft Protection Equipment	11 56 19	Telescope Drive Mechanisms
11 51 23	Library Stack Systems	11 56 23	Telescope Domes
11 51 23.13	Metal Library Shelving	<b>11 57 00</b>	<b>Vocational Shop Equipment</b>
<b>11 52 00</b>	<b>Audio-Visual Equipment</b>	<b>11 59 00</b>	<b>Exhibit Equipment</b>
11 52 13	Projection Screens	<b>11 60 00</b>	<b>Entertainment and Recreation Equipment</b>
11 52 13.13	Fixed Projection Screens	<b>11 61 00</b>	<b>Broadcast, Theater, and Stage Equipment</b>
11 52 13.16	Portable Projection Screens	11 61 13	Acoustical Shells
11 52 13.19	Rear Projection Screens	11 61 23	Folding and Portable Stages
11 52 16	Projectors	11 61 33	Rigging Systems and Controls
11 52 16.13	Movie Projectors	11 61 33.11	Lighting Rigging Systems
11 52 16.16	Slide Projectors	11 61 33.16	Scenery Rigging Systems
11 52 16.19	Overhead Projectors	11 61 33.19	Curtain Systems
11 52 16.23	Opaque Projectors	11 61 43	Stage Curtains
11 52 16.26	Video Projectors	<b>11 62 00</b>	<b>Musical Equipment</b>
11 52 19	Players and Recorders	11 62 13	Bells
11 52 23	Audio-Visual Equipment Supports	11 62 16	Carillons
11 52 33	Interactive Displays	11 62 19	Organs
<b>11 53 00</b>	<b>Laboratory Equipment</b>	<b>11 66 00</b>	<b>Athletic Equipment</b>
11 53 13	Laboratory Fume Hoods	11 66 13	Exercise Equipment
11 53 13.13	Recirculating Laboratory Fume Hoods	11 66 23	Gymnasium Equipment
11 53 16	Laboratory Incubators	11 66 23.13	Basketball Equipment
11 53 17	Laboratory Equipment Washers	11 66 23.23	Volleyball Equipment
11 53 19	Laboratory Sterilizers	11 66 23.33	Interior Tennis Equipment
11 53 23	Laboratory Refrigerators	11 66 23.43	Interior Track and Field Equipment
11 53 26	Laboratory Freezers	11 66 23.53	Wall Padding
11 53 29	Laboratory Controlled-Environment Cabinets	11 66 23.56	Mat Storage
		11 66 43	Interior Scoreboards

11 66 53	Gymnasium Dividers	<b>11 78 00</b>	<b>Mortuary Equipment</b>
11 66 53.13	Batting/Golf Cages	11 78 13	Mortuary Refrigerators
<b>11 67 00</b>	<b>Recreational Equipment</b>	11 78 16	Crematorium Equipment
11 67 13	Bowling Alley Equipment	11 78 19	Mortuary Lifts
11 67 23	Shooting Range Equipment	<b>11 79 00</b>	<b>Therapy Equipment</b>
11 67 33	Climbing Walls	<b>11 80 00</b>	<b>Facility Maintenance and Operation Equipment</b>
11 67 43	Table Games Equipment	<b>11 81 00</b>	<b>Facility Maintenance Equipment</b>
11 67 43.13	Pool Tables	11 81 13	Floor and Wall Cleaning Equipment
11 67 43.23	Ping-Pong Tables	11 81 16	Housekeeping Carts
11 67 53	Game Room Equipment	11 81 19	Vacuum Cleaning Systems
11 67 53.13	Video Games	11 81 23	Façade Access Equipment
11 67 53.23	Pinball Machines	11 81 23.13	Window Washing Systems
<b>11 68 00</b>	<b>Play Field Equipment and Structures</b>	11 81 29	Facility Fall Protection
11 68 13	Playground Equipment	<b>11 82 00</b>	<b>Facility Solid Waste Handling Equipment</b>
11 68 16	Play Structures	11 82 13	Solid Waste Bins
11 68 23	Exterior Court Athletic Equipment	11 82 16	Facility Waste Conveyors
11 68 23.13	Exterior Basketball Equipment	11 82 19	Packaged Incinerators
11 68 23.23	Exterior Volleyball Equipment	11 82 23	Recycling Equipment
11 68 23.33	Tennis Equipment	11 82 26	Facility Waste Compactors
11 68 33	Athletic Field Equipment	11 82 29	Composting Equipment
11 68 33.13	Football Field Equipment	11 82 33	Facility Waste Shredders
11 68 33.23	Soccer and Field Hockey Equipment	11 82 36	Facility Waste Balers
11 68 33.33	Baseball Field Equipment	<b>11 90 00</b>	<b>Miscellaneous Equipment</b>
11 68 33.43	Track and Field Equipment	<b>11 91 00</b>	<b>Religious Equipment</b>
11 68 43	Exterior Scoreboards	11 91 13	Baptisteries
<b>11 70 00</b>	<b>Healthcare Equipment</b>	<b>11 92 00</b>	<b>Agricultural Equipment</b>
<b>11 71 00</b>	<b>Medical Sterilizing Equipment</b>	11 92 13	Milkers
<b>11 72 00</b>	<b>Examination and Treatment Equipment</b>	11 92 16	Stock Feeders
11 72 13	Examination Equipment	11 92 19	Stock Waterers
11 72 53	Treatment Equipment	11 92 23	Agricultural Waste Clean-Up Equipment
<b>11 73 00</b>	<b>Patient Care Equipment</b>	<b>11 93 00</b>	<b>Horticultural Equipment</b>
11 73 13	Psychiatric Seclusion Room Padding	11 93 13	Hydroponic Growing Systems
<b>11 74 00</b>	<b>Dental Equipment</b>	11 93 16	Seeders
<b>11 75 00</b>	<b>Optical Equipment</b>	11 93 19	Transplanters
<b>11 76 00</b>	<b>Operating Room Equipment</b>	11 93 23	Potting Machines
<b>11 77 00</b>	<b>Radiology Equipment</b>		

11 93 26	Flat Fillers	<b>12 05 00</b>	<b>Common Work Results for Furnishings</b>
11 93 29	Baggers	12 05 05	Selective Demolition for Furnishings
11 93 33	Soil Mixers	12 05 13	Fabrics
<b>11 94 00</b>	<b>Veterinary Equipment</b>	<b>12 06 00</b>	<b>Schedules for Furnishings</b>
<b>11 95 00</b>	<b>Arts and Crafts Equipment</b>	12 06 10	Schedules for Art
11 95 13	Kilns	12 06 20	Schedules for Window Treatments
<b>11 97 00</b>	<b>Security Equipment</b>	12 06 20.13	Window Treatment Schedule
11 97 13	Deal Drawers	12 06 30	Schedules for Casework
11 97 16	Gun Ports	12 06 30.13	Manufactured Casework Schedule
11 97 23	Valuable Material Storage	12 06 40	Schedules for Furnishings and Accessories
<b>11 98 00</b>	<b>Detention Equipment</b>	12 06 40.13	Furnishings Schedule
11 98 11	Detention Equipment Requirements	12 06 50	Schedules for Furniture
11 98 12	Detention Doors and Frames	12 06 60	Schedules for Multiple Seating
11 98 13	Detention Pass-Through Doors	12 06 90	Schedules for Other Furnishings
11 98 14	Detention Door Hardware	<b>12 08 00</b>	<b>Commissioning of Furnishings</b>
11 98 16	Detention Equipment Fasteners	<b>12 10 00</b>	<b>Art</b>
11 98 19	Detention Room Padding	<b>12 11 00</b>	<b>Murals</b>
11 98 21	Detention Windows	12 11 13	Photo Murals
11 98 23	Detention Window Screens	12 11 16	Sculptured Brick Panels
<b>12 00 00</b>	<b>Furnishings</b>	12 11 23	Brick Murals
<b>12 01 00</b>	<b>Operation and Maintenance of Furnishings</b>	12 11 26	Ceramic Tile Murals
12 01 10	Operation and Maintenance of Art	12 11 33	Trompe L'Oeil
12 01 20	Operation and Maintenance of Window Treatments	<b>12 12 00</b>	<b>Wall Decorations</b>
12 01 30	Operation and Maintenance of Casework	12 12 13	Commissioned Paintings
12 01 40	Operation and Maintenance of Furnishings and Accessories	12 12 16	Framed Paintings
12 01 50	Operation and Maintenance of Furniture	12 12 19	Framed Prints
12 01 60	Operation and Maintenance of Multiple Seating	12 12 23	Tapestries
12 01 90	Operation and Maintenance of Other Furnishings	12 12 26	Wall Hangings
		<b>12 14 00</b>	<b>Sculptures</b>
		12 14 13	Carved Sculpture
		12 14 16	Cast Sculpture
		12 14 19	Constructed Sculpture
		12 14 23	Relief Art
		<b>12 17 00</b>	<b>Art Glass</b>
		12 17 13	Etched Glass

12 17 16	Stained Glass	12 34 00	<b>Manufactured Plastic Casework</b>
<b>12 19 00</b>	<b>Religious Art</b>	12 34 16	Manufactured Solid-Plastic Casework
<b>12 20 00</b>	<b>Window Treatments</b>	12 34 19	Manufactured Solid Surface Casework
<b>12 21 00</b>	<b>Window Blinds</b>	<b>12 35 00</b>	<b>Specialty Casework</b>
12 21 13	Horizontal Louver Blinds	12 35 17	Bank Casework
12 21 13.13	Metal Horizontal Louver Blinds	12 35 25	Hospitality Casework
12 21 13.23	Wood Horizontal Louver Blinds	12 35 30	Residential Casework
12 21 13.33	Plastic Horizontal Louver Blinds	12 35 30.13	Kitchen Casework
12 21 16	Vertical Louver Blinds	12 35 30.23	Bathroom Casework
12 21 16.13	Metal Vertical Louver Blinds	12 35 30.43	Dormitory Casework
12 21 16.23	Wood Vertical Louver Blinds	12 35 33	Utility Room Casework
12 21 16.33	Plastic Vertical Louver Blinds	12 35 36	Mailroom Casework
12 21 23	Roll-Down Blinds	12 35 39	Commercial Kitchen Casework
12 21 26	Black-Out Blinds	12 35 50	Educational/Library Casework
<b>12 22 00</b>	<b>Curtains and Drapes</b>	12 35 50.13	Educational Casework
12 22 13	Draperies	12 35 50.53	Library Casework
12 22 16	Drapery Track and Accessories	12 35 50.56	Built-In Study Carrels
<b>12 23 00</b>	<b>Interior Shutters</b>	12 35 53	Laboratory Casework
12 23 13	Wood Interior Shutters	12 35 53.13	Metal Laboratory Casework
<b>12 24 00</b>	<b>Window Shades</b>	12 35 53.16	Plastic-Laminate-Clad Laboratory Casework
12 24 13	Roller Window Shades	12 35 53.19	Wood Laboratory Casework
12 24 16	Pleated Window Shades	12 35 53.23	Solid-Plastic Laboratory Casework
12 24 16.13	Z-Pleated Window Shades	12 35 59	Display Casework
12 24 16.16	Cellular Shades	12 35 70	Healthcare Casework
12 24 16.19	Roman Shades	12 35 70.13	Hospital Casework
<b>12 25 00</b>	<b>Window Treatment Operating Hardware</b>	12 35 70.16	Nurse Station Casework
12 25 09	Window Treatment Control System	12 35 70.19	Exam Room Casework
12 25 13	Motorized Drapery Rods	12 35 70.74	Dental Casework
<b>12 26 00</b>	<b>Interior Daylighting Devices</b>	12 35 83	Performing Arts Casework
<b>12 30 00</b>	<b>Casework</b>	12 35 91	Religious Casework
<b>12 31 00</b>	<b>Manufactured Metal Casework</b>	<b>12 36 00</b>	<b>Countertops</b>
12 31 16	Manufactured Metal Sandwich Panel Casework	12 36 13	Concrete Countertops
<b>12 32 00</b>	<b>Manufactured Wood Casework</b>	12 36 16	Metal Countertops
12 32 13	Manufactured Wood-Veneer-Faced Casework	12 36 19	Wood Countertops
12 32 16	Manufactured Plastic-Laminate-Clad Casework	12 36 23	Plastic Countertops
		12 36 23.13	Plastic-Laminate-Clad Countertops
		12 36 26	Glass Countertops
		12 36 40	Stone Countertops
		12 36 53	Laboratory Countertops



12 36 61 Simulated Stone  
Countertops  
12 36 61.13 Cultured Marble Countertops  
12 36 61.16 Solid Surfacing Countertops  
12 36 61.19 Quartz Agglomerate  
Countertops  
12 36 71 Paper-Composite  
Countertops

## **12 40 00 Furnishings and Accessories**

### **12 41 00 Office Accessories**

12 41 13 Desk Accessories

### **12 42 00 Table Accessories**

12 42 13 Ceramics  
12 42 16 Flatware  
12 42 16.13 Silverware  
12 42 19 Hollowware  
12 42 23 Glassware  
12 42 26 Table Linens  
12 42 26.13 Napery

### **12 43 00 Portable Lamps**

12 43 13 Lamps  
12 43 13.13 Desk Lamps  
12 43 13.16 Table Lamps  
12 43 13.19 Floor Lamps

### **12 44 00 Bath Furnishings**

12 44 13 Bath Linens  
12 44 13.13 Bath Mats  
12 44 13.16 Bath Towels  
12 44 16 Shower Curtains

### **12 45 00 Bedroom Furnishings**

12 45 13 Bed Linens  
12 45 13.13 Blankets  
12 45 13.16 Comforters  
12 45 16 Pillows

### **12 46 00 Furnishing Accessories**

12 46 13 Ash Receptacles  
12 46 16 Bowls  
12 46 19 Clocks  
12 46 23 Decorative Crafts  
12 46 26 Decorative Screens  
12 46 29 Vases  
12 46 33 Waste Receptacles

## **12 48 00 Rugs and Mats**

12 48 13 Entrance Floor Mats and  
Frames  
12 48 13.13 Entrance Floor Mats  
12 48 13.16 Entrance Floor Mat Frames  
12 48 16 Entrance Floor Grilles  
12 48 19 Entrance Floor Gratings  
12 48 23 Entrance Floor Grids  
12 48 26 Entrance Tile  
12 48 43 Floor Mats  
12 48 43.13 Chair Mats  
12 48 43.23 Anti-Fatigue Floor Mats  
12 48 43.26 Fall-Cushioning Floor Mats  
12 48 53 Rugs  
12 48 53.13 Runners  
12 48 53.16 Oriental Rugs

## **12 50 00 Furniture**

### **12 51 00 Office Furniture**

12 51 16 Case Goods  
12 51 16.13 Metal Case Goods  
12 51 16.16 Wood Case Goods  
12 51 16.19 Plastic-Laminate-Clad Case  
Goods  
12 51 19 Filing Cabinets  
12 51 19.13 Lateral Filing Cabinets  
12 51 19.16 Vertical Filing Cabinets  
12 51 23 Office Tables  
12 51 83 Custom Office Furniture

### **12 52 00 Seating**

12 52 13 Chairs  
12 52 19 Upholstered Seating  
12 52 23 Office Seating  
12 52 70 Healthcare Seating  
12 52 83 Custom Seating

### **12 53 00 Retail Furniture**

12 53 83 Custom Retail Furniture  
**12 54 00 Hospitality Furniture**  
12 54 13 Hotel and Motel Furniture  
12 54 16 Restaurant Furniture  
12 54 83 Custom Hospitality  
Furniture

### **12 55 00 Detention Furniture**

12 55 13 Detention Bunks  
12 55 16 Detention Desks  
12 55 19 Detention Stools

12 55 23	Detention Tables	12 58 83	Custom Residential Furniture
12 55 26	Detention Safety Clothes Hooks	<b>12 59 00</b>	<b>Systems Furniture</b>
12 55 83	Custom Detention Furniture	12 59 13	Panel-Hung Component System Furniture
12 55 86	Detention Control Room Furniture	12 59 16	Free-Standing Component System Furniture
<b>12 56 00</b>	<b>Institutional Furniture</b>	12 59 19	Beam System Furniture
12 56 23	Religious Furniture	12 59 23	Desk System Furniture
12 56 33	Classroom Furniture	12 59 83	Custom Systems Furniture
12 56 33.13	Fixed Classroom Tables	<b>12 60 00</b>	<b>Multiple Seating</b>
12 56 33.23	Classroom Computer Furniture	<b>12 61 00</b>	<b>Fixed Audience Seating</b>
12 56 39	Lecterns	12 61 13	Upholstered Audience Seating
12 56 43	Dormitory Furniture	12 61 16	Molded-Plastic Audience Seating
12 56 51	Library Furniture	<b>12 62 00</b>	<b>Portable Audience Seating</b>
12 56 51.13	Book Shelves	12 62 13	Folding Chairs
12 56 51.16	Study Carrels	12 62 16	Interlocking Chairs
12 56 51.19	Index Card File Cabinets	12 62 19	Stacking Chairs
12 56 52	Audio-Visual Furniture	12 62 23	Portable Bleachers
12 56 53	Laboratory Furniture	<b>12 63 00</b>	<b>Stadium and Arena Seating</b>
12 56 70	Healthcare Furniture	12 63 13	Stadium and Arena Bench Seating
12 56 83	Custom Institutional Furniture	12 63 23	Stadium and Arena Seats
12 56 86	Institutional Control Room Furniture	<b>12 64 00</b>	<b>Booths and Tables</b>
<b>12 57 00</b>	<b>Industrial Furniture</b>	12 64 13	Booths
12 57 13	Welding Benches	12 64 16	Tables
12 57 16	Welding Screens	12 64 23	Banquette Seating
12 57 19	Laser Containment Screens	<b>12 65 00</b>	<b>Multiple-Use Fixed Seating</b>
12 57 83	Custom Industrial Furniture	<b>12 66 00</b>	<b>Telescoping Stands</b>
12 57 86	Industrial Control Room Furniture	12 66 13	Telescoping Bleachers
<b>12 58 00</b>	<b>Residential Furniture</b>	12 66 23	Telescoping Chair Platforms
12 58 13	Couches and Loveseats	<b>12 67 00</b>	<b>Pews and Benches</b>
12 58 13.13	Futons	12 67 13	Pews
12 58 16	Residential Chairs	12 67 23	Benches
12 58 16.13	Reclining Chairs	<b>12 68 00</b>	<b>Seat and Table Assemblies</b>
12 58 19	Dining Tables and Chairs	12 68 13	Pedestal Tablet Arm Chairs
12 58 23	Coffee Tables		
12 58 26	Entertainment Centers		
12 58 29	Beds		
12 58 29.13	Daybeds		
12 58 33	Dressers		
12 58 33.13	Armoires		
12 58 36	Nightstands		

<b>12 90 00</b>	<b>Other Furnishings</b>	13 01 49	Operation and Maintenance of Radiation Protection
<b>12 92 00</b>	<b>Interior Planters and Artificial Plants</b>	13 01 50	Operation and Maintenance of Special Instrumentation
12 92 13	Interior Artificial Plants	13 01 51	Operation and Maintenance of Stress Instrumentation
12 92 33	Interior Planters	13 01 52	Operation and Maintenance of Seismic Instrumentation
12 92 43	Interior Landscaping Accessories	13 01 53	Operation and Maintenance of Meteorological Instrumentation
<b>12 93 00</b>	<b>Interior Public Space Furnishings</b>	<b>13 05 00</b>	<b>Common Work Results for Special Construction</b>
12 93 13	Bicycle Racks	13 05 05	Selective Demolition for Special Construction
12 93 14	Bicycle Lockers	<b>13 06 00</b>	<b>Schedules for Special Construction</b>
12 93 23	Trash and Litter Receptacles	13 06 10	Schedules for Special Facility Components
<b>13 00 00</b>	<b>Special Construction</b>	13 06 20	Schedules for Special Purpose Rooms
<b>13 01 00</b>	<b>Operation and Maintenance of Special Construction</b>	13 06 30	Schedules for Special Structures
13 01 10	Operation and Maintenance of Special Facility Components	13 06 40	Schedules for Integrated Construction
13 01 11	Operation and Maintenance of Swimming Pools	13 06 50	Schedules for Special Instrumentation
13 01 12	Operation and Maintenance of Fountains	<b>13 08 00</b>	<b>Commissioning of Special Construction</b>
13 01 13	Operation and Maintenance of Aquariums	13 08 10	Commissioning of Special Facility Components
13 01 14	Operation and Maintenance of Amusement Park Structures and Equipment	13 08 11	Commissioning of Swimming Pools
13 01 18	Operation and Maintenance of Ice Rinks	13 08 12	Commissioning of Fountains
13 01 20	Operation and Maintenance of Special Purpose Rooms	13 08 13	Commissioning of Aquariums
13 01 21	Operation and Maintenance of Controlled Environment Rooms	13 08 14	Commissioning of Amusement Park Structures and Equipment
13 01 23	Operation and Maintenance of Planetariums	13 08 18	Commissioning of Ice Rinks
13 01 30	Operation and Maintenance of Special Structures	13 08 20	Commissioning of Special Purpose Rooms
13 01 40	Operation and Maintenance of Integrated Construction	13 08 21	Commissioning of Controlled Environment Rooms
13 01 46	Maintenance of Lightning Protection Systems	13 08 23	Commissioning of Planetariums

13 08 30	Commissioning of Special Structures	<b>13 20 00</b>	<b>Special Purpose Rooms</b>
13 08 40	Commissioning of Integrated Construction	<b>13 21 00</b>	<b>Controlled Environment Rooms</b>
13 08 50	Commissioning of Special Instrumentation	13 21 13	Clean Rooms
<b>13 10 00</b>	<b>Special Facility Components</b>	13 21 16	Hyperbaric Rooms
<b>13 11 00</b>	<b>Swimming Pools</b>	13 21 23	Insulated Rooms
13 11 13	Below-Grade Swimming Pools	13 21 26	Cold Storage Rooms
13 11 23	On-Grade Swimming Pools	13 21 26.13	Walk-in Coolers
13 11 33	Elevated Swimming Pools	13 21 26.16	Walk-in Freezers
13 11 43	Recirculating Gutter Systems	13 21 29	Constant Temperature Rooms
13 11 46	Swimming Pool Accessories	13 21 48	Sound-Conditioned Rooms
13 11 49	Swimming Pool Cleaning Equipment	<b>13 22 00</b>	<b>Office Shelters and Booths</b>
13 11 53	Movable Pool Bulkheads	<b>13 23 00</b>	<b>Planetariums</b>
13 11 56	Movable Pool Floors	<b>13 24 00</b>	<b>Special Activity Rooms</b>
<b>13 12 00</b>	<b>Fountains</b>	13 24 16	Saunas
13 12 13	Exterior Fountains	13 24 26	Steam Baths
13 12 23	Interior Fountains	13 24 66	Athletic Rooms
<b>13 13 00</b>	<b>Aquariums</b>	<b>13 26 00</b>	<b>Fabricated Rooms</b>
<b>13 14 00</b>	<b>Amusement Park Structures and Equipment</b>	13 26 13	Storm Shelter Rooms
13 14 13	Water Slides	<b>13 27 00</b>	<b>Vaults</b>
13 14 16	Wave Generating Equipment	13 27 16	Modular Fire Vaults
13 14 23	Amusement Park Rides	13 27 53	Security Vaults
<b>13 15 00</b>	<b>Specialty Element Construction</b>	13 27 53.13	Modular Concrete Security Vaults
<b>13 17 00</b>	<b>Tubs and Pools</b>	13 27 53.16	Modular Metal-Clad Laminated Security Vaults
13 17 13	Hot Tubs	<b>13 28 00</b>	<b>Athletic and Recreational Special Construction</b>
13 17 23	Therapeutic Pools	13 28 13	Indoor Soccer Boards
13 17 33	Whirlpool Tubs	13 28 16	Safety Netting
<b>13 18 00</b>	<b>Ice Rinks</b>	13 28 19	Arena Football Boards
13 18 13	Ice Rink Floor Systems	13 28 26	Floor Sockets
13 18 16	Ice Rink Dasher Boards	13 28 33	Athletic and Recreational Court Walls
<b>13 19 00</b>	<b>Kennels and Animal Shelters</b>	13 28 66	Demountable Athletic Surfaces
13 19 13	Kennel Enclosures and Gates	<b>13 30 00</b>	<b>Special Structures</b>
13 19 16	Kennel Feeding Devices	<b>13 31 00</b>	<b>Fabric Structures</b>
13 19 19	Animal Washing Tubs	13 31 13	Air-Supported Fabric Structures

13 31 13.13	Single-Walled Air-Supported Structures	<b>13 40 00</b>	<b>Integrated Construction</b>
13 31 13.16	Multiple-Walled Air-Supported Structures	<b>13 42 00</b>	<b>Building Modules and Components</b>
13 31 23	Tensioned Fabric Structures	13 42 13	Bathroom Unit Modules
13 31 33	Framed Fabric Structures	13 42 25	Hospitality Unit Modules
<b>13 32 00</b>	<b>Space Frames</b>	13 42 33	Apartment Unit Modules
13 32 13	Metal Space Frames	13 42 43	Dormitory Unit Modules
13 32 23	Wood Space Frames	13 42 46	Education Unit Modules
<b>13 33 00</b>	<b>Geodesic Structures</b>	13 42 63	Detention Cell Modules
13 33 13	Geodesic Domes	13 42 63.13	Precast-Concrete Detention Cell Modules
<b>13 34 00</b>	<b>Fabricated Engineered Structures</b>	13 42 63.16	Steel Detention Cell Modules
13 34 13	Glazed Structures	13 42 73	Integrated Interior Modules
13 34 13.13	Greenhouses	13 42 73.11	Integrated Floor Assemblies
13 34 13.16	Solariums	13 42 73.13	Integrated Wall Assemblies
13 34 13.19	Swimming Pool Enclosures	13 42 73.15	Integrated Ceiling Assemblies
13 34 13.23	Sunrooms	<b>13 44 00</b>	<b>Modular Mezzanines</b>
13 34 13.26	Conservatories	<b>13 46 00</b>	<b>Lightning Protection Systems</b>
13 34 16	Grandstands and Bleachers	13 46 13	Lightning Protection for Structures
13 34 16.13	Grandstands	13 46 16	Lightning Prevention and Dissipation
13 34 16.53	Bleachers	13 46 19	Early Streamer Emission Lightning Protection
13 34 18	Post Frame Building Systems	13 46 23	Lightning Monitoring Equipment
13 34 19	Metal Building Systems	<b>13 47 00</b>	<b>Facility Protection</b>
13 34 23	Fabricated Structures	13 47 13	Cathodic Protection
13 34 23.13	Portable and Mobile Buildings	13 47 13.13	Cathodic Protection for Underground and Submerged Piping
13 34 23.14	Fabricated Classroom Buildings	13 47 13.16	Cathodic Protection for Underground Storage Tanks
13 34 23.16	Fabricated Control Booths	13 47 13.19	Cathodic Protection for Concrete Reinforcing
13 34 23.19	Fabricated Dome Structures	<b>13 48 00</b>	<b>Sound, Vibration, and Seismic Control</b>
13 34 23.23	Fabricated Substation Control Rooms	13 48 13	Manufactured Sound and Vibration Control Components
13 34 23.26	Fabricated Cold Storage Buildings	13 48 23	Fabricated Sound and Vibration Control Assemblies
13 34 56	Observatories	13 48 53	Manufactured Seismic Control Components
<b>13 35 00</b>	<b>Rammed Earth Construction</b>		
13 35 13	Rammed Earth Walls		
13 35 13.13	Traditional Rammed Earth Walls		
13 35 13.23	Stabilized Insulated Rammed Earth Walls		
<b>13 36 00</b>	<b>Towers</b>		
13 36 13	Metal Towers		
13 36 13.13	Steel Towers		
13 36 23	Wood Towers		

13 48 63	Fabricated Seismic Control Assemblies	<b>14 05 00</b>	<b>Common Work Results for Conveying Equipment</b>
<b>13 49 00</b>	<b>Radiation Protection</b>	14 05 05	Selective Demolition for Conveying Equipment
13 49 13	Integrated X-Ray Shielding Assemblies	<b>14 06 00</b>	<b>Schedules for Conveying Equipment</b>
13 49 16	Modular X-Ray Shielding Rooms	14 06 10	Schedules for Dumbwaiters
13 49 23	Integrated RFI/EMI Shielding Assemblies	14 06 20	Schedules for Elevators
13 49 26	Modular RFI/EMI Shielding Rooms	14 06 20.13	Elevator Equipment Schedule
<b>13 50 00</b>	<b>Special Instrumentation</b>	14 06 30	Schedules for Escalators and Moving Walks
<b>13 51 00</b>	<b>Stress Instrumentation</b>	14 06 40	Schedules for Lifts
<b>13 52 00</b>	<b>Seismic Instrumentation</b>	14 06 40.13	Lift Schedule
<b>13 53 00</b>	<b>Meteorological Instrumentation</b>	14 06 70	Schedules for Turntables
13 53 13	Solar Instrumentation	14 06 80	Schedules for Scaffolding
13 53 23	Wind Instrumentation	14 06 90	Schedules for Other Conveying Equipment
<b>14 00 00</b>	<b>Conveying Equipment</b>	<b>14 08 00</b>	<b>Commissioning of Conveying Equipment</b>
<b>14 01 00</b>	<b>Operation and Maintenance of Conveying Equipment</b>	14 08 10	Commissioning of Dumbwaiters
14 01 10	Operation and Maintenance of Dumbwaiters	14 08 20	Commissioning of Elevators
14 01 10.71	Dumbwaiter Rehabilitation	14 08 30	Commissioning of Escalators and Moving Walks
14 01 20	Operation and Maintenance of Elevators	14 08 40	Commissioning of Lifts
14 01 20.71	Elevator Rehabilitation	14 08 70	Commissioning of Turntables
14 01 30	Operation and Maintenance of Escalators and Moving Walks	14 08 80	Commissioning of Scaffolding
14 01 30.71	Escalators and Moving Walks Rehabilitation	<b>14 10 00</b>	<b>Dumbwaiters</b>
14 01 40	Operation and Maintenance of Lifts	<b>14 11 00</b>	<b>Manual Dumbwaiters</b>
14 01 40.71	Lift Rehabilitation	<b>14 12 00</b>	<b>Electric Dumbwaiters</b>
14 01 70	Operation and Maintenance of Turntables	<b>14 14 00</b>	<b>Hydraulic Dumbwaiters</b>
14 01 80	Operation and Maintenance of Scaffolding	<b>14 20 00</b>	<b>Elevators</b>
14 01 90	Operation and Maintenance of Other Conveying Equipment	<b>14 21 00</b>	<b>Electric Traction Elevators</b>
		14 21 13	Electric Traction Freight Elevators
		14 21 23	Electric Traction Passenger Elevators
		14 21 23.13	Machine Room Electric Traction Passenger Elevators
		14 21 23.16	Machine Room-Less Electric Traction Passenger Elevators

14 21 33	Electric Traction Residential Elevators	<b>14 43 00</b>	<b>Platform Lifts</b>
14 21 43	Electric Traction Service Elevators	14 43 13	Orchestra Lifts
<b>14 24 00</b>	<b>Hydraulic Elevators</b>	14 43 16	Stage Lifts
14 24 13	Hydraulic Freight Elevators	<b>14 44 00</b>	<b>Sidewalk Lifts</b>
14 24 23	Hydraulic Passenger Elevators	<b>14 45 00</b>	<b>Vehicle Lifts</b>
14 24 33	Hydraulic Residential Elevators	14 45 13	Vehicle Service Lifts
14 24 43	Hydraulic Service Elevators	14 45 23	Vehicle Parking Lifts
<b>14 25 00</b>	<b>Rack and Pinion Elevators</b>	<b>14 46 00</b>	<b>Material Lifts</b>
<b>14 26 00</b>	<b>Limited-Use/Limited-Application Elevators</b>	<b>14 70 00</b>	<b>Turntables</b>
<b>14 27 00</b>	<b>Custom Elevator Cabs and Doors</b>	<b>14 71 00</b>	<b>Industrial Turntables</b>
14 27 13	Custom Elevator Cab Finishes	14 71 11	Vehicle Turntables
14 27 16	Custom Elevator Doors	<b>14 72 00</b>	<b>Hospitality Turntables</b>
<b>14 28 00</b>	<b>Elevator Equipment and Controls</b>	14 72 25	Restaurant Turntables
14 28 16	Elevator Controls	<b>14 73 00</b>	<b>Exhibit Turntables</b>
14 28 19	Elevator Equipment	14 73 59	Display Turntables
14 28 19.13	Elevator Safety Equipment	<b>14 74 00</b>	<b>Entertainment Turntables</b>
14 28 19.16	Elevator Hoistway Equipment	14 74 61	Stage Turntables
<b>14 30 00</b>	<b>Escalators and Moving Walks</b>	<b>14 80 00</b>	<b>Scaffolding</b>
<b>14 31 00</b>	<b>Escalators</b>	<b>14 81 00</b>	<b>Suspended Scaffolding</b>
<b>14 32 00</b>	<b>Moving Walks</b>	14 81 13	Beam Scaffolding
<b>14 33 00</b>	<b>Moving Ramps</b>	14 81 16	Carriage Scaffolding
14 33 13	Motorized Ramps	14 81 19	Hook Scaffolding
14 33 16	Powered Ramps	<b>14 82 00</b>	<b>Rope Climbers</b>
<b>14 40 00</b>	<b>Lifts</b>	14 82 13	Manual Rope Climbers
<b>14 41 00</b>	<b>People Lifts</b>	14 82 16	Powered Rope Climbers
14 41 13	Counterbalanced People Lifts	<b>14 83 00</b>	<b>Elevating Platforms</b>
14 41 16	Endless-Belt People Lifts	14 83 13	Telescoping Platform Lifts
14 41 19	Stairway Chairlifts	14 83 13.13	Electric and Battery Telescoping Platform Lifts
<b>14 42 00</b>	<b>Wheelchair Lifts</b>	14 83 13.16	Pneumatic Telescoping Platform Lifts
14 42 13	Inclined Wheelchair Lifts	14 83 16	Scissor Lift Platforms
14 42 16	Vertical Wheelchair Lifts	14 83 19	Multi-Axis Platform Lifts
		<b>14 84 00</b>	<b>Powered Scaffolding</b>
		14 84 13	Window Washing Scaffolding
		14 84 23	Window Washing Hoists
		<b>14 90 00</b>	<b>Other Conveying Equipment</b>
		<b>14 91 00</b>	<b>Facility Chutes</b>
		14 91 13	Coal Chutes

14 91 23	Escape Chutes	21 05 48.13	Vibration Controls for Fire-Suppression Piping and Equipment
14 91 33	Laundry and Linen Chutes		
14 91 82	Trash Chutes	21 05 53	Identification for Fire-Suppression Piping and Equipment
<b>14 92 00</b>	<b>Pneumatic Tube Systems</b>		
<b>14 93 00</b>	<b>Slide Pole Systems</b>	<b>21 06 00</b>	<b>Schedules for Fire Suppression</b>
14 93 13	Firehouse Slide Poles	21 06 10	Schedules for Water-Based Fire-Suppression Systems
<b>21 00 00</b>	<b>Fire Suppression</b>	21 06 20	Schedules for Fire-Extinguishing Systems
<b>21 01 00</b>	<b>Operation and Maintenance of Fire Suppression</b>	21 06 30	Schedules for Fire-Suppression Equipment
21 01 10	Operation and Maintenance of Water-Based Fire-Suppression Systems	<b>21 07 00</b>	<b>Fire Suppression Systems Insulation</b>
21 01 20	Operation and Maintenance of Fire-Extinguishing Systems	21 07 16	Fire-Suppression Equipment Insulation
21 01 30	Operation and Maintenance of Fire-Suppression Equipment	21 07 19	Fire-Suppression Piping Insulation
<b>21 05 00</b>	<b>Common Work Results for Fire Suppression</b>	<b>21 08 00</b>	<b>Commissioning of Fire Suppression</b>
21 05 05	Selective Demolition for Fire Suppression	<b>21 09 00</b>	<b>Instrumentation and Control for Fire-Suppression Systems</b>
21 05 13	Common Motor Requirements for Fire-Suppression Equipment	<b>21 10 00</b>	<b>Water-Based Fire-Suppression Systems</b>
21 05 16	Expansion Fittings and Loops for Fire-Suppression Piping	<b>21 11 00</b>	<b>Facility Fire-Suppression Water-Service Piping</b>
21 05 17	Sleeves and Sleeve Seals for Fire-Suppression Piping	21 11 16	Facility Fire Hydrants
21 05 19	Meters and Gauges for Fire-Suppression Systems	21 11 19	Fire-Department Connections
21 05 23	General-Duty Valves for Water-Based Fire-Suppression Piping	<b>21 12 00</b>	<b>Fire-Suppression Standpipes</b>
21 05 29	Hangers and Supports for Fire-Suppression Piping and Equipment	21 12 13	Fire-Suppression Hoses and Nozzles
21 05 33	Heat Tracing for Fire-Suppression Piping	21 12 16	Fire-Suppression Hose Reels
21 05 48	Vibration and Seismic Controls for Fire-Suppression Piping and Equipment	21 12 19	Fire-Suppression Hose Racks
		21 12 23	Fire-Suppression Hose Valves
		<b>21 13 00</b>	<b>Fire-Suppression Sprinkler Systems</b>
		21 13 13	Wet-Pipe Sprinkler Systems
		21 13 16	Dry-Pipe Sprinkler Systems



21 13 19	Preaction Sprinkler Systems	21 31 16	Diesel-Drive, Centrifugal Fire Pumps
21 13 23	Combined Dry-Pipe and Preaction Sprinkler Systems	<b>21 32 00</b>	<b>Vertical-Turbine Fire Pumps</b>
21 13 26	Deluge Fire-Suppression Sprinkler Systems	21 32 13	Electric-Drive, Vertical-Turbine Fire Pumps
21 13 29	Water Spray Fixed Systems	21 32 16	Diesel-Drive, Vertical-Turbine Fire Pumps
21 13 36	Antifreeze Sprinkler Systems	<b>21 33 00</b>	<b>Positive-Displacement Fire Pumps</b>
21 13 39	Foam-Water Systems	21 33 13	Electric-Drive, Positive-Displacement Fire Pumps
<b>21 20 00</b>	<b>Fire-Extinguishing Systems</b>	21 33 16	Diesel-Drive, Positive-Displacement Fire Pumps
<b>21 21 00</b>	<b>Gas-Based Fire-Extinguishing Systems</b>	<b>21 34 00</b>	<b>Fire Pump Accessories</b>
21 21 13	Carbon-Dioxide Fire-Extinguishing Piping	21 34 13	Pressure Maintenance Pumps
21 21 13.13	High-Pressure, Carbon-Dioxide Fire-Extinguishing Systems	<b>21 40 00</b>	<b>Fire-Suppression Water Storage</b>
21 21 13.16	Low-Pressure, Carbon-Dioxide Fire-Extinguishing Systems	<b>21 41 00</b>	<b>Storage Tanks for Fire-Suppression Water</b>
21 21 16	Carbon-Dioxide Fire-Extinguishing Equipment	21 41 13	Pressurized Storage Tanks for Fire-Suppression Water
21 21 23	Nitrogen-Water Fire-Extinguishing Systems	21 41 16	Elevated Storage Tanks for Fire-Suppression Water
<b>21 22 00</b>	<b>Clean-Agent Fire-Extinguishing Systems</b>	21 41 19	Roof-Mounted Storage Tanks for Fire-Suppression Water
21 22 13	Clean-Agent Fire-Extinguishing Piping	21 41 23	Ground Suction Storage Tanks for Fire-Suppression Water
21 22 16	Clean-Agent Fire-Extinguishing Equipment	21 41 26	Underground Storage Tanks for Fire-Suppression Water
<b>21 23 00</b>	<b>Wet-Chemical Fire-Extinguishing Systems</b>	21 41 29	Storage Tanks for Fire-Suppression Water Additives
21 23 13	Wet-Chemical Fire-Extinguishing Piping	<b>22 00 00</b>	<b>Plumbing</b>
21 23 16	Wet-Chemical Fire-Extinguishing Equipment	<b>22 01 00</b>	<b>Operation and Maintenance of Plumbing</b>
<b>21 24 00</b>	<b>Dry-Chemical Fire-Extinguishing Systems</b>	22 01 10	Operation and Maintenance of Plumbing Piping and Pumps
21 24 13	Dry-Chemical Fire-Extinguishing Piping	22 01 10.16	Video Piping Inspections
21 24 16	Dry-Chemical Fire-Extinguishing Equipment	22 01 10.51	Plumbing Piping Cleaning
<b>21 30 00</b>	<b>Fire Pumps</b>	22 01 10.61	Plumbing Piping Repairs
<b>21 31 00</b>	<b>Centrifugal Fire Pumps</b>		
21 31 13	Electric-Drive, Centrifugal Fire Pumps		

22 01 10.62	Plumbing Piping Relining	22 06 15	Schedules for General Service Compressed-Air Equipment
22 01 30	Operation and Maintenance of Plumbing Equipment	22 06 30	Schedules for Plumbing Equipment
22 01 40	Operation and Maintenance of Plumbing Fixtures	22 06 30.13	Domestic Water Heater Schedule
22 01 50	Operation and Maintenance of Pool and Fountain Plumbing Systems	22 06 40	Schedules for Plumbing Fixtures
22 01 60	Operation and Maintenance of Laboratory and Healthcare Systems	22 06 40.13	Plumbing Fixture Schedule
<b>22 05 00</b>	<b>Common Work Results for Plumbing</b>	22 06 50	Schedules for Pool and Fountain Plumbing Systems
22 05 05	Selective Demolition for Plumbing	22 06 60	Schedules for Laboratory and Healthcare Systems
22 05 13	Common Motor Requirements for Plumbing Equipment	<b>22 07 00</b>	<b>Plumbing Insulation</b>
22 05 16	Expansion Fittings and Loops for Plumbing Piping	22 07 16	Plumbing Equipment Insulation
22 05 17	Sleeves and Sleeve Seals for Plumbing Piping	22 07 19	Plumbing Piping Insulation
22 05 19	Meters and Gauges for Plumbing Piping	<b>22 08 00</b>	<b>Commissioning of Plumbing</b>
22 05 23	General-Duty Valves for Plumbing Piping	<b>22 09 00</b>	<b>Instrumentation and Control for Plumbing</b>
22 05 29	Hangers and Supports for Plumbing Piping and Equipment	22 09 63	Medical Gas Alarms
22 05 33	Heat Tracing for Plumbing Piping	<b>22 10 00</b>	<b>Plumbing Piping</b>
22 05 48	Vibration and Seismic Controls for Plumbing Piping and Equipment	<b>22 11 00</b>	<b>Facility Water Distribution</b>
22 05 48.13	Vibration Controls for Plumbing Piping and Equipment	22 11 13	Facility Water Distribution Piping
22 05 53	Identification for Plumbing Piping and Equipment	22 11 16	Domestic Water Piping
22 05 73	Facility Drainage Manholes	22 11 17	Gray-Water Piping
22 05 76	Facility Drainage Piping Cleanouts	22 11 19	Domestic Water Piping Specialties
<b>22 06 00</b>	<b>Schedules for Plumbing</b>	22 11 23	Domestic Water Pumps
22 06 10	Schedules for Plumbing Piping and Pumps	22 11 23.13	Domestic-Water Packaged Booster Pumps
22 06 10.13	Plumbing Pump Schedule	22 11 23.23	Domestic-Water In-Line Pumps
22 06 12	Schedules for Facility Potable Water Storage	22 11 23.26	Close-Coupled, Horizontally Mounted, In-Line Centrifugal Domestic-Water Pumps
		22 11 23.29	Close-Coupled, Vertically Mounted, In-Line Centrifugal Domestic-Water Pumps
		22 11 23.33	Separately Coupled, In-Line Centrifugal Domestic-Water Pumps

22 11 23.36	Separately Coupled, Horizontally Mounted, In-Line Centrifugal Domestic-Water Pumps	22 13 29.13	Wet-Pit-Mounted, Vertical Sewerage Pumps
22 11 23.43	Domestic-Water, Base- Mounted Pumps	22 13 29.16	Submersible Sewerage Pumps
22 11 63	Gray-Water Pumps	22 13 29.23	Sewerage Pump Reverse-Flow Assemblies
<b>22 12 00</b>	<b>Facility Potable-Water Storage Tanks</b>	22 13 29.33	Sewerage Pump Basins and Pits
22 12 13	Facility Roof-Mounted, Potable-Water Storage Tanks	22 13 33	Packaged, Submersible Sewerage Pump Units
22 12 16	Facility Elevated, Potable- Water Storage Tanks	22 13 36	Packaged, Wastewater Pump Units
22 12 19	Facility Ground-Mounted, Potable-Water Storage Tanks	22 13 43	Facility Packaged Sewage Pumping Stations
22 12 21	Facility Underground Potable-Water Storage Tanks	22 13 43.13	Facility Dry-Well Packaged Sewage Pumping Stations
22 12 23	Facility Indoor Potable- Water Storage Tanks	22 13 43.16	Facility Wet-Well Packaged Sewage Pumping Stations
22 12 23.13	Facility Steel, Indoor Potable- Water Storage Pressure Tanks	22 13 63	Facility Gray Water Tanks
22 12 23.16	Facility Steel, Indoor Potable- Water Storage Non-Pressure Tanks	<b>22 14 00</b>	<b>Facility Storm Drainage</b>
22 12 23.23	Facility Plastic, Indoor Potable- Water Storage Pressure Tanks	22 14 13	Facility Storm Drainage Piping
22 12 23.26	Facility Plastic, Indoor Potable- Water Storage Non-Pressure Tanks	22 14 16	Rainwater Leaders
<b>22 13 00</b>	<b>Facility Sanitary Sewerage</b>	22 14 19	Sump Pump Discharge Piping
22 13 13	Facility Sanitary Sewers	22 14 23	Storm Drainage Piping Specialties
22 13 16	Sanitary Waste and Vent Piping	22 14 26	Facility Storm Drains
22 13 19	Sanitary Waste Piping Specialties	22 14 26.13	Roof Drains
22 13 19.13	Sanitary Drains	22 14 26.16	Facility Area Drains
22 13 19.23	Fats, Oils, and Grease Disposal Systems	22 14 26.19	Facility Trench Drains
22 13 19.26	Grease Removal Devices	22 14 29	Sump Pumps
22 13 19.33	Backwater Valves	22 14 29.13	Wet-Pit-Mounted, Vertical Sump Pumps
22 13 19.36	Air-Admittance Valves	22 14 29.16	Submersible Sump Pumps
22 13 23	Sanitary Waste Interceptors	22 14 29.19	Sump-Pump Basins and Pits
22 13 26	Sanitary Waste Separators	22 14 33	Packaged, Pedestal Drainage Pump Units
22 13 29	Sanitary Sewerage Pumps	22 14 36	Packaged, Submersible, Drainage Pump Units
		22 14 53	Rainwater Storage Tanks
		22 14 63	Facility Storm-Water Retention Tanks
		<b>22 15 00</b>	<b>General Service Compressed-Air Systems</b>
		22 15 13	General Service Compressed-Air Piping
		22 15 16	General Service Compressed-Air Valves

22 15 19	General Service Packaged Air Compressors and Receivers	22 33 30.13	Residential, Small-Capacity Electric Domestic Water Heaters
22 15 19.13	General Service Packaged Reciprocating Air Compressors	22 33 30.16	Residential, Storage Electric Domestic Water Heaters
22 15 19.16	General Service Packaged Liquid-Ring Air Compressors	22 33 30.23	Residential, Collector-to-Tank, Solar-Electric Domestic Water Heaters
22 15 19.19	General Service Packaged Rotary-Screw Air Compressors	22 33 30.26	Residential, Collector-to-Tank, Heat-Exchanger-Coil, Solar-Electric Domestic Water Heaters
22 15 19.23	General Service Packaged Sliding-Vane Air Compressors		
<b>22 30 00</b>	<b>Plumbing Equipment</b>		
<b>22 31 00</b>	<b>Domestic Water Softeners</b>		
22 31 13	Residential Domestic Water Softeners	22 33 33	Light-Commercial Electric Domestic Water Heaters
22 31 16	Commercial Domestic Water Softeners	22 33 36	Commercial Domestic Water Electric Booster Heaters
		22 33 36.13	Commercial Domestic Water Electric Booster Heaters
		22 33 36.16	Commercial Storage Electric Domestic Water Heaters
<b>22 32 00</b>	<b>Domestic Water Filtration Equipment</b>	<b>22 34 00</b>	<b>Fuel-Fired Domestic Water Heaters</b>
22 32 13	Domestic-Water Bag-Type Filters	22 34 13	Instantaneous, Tankless, Gas Domestic Water Heaters
22 32 16	Domestic-Water Freestanding Cartridge Filters	22 34 30	Residential Gas Domestic Water Heaters
22 32 19	Domestic-Water Off-Floor Cartridge Filters	22 34 30.13	Residential, Atmospheric, Gas Domestic Water Heaters
22 32 23	Domestic-Water Carbon Filters	22 34 30.16	Residential, Direct-Vent, Gas Domestic Water Heaters
22 32 26	Domestic-Water Sand Filters	22 34 30.19	Residential, Power-Vent, Gas Domestic Water Heaters
22 32 26.13	Domestic-Water Circulating Sand Filters	22 34 36	Commercial Gas Domestic Water Heaters
22 32 26.16	Domestic-Water Multimedia Sand Filters	22 34 36.13	Commercial, Atmospheric, Gas Domestic Water Heaters
22 32 26.19	Domestic-Water Greensand Filters	22 34 36.16	Commercial, Power-Burner, Gas Domestic Water Heaters
<b>22 33 00</b>	<b>Electric Domestic Water Heaters</b>	22 34 36.19	Commercial, Power-Vent, Gas Domestic Water Heaters
22 33 13	Instantaneous Electric Domestic Water Heaters	22 34 36.23	Commercial, High-Efficiency, Gas Domestic Water Heaters
22 33 13.13	Flow-Control, Instantaneous Electric Domestic Water Heaters	22 34 36.26	Commercial, Coil-Type, Finned-Tube, Gas Domestic Water Heaters
22 33 13.16	Thermostat-Control, Instantaneous Electric Domestic Water Heaters	22 34 36.29	Commercial, Grid-Type, Finned-Tube, Gas Domestic Water Heaters
22 33 30	Residential, Electric Domestic Water Heaters	22 34 46	Oil-Fired Domestic Water Heaters

22 34 46.13	Large-Capacity, Oil-Fired Domestic Water Heaters	22 41 13.16	Residential Urinals
22 34 56	Dual-Fuel-Fired Domestic Water Heaters	22 41 13.19	Residential Bidets
<b>22 35 00</b>	<b>Domestic Water Heat Exchangers</b>	22 41 16	Residential Lavatories and Sinks
22 35 13	Instantaneous Domestic Water Heat Exchangers	22 41 16.13	Residential Lavatories
22 35 13.13	Heating-Fluid-in-Coil, Instantaneous Domestic Water Heat Exchangers	22 41 16.16	Residential Sinks
22 35 13.16	Domestic-Water-in-Coil, Instantaneous Domestic Water Heat Exchangers	22 41 19	Residential Bathtubs
22 35 13.19	Heating-Fluid-in-U-Tube-Coil, Instantaneous Domestic Water Heat Exchangers	22 41 23	Residential Showers
22 35 23	Circulating, Domestic Water Heat Exchangers	22 41 26	Residential Disposers
22 35 23.13	Circulating, Compact Domestic Water Heat Exchangers	22 41 36	Residential Laundry Trays
22 35 23.16	Circulating, Storage Domestic Water Heat Exchangers	22 41 39	Residential Faucets, Supplies, and Trim
22 35 29	Noncirculating, Domestic Water Heat Exchangers	<b>22 42 00</b>	<b>Commercial Plumbing Fixtures</b>
22 35 29.13	Noncirculating, Compact Domestic Water Heat Exchangers	22 42 13	Commercial Water Closets, Urinals, and Bidets
22 35 29.16	Noncirculating, Storage Domestic Water Heat Exchangers	22 42 13.13	Commercial Water Closets
22 35 36	Domestic Water Brazed-Plate Heat Exchangers	22 42 13.16	Commercial Urinals
22 35 39	Domestic Water Frame-and-Plate Heat Exchangers	22 42 16	Commercial Lavatories and Sinks
22 35 43	Domestic Water Heat Reclaimers	22 42 16.13	Commercial Lavatories
<b>22 36 00</b>	<b>Domestic Water Preheaters</b>	22 42 16.16	Commercial Sinks
22 36 13	Solar Domestic Water Preheaters	22 42 19	Commercial Bathtubs
22 36 23	Geothermal Domestic Water Preheaters	22 42 23	Commercial Showers
<b>22 40 00</b>	<b>Plumbing Fixtures</b>	22 42 26	Commercial Disposers
<b>22 41 00</b>	<b>Residential Plumbing Fixtures</b>	22 42 29	Shampoo Bowls
22 41 13	Residential Water Closets, Urinals, and Bidets	22 42 33	Wash Fountains
22 41 13.13	Residential Water Closets	22 42 36	Commercial Laundry Trays
		22 42 39	Commercial Faucets
		22 42 43	Flushometers
		<b>22 43 00</b>	<b>Healthcare Plumbing Fixtures</b>
		22 43 13	Healthcare Water Closets
		22 43 16	Healthcare Sinks
		22 43 19	Healthcare Bathtubs
		22 43 23	Healthcare Showers
		22 43 39	Healthcare Faucets
		22 43 43	Healthcare Plumbing Fixture Flushometers
		<b>22 45 00</b>	<b>Emergency Plumbing Fixtures</b>
		22 45 13	Emergency Showers
		22 45 16	Eyewash Equipment
		22 45 19	Self-Contained Eyewash Equipment

22 45 23	Personal Eyewash Equipment	22 52 16	Fountain Pumps
22 45 26	Eye/Face Wash Equipment	22 52 19	Fountain Water Treatment Equipment
22 45 29	Hand-Held Emergency Drench Hoses	22 52 19.13	Electronic Fountain Water Conditioning Equipment
22 45 33	Combination Emergency Fixture Units	22 52 23	Fountain Equipment Controls
22 45 36	Emergency Fixture Water-Tempering Equipment	<b>22 60 00</b>	<b>Gas and Vacuum Systems for Laboratory and Healthcare Facilities</b>
<b>22 46 00</b>	<b>Security Plumbing Fixtures</b>	<b>22 61 00</b>	<b>Compressed-Air Systems for Laboratory and Healthcare Facilities</b>
22 46 13	Security Water Closets and Urinals	22 61 13	Compressed-Air Piping for Laboratory and Healthcare Facilities
22 46 13.13	Security Water Closets	22 61 13.53	Laboratory Compressed-Air Piping
22 46 13.16	Security Urinals	22 61 13.70	Healthcare Compressed-Air Piping
22 46 16	Security Lavatories and Sinks	22 61 13.74	Dental Compressed-Air Piping
22 46 16.13	Security Lavatories	22 61 19	Compressed-Air Equipment for Laboratory and Healthcare Facilities
22 46 16.16	Security Sinks	22 61 19.53	Laboratory Compressed-Air Equipment
22 46 19	Security Showers	22 61 19.70	Healthcare Compressed-Air Equipment
22 46 39	Security Faucets, Supplies, and Trim	22 61 19.74	Dental Compressed-Air Equipment
22 46 43	Security Plumbing Fixture Flushometers	<b>22 62 00</b>	<b>Vacuum Systems for Laboratory and Healthcare Facilities</b>
22 46 53	Security Plumbing Fixture Supports	22 62 13	Vacuum Piping for Laboratory and Healthcare Facilities
<b>22 47 00</b>	<b>Drinking Fountains and Water Coolers</b>	22 62 13.53	Laboratory Vacuum Piping
22 47 13	Drinking Fountains	22 62 13.70	Healthcare, Surgical Vacuum Piping
22 47 16	Pressure Water Coolers	22 62 13.74	Dental Vacuum Piping
22 47 19	Water-Station Water Coolers	22 62 19	Vacuum Equipment for Laboratory and Healthcare Facilities
22 47 23	Remote Water Coolers	22 62 19.53	Laboratory Vacuum Equipment
<b>22 50 00</b>	<b>Pool and Fountain Plumbing Systems</b>	22 62 19.70	Healthcare Vacuum Equipment
<b>22 51 00</b>	<b>Swimming Pool Plumbing Systems</b>	22 62 19.74	Dental Vacuum and Evacuation Equipment
22 51 13	Swimming Pool Piping		
22 51 16	Swimming Pool Pumps		
22 51 19	Swimming Pool Water Treatment Equipment		
22 51 23	Swimming Pool Equipment Controls		
<b>22 52 00</b>	<b>Fountain Plumbing Systems</b>		
22 52 13	Fountain Piping		

22 62 23	Waste Anesthesia-Gas Piping	<b>23 00 00 Heating, Ventilating, and Air Conditioning (HVAC)</b>
<b>22 63 00</b>	<b>Gas Systems for Laboratory and Healthcare Facilities</b>	<b>23 01 00 Operation and Maintenance of HVAC Systems</b>
22 63 13	Gas Piping for Laboratory and Healthcare Facilities	23 01 10 Operation and Maintenance of Facility Fuel Systems
22 63 13.53	Laboratory Gas Piping	23 01 20 Operation and Maintenance of HVAC Piping and Pumps
22 63 13.70	Healthcare Gas Piping	23 01 30 Operation and Maintenance of HVAC Air Distribution
22 63 19	Gas Storage Tanks for Laboratory and Healthcare Facilities	23 01 30.51 HVAC Air-Distribution System Cleaning
22 63 19.53	Laboratory Gas Storage Tanks	23 01 50 Operation and Maintenance of Central Heating Equipment
22 63 19.70	Healthcare Gas Storage Tanks	23 01 60 Operation and Maintenance of Central Cooling Equipment
<b>22 66 00</b>	<b>Chemical-Waste Systems for Laboratory and Healthcare Facilities</b>	23 01 60.71 Refrigerant Recovery/Recycling
22 66 53	Laboratory Chemical-Waste and Vent Piping	23 01 70 Operation and Maintenance of Central HVAC Equipment
22 66 70	Healthcare Chemical-Waste and Vent Piping	23 01 80 Operation and Maintenance of Decentralized HVAC Equipment
22 66 83	Chemical-Waste Tanks	23 01 90 Diagnostic Systems for HVAC
22 66 83.13	Chemical-Waste Dilution Tanks	<b>23 05 00 Common Work Results for HVAC</b>
22 66 83.16	Chemical-Waste Neutralization Tanks	23 05 05 Selective Demolition for Heating, Ventilating, and Air Conditioning (HVAC)
<b>22 67 00</b>	<b>Processed Water Systems for Laboratory and Healthcare Facilities</b>	23 05 13 Common Motor Requirements for HVAC Equipment
22 67 13	Processed Water Piping for Laboratory and Healthcare Facilities	23 05 16 Expansion Fittings and Loops for HVAC Piping
22 67 13.13	Distilled-Water Piping	23 05 17 Sleeves and Sleeve Seals for HVAC Piping
22 67 13.16	Reverse-Osmosis Water Piping	23 05 19 Meters and Gauges for HVAC Piping
22 67 13.19	Deionized-Water Piping	23 05 23 General-Duty Valves for HVAC Piping
22 67 19	Processed Water Equipment for Laboratory and Healthcare Facilities	
22 67 19.13	Distilled-Water Equipment	
22 67 19.16	Reverse-Osmosis Water Equipment	
22 67 19.19	Deionized-Water Equipment	

23 05 29	Hangers and Supports for HVAC Piping and Equipment	23 06 80.16	Convection Heating and Cooling Unit Schedule
23 05 33	Heat Tracing for HVAC Piping	23 06 80.19	Radiant Heating and Cooling Unit Schedule
23 05 48	Vibration and Seismic Controls for HVAC	<b>23 07 00</b>	<b>HVAC Insulation</b>
23 05 48.13	Vibration Controls for HVAC	23 07 13	Duct Insulation
23 05 53	Identification for HVAC Piping and Equipment	23 07 16	HVAC Equipment Insulation
23 05 63	Anti-Microbial Coatings for HVAC Ducts and Equipment	23 07 19	HVAC Piping Insulation
23 05 66	Anti-Microbial Ultraviolet Emitters for HVAC Ducts and Equipment	<b>23 08 00</b>	<b>Commissioning of HVAC</b>
23 05 93	Testing, Adjusting, and Balancing for HVAC	<b>23 09 00</b>	<b>Instrumentation and Control for HVAC</b>
<b>23 06 00</b>	<b>Schedules for HVAC</b>	23 09 13	Instrumentation and Control Devices for HVAC
23 06 10	Schedules for Facility Fuel Service Systems	23 09 13.13	Actuators and Operators
23 06 20	Schedules for HVAC Piping and Pumps	23 09 13.23	Sensors and Transmitters
23 06 20.13	Hydronic Pump Schedule	23 09 13.33	Control Valves
23 06 30	Schedules for HVAC Air Distribution	23 09 13.43	Control Dampers
23 06 30.13	HVAC Fan Schedule	23 09 23	Direct-Digital Control System for HVAC
23 06 30.16	Air Terminal Unit Schedule	23 09 23.11	Control Valves
23 06 30.19	Air Outlet and Inlet Schedule	23 09 23.12	Control Dampers
23 06 30.23	HVAC Air Cleaning Device Schedule	23 09 23.13	Energy Meters
23 06 50	Schedules for Central Heating Equipment	23 09 23.14	Flow Instruments
23 06 50.13	Heating Boiler Schedule	23 09 23.16	Gas Instruments
23 06 60	Schedules for Central Cooling Equipment	23 09 23.17	Level Instruments
23 06 60.13	Refrigerant Condenser Schedule	23 09 23.18	Leak Detection Instruments
23 06 60.16	Packaged Water Chiller Schedule	23 09 23.19	Moisture Instruments
23 06 70	Schedules for Central HVAC Equipment	23 09 23.21	Motion Instruments
23 06 70.13	Indoor, Central-Station Air-Handling Unit Schedule	23 09 23.22	Position Instruments
23 06 70.16	Packaged Outdoor HVAC Equipment Schedule	23 09 23.23	Pressure Instruments
23 06 80	Schedules for Decentralized HVAC Equipment	23 09 23.24	Speed Instruments
23 06 80.13	Decentralized Unitary HVAC Equipment Schedule	23 09 23.27	Temperature Instruments
		23 09 23.33	Vibration Instruments
		23 09 23.43	Weather Stations
		23 09 33	Electric and Electronic Control System for HVAC
		23 09 43	Pneumatic Control System for HVAC
		23 09 53	Pneumatic and Electric Control System for HVAC
		23 09 93	Sequence of Operations for HVAC Controls
		23 09 93.11	Sequence of Operation for HVAC DDC
		<b>23 10 00</b>	<b>Facility Fuel Systems</b>
		<b>23 11 00</b>	<b>Facility Fuel Piping</b>
		23 11 13	Facility Fuel-Oil Piping



23 11 16	Facility Gasoline Piping	23 21 13.33	Ground-Loop Heat-Pump Piping
23 11 23	Facility Natural-Gas Piping	23 21 16	Hydronic Piping Specialties
23 11 26	Facility Liquefied-Petroleum Gas Piping	23 21 23	Hydronic Pumps
<b>23 12 00</b>	<b>Facility Fuel Pumps</b>	23 21 23.13	In-Line Centrifugal Hydronic Pumps
23 12 13	Facility Fuel-Oil Pumps	23 21 23.16	Base-Mounted, Centrifugal Hydronic Pumps
23 12 16	Facility Gasoline Dispensing Pumps	23 21 23.19	Vertical-Mounted, Double-Suction Centrifugal Hydronic Pumps
23 12 26	Facility Liquefied-Petroleum Gas Pumps	23 21 23.23	Vertical-Turbine Hydronic Pumps
<b>23 13 00</b>	<b>Facility Fuel-Storage Tanks</b>	23 21 29	Automatic Condensate Pump Units
23 13 13	Facility Underground Fuel-Oil, Storage Tanks	<b>23 22 00</b>	<b>Steam and Condensate Piping and Pumps</b>
23 13 13.13	Double-Wall Steel, Underground Fuel-Oil, Storage Tanks	23 22 13	Steam and Condensate Piping
23 13 13.16	Composite, Steel, Underground Fuel-Oil, Storage Tanks	23 22 13.13	Underground Steam and Condensate Piping
23 13 13.19	Jacketed, Steel, Underground Fuel-Oil, Storage Tanks	23 22 13.23	Aboveground Steam and Condensate Piping
23 13 13.23	Glass-Fiber-Reinforced-Plastic, Underground Fuel-Oil, Storage Tanks	23 22 16	Steam and Condensate Piping Specialties
23 13 13.33	Fuel-Oil Storage Tank Pumps	23 22 23	Steam Condensate Pumps
23 13 23	Facility Aboveground Fuel-Oil, Storage Tanks	23 22 23.13	Electric-Driven Steam Condensate Pumps
23 13 23.13	Vertical, Steel, Aboveground Fuel-Oil, Storage Tanks	23 22 23.23	Pressure-Powered Steam Condensate Pumps
23 13 23.16	Horizontal, Steel, Aboveground Fuel-Oil, Storage Tanks	<b>23 23 00</b>	<b>Refrigerant Piping</b>
23 13 23.19	Containment-Dike, Steel, Aboveground Fuel-Oil, Storage Tanks	23 23 13	Refrigerant Piping Valves
23 13 23.23	Insulated, Steel, Aboveground Fuel-Oil, Storage Tanks	23 23 16	Refrigerant Piping Specialties
23 13 23.26	Concrete-Vaulted, Steel, Aboveground Fuel-Oil, Storage Tanks	23 23 19	Refrigerant Safety Relief Valve Discharge Piping
23 13 26	Facility Aboveground Liquefied-Petroleum Gas Storage Tanks	23 23 23	Refrigerants
<b>23 20 00</b>	<b>HVAC Piping and Pumps</b>	<b>23 24 00</b>	<b>Internal-Combustion Engine Piping</b>
<b>23 21 00</b>	<b>Hydronic Piping and Pumps</b>	23 24 13	Internal-Combustion Engine Remote-Radiator Coolant Piping
23 21 13	Hydronic Piping	23 24 16	Internal-Combustion Engine Exhaust Piping
23 21 13.13	Underground Hydronic Piping	<b>23 25 00</b>	<b>HVAC Water Treatment</b>
23 21 13.23	Aboveground Hydronic Piping	23 25 13	Water Treatment for Closed-Loop Hydronic Systems

23 25 16	Water Treatment for Open Hydronic Systems	23 33 23	Turning Vanes
23 25 19	Water Treatment for Steam System Feedwater	23 33 33	Duct-Mounting Access Doors
23 25 23	Water Treatment for Humidification Steam System Feedwater	23 33 38	Duct Security Bars
23 25 26	Electronic Water Conditioning for HVAC Systems	23 33 43	Flexible Connectors
23 25 33	HVAC Makeup-Water Filtration Equipment	23 33 46	Flexible Ducts
<b>23 30 00</b>	<b>HVAC Air Distribution</b>	23 33 53	Duct Liners
<b>23 31 00</b>	<b>HVAC Ducts and Casings</b>	<b>23 34 00</b>	<b>HVAC Fans</b>
23 31 13	Metal Ducts	23 34 13	Axial HVAC Fans
23 31 13.13	Rectangular Metal Ducts	23 34 16	Centrifugal HVAC Fans
23 31 13.16	Round and Flat-Oval Spiral Ducts	23 34 23	HVAC Power Ventilators
23 31 13.19	Metal Duct Fittings	23 34 33	Air Curtains
23 31 16	Nonmetal Ducts	23 34 39	High-Volume, Low-Speed Propeller Fans
23 31 16.13	Fibrous-Glass Ducts	<b>23 35 00</b>	<b>Special Exhaust Systems</b>
23 31 16.16	Thermoset Fiberglass-Reinforced Plastic Ducts	23 35 13	Dust Collection Systems
23 31 16.19	PVC Ducts	23 35 13.13	Sawdust Collection Systems
23 31 16.26	Concrete Ducts	23 35 16	Engine Exhaust Systems
23 31 19	HVAC Casings	23 35 16.13	Positive-Pressure Engine Exhaust Systems
<b>23 32 00</b>	<b>Air Plenums and Chases</b>	23 35 16.16	Mechanical Engine Exhaust Systems
23 32 13	Fabricated, Metal Air Plenums	23 35 33	Listed Kitchen Ventilation Exhaust System
23 32 33	Air-Distribution Ceiling Plenums	<b>23 36 00</b>	<b>Air Terminal Units</b>
23 32 36	Air-Distribution Floor Plenums	23 36 13	Constant-Air-Volume Units
23 32 39	Air-Distribution Wall Plenums	23 36 16	Variable-Air-Volume Units
23 32 43	Air-Distribution Chases Formed by General Construction	<b>23 37 00</b>	<b>Air Outlets and Inlets</b>
23 32 48	Acoustical Air Plenums	23 37 13	Diffusers, Registers, and Grilles
<b>23 33 00</b>	<b>Air Duct Accessories</b>	23 37 13.43	Security Registers and Grilles
23 33 13	Dampers	23 37 16	Fabric Air Distribution Devices
23 33 13.13	Volume-Control Dampers	23 37 23	HVAC Gravity Ventilators
23 33 13.16	Fire Dampers	23 37 23.13	HVAC Gravity Dome Ventilators
23 33 13.19	Smoke-Control Dampers	23 37 23.16	HVAC Gravity Louvered-Penthouse Ventilators
23 33 13.23	Backdraft Dampers	23 37 23.19	HVAC Gravity Upblast Ventilators
23 33 19	Duct Silencers	<b>23 38 00</b>	<b>Ventilation Hoods</b>
		23 38 13	Commercial-Kitchen Hoods
		23 38 13.13	Listed Commercial-Kitchen Hoods
		23 38 13.16	Standard Commercial-Kitchen Hoods
		23 38 16	Fume Hoods

<b>23 40 00</b>	<b>HVAC Air Cleaning Devices</b>	23 51 43.16	Particulate Filtration
<b>23 41 00</b>	<b>Particulate Air Filtration</b>	<b>23 52 00</b>	<b>Heating Boilers</b>
23 41 13	Panel Air Filters	23 52 13	Electric Boilers
23 41 16	Renewable-Media Air Filters	23 52 16	Condensing Boilers
23 41 19	Washable Air Filters	23 52 16.13	Stainless-Steel Condensing Boilers
23 41 23	Extended Surface Filters	23 52 16.16	Aluminum Condensing Boilers
23 41 33	High-Efficiency Particulate Filtration	23 52 17	Low Mass Boilers
23 41 43	Ultra-Low Penetration Filtration	23 52 19	Pulse Combustion Boilers
23 41 46	Super Ultra-Low Penetration Filtration	23 52 23	Cast-Iron Boilers
<b>23 42 00</b>	<b>Gas-Phase Air Filtration</b>	23 52 33	Water-Tube Boilers
23 42 13	Activated-Carbon Air Filtration	23 52 33.13	Finned Water-Tube Boilers
23 42 16	Chemically-Impregnated Adsorption Air Filtration	23 52 33.14	Flexible Water-Tube Boilers
23 42 19	Catalytic-Adsorption Air Filtration	23 52 33.16	Steel Water-Tube Boilers
<b>23 43 00</b>	<b>Electronic Air Cleaners</b>	23 52 33.19	Copper Water-Tube Boilers
23 43 13	Washable Electronic Air Cleaners	23 52 39	Fire-Tube Boilers
23 43 16	Agglomerator Electronic Air Cleaners	23 52 39.13	Scotch Marine Boilers
23 43 23	Self-Contained Electronic Air Cleaners	23 52 39.16	Steel Fire-Tube Boilers
<b>23 50 00</b>	<b>Central Heating Equipment</b>	23 52 83	Boiler Blowdown Systems
<b>23 51 00</b>	<b>Breechings, Chimneys, and Stacks</b>	<b>23 53 00</b>	<b>Heating Boiler Feedwater Equipment</b>
23 51 13	Draft Control Devices	23 53 13	Boiler Feedwater Pumps
23 51 13.11	Draft Control Fans	23 53 16	Deaerators
23 51 13.13	Draft-Induction Fans	<b>23 54 00</b>	<b>Furnaces</b>
23 51 13.16	Vent Dampers	23 54 13	Electric-Resistance Furnaces
23 51 13.19	Barometric Dampers	23 54 16	Fuel-Fired Furnaces
23 51 16	Fabricated Breechings and Accessories	23 54 16.13	Gas-Fired Furnaces
23 51 19	Fabricated Stacks	23 54 16.16	Oil-Fired Furnaces
23 51 23	Gas Vents	<b>23 55 00</b>	<b>Fuel-Fired Heaters</b>
23 51 33	Insulated Sectional Chimneys	23 55 13	Fuel-Fired Duct Heaters
23 51 43	Flue-Gas Filtration Equipment	23 55 13.13	Oil-Fired Duct Heaters
23 51 43.13	Gaseous Filtration	23 55 13.16	Gas-Fired Duct Heaters
		23 55 23	Gas-Fired Radiant Heaters
		23 55 23.13	Low-Intensity Gas-Fired Radiant Heaters
		23 55 23.16	High-Intensity Gas-Fired Radiant Heaters
		23 55 33	Fuel-Fired Unit Heaters
		23 55 33.13	Oil-Fired Unit Heaters
		23 55 33.16	Gas-Fired Unit Heaters
		<b>23 56 00</b>	<b>Solar Energy Heating Equipment</b>
		23 56 13	Heating Solar Collectors
		23 56 13.13	Heating Solar Flat-Plate Collectors
		23 56 13.16	Heating Solar Concentrating Collectors

23 56 13.19	Heating Solar Vacuum-Tube Collectors	23 63 23	Water-Cooled Refrigerant Condensers
23 56 16	Packaged Solar Heating Equipment	23 63 33	Evaporative Refrigerant Condensers
23 56 23	Solar Air-Heating Panels	<b>23 64 00</b>	<b>Packaged Water Chillers</b>
<b>23 57 00</b>	<b>Heat Exchangers for HVAC</b>	23 64 13	Absorption Water Chillers
23 57 13	Steam-to-Steam Heat Exchangers	23 64 13.13	Direct-Fired Absorption Water Chillers
23 57 16	Steam-to-Water Heat Exchangers	23 64 13.16	Indirect-Fired Absorption Water Chillers
23 57 19	Liquid-to-Liquid Heat Exchangers	23 64 16	Centrifugal Water Chillers
23 57 19.13	Plate-Type, Liquid-to-Liquid Heat Exchangers	23 64 16.13	Air-Cooled Centrifugal Water Chillers
23 57 19.16	Shell-Type, Liquid-to-Liquid Heat Exchangers	23 64 16.16	Water-Cooled Centrifugal Water Chillers
23 57 33	Direct Georexchange Heat Exchangers	23 64 19	Reciprocating Water Chillers
<b>23 60 00</b>	<b>Central Cooling Equipment</b>	23 64 23	Scroll Water Chillers
<b>23 61 00</b>	<b>Refrigerant Compressors</b>	23 64 23.13	Air-Cooled Scroll Water Chillers
23 61 13	Centrifugal Refrigerant Compressors	23 64 23.16	Water-Cooled Scroll Water Chillers
23 61 13.13	Non-Condensable Gas Purge Equipment	23 64 26	Rotary-Screw Water Chillers
23 61 16	Reciprocating Refrigerant Compressors	23 64 26.13	Air-Cooled, Rotary-Screw Water Chillers
23 61 19	Scroll Refrigerant Compressors	23 64 26.16	Water-Cooled, Rotary-Screw Water Chillers
23 61 23	Rotary-Screw Refrigerant Compressors	23 64 33	Modular Water Chillers
<b>23 62 00</b>	<b>Packaged Compressor and Condenser Units</b>	23 64 33.13	Air-Cooled, Modular Water Chillers
23 62 13	Packaged Air-Cooled Refrigerant Compressor and Condenser Units	23 64 33.16	Water-Cooled, Modular Water Chillers
23 62 23	Packaged Water-Cooled Refrigerant Compressor and Condenser Units	<b>23 65 00</b>	<b>Cooling Towers</b>
23 62 46	Packaged Variable-Refrigerant-Flow Air-Conditioning Systems	23 65 13	Forced-Draft Cooling Towers
<b>23 63 00</b>	<b>Refrigerant Condensers</b>	23 65 13.13	Open-Circuit, Forced-Draft Cooling Towers
23 63 13	Air-Cooled Refrigerant Condensers	23 65 13.16	Closed-Circuit, Forced-Draft Cooling Towers
		23 65 14	Induced-Draft Cooling Towers
		23 65 14.13	Open-Circuit, Induced-Draft Counterflow Cooling Towers
		23 65 14.14	Open-Circuit, Induced-Draft Crossflow Cooling Towers
		23 65 14.16	Closed-Circuit, Induced-Draft Counterflow Cooling Towers
		23 65 14.17	Closed-Circuit, Induced-Draft Combined-Flow Cooling Towers
		23 65 16	Natural-Draft Cooling Towers
		23 65 23	Field-Erected Cooling Towers

23 65 33	Liquid Coolers	23 73 39	Indoor, Direct Gas-Fired Heating and Ventilating Units
<b>23 70 00</b>	<b>Central HVAC Equipment</b>	<b>23 74 00</b>	<b>Packaged Outdoor HVAC Equipment</b>
<b>23 71 00</b>	<b>Thermal Storage</b>	23 74 13	Packaged, Outdoor, Central-Station Air-Handling Units
23 71 13	Thermal Heat Storage	23 74 16	Packaged Rooftop Air-Conditioning Units
23 71 13.13	Room Storage Heaters for Thermal Storage	23 74 16.11	Packaged, Small-Capacity, Rooftop Air-Conditioning Units
23 71 13.16	Heat-Pump Boosters for Thermal Storage	23 74 16.12	Packaged, Intermediate-Capacity, Rooftop Air-Conditioning Units
23 71 13.19	Central Furnace Heat-Storage Units	23 74 16.13	Packaged, Large-Capacity, Rooftop Air-Conditioning Units
23 71 13.23	Pressurized-Water Thermal Storage Tanks	23 74 23	Packaged, Outdoor, Heating-Only Makeup-Air Units
23 71 16	Chilled-Water Thermal Storage	23 74 23.13	Packaged, Direct-Fired, Outdoor, Heating-Only Makeup-Air Units
23 71 19	Ice Storage	23 74 23.16	Packaged, Indirect-Fired, Outdoor, Heating-Only Makeup-Air Units
23 71 19.13	Internal Ice-on-Coil Thermal Storage	23 74 33	Dedicated Outdoor-Air Units
23 71 19.16	External Ice-on-Coil Thermal Storage	<b>23 75 00</b>	<b>Custom-Packaged Outdoor HVAC Equipment</b>
23 71 19.19	Encapsulated-Ice Thermal Storage	23 75 13	Custom-Packaged, Outdoor, Central-Station Air-Handling Units
23 71 19.23	Ice-Harvesting Thermal Storage	23 75 16	Custom-Packaged, Rooftop Air-Conditioning Units
23 71 19.26	Ice-Slurry Thermal Storage	23 75 23	Custom-Packaged, Outdoor, Heating and Ventilating Makeup-Air Units
<b>23 72 00</b>	<b>Air-to-Air Energy Recovery Equipment</b>	23 75 33	Custom-Packaged, Outdoor, Heating and Cooling Makeup Air-Conditioners
23 72 13	Heat-Wheel Air-to-Air Energy-Recovery Equipment	<b>23 76 00</b>	<b>Evaporative Air-Cooling Equipment</b>
23 72 16	Heat-Pipe Air-to-Air Energy-Recovery Equipment	23 76 13	Direct Evaporative Air Coolers
23 72 19	Fixed-Plate Air-to-Air Energy-Recovery Equipment	23 76 16	Indirect Evaporative Air Coolers
23 72 23	Packaged Air-to-Air Energy-Recovery Units	23 76 19	Combined Direct and Indirect Evaporative Air Coolers
<b>23 73 00</b>	<b>Indoor Central-Station Air-Handling Units</b>		
23 73 13	Modular Indoor Central-Station Air-Handling Units		
23 73 23	Custom Indoor Central-Station Air-Handling Units		
23 73 33	Indoor Indirect Fuel-Fired Heating and Ventilating Units		
23 73 33.13	Indoor Indirect Oil-Fired Heating and Ventilating Units		
23 73 33.16	Indoor Indirect Gas-Fired Heating and Ventilating Units		

<b>23 80 00</b>	<b>Decentralized HVAC Equipment</b>	23 81 46	Water-Source Unitary Heat Pumps
<b>23 81 00</b>	<b>Decentralized Unitary HVAC Equipment</b>	23 81 49	Ground-Source Unitary Heat Pumps
23 81 13	Packaged Terminal Air-Conditioners	<b>23 82 00</b>	<b>Convection Heating and Cooling Units</b>
23 81 13.11	Packaged Terminal Air-Conditioners, Through-Wall Units	23 82 13	Valance Heating and Cooling Units
23 81 13.12	Packaged Terminal Air-Conditioners, Freestanding Units	23 82 14	Chilled Beams
23 81 13.13	Packaged Terminal Air-Conditioners, Outdoor, Wall-Mounted Units	23 82 16	Air Coils
23 81 16	Room Air-Conditioners	23 82 16.11	Hydronic Air Coils
23 81 19	Self-Contained Air-Conditioners	23 82 16.12	Steam Air Coils
23 81 19.13	Small-Capacity Self-Contained Air-Conditioners	23 82 16.13	Refrigerant Air Coils
23 81 19.16	Large-Capacity Self-Contained Air-Conditioners	23 82 16.14	Electric-Resistance Air Coils
23 81 23	Computer-Room Air-Conditioners	23 82 19	Fan Coil Units
23 81 23.11	Small-Capacity, Computer-Room Air-Conditioners, Floor Mounted Units	23 82 23	Unit Ventilators
23 81 23.12	Large-Capacity, Computer-Room Air-Conditioners, Floor-Mounted Units	23 82 26	Induction Units
23 81 23.13	Computer-Room Air-Conditioners, Ceiling Mounted Units	23 82 29	Radiators
23 81 23.14	Computer-Room Air-Conditioners, Console Units	23 82 33	Convectors
23 81 23.16	Computer-Room Air-Conditioners, Rack Mounted, Space-Cooling Units	23 82 36	Finned-Tube Radiation Heaters
23 81 23.18	Computer-Room, Rack-Cooling Equipment	23 82 39	Unit Heaters
23 81 26	Split-System Air-Conditioners	23 82 39.13	Cabinet Unit Heaters
23 81 26.13	Small-Capacity Split-System Air-Conditioners	23 82 39.16	Propeller Unit Heaters
23 81 26.16	Large-Capacity Split-System Air-Conditioners	23 82 39.19	Wall and Ceiling Unit Heaters
23 81 29	Variable Refrigerant Flow HVAC Systems	23 82 41	Water-to-Water Heat Pumps
23 81 43	Air-Source Unitary Heat Pumps	<b>23 83 00</b>	<b>Radiant Heating and Cooling Units</b>
		23 83 13	Radiant-Heating Electric Cables
		23 83 13.16	Radiant-Heating Electric Mats
		23 83 16	Radiant Heating and Cooling Hydronic Piping
		23 83 23	Radiant-Heating Electric Panels
		23 83 26	Radiant Heating and Cooling Hydronic Panels
		23 83 33	Electric Radiant Heaters
		<b>23 84 00</b>	<b>Humidity Control Equipment</b>
		23 84 13	Humidifiers
		23 84 13.13	Heated-Pan Humidifiers
		23 84 13.16	Wetted-Element Humidifiers
		23 84 13.19	Atomizing Humidifiers
		23 84 13.23	Direct-Steam-Injection Humidifiers
		23 84 13.26	Jacketed, Steam Humidifiers

23 84 13.29	Self-Contained Steam Humidifiers	25 05 28.39	Surface Raceways for Integrated Automation
23 84 13.33	Portable Humidifiers	25 05 48	Vibration and Seismic Controls for Integrated Automation
23 84 16	Mechanical Dehumidification Units	25 05 53	Identification for Integrated Automation
23 84 16.13	Outdoor, Mechanical Dehumidification Units	<b>25 06 00</b>	<b>Schedules for Integrated Automation</b>
23 84 16.16	Indoor, Mechanical Dehumidification Units	25 06 11	Schedules for Integrated Automation Network
23 84 16.33	Portable Dehumidifiers	25 06 12	Schedules for Integrated Automation Network Gateways
23 84 19	Desiccant Dehumidification Units	25 06 13	Schedules for Integrated Automation Control and Monitoring Network
<b>25 00 00</b>	<b>Integrated Automation</b>	25 06 14	Schedules for Integrated Automation Local Control Units
<b>25 01 00</b>	<b>Operation and Maintenance of Integrated Automation</b>	25 06 30	Schedules for Integrated Automation Instrumentation and Terminal Devices
25 01 10	Operation and Maintenance of Integrated Automation Network Equipment	<b>25 08 00</b>	<b>Commissioning of Integrated Automation</b>
25 01 20	Operation and Maintenance of Integrated Equipment	<b>25 10 00</b>	<b>Integrated Automation Network Equipment</b>
25 01 30	Operation and Maintenance of Integrated Automation Instrumentation and Terminal Devices	<b>25 11 00</b>	<b>Integrated Automation Network Devices</b>
25 01 90	Diagnostic Systems for Integrated Automation	25 11 13	Integrated Automation Network Servers
<b>25 05 00</b>	<b>Common Work Results for Integrated Automation</b>	25 11 16	Integrated Automation Network Routers, Bridges, Switches, Hubs, and Modems
25 05 05	Selective Demolition for Integrated Automation	25 11 19	Integrated Automation Network Operator Workstations
25 05 12	Cyber Security Requirements for Integrated Automation	<b>25 12 00</b>	<b>Integrated Automation Network Gateways</b>
25 05 13	Conductors and Cables for Integrated Automation	25 12 13	Hardwired Integration Network Gateways
25 05 26	Grounding and Bonding for Integrated Automation	25 12 16	Direct-Protocol Integration Network Gateways
25 05 28	Pathways for Integrated Automation	25 12 19	Neutral-Protocol Integration Network Gateways
25 05 28.29	Hangers and Supports for Integrated Automation		
25 05 28.33	Conduits and Backboxes for Integrated Automation		
25 05 28.36	Cable Trays for Integrated Automation		

25 12 23	Client-Server Information/ Database Integration Network Gateways	<b>25 32 00</b>	<b>Integrated Automation Instrumentation and Terminal Devices for Conveying Equipment</b>
<b>25 13 00</b>	<b>Integrated Automation Control and Monitoring Network</b>	<b>25 33 00</b>	<b>Integrated Automation Instrumentation and Terminal Devices for Fire-Suppression Systems</b>
25 13 13	Integrated Automation Control and Monitoring Network Supervisory Control	<b>25 34 00</b>	<b>Integrated Automation Instrumentation and Terminal Devices for Plumbing</b>
25 13 16	Integrated Automation Control and Monitoring Network Integration Panels	<b>25 35 00</b>	<b>Integrated Automation Instrumentation and Terminal Devices for HVAC</b>
25 13 19	Integrated Automation Control and Monitoring Network Interoperability	25 35 13	Integrated Automation Actuators and Operators
<b>25 14 00</b>	<b>Integrated Automation Local Control Units</b>	25 35 16	Integrated Automation Sensors and Transmitters
25 14 13	Integrated Automation Remote Control Panels	25 35 19	Integrated Automation Control Valves
25 14 16	Integrated Automation Application-Specific Control Panels	25 35 23	Integrated Automation Control Dampers
25 14 19	Integrated Automation Terminal Control Units	25 35 26	Integrated Automation Compressed Air Supply
25 14 23	Integrated Automation Field Equipment Panels	<b>25 36 00</b>	<b>Integrated Automation Instrumentation and Terminal Devices for Electrical Systems</b>
<b>25 15 00</b>	<b>Integrated Automation Software</b>	25 36 13	Integrated Automation Power Meters
25 15 13	Integrated Automation Software for Network Gateways	25 36 16	Integrated Automation KW Transducers
25 15 16	Integrated Automation Software for Control and Monitoring Networks	25 36 19	Integrated Automation Current Sensors
25 15 19	Integrated Automation Software for Local Control Units	25 36 23	Integrated Automation Battery Monitors
<b>25 30 00</b>	<b>Integrated Automation Instrumentation and Terminal Devices</b>	25 36 26	Integrated Automation Lighting Relays
<b>25 31 00</b>	<b>Integrated Automation Instrumentation and Terminal Devices for Facility Equipment</b>	25 36 29	Integrated Automation UPS Monitors



25 37 00	Integrated Automation Instrumentation and Terminal Devices for Communications Systems	25 93 00	Integrated Automation Control Sequences for Fire-Suppression Systems
25 38 00	Integrated Automation Instrumentation and Terminal Devices for Electronic Safety and Security Systems	25 94 00	Integrated Automation Control Sequences for Plumbing
25 50 00	<b>Integrated Automation Facility Controls</b>	25 95 00	Integrated Automation Control Sequences for HVAC
25 51 00	Integrated Automation Control of Facility Equipment	25 96 00	Integrated Automation Control Sequences for Electrical Systems
25 52 00	Integrated Automation Control of Conveying Equipment	25 97 00	Integrated Automation Control Sequences for Communications Systems
25 53 00	Integrated Automation Control of Fire-Suppression Systems	25 98 00	Integrated Automation Control Sequences for Electronic Safety and Security Systems
25 54 00	Integrated Automation Control of Plumbing	<b>26 00 00 Electrical</b>	
25 55 00	Integrated Automation Control of HVAC	26 01 00	<b>Operation and Maintenance of Electrical Systems</b>
25 56 00	Integrated Automation Control of Electrical Systems	26 01 10	Operation and Maintenance of Medium-Voltage Electrical Distribution
25 57 00	Integrated Automation Control of Communications Systems	26 01 20	Operation and Maintenance of Low-Voltage Electrical Distribution
25 58 00	Integrated Automation Control of Electronic Safety and Security Systems	26 01 26	Maintenance Testing of Electrical Systems
25 90 00	<b>Integrated Automation Control Sequences</b>	26 01 30	Operation and Maintenance of Facility Electrical Power Generating and Storing Equipment
25 91 00	Integrated Automation Control Sequences for Facility Equipment	26 01 40	Operation and Maintenance of Electrical Protection Systems
25 92 00	Integrated Automation Control Sequences for Conveying Equipment	26 01 50	Operation and Maintenance of Lighting
		26 01 50.51	Luminaire Relamping
		26 01 50.81	Luminaire Replacement

<b>26 05 00</b>	<b>Common Work Results for Electrical</b>		
26 05 05	Selective Demolition for Electrical	26 05 73.23	Load Flow Studies
26 05 13	Medium-Voltage Cables	26 05 73.26	Stability Studies
26 05 13.13	Medium-Voltage Open Conductors	26 05 73.29	Harmonic-Analysis Studies
26 05 13.16	Medium-Voltage, Single- and Multi-Conductor Cables	26 05 76	Photometric Studies
26 05 19	Low-Voltage Electrical Power Conductors and Cables	26 05 83	Wiring Connections
26 05 19.13	Undercarpet Electrical Power Cables	<b>26 06 00</b>	<b>Schedules for Electrical</b>
26 05 19.23	Manufactured Wiring Assemblies	26 06 10	Schedules for Medium-Voltage Electrical Distribution
26 05 23	Control-Voltage Electrical Power Cables	26 06 20	Schedules for Low-Voltage Electrical Distribution
26 05 26	Grounding and Bonding for Electrical Systems	26 06 20.13	Electrical Switchboard Schedule
26 05 29	Hangers and Supports for Electrical Systems	26 06 20.16	Electrical Panelboard Schedule
26 05 33	Raceway and Boxes for Electrical Systems	26 06 20.19	Electrical Motor-Control Center Schedule
26 05 33.13	Conduit for Electrical Systems	26 06 20.23	Electrical Circuit Schedule
26 05 33.16	Boxes for Electrical Systems	26 06 20.26	Wiring Device Schedule
26 05 33.23	Surface Raceways for Electrical Systems	26 06 30	Schedules for Facility Electrical Power Generating and Storing Equipment
26 05 36	Cable Trays for Electrical Systems	26 06 40	Schedules for Electrical Protection Systems
26 05 39	Underfloor Raceways for Electrical Systems	26 06 50	Schedules for Lighting
26 05 43	Underground Ducts and Raceways for Electrical Systems	26 06 50.13	Lighting Panelboard Schedule
26 05 44	Sleeves and Sleeve Seals for Electrical Raceways and Cabling	26 06 50.16	Lighting Fixture Schedule
26 05 46	Poles for Electrical Systems	<b>26 08 00</b>	<b>Commissioning of Electrical Systems</b>
26 05 48	Vibration and Seismic Controls for Electrical Systems	<b>26 09 00</b>	<b>Instrumentation and Control for Electrical Systems</b>
26 05 48.16	Seismic Controls for Electrical Systems	26 09 13	Electrical Power Monitoring
26 05 53	Identification for Electrical Systems	26 09 15	Peak Load Controllers
26 05 73	Power System Studies	26 09 16	Electrical Control Components
26 05 73.13	Short-Circuit Studies	26 09 17	Programmable Controllers
26 05 73.16	Coordination Studies	26 09 19	Enclosed Contactors
26 05 73.19	Arc-Flash Hazard Analysis	26 09 23	Lighting Control Devices
		26 09 26	Lighting Control Panelboards
		26 09 33	Central Dimming Controls
		26 09 33.13	Multichannel Remote-Controlled Dimmers
		26 09 33.16	Remote-Controlled Dimming Stations
		26 09 36	Modular Dimming Controls
		26 09 36.13	Manual Modular Dimming Controls

26 09 36.16	Integrated Multipreset Modular Dimming Controls	26 13 29	Medium-Voltage Compartmentalized Switchgear
26 09 36.19	Standalone Multipreset Modular Dimming	<b>26 15 00</b>	<b>Medium-Voltage Enclosed Bus Assemblies</b>
26 09 43	Network Lighting Controls	26 15 13	Medium-Voltage Busways
26 09 43.13	Digital-Network Lighting Controls	26 15 16	Medium-Voltage Cablebus
26 09 43.16	Addressable Luminaire Lighting Controls	<b>26 16 00</b>	<b>Medium-Voltage Metering</b>
26 09 43.19	Wireless Network Lighting Controls	<b>26 18 00</b>	<b>Medium-Voltage Circuit Protection Devices</b>
26 09 43.23	Relay-Based Lighting Controls	26 18 13	Medium-Voltage Cutouts
26 09 61	Theatrical Lighting Controls	26 18 16	Medium-Voltage Fuses
<b>26 10 00</b>	<b>Medium-Voltage Electrical Distribution</b>	26 18 19	Medium-Voltage Lightning Arresters
<b>26 11 00</b>	<b>Substations</b>	26 18 23	Medium-Voltage Surge Arresters
26 11 13	Primary Unit Substations	26 18 26	Medium-Voltage Reclosers
26 11 16	Secondary Unit Substations	26 18 29	Medium-Voltage Enclosed Bus
26 11 16.11	Secondary Unit Substations with Switchgear Secondary	26 18 33	Medium-Voltage Enclosed Fuse Cutouts
26 11 16.12	Secondary Unit Substations with Switchboard Secondary	26 18 36	Medium-Voltage Enclosed Fuses
26 11 16.13	Secondary Unit Substations with Motor Control Center Secondary	26 18 39	Medium-Voltage Motor Controllers
<b>26 12 00</b>	<b>Medium-Voltage Transformers</b>	<b>26 20 00</b>	<b>Low-Voltage Electrical Distribution</b>
26 12 13	Liquid-Filled, Medium-Voltage Transformers	<b>26 21 00</b>	<b>Low-Voltage Electrical Service Entrance</b>
26 12 16	Dry-Type, Medium-Voltage Transformers	26 21 13	Low-Voltage Overhead Electrical Service Entrance
26 12 19	Pad-Mounted, Liquid-Filled, Medium-Voltage Transformers	26 21 16	Low-Voltage Underground Electrical Service Entrance
<b>26 13 00</b>	<b>Medium-Voltage Switchgear</b>	<b>26 22 00</b>	<b>Low-Voltage Transformers</b>
26 13 13	Medium-Voltage Circuit Breaker Switchgear	26 22 13	Low-Voltage Distribution Transformers
26 13 16	Medium-Voltage Fusible Interrupter Switchgear	26 22 16	Low-Voltage Buck-Boost Transformers
26 13 19	Medium-Voltage Vacuum Interrupter Switchgear	26 22 17	Low-Voltage Transformers for Nonlinear Loads
26 13 23	Medium-Voltage Metal-Enclosed Switchgear		
26 13 26	Medium-Voltage Metal-Clad Switchgear		

26 22 18	Low-Voltage Transformers for Load Centers	26 29 33.13	Full-Service Controllers for Fire Pump Electric-Motor Drivers
26 22 19	Control and Signal Transformers	26 29 33.16	Limited-Service Controllers for Fire Pump Electric-Motor Drivers
<b>26 23 00</b>	<b>Low-Voltage Switchgear</b>	26 29 33.19	Controllers for Fire Pump Diesel Engine Drivers
26 23 13	Paralleling Low-Voltage Switchgear		
<b>26 24 00</b>	<b>Switchboards and Panelboards</b>	<b>26 30 00</b>	<b>Facility Electrical Power Generating and Storing Equipment</b>
26 24 13	Switchboards		
26 24 16	Panelboards	<b>26 31 00</b>	<b>Photovoltaic Collectors</b>
26 24 16.16	Electronically Operated Circuit-Breaker Panelboards	<b>26 32 00</b>	<b>Packaged Generator Assemblies</b>
26 24 19	Motor-Control Centers	26 32 13	Engine Generators
<b>26 25 00</b>	<b>Low-Voltage Enclosed Bus Assemblies</b>	26 32 13.13	Diesel-Engine-Driven Generator Sets
26 25 13	Low-Voltage Busways	26 32 13.16	Gas-Engine-Driven Generator Sets
26 25 16	Low-Voltage Cablebus Systems	26 32 13.26	Gas-Turbine Engine-Driven Generators
<b>26 27 00</b>	<b>Low-Voltage Distribution Equipment</b>	26 32 16	Steam-Turbine Generators
26 27 13	Electricity Metering	26 32 19	Hydro-Turbine Generators
26 27 16	Electrical Cabinets and Enclosures	26 32 23	Wind Energy Equipment
26 27 19	Multi-Outlet Assemblies	26 32 23.13	Horizontal-Axis Wind Turbines
26 27 23	Indoor Service Poles	26 32 23.16	Vertical-Axis Wind Turbines
26 27 26	Wiring Devices	26 32 26	Frequency Changers
26 27 33	Power Distribution Units	26 32 29	Rotary Converters
26 27 73	Door Chimes	26 32 33	Rotary Uninterruptible Power Units
<b>26 28 00</b>	<b>Low-Voltage Circuit Protective Devices</b>	26 32 36	Resistive Load Banks
26 28 13	Fuses	<b>26 33 00</b>	<b>Battery Equipment</b>
26 28 16	Enclosed Switches and Circuit Breakers	26 33 13	Batteries
26 28 16.13	Enclosed Circuit Breakers	26 33 16	Battery Racks
26 28 16.16	Enclosed Switches	26 33 19	Battery Units
<b>26 29 00</b>	<b>Low-Voltage Controllers</b>	26 33 23	Central Battery Equipment
26 29 13	Enclosed Controllers	26 33 23.13	Central Battery Equipment for Emergency Lighting
26 29 13.13	Across-the-Line Motor Controllers	26 33 33	Static Power Converters
26 29 13.16	Reduced-Voltage Motor Controllers	26 33 43	Battery Chargers
26 29 23	Variable-Frequency Motor Controllers	26 33 46	Battery Monitoring
26 29 33	Controllers for Fire Pump Drivers	26 33 53	Static Uninterruptible Power Supply
		<b>26 35 00</b>	<b>Power Filters and Conditioners</b>
		26 35 13	Capacitors

26 35 16	Chokes and Inductors	<b>26 55 00</b>	<b>Special Purpose Lighting</b>
26 35 23	Electromagnetic-Interference Filters	26 55 23	Outline Lighting
26 35 26	Harmonic Filters	26 55 29	Underwater Lighting
26 35 33	Power Factor Correction Equipment	26 55 33	Hazard Warning Lighting
26 35 33.13	Medium-Voltage Power Factor Correction Equipment	26 55 36	Obstruction Lighting
26 35 33.16	Low-Voltage Power Factor Correction Equipment	26 55 39	Helipad Lighting
26 35 36	Slip Controllers	26 55 53	Security Lighting
26 35 43	Static-Frequency Converters	26 55 59	Display Lighting
26 35 46	Radio-Frequency-Interference Filters	26 55 61	Theatrical Lighting
26 35 53	Voltage Regulators	26 55 63	Detention Lighting
<b>26 36 00</b>	<b>Transfer Switches</b>	26 55 68	Athletic Field Lighting
26 36 13	Manual Transfer Switches	26 55 70	Healthcare Lighting
26 36 23	Automatic Transfer Switches	26 55 83	Broadcast Lighting
<b>26 40 00</b>	<b>Electrical Protection</b>	<b>26 56 00</b>	<b>Exterior Lighting</b>
<b>26 43 00</b>	<b>Surge Protective Devices</b>	26 56 13	Lighting Poles and Standards
26 43 13	Surge Protective Devices for Low-Voltage Electrical Power Circuits	26 56 17	Fluorescent Exterior Lighting
26 43 23	Surge Protective Devices for Lightning Protection	26 56 18	Incandescent Exterior Lighting
<b>26 50 00</b>	<b>Lighting</b>	26 56 19	LED Exterior Lighting
<b>26 51 00</b>	<b>Interior Lighting</b>	26 56 21	HID Exterior Lighting
26 51 13	Incandescent Interior Lighting	<b>27 00 00</b>	<b>Communications</b>
26 51 16	Fluorescent Interior Lighting	<b>27 01 00</b>	<b>Operation and Maintenance of Communications Systems</b>
26 51 19	LED Interior Lighting	27 01 10	Operation and Maintenance of Structured Cabling and Enclosures
26 51 23	HID Interior Lighting	27 01 20	Operation and Maintenance of Data Communications
<b>26 52 00</b>	<b>Safety Lighting</b>	27 01 30	Operation and Maintenance of Voice Communications
26 52 13	Emergency and Exit Lighting	27 01 40	Operation and Maintenance of Audio-Video Communications
26 52 13.13	Emergency Lighting	27 01 50	Operation and Maintenance of Distributed Communications and Monitoring
26 52 13.16	Exit Signs	<b>27 05 00</b>	<b>Common Work Results for Communications</b>
<b>26 54 00</b>	<b>Classified Location Lighting</b>	27 05 05	Selective Demolition for Communications
26 54 13	Incandescent Classified Location Lighting		
26 54 16	Fluorescent Classified Location Lighting		
26 54 19	LED Classified Location Lighting		

27 05 11	Cameras for Audio-Visual Systems	27 06 50	Schedules for Distributed Communications and Monitoring
27 05 12	Cyber Security Requirements for Communications	<b>27 08 00</b>	<b>Commissioning of Communications</b>
27 05 13	Communications Services	<b>27 10 00</b>	<b>Structured Cabling</b>
27 05 13.13	Dialtone Services	<b>27 11 00</b>	<b>Communications Equipment Room Fittings</b>
27 05 13.23	T1 Services	27 11 13	Communications Entrance Protection
27 05 13.33	DSL Services	27 11 16	Communications Cabinets, Racks, Frames, and Enclosures
27 05 13.43	Cable Services	27 11 19	Communications Termination Blocks and Patch Panels
27 05 13.53	Satellite Services	27 11 23	Communications Cable Management and Ladder Rack
27 05 26	Grounding and Bonding for Communications Systems	27 11 26	Communications Rack Mounted Power Protection and Power Strips
27 05 28	Pathways for Communications Systems	<b>27 13 00</b>	<b>Communications Backbone Cabling</b>
27 05 29	Hangers and Supports for Communications Systems	27 13 13	Communications Copper Backbone Cabling
27 05 33	Conduits and Backboxes for Communications Systems	27 13 13.13	Communications Copper Cable Splicing and Terminations
27 05 36	Cable Trays for Communications Systems	27 13 23	Communications Optical Fiber Backbone Cabling
27 05 39	Surface Raceways for Communications Systems	27 13 23.13	Communications Optical Fiber Splicing and Terminations
27 05 43	Underground Ducts and Raceways for Communications Systems	27 13 33	Communications Coaxial Backbone Cabling
27 05 44	Sleeves and Sleeve Seals for Communications Pathways and Cabling	27 13 33.13	Communications Coaxial Splicing and Terminations
27 05 46	Utility Poles for Communications Systems	27 13 43	Communications Services Cabling
27 05 48	Vibration and Seismic Controls for Communications Systems	27 13 43.13	Dialtone Services Cabling
27 05 48.16	Seismic Controls for Communications Systems	27 13 43.23	T1 Services Cabling
27 05 53	Identification for Communications Systems	27 13 43.33	DSL Services Cabling
<b>27 06 00</b>	<b>Schedules for Communications</b>	27 13 43.43	Cable Services Cabling
27 06 10	Schedules for Structured Cabling and Enclosures	27 13 43.53	Satellite Services Cabling
27 06 20	Schedules for Data Communications		
27 06 30	Schedules for Voice Communications		
27 06 40	Schedules for Audio-Video Communications		

<b>27 15 00</b>	<b>Communications Horizontal Cabling</b>	27 16 19	Communications Patch Cords, Station Cords, and Cross Connect Wire
27 15 01	Communications Horizontal Cabling Applications	<b>27 20 00</b>	<b>Data Communications</b>
27 15 01.11	Conductors and Cables for Electronic Safety and Security	<b>27 21 00</b>	<b>Data Communications Network Equipment</b>
27 15 01.13	Video Surveillance Communications Conductors and Cables	27 21 13	Data Communications Firewalls
27 15 01.15	Access Control Communications Conductors and Cables	27 21 16	Data Communications Routers, CSU/DSU, Multiplexers, Codecs, and Modems
27 15 01.16	Voice Communications Horizontal Cabling	27 21 26	Data Communications Network Management
27 15 01.17	Intrusion Detection Communications Conductors and Cables	27 21 29	Data Communications Switches and Hubs
27 15 01.19	Fire Alarm Communications Conductors and Cables	27 21 33	Data Communications Wireless Access Points
27 15 01.23	Audio-Video Communications Horizontal Cabling	<b>27 22 00</b>	<b>Data Communications Hardware</b>
27 15 01.39	Patient Monitoring and Telemetry Communications Horizontal Cabling	27 22 13	Data Communications Mainframes
27 15 01.43	Nurse Call and Intercom Communications Horizontal Cabling	27 22 16	Data Communications Storage and Backup
27 15 01.46	Paging Communications Horizontal Cabling	27 22 19	Data Communications Servers
27 15 01.49	Intermediate Frequency/Radio Frequency Communications Horizontal Cabling	27 22 23	Data Communications Desktops
27 15 01.53	Antennas Communications Horizontal Cabling	27 22 26	Data Communications Laptops
27 15 13	Communications Copper Horizontal Cabling	27 22 29	Data Communications Handhelds
27 15 23	Communications Optical Fiber Horizontal Cabling	<b>27 24 00</b>	<b>Data Communications Peripheral Data Equipment</b>
27 15 33	Communications Coaxial Horizontal Cabling	27 24 13	Printers
27 15 43	Communications Faceplates and Connectors	27 24 16	Scanners
<b>27 16 00</b>	<b>Communications Connecting Cords, Devices, and Adapters</b>	27 24 19	External Drives
27 16 13	Communications Custom Cable Assemblies	27 24 23	Audio-Video Devices
27 16 16	Communications Media Converters, Adapters, and Transceivers	27 24 26	Virtual Reality Equipment
		27 24 29	Disaster Recovery Equipment
		<b>27 25 00</b>	<b>Data Communications Software</b>
		27 25 13	Virus Protection Software

27 25 16	Application Suites	27 33 23	Interactive Voice Response
27 25 19	Email Software	27 33 26	Facsimile Servers
27 25 23	Graphics/Multimedia Software	<b>27 34 00</b>	<b>Call Accounting</b>
27 25 26	Customer Relationship Management Software	27 34 13	Toll Fraud Equipment and Software
27 25 29	Operating System Software	27 34 16	Telemanagement Software
27 25 33	Database Software	<b>27 35 00</b>	<b>Call Management</b>
27 25 37	Virtual Private Network Software	27 35 13	Digital Voice Announcers
27 25 39	Internet Conferencing Software	27 35 16	Automatic Call Distributors
<b>27 26 00</b>	<b>Data Communications Programming and Integration Services</b>	27 35 19	Call Status and Management Displays
27 26 13	Web Development	27 35 23	Dedicated 911 Systems
27 26 16	Database Development	<b>27 40 00</b>	<b>Audio-Video Communications</b>
27 26 19	Application Development	<b>27 41 00</b>	<b>Audio-Video Systems</b>
27 26 23	Network Integration Requirements	27 41 13	Architecturally Integrated Audio-Video Equipment
27 26 26	Data Communications Integration Requirements	27 41 16	Integrated Audio-Video Systems and Equipment
<b>27 30 00</b>	<b>Voice Communications</b>	27 41 16.25	Integrated Audio-Video Systems and Equipment for Restaurants and Bars
<b>27 31 00</b>	<b>Voice Communications Switching and Routing Equipment</b>	27 41 16.28	Integrated Audio-Video Systems and Equipment for Conference Rooms
27 31 13	PBX/ Key Systems	27 41 16.29	Integrated Audio-Video Systems and Equipment for Board Rooms
27 31 23	Internet Protocol Voice Switches	27 41 16.51	Integrated Audio-Video Systems and Equipment for Classrooms
<b>27 32 00</b>	<b>Voice Communications Terminal Equipment</b>	27 41 16.52	Integrated Audio-Video Systems and Equipment for Religious Facilities
27 32 13	Telephone Sets	27 41 16.61	Integrated Audio-Video Systems and Equipment for Theaters
27 32 16	Wireless Transceivers	27 41 16.62	Integrated Audio-Video Systems and Equipment for Auditoriums
27 32 23	Elevator Telephones	27 41 16.63	Integrated Audio-Video Systems and Equipment for Stadiums and Arenas
27 32 26	Ring-Down Emergency Telephones	27 41 19	Portable Audio-Video Equipment
27 32 29	Facsimiles and Modems	27 41 23	Audio-Video Accessories
27 32 36	TTY Equipment	27 41 33	Master Antenna Television Systems
27 32 43	Radio Communications Equipment		
<b>27 33 00</b>	<b>Voice Communications Messaging</b>		
27 33 16	Voice Mail and Auto Attendant		



27 41 43	Audio-Video Conferencing	27 52 16	Telemedicine Systems
<b>27 42 00</b>	<b>Electronic Digital Systems</b>	27 52 19	Healthcare Imaging Systems
27 42 13	Point of Sale Systems	27 52 23	Nurse Call/Code Blue Systems
27 42 16	Transportation Information Display Systems	<b>27 53 00</b>	<b>Distributed Systems</b>
27 42 19	Public Information Systems	27 53 13	Clock Systems
<b>27 50 00</b>	<b>Distributed Communications and Monitoring Systems</b>	27 53 13.13	Wireless Clock Systems
<b>27 51 00</b>	<b>Distributed Audio-Video Communications Systems</b>	27 53 16	Infrared and Radio Frequency Tracking Systems
27 51 13	Paging Systems	27 53 19	Internal Cellular, Paging, and Antenna Systems
27 51 13.13	Overhead Paging Systems	<b>28 00 00</b>	<b>Electronic Safety and Security</b>
27 51 16	Public Address Systems	<b>28 01 00</b>	<b>Operation and Maintenance of Electronic Safety and Security</b>
27 51 19	Sound Masking Systems	28 01 10	Operation and Maintenance of Access Control
27 51 23	Intercommunications and Program Systems	28 01 10.51	Maintenance and Administration of Access Control
27 51 23.20	Commercial Intercommunications and Program Systems	28 01 10.71	Revisions and Upgrades of Access Control
27 51 23.30	Residential Intercommunications and Program Systems	28 01 20	Operation and Maintenance of Video Surveillance
27 51 23.50	Educational Intercommunications and Program Systems	28 01 20.51	Maintenance and Administration of Video Surveillance
27 51 23.63	Detention Intercommunications and Program Systems	28 01 20.71	Revisions and Upgrades of Video Surveillance
27 51 23.70	Healthcare Intercommunications and Program Systems	28 01 30	Operation and Maintenance of Security Detection, Alarm, and Monitoring
27 51 26	Assistive Listening Systems	28 01 30.51	Maintenance and Administration of Security Detection, Alarm, and Monitoring
27 51 29	Emergency Communications Systems	28 01 30.71	Revisions and Upgrades of Security Detection, Alarm, and Monitoring
27 51 29.13	Rescue Assistance Signal Systems	28 01 50	Operation and Maintenance of Specialized Systems
27 51 29.17	Two-way Radio Communication Enhancement Systems	28 01 50.51	Maintenance and Administration of Specialized Systems
27 51 33	Occupancy Indicator	28 01 50.71	Revisions and Upgrades of Specialized Systems
<b>27 52 00</b>	<b>Healthcare Communications and Monitoring Systems</b>		
27 52 13	Patient Monitoring and Telemetry Systems		

28 01 60	Operation and Maintenance of Mass Notification	28 05 09.13	Surge Protection for Video Surveillance
28 01 60.51	Maintenance and Administration of Mass Notification	28 05 09.15	Surge Protection for Intrusion Detection
28 01 60.71	Revisions and Upgrades of Mass Notification	28 05 09.17	Surge Protection for Fire Detection and Alarm
28 01 70	Operation and Maintenance of Life Safety	28 05 11	Cyber Security Requirements for Electronic Safety and Security
28 01 70.51	Maintenance and Administration of Life Safety	28 05 13	Servers, Workstations and Storage for Electronic Safety and Security
28 01 70.71	Revisions and Upgrades of Life Safety	28 05 13.11	System Requirements for Servers, Workstations and Storage
28 01 80	Operation and Maintenance of Fire Detection and Alarm	28 05 15	Servers for Electronic Safety and Security
28 01 80.51	Maintenance and Administration of Fire Detection and Alarm	28 05 17	Workstations for Electronic Safety and Security
28 01 80.71	Revisions and Upgrades of Fire Detection and Alarm	28 05 19	Storage Appliances for Electronic Safety and Security
<b>28 05 00</b>	<b>Common Work Results for Electronic Safety and Security</b>	28 05 19.11	Digital Video Recorders
28 05 05	Selective Security Systems Demolition	28 05 19.13	Hybrid Digital Video Recorders
28 05 07	Power Sources for Electronic Safety and Security	28 05 19.15	Network Video Recorders
28 05 07.11	Power Sources for Access Control	28 05 21	Network Attached Storage for Electronic Safety and Security
28 05 07.13	Power Sources for Video Surveillance	28 05 23	Storage Area Network for Electronic Safety and Security
28 05 07.15	Power Sources for Intrusion Detection	28 05 25	Cloud Based Storage for Electronic Safety and Security
28 05 07.17	Power Sources for Fire Detection and Alarm	28 05 27	Archival Systems for Electronic Safety and Security
28 05 07.19	Solar Power Sources for Electronic Safety and Security	28 05 27.11	Digital Tape Storage
28 05 07.21	Poe Power Sources for Electronic Safety and Security	28 05 27.13	Storage Media
28 05 07.23	Uninterruptible Power Supply	28 05 29	Storage Management Software for Electronic Safety and Security
28 05 07.25	Power Source Monitoring	28 05 31	Communications Equipment for Electronic Safety and Security
28 05 07.27	Power Source Monitoring Appliances	28 05 33	Safety and Security Network Communications Equipment
28 05 07.29	Power Source Monitoring Software	28 05 33.11	Security Data Communications Firewalls
28 05 09	Surge Protection for Electronic Safety and Security		
28 05 09.11	Surge Protection for Access Control		

28 05 33.13	Security Data Communications Routers	<b>28 06 00</b>	<b>Schedules for Electronic Safety and Security</b>
28 05 33.15	Security Data Communications Power-over-ethernet Switches	28 06 10	Schedules for Access Control
28 05 33.17	Security Data Communications Non-power-over-ethernet Switches	28 06 20	Schedules for Video Surveillance
28 05 33.19	Security Data Communications Media Converters	28 06 30	Schedules for Security Detection, Alarm, and Monitoring
28 05 35	Security Data Communications Wireless Transmission Equipment	28 06 40	Schedules for Detention Monitoring and Control
28 05 35.11	Microwave Transmission Equipment	28 06 50	Schedules for Information Management and Display
28 05 37	Security Voice Communications -Distributed Antenna System	28 06 60	Schedules for Mass Notification
28 05 37.11	Bi-directional Amplifiers	28 06 70	Schedules for Life Safety
28 05 37.13	Repeaters	28 06 80	Schedules for Fire Detection and Alarm
28 05 37.15	Remote Repeaters	<b>28 08 00</b>	<b>Commissioning of Electronic Safety and Security</b>
28 05 39	Antennas		
28 05 39.11	Donor Antennas		
28 05 39.13	Multi-band Antennas		
28 05 39.15	Band Specific Antennas	28 08 11	Testing for Baseline Performance Criteria
28 05 39.17	Radiating Coaxial Cable		
28 05 39.19	Other Antennas	<b>28 10 00</b>	<b>Access Control</b>
28 05 41	Signal Controllers	<b>28 11 00</b>	<b>Access Control Global Applications</b>
28 05 41.11	Splitters	<b>28 12 00</b>	<b>General Requirements for Access Control Systems</b>
28 05 41.13	Directional Couplers		
28 05 43	Security Voice Communications Private Mobile Radio System	28 12 01	System Requirements for Access Control Systems
28 05 43.11	Base Station		
28 05 43.13	Handheld Radio	<b>28 13 00</b>	<b>Access Control Software and Database Management</b>
28 05 44	Sleeves and Sleeve Seals for Electronic Safety and Security Pathways and Cabling		
28 05 45	Systems Integration and Unified Systems	28 13 11	Access Control Software
28 05 45.11	Mechanical	28 13 11.11	Access Control Operating Systems
28 05 45.13	Electrical	28 13 11.13	Access Control Application Services
28 05 45.15	Information	28 13 11.15	Access Control Mobile Applications
28 05 48	Vibration and Seismic Controls for Electronic Safety and Security	28 13 13	Access Control Software Interfaces
28 05 48.16	Seismic Controls for Electronic Safety and Security	28 13 15	Access Control Cloud Services
28 05 53	Identification for Electronic Safety and Security		

<b>28 14 00</b>	<b>Access Control System Hardware</b>	28 15 23.15	Audio Intercom (IP)
28 14 11	Access Control Network Controllers	28 15 23.17	Audio Video Intercom (IP)
28 14 13	Access Control Door Controllers	28 15 25	Electronic Key Management Systems
28 14 15	Access Control Inputs and Outputs	28 15 27	Access Control Electronic Turnstiles and Mobility Systems
28 14 17	Access Control Printers and Encoders	<b>28 16 00</b>	<b>Access Control Interfaces</b>
28 14 19	Access Control Enclosures	28 16 11	Access Control Interfaces to Access Control Hardware
<b>28 15 00</b>	<b>Integrated Access Control Hardware Devices</b>	28 16 13	Access Control Interfaces to Intrusion Detection
28 15 11	Integrated Credential Readers and Entry Management	28 16 15	Access Control Interfaces to Video Surveillance
28 15 11.11	Standard Card Readers	28 16 17	Access Control Interfaces to Fire Alarm
28 15 11.13	Keypads	28 16 19	Access Control Interfaces to Enterprise Software
28 15 11.15	Biometric Identity Devices	28 16 21	Access Control Interfaces to Mechanical Systems
28 15 11.17	Combination Reader Devices	28 16 23	Access Control Interfaces to Electrical Systems
28 15 13	Access Control Credentials	28 16 25	Access Control Interfaces to Electronic Key Management System
28 15 13.11	Access Control Cards	28 16 27	Access Control Interfaces to Elevator Controls
28 15 13.13	Wireless Key Fobs	28 16 29	Access Control Interfaces to Parking Equipment
28 15 15	Electrified Locking Devices and Accessories	28 16 31	Access Control Interfaces to Perimeter Security Systems
28 15 15.11	Direct Interface Integrated Locking Devices	<b>28 17 00</b>	<b>Access Control Identification Management Systems</b>
28 15 15.13	Wireless Integrated Locking Devices	28 17 11	Visitor Management Systems
28 15 15.15	Intelligent Ethernet Integrated Locking Devices	28 17 13	Self Check in and Kiosk Visitor Systems
28 15 15.17	Status Monitoring and Egress Devices	28 17 15	Contractor and Vendor Management Systems
28 15 17	Egress Management Devices	28 17 17	Mobile Access Identification Management Systems
28 15 17.11	Magnetic Lock Delayed Egress Devices	<b>28 18 00</b>	<b>Security Access Detection Equipment</b>
28 15 17.13	Panic Hardware Delayed Egress Devices	28 18 11	Security Access Metal Detectors
28 15 19	Access Control Remote Devices		
28 15 19.11	Smart Phone Interface Requirements		
28 15 19.13	Wireless Access Control Devices		
28 15 21	Telephone Entry Systems		
28 15 23	Intercom Entry Systems		
28 15 23.11	Audio Intercom (Analog)		
28 15 23.13	Audio Video Intercom (Analog)		

28 18 13	Security Access X-ray Equipment	28 31 21	Area and Perimeter Intrusion Detection
28 18 15	Security Access Explosive Detection Equipment	28 31 21.11	Fiber Optic Area and Perimeter Security Systems
28 18 17	Security Access Sniffing Equipment	28 31 21.13	Microwave Area and Perimeter Security Systems
<b>28 19 00</b>	<b>Access Control Vehicle Identification Systems</b>	28 31 21.15	Integrated Video Area and Perimeter Security Systems
28 19 11	Loading Dock Access Management Systems	28 31 21.17	Fixed Optical Beam Area and Perimeter Security Systems
28 19 13	Parking Garage Access Management Systems	28 31 21.19	LIDAR Area and Perimeter Security Systems
28 19 15	Perimeter Vehicle Access Management Systems	28 31 21.21	Coaxial Area and Perimeter Security Systems
<b>28 20 00</b>	<b>Video Surveillance</b>	28 31 21.23	Area and Perimeter Intrusion Detection Devices and Sensors
<b>28 21 00</b>	<b>Surveillance Cameras</b>	28 31 31	Intrusion Detection Interfaces
28 21 11	Analog Camera	28 31 31.11	Intrusion Detection Interfaces to Security Monitoring and Control
28 21 13	IP Cameras	28 31 31.13	Intrusion Detection Interfaces to Access Control System
28 21 13.11	Panoramic IP Cameras	28 31 31.15	Intrusion Detection Interfaces to Video Surveillance
28 21 13.13	Analytic Packages for IP Cameras	28 31 31.17	Intrusion Detection Interfaces to Information Management and Presentation
28 21 15	Specialty Cameras	28 31 31.19	Intrusion Detection Interfaces to Mass Notification
28 21 17	Camera Housings	28 31 31.21	Intrusion Detection Interfaces to Life Safety
28 21 19	Camera Mounts	28 31 31.23	Intrusion Detection Interfaces to Fire Alarm
28 21 21	Illuminators	28 31 31.25	Intrusion Detection Interfaces to Temperature Controls
28 21 23	Video Encoders and Decoders	<b>28 33 00</b>	<b>Security Monitoring and Control</b>
<b>28 23 00</b>	<b>Video Management System</b>	28 33 11	Electronic Structural Monitoring Systems
28 23 11	Video Management System Analytics	28 33 13	Security Operations and Monitoring Center
28 23 13	Video Management System Interfaces	28 33 15	Security Monitoring and Control Software
<b>28 25 00</b>	<b>Video Surveillance Positioning Equipment</b>	28 33 17	Security Monitoring and Control Services
<b>28 30 00</b>	<b>Security Detection, Alarm, and Monitoring</b>	<b>28 35 00</b>	<b>Tracking Systems</b>
<b>28 31 00</b>	<b>Intrusion Detection</b>	28 35 11	Asset Tracking Systems
28 31 11	Building Intrusion Detection	28 35 11.11	Rf Asset Tracking Systems
28 31 11.11	Building Intrusion Detection Control, Gui, and Logic Systems	28 35 11.13	GPS Asset Tracking Systems
28 31 11.13	Building Intrusion Detection Remote Devices and Sensors	28 35 11.15	Cellular Asset Tracking Systems

28 35 13	Personnel Tracking Systems	28 44 15	Refrigerant Detection Sensors
28 35 13.11	Rf Personnel Tracking Systems		
28 35 13.13	GPS Personnel Tracking Systems	<b>28 45 00</b>	<b>Water Detection and Alarm</b>
28 35 13.15	Cellular Personnel Tracking Systems	28 45 11	Water Detection and Alarm Control, Gui, and Logic Systems
<b>28 37 00</b>	<b>Audio Monitoring</b>	28 45 13	Water Detection Sensors
28 37 11	Audio Monitoring Devices	28 45 15	Building Envelope Water Detection and Alarm
28 37 13	Gunshot Detection Systems	<b>28 46 00</b>	<b>Fire Detection and Alarm</b>
<b>28 40 00</b>	<b>Life Safety</b>	28 46 13	Fire-Alarm Systems
<b>28 41 00</b>	<b>Radiation Detection and Alarm</b>	28 46 13.11	Protected Premises Fire-Alarm Systems
28 41 11	Radiation Detection and Alarm Control, Gui, and Logic Systems	28 46 13.21	Central-Station Service Fire-Alarm Systems
28 41 13	Radiation Detection and Alarm Integrated Audio Evacuation Systems	28 46 13.31	Proprietary Supervising-Station Fire-Alarm Systems
28 41 15	Radiation Detection Sensors	28 46 13.41	Remote Supervising-Station Fire-Alarm Systems
28 41 17	Radiation Dosimeters	28 46 13.51	Household Fire-Alarm Systems
<b>28 42 00</b>	<b>Gas Detection and Alarm</b>	28 46 14	Single and Multiple Station Alarms
28 42 11	Gas Detection and Alarm Control, Gui, and Logic Systems	28 46 21	Fire-Alarm Control Units and Related Equipment
28 42 13	Gas Detection and Alarm Integrated Audio Evacuation Systems	28 46 21.12	Fire-Alarm Control Units
28 42 15	Gas Detection Sensors	28 46 21.22	Fire-Alarm Remote Annunciators
<b>28 43 00</b>	<b>Fuel Oil Detection and Alarm</b>	28 46 21.24	Supervising Station Alarm Systems Communications Equipment
28 43 11	Fuel Oil Detection and Alarm Control, Gui, and Logic Systems	28 46 21.26	Fire-Alarm System Printers
28 43 13	Fuel Oil Detection and Alarm Integrated Audio Evacuation Systems	28 46 21.31	Fire-Alarm Terminal Cabinets
28 43 15	Fuel Oil Detection Sensors	28 46 21.33	Low-Power Radio (Wireless) Equipment
<b>28 44 00</b>	<b>Refrigerant Detection and Alarm</b>	28 46 21.41	In-Building Fire Emergency Voice/Alarm Communications System (EVACS) Equipment
28 44 11	Refrigerant Detection and Alarm Control, Gui, and Logic Systems	28 46 25	Fire-Alarm System Accessories
28 44 13	Refrigerant Detection and Alarm Integrated Audio Evacuation Systems	28 46 31	Fire-Alarm Initiating Devices
		28 46 31.11	Heat-Sensing Fire Detectors
		28 46 31.13	Smoke-Sensing Fire Detectors
		28 46 31.15	Radiant Energy-Sensing Fire Detectors
		28 46 31.17	Gas-Sensing Fire Detectors
		28 46 31.21	Multi-Criteria Fire Detectors
		28 46 31.23	Multi-Sensor Fire Detectors
		28 46 31.25	Combination Fire Detectors

28 46 31.31	Fire-Alarm Manual Initiating Devices	28 47 21.15	Notification Interfaces to Security Detection, Alarm, and Monitoring
28 46 31.41	Fire-Alarm Supervisory Signal Initiating Devices	28 47 21.17	Notification Interfaces to Security Monitoring and Control
28 46 33	Public Emergency Alarm Reporting Equipment	28 47 21.19	Notification Interfaces to Life Safety Systems
28 46 41	Fire-Alarm Notification Appliances	28 47 21.21	Notification Interfaces to Fire Detection and Alarm
28 46 41.11	Audible Fire-Alarm Notification Appliances	28 47 21.23	Notification Interfaces to Detention Systems
28 46 41.21	Visible Fire Alarm Notification Appliances	28 47 21.25	Notification Interfaces to Emergency Response Systems
28 46 41.31	Combination Fire-Alarm Notification Appliances	28 47 21.27	Notification Interfaces to Network and Facilities Monitoring
28 46 41.41	Tactile Fire Alarm Notification Appliances	28 47 21.29	Notification Interfaces to Web Intelligence
28 46 51	Fire-Alarm Supervised Interface Hardware	28 47 21.31	Notification Interfaces to Traffic Management and Monitoring Systems
28 46 51.08	Fire-Alarm Supervised Interface Hardware for Openings	28 47 21.33	Notification Interfaces to Smart Phones
28 46 51.14	Fire-Alarm Supervised Interface Hardware for Elevators	28 47 21.35	Notification Interfaces to Other External Subsystems
28 46 51.23	Fire-Alarm Supervised Interface Hardware for HVAC Systems		
28 46 51.25	Fire-Alarm Supervised Interface Hardware for Integrated Automation	<b>28 48 00</b>	<b>Emergency Response Systems</b>
<b>28 47 00</b>	<b>Mass Notification</b>	28 48 23	Computer Aided Dispatch
28 47 11	System Requirements for Mass Notification	<b>28 49 00</b>	<b>Electronic Personal Protection Systems</b>
28 47 13	Mass Notification Software	28 49 11	Electronic Personal Safety Detection Systems
28 47 15	Mass Notification Control Panels	28 49 13	Electronic Personal Safety Alarm Annunciation and Control Systems
28 47 17	Notification Devices and Methods	28 49 15	Electronic Personal Safety Interfaces to Remote Monitoring
28 47 17.11	Notification Appliances and Methods Indoors	28 49 17	Electronic Personal Safety Emergency Aid Devices
28 47 17.13	Notification Appliances and Methods Outdoors	<b>28 50 00</b>	<b>Specialized Systems</b>
28 47 17.15	Notification Appliances and Methods Distributed Recipient	<b>28 51 00</b>	<b>Information Management and Presentation</b>
28 47 17.17	Notification Appliances and Methods Public Methods	28 51 11	Information Management and Presentation Architecture
28 47 21	Mass Notification System Interfaces		
28 47 21.11	Notification Interfaces to Access Control Systems		
28 47 21.13	Notification Interfaces to Video Surveillance Systems		

28 51 13	Data and Information Management	28 51 17.15	Events/Alarms/Incidents
28 51 15	Information Interfaces to Connected Subsystems	28 51 17.17	Video Workspace
28 51 15.11	Information Interfaces to Access Control Systems	28 51 17.19	Dispatch/Notification
28 51 15.13	Information Interfaces to Video Surveillance Systems	28 51 17.21	Review and Investigation
28 51 15.15	Information Interfaces to Security Detection, Alarm, and Monitoring	28 51 17.23	Reporting
28 51 15.17	Information Interfaces to Security Monitoring and Control	28 51 19	Control Room and Monitoring Equipment
28 51 15.19	Information Interfaces to Mass Notification Systems	28 51 19.11	Display/Workstations
28 51 15.21	Information Interfaces to Life Safety Systems	28 51 19.13	Video Walls
28 51 15.23	Information Interfaces to Fire Detection and Alarm	28 51 19.15	Audio Equipment
28 51 15.25	Information Interfaces to Detention Systems	28 51 19.17	Remote Displays
28 51 15.27	Information Interfaces to Emergency Response Systems	<b>28 52 00</b>	<b>Detention Security Systems</b>
28 51 15.29	Information Interfaces to License Plate Recognition Systems	28 52 11	Detention Security System Requirements
28 51 15.31	Information Interfaces to Facial Recognition Systems	28 52 13	Detention Monitoring and Control System and Interfaces
28 51 15.33	Information Interfaces to Remote Data Structures	28 52 13.11	Detention Interfaces to Access Control Systems
28 51 15.35	Information Interfaces to Network and Facilities Monitoring	28 52 13.13	Detention Interfaces to Video Surveillance Systems
28 51 15.37	Information Interfaces to Crowd Sourcing	28 52 13.15	Detention Interfaces to Security Detection, Alarm, and Monitoring
28 51 15.39	Information Interfaces to Web Intelligence	28 52 13.17	Detention Interfaces to Security Monitoring and Control
28 51 15.41	Information Interfaces to Traffic Management and Monitoring Systems	28 52 13.19	Detention Interfaces to Duress Alarm Systems
28 51 15.43	Information Interfaces to Environmental Monitoring Systems	28 52 13.21	Detention Interfaces to Distributed Television Systems
28 51 15.45	Information Interfaces to Directly Connected Sensors	28 52 13.23	Detention Interfaces to Perimeter Security Systems
28 51 15.47	Information Interfaces to Other Safety and Security Subsystems	28 52 15	Detention Video Systems
28 51 15.49	Information Interfaces to Other External Subsystems	28 52 15.11	Detention Interfaces to Video Interrogation Systems
28 51 17	Data Presentation	28 52 15.13	Detention Interfaces to Video Arraignment Systems
28 51 17.11	Maps	28 52 15.15	Detention Interfaces to Video Visitation Systems
28 51 17.13	Visualization	28 52 17	Detention Communication Systems
		28 52 17.11	Detention Interfaces to Intercom and Paging Systems
		28 52 17.13	Detention Interfaces to Local Intercom Systems
		28 52 17.15	Detention Interfaces to Inmate Television Systems
		28 52 19	Detention Personal Protection Systems



## **31 00 00 Earthwork**

### **31 01 00 Maintenance of Earthwork**

- 31 01 10 Maintenance of Clearing
- 31 01 20 Maintenance of Earth Moving
- 31 01 40 Maintenance of Shoring and Underpinning
- 31 01 50 Maintenance of Excavation Support and Protection
- 31 01 60 Maintenance of Special Foundations and Load Bearing Elements
- 31 01 62 Maintenance of Driven Piles
- 31 01 62.61 Driven Pile Repairs
- 31 01 63 Maintenance of Bored and Augered Piles
- 31 01 63.61 Bored and Augered Pile Repairs
- 31 01 70 Maintenance of Tunneling and Mining
- 31 01 70.61 Tunnel Leak Repairs

### **31 05 00 Common Work Results for Earthwork**

- 31 05 05 Selective Demolition for Earthwork
- 31 05 13 Soils for Earthwork
- 31 05 16 Aggregates for Earthwork
- 31 05 19 Geosynthetics for Earthwork
- 31 05 19.13 Geotextiles for Earthwork
- 31 05 19.16 Geomembranes for Earthwork
- 31 05 19.19 Geogrids for Earthwork
- 31 05 19.23 Geosynthetic Clay Liners
- 31 05 19.26 Geocomposites
- 31 05 19.29 Geonets
- 31 05 23 Cement and Concrete for Earthwork

### **31 06 00 Schedules for Earthwork**

- 31 06 10 Schedules for Clearing
- 31 06 20 Schedules for Earth Moving
- 31 06 20.13 Trench Dimension Schedule
- 31 06 20.16 Backfill Material Schedule
- 31 06 40 Schedules for Shoring and Underpinning
- 31 06 50 Schedules for Excavation Support and Protection

- 31 06 60 Schedules for Special Foundations and Load Bearing Elements
- 31 06 60.13 Driven Pile Schedule
- 31 06 60.16 Caisson Schedule
- 31 06 70 Schedules for Tunneling and Mining

### **31 08 00 Commissioning of Earthwork**

- 31 08 13 Pile Load Testing
- 31 08 13.13 Dynamic Pile Load Testing
- 31 08 13.16 Static Pile Load Testing

### **31 09 00 Geotechnical Instrumentation and Monitoring of Earthwork**

- 31 09 13 Geotechnical Instrumentation and Monitoring
- 31 09 13.13 Groundwater Monitoring During Construction
- 31 09 16 Foundation Performance Instrumentation
- 31 09 16.26 Bored and Augered Pile Load Tests

### **31 10 00 Site Clearing**

#### **31 11 00 Clearing and Grubbing**

#### **31 12 00 Selective Clearing**

#### **31 13 00 Selective Tree and Shrub Removal and Trimming**

- 31 13 13 Selective Tree and Shrub Removal
- 31 13 16 Selective Tree and Shrub Trimming

#### **31 14 00 Earth Stripping and Stockpiling**

- 31 14 13 Soil Stripping and Stockpiling
- 31 14 13.13 Soil Stripping
- 31 14 13.16 Soil Stockpiling
- 31 14 13.23 Topsoil Stripping and Stockpiling
- 31 14 16 Sod Stripping and Stockpiling
- 31 14 16.13 Sod Stripping
- 31 14 16.16 Sod Stockpiling

## **31 20 00 Earth Moving**

### **31 21 00 Off-Gassing Mitigation**

- 31 21 13 Radon Mitigation
- 31 21 13.13 Radon Venting
- 31 21 16 Methane Mitigation
- 31 21 16.13 Methane Venting

### **31 22 00 Grading**

- 31 22 13 Rough Grading
- 31 22 16 Fine Grading
- 31 22 16.13 Roadway Subgrade Reshaping
- 31 22 19 Finish Grading
- 31 22 19.13 Spreading and Grading Topsoil

### **31 23 00 Excavation and Fill**

- 31 23 13 Subgrade Preparation
- 31 23 16 Excavation
- 31 23 16.13 Trenching
- 31 23 16.16 Structural Excavation for Minor Structures
- 31 23 16.26 Rock Removal
- 31 23 19 Dewatering
- 31 23 23 Fill
- 31 23 23.13 Backfill
- 31 23 23.23 Compaction
- 31 23 23.33 Flowable Fill
- 31 23 23.43 Geofoam
- 31 23 33 Trenching and Backfilling

### **31 24 00 Embankments**

- 31 24 13 Roadway Embankments
- 31 24 16 Railway Embankments

### **31 25 00 Erosion and Sedimentation Controls**

- 31 25 14 Stabilization Measures for Erosion and Sedimentation Control
- 31 25 14.13 Hydraulically-Applied Erosion Control
- 31 25 14.16 Rolled Erosion Control Mats and Blankets
- 31 25 24 Structural Measures for Erosion and Sedimentation Control
- 31 25 24.13 Rock Barriers
- 31 25 34 Retention Measures for Erosion and Sedimentation Controls
- 31 25 34.13 Rock Basins

## **31 30 00 Earthwork Methods**

### **31 31 00 Soil Treatment**

- 31 31 13 Rodent Control
- 31 31 13.16 Rodent Control Bait Systems
- 31 31 13.19 Rodent Control Traps
- 31 31 13.23 Rodent Control Electronic Systems
- 31 31 13.26 Rodent Control Repellants
- 31 31 16 Termite Control
- 31 31 16.13 Chemical Termite Control
- 31 31 16.16 Termite Control Bait Systems
- 31 31 16.19 Termite Control Barriers
- 31 31 19 Vegetation Control
- 31 31 19.13 Chemical Vegetation Control
- 31 31 33 Sanitary Vacuum System Piping

### **31 32 00 Soil Stabilization**

- 31 32 13 Soil Mixing Stabilization
- 31 32 13.13 Asphalt Soil Stabilization
- 31 32 13.16 Cement Soil Stabilization
- 31 32 13.19 Lime Soil Stabilization
- 31 32 13.23 Fly-Ash Soil Stabilization
- 31 32 13.26 Lime-Fly-Ash Soil Stabilization
- 31 32 16 Chemical Treatment Soil Stabilization
- 31 32 16.13 Polymer Emulsion Soil Stabilization
- 31 32 17 Water Injection Soil Stabilization
- 31 32 19 Geosynthetic Soil Stabilization and Layer Separation
- 31 32 19.13 Geogrid Soil Stabilization
- 31 32 19.16 Geotextile Soil Stabilization
- 31 32 19.19 Geogrid Layer Separation
- 31 32 19.23 Geotextile Layer Separation
- 31 32 23 Pressure Grouting Soil Stabilization
- 31 32 23.13 Cementitious Pressure Grouting Soil Stabilization
- 31 32 23.16 Chemical Pressure Grouting Soil Stabilization
- 31 32 33 Shotcrete Soil Slope Stabilization
- 31 32 36 Soil Nailing
- 31 32 36.13 Driven Soil Nailing
- 31 32 36.16 Grouted Soil Nailing

31 32 36.19	Corrosion-Protected Soil Nailing	31 37 16.16	Concrete Unit Masonry Riprap
31 32 36.23	Jet-Grouted Soil Nailing	31 37 16.19	Sacked Sand-Cement Riprap
31 32 36.26	Launched Soil Nailing	<b>31 40 00</b>	<b>Shoring and Underpinning</b>
<b>31 33 00</b>	<b>Rock Stabilization</b>	<b>31 41 00</b>	<b>Shoring</b>
31 33 13	Rock Bolting and Grouting	31 41 13	Timber Shoring
31 33 23	Rock Slope Netting	31 41 16	Sheet Piling
31 33 26	Rock Slope Wire Mesh	31 41 16.13	Steel Sheet Piling
31 33 33	Shotcrete Rock Slope Stabilization	31 41 16.16	Plastic Sheet Piling
31 33 43	Vegetated Rock Slope Stabilization	31 41 19	Metal Hydraulic Shoring
<b>31 34 00</b>	<b>Soil Reinforcement</b>	31 41 19.13	Aluminum Hydraulic Shoring
31 34 19	Geosynthetic Soil Reinforcement	31 41 23	Pneumatic Shoring
31 34 19.13	Geogrid Soil Reinforcement	31 41 33	Trench Shielding
31 34 19.16	Geotextile Soil Reinforcement	<b>31 43 00</b>	<b>Concrete Raising</b>
31 34 23	Fiber Soil Reinforcement	31 43 13	Pressure Grouting
31 34 23.13	Geosynthetic Fiber Soil Reinforcement	31 43 13.13	Concrete Pressure Grouting
<b>31 35 00</b>	<b>Slope Protection</b>	31 43 13.16	Polyurethane Pressure Grouting
31 35 19	Geosynthetic Slope Protection	31 43 16	Compaction Grouting
31 35 19.13	Geogrid Slope Protection	31 43 19	Mechanical Jacking
31 35 19.16	Geotextile Slope Protection	<b>31 45 00</b>	<b>Vibroflotation and Densification</b>
31 35 19.19	Slope Protection with Mulch Control Netting	31 45 13	Vibroflotation
31 35 23	Slope Protection with Slope Paving	31 45 16	Densification
31 35 23.13	Cast-In-Place Concrete Slope Paving	<b>31 46 00</b>	<b>Needle Beams</b>
31 35 23.16	Precast Concrete Slope Paving	31 46 13	Cantilever Needle Beams
31 35 23.19	Concrete Unit Masonry Slope Paving	<b>31 48 00</b>	<b>Underpinning</b>
31 35 26	Containment Barriers	31 48 13	Underpinning Piers
31 35 26.13	Clay Containment Barriers	31 48 19	Bracket Piers
31 35 26.16	Geomembrane Containment Barriers	31 48 23	Jacked Piers
31 35 26.23	Bentonite Slurry Trench	31 48 33	Micropile Underpinning
<b>31 36 00</b>	<b>Gabions</b>	<b>31 50 00</b>	<b>Excavation Support and Protection</b>
31 36 13	Gabion Boxes	<b>31 51 00</b>	<b>Anchor Tiebacks</b>
31 36 19	Gabion Mattresses	31 51 13	Excavation Soil Anchors
31 36 19.13	Vegetated Gabion Mattresses	31 51 16	Excavation Rock Anchors
<b>31 37 00</b>	<b>Riprap</b>	<b>31 52 00</b>	<b>Cofferdams</b>
31 37 13	Machined Riprap	31 52 13	Sheet Piling Cofferdams
31 37 16	Non-Machined Riprap	31 52 16	Timber Cofferdams
31 37 16.13	Rubble-Stone Riprap	31 52 19	Precast Concrete Cofferdams
		<b>31 53 00</b>	<b>Cribbing and Walers</b>
		31 53 13	Timber Cribwork

<b>31 54 00</b>	<b>Ground Freezing</b>		
<b>31 56 00</b>	<b>Slurry Walls</b>		
31 56 13	Bentonite Slurry Walls		
31 56 13.13	Soil-Bentonite Slurry Walls		
31 56 13.16	Cement-Bentonite Slurry Walls		
31 56 13.19	Slag-Cement-Bentonite Slurry Walls		
31 56 13.23	Soil-Cement-Bentonite Slurry Walls		
31 56 13.26	Pozzolan-Bentonite Slurry Walls		
31 56 13.29	Organically-Modified Bentonite Slurry Walls		
31 56 16	Attipulgite Slurry Walls		
31 56 16.13	Soil-Attipulgite Slurry Walls		
31 56 19	Slurry-Geomembrane Composite Slurry Walls		
31 56 23	Lean Concrete Slurry Walls		
31 56 26	Bio-Polymer Trench Drain		
<b>31 60 00</b>	<b>Special Foundations and Load-Bearing Elements</b>		
<b>31 62 00</b>	<b>Driven Piles</b>		
31 62 13	Concrete Piles		
31 62 13.13	Cast-in-Place Concrete Piles		
31 62 13.16	Concrete Displacement Piles		
31 62 13.19	Precast Concrete Piles		
31 62 13.23	Prestressed Concrete Piles		
31 62 13.26	Pressure-Injected Footings		
31 62 16	Steel Piles		
31 62 16.13	Sheet Steel Piles		
31 62 16.16	Steel H Piles		
31 62 16.19	Unfilled Tubular Steel Piles		
31 62 19	Timber Piles		
31 62 23	Composite Piles		
31 62 23.13	Concrete-Filled Steel Piles		
31 62 23.16	Wood and Cast-In-Place Concrete Piles		
<b>31 63 00</b>	<b>Bored Piles</b>		
31 63 13	Bored and Augered Test Piles		
31 63 16	Auger Cast Grout Piles		
31 63 19	Bored and Socketed Piles		
31 63 19.13	Rock Sockets for Piles		
31 63 23	Bored Concrete Piles		
31 63 23.13	Bored and Belled Concrete Piles		
31 63 23.16	Bored Friction Concrete Piles		
31 63 26	Drilled Caissons		
31 63 26.13	Fixed End Caisson Piles		
31 63 26.16	Concrete Caissons for Marine Construction		
31 63 29	Drilled Concrete Piers and Shafts		
31 63 29.13	Uncased Drilled Concrete Piers		
31 63 29.16	Cased Drilled Concrete Piers		
31 63 33	Drilled Micropiles		
<b>31 64 00</b>	<b>Caissons</b>		
31 64 13	Box Caissons		
31 64 16	Excavated Caissons		
31 64 19	Floating Caissons		
31 64 23	Open Caissons		
31 64 26	Pneumatic Caissons		
31 64 29	Sheeted Caissons		
<b>31 66 00</b>	<b>Special Foundations</b>		
31 66 13	Special Piles		
31 66 13.13	Rammed Aggregate Piles		
31 66 15	Helical Foundation Piles		
31 66 16	Special Foundation Walls		
31 66 16.13	Anchored Foundation Walls		
31 66 16.23	Concrete Cribbing Foundation Walls		
31 66 16.26	Metal Cribbing Foundation Walls		
31 66 16.33	Manufactured Modular Foundation Walls		
31 66 16.43	Mechanically Stabilized Earth Foundation Walls		
31 66 16.46	Slurry Diaphragm Foundation Walls		
31 66 16.53	Soldier-Beam Foundation Walls		
31 66 16.56	Permanently-Anchored Soldier-Beam Foundation Walls		
31 66 19	Refrigerated Foundations		
<b>31 68 00</b>	<b>Foundation Anchors</b>		
31 68 13	Rock Foundation Anchors		
31 68 16	Helical Foundation Anchors		
<b>31 70 00</b>	<b>Tunneling and Mining</b>		
<b>31 71 00</b>	<b>Tunnel Excavation</b>		
31 71 13	Shield Driving Tunnel Excavation		
31 71 16	Tunnel Excavation by Drilling and Blasting		

31 71 19	Tunnel Excavation by Tunnel Boring Machine	32 01 16.71	Cold Milling Asphalt Paving
31 71 23	Tunneling by Cut and Cover	32 01 16.72	Asphalt Paving Reuse
<b>31 72 00</b>	<b>Tunnel Support Systems</b>	32 01 16.73	In Place Cold Reused Asphalt Paving
31 72 13	Rock Reinforcement and Initial Support	32 01 16.74	In Place Hot Reused Asphalt Paving
31 72 16	Steel Ribs and Lagging	32 01 16.75	Heater Scarifying of Asphalt Paving
<b>31 73 00</b>	<b>Tunnel Grouting</b>	32 01 17	Flexible Paving Repair
31 73 13	Cement Tunnel Grouting	32 01 17.61	Sealing Cracks in Asphalt Paving
31 73 16	Chemical Tunnel Grouting	32 01 17.62	Stress-Absorbing Membrane Interlayer
<b>31 74 00</b>	<b>Tunnel Construction</b>	32 01 19	Rigid Paving Surface Treatment
31 74 13	Cast-in-Place Concrete Tunnel Lining	32 01 19.61	Sealing of Joints in Rigid Paving
31 74 16	Precast Concrete Tunnel Lining	32 01 19.62	Patching of Rigid Paving
31 74 19	Shotcrete Tunnel Lining	32 01 23	Base Course Reconditioning
<b>31 75 00</b>	<b>Shaft Construction</b>	32 01 26	Rigid Paving Rehabilitation
31 75 13	Cast-in-Place Concrete Shaft Lining	32 01 26.71	Grooving of Concrete Paving
31 75 16	Precast Concrete Shaft Lining	32 01 26.72	Grinding of Concrete Paving
<b>31 77 00</b>	<b>Submersible Tube Tunnels</b>	32 01 26.73	Milling of Concrete Paving
31 77 13	Trench Excavation for Submerged Tunnels	32 01 26.74	Concrete Overlays
31 77 16	Tube Construction (Outfitting Tunnel Tubes)	32 01 26.75	Concrete Paving Reuse
31 77 19	Floating and Laying Submerged Tunnels	32 01 29	Rigid Paving Repair
<b>32 00 00</b>	<b>Exterior Improvements</b>	32 01 29.61	Partial Depth Patching of Rigid Paving
<b>32 01 00</b>	<b>Operation and Maintenance of Exterior Improvements</b>	32 01 29.62	Concrete Paving Raising
32 01 11	Paving Cleaning	32 01 29.63	Subsealing and Stabilization
32 01 11.51	Rubber and Paint Removal From Paving	32 01 30	Operation and Maintenance of Site Improvements
32 01 11.52	Rubber Removal From Paving	32 01 30.13	Snow Removal
32 01 11.53	Paint Removal From Paving	32 01 80	Operation and Maintenance of Irrigation
32 01 13	Flexible Paving Surface Treatment	32 01 90	Operation and Maintenance of Planting
32 01 13.61	Slurry Seal (Latex Modified)	32 01 90.13	Fertilizing
32 01 13.62	Asphalt Surface Treatment	32 01 90.16	Amending Soils
32 01 16	Flexible Paving Rehabilitation	32 01 90.19	Mowing
		32 01 90.23	Pruning
		32 01 90.26	Watering
		32 01 90.29	Topsoil Preservation
		32 01 90.33	Tree and Shrub Preservation
		32 01 90.91	Perennials and Grasses Restoration
		<b>32 05 00</b>	<b>Common Work Results for Exterior Improvements</b>
		32 05 05	Selective Demolition for Exterior Improvements

32 05 13	Soils for Exterior Improvements	32 11 26.19	Bituminous-Stabilized Base Courses
32 05 16	Aggregates for Exterior Improvements	32 11 29	Lime Treated Base Courses
32 05 19	Geosynthetics for Exterior Improvements	32 11 29.13	Lime-Fly Ash-Treated Base Courses
32 05 19.13	Geotextiles for Exterior Improvements	32 11 33	Cement-Treated Base Courses
32 05 19.16	Geomembranes for Exterior Improvements	32 11 33.13	Portland Cement-Stabilized Base Courses
32 05 19.19	Geogrids for Exterior Improvements	32 11 36	Concrete Base Courses
32 05 23	Cement and Concrete for Exterior Improvements	32 11 36.11	Soil-Cement Concrete Base Courses
32 05 33	Common Work Results for Planting	32 11 36.13	Lean Concrete Base Courses
<b>32 06 00</b>	<b>Schedules for Exterior Improvements</b>	32 11 36.16	Plain Cement Concrete Base Courses
32 06 10	Schedules for Bases, Ballasts, and Paving	32 11 36.19	Hydraulic Cement Concrete Base Courses
32 06 10.13	Pedestrian Walkway Schedule	32 11 39	Shell Base Course
32 06 30	Schedules for Site Improvements	<b>32 12 00</b>	<b>Flexible Paving</b>
32 06 30.13	Retaining Wall Schedule	32 12 13	Preparatory Coats
32 06 80	Schedules for Irrigation	32 12 13.13	Tack Coats
32 06 80.13	Irrigation Piping Schedule	32 12 13.16	Asphaltic Tack Coats
32 06 90	Schedules for Planting	32 12 13.19	Prime Coats
32 06 90.13	Planting Schedule	32 12 13.23	Asphaltic Prime Coats
<b>32 08 00</b>	<b>Commissioning of Exterior Improvements</b>	32 12 16	Asphalt Paving
<b>32 10 00</b>	<b>Bases, Ballasts, and Paving</b>	32 12 16.13	Plant-Mix Asphalt Paving
<b>32 11 00</b>	<b>Base Courses</b>	32 12 16.16	Road-Mix Asphalt Paving
32 11 13	Subgrade Modifications	32 12 16.19	Cold-Mix Asphalt Paving
32 11 13.13	Lime-Treated Subgrades	32 12 16.23	Reinforced Asphalt Paving
32 11 13.16	Bituminous-Treated Subgrades	32 12 16.26	Fiber-Modified Asphalt Paving
32 11 16	Subbase Courses	32 12 16.29	Polymer-Modified Asphalt Paving
32 11 16.13	Sand-Clay Subbase Courses	32 12 16.33	Granulated Rubber-Modified Asphalt Paving
32 11 16.16	Aggregate Subbase Courses	32 12 16.36	Athletic Asphalt Paving
32 11 23	Aggregate Base Courses	32 12 19	Asphalt Paving Wearing Courses
32 11 23.13	Sand-Clay Base Courses	32 12 19.13	Road-Mix Asphalt Paving Wearing Courses
32 11 23.23	Base Course Drainage Layers	32 12 19.16	Resin-Modified Asphalt Paving Wearing Courses
32 11 26	Asphaltic Base Courses	32 12 19.19	Porous Friction Asphalt Paving Wearing Courses
32 11 26.13	Plant Mix Asphaltic Base Courses	32 12 33	Flexible Paving Surface Treatments
32 11 26.16	Road Mix Asphaltic Base Courses	32 12 36	Seal Coats
		32 12 36.13	Asphaltic Seal and Fog Coats
		32 12 36.16	Coal Tar Seal Coats
		32 12 36.19	Coal Tar Seal Coats with Unvulcanized Rubber

32 12 36.23	Fuel-Resistant Sealers	32 15 40	Crushed Stone Surfacing
32 12 43	Porous Flexible Paving	32 15 50	Aggregate-Turf Pavement
32 12 73	Asphalt Paving Joint Sealants	<b>32 16 00</b>	<b>Curbs, Gutters, Sidewalks, and Driveways</b>
<b>32 13 00</b>	<b>Rigid Paving</b>		
32 13 13	Concrete Paving	32 16 13	Curbs and Gutters
32 13 13.13	Exposed Aggregate Concrete Paving	32 16 13.13	Cast-In-Place Concrete Curbs and Gutters
32 13 13.16	Power-Compacted Concrete Paving	32 16 13.16	Steel Faced Curbs
32 13 13.17	Roller-Compacted Concrete Paving	32 16 13.23	Precast Concrete Curbs and Gutters
32 13 13.19	Prestressed Concrete Paving	32 16 13.33	Asphalt Curbs
32 13 13.23	Concrete Paving Surface Treatment	32 16 13.43	Stone Curbs
32 13 13.26	Stained Concrete Paving	32 16 23	Sidewalks
32 13 13.33	Plain Concrete Paving	32 16 33	Driveways
32 13 16	Decorative Concrete Paving	<b>32 17 00</b>	<b>Paving Specialties</b>
32 13 16.13	Patterned Concrete Paving	32 17 13	Parking Bumpers
32 13 16.19	Imprinted Concrete Paving	32 17 13.13	Metal Parking Bumpers
32 13 16.23	Stamped Concrete Paving	32 17 13.16	Plastic Parking Bumpers
32 13 43	Pervious Concrete Paving	32 17 13.19	Precast Concrete Parking Bumpers
32 13 73	Concrete Paving Joint Sealants	32 17 13.23	Rubber Parking Bumpers
32 13 73.13	Fuel-Resistant Concrete Paving Joint Sealants	32 17 13.26	Wood Parking Bumpers
32 13 73.16	Field-Molded Concrete Paving Joint Sealants	32 17 16	Manufactured Traffic-Calming Devices
32 13 73.19	Compression Concrete Paving Joint Sealants	32 17 23	Pavement Markings
<b>32 14 00</b>	<b>Unit Paving</b>	32 17 23.13	Painted Pavement Markings
32 14 13	Precast Concrete Unit Paving	32 17 23.23	Raised Pavement Markings
32 14 13.13	Interlocking Precast Concrete Unit Paving	32 17 23.33	Plastic Pavement Markings
32 14 13.16	Precast Concrete Unit Paving Slabs	32 17 26	Tactile Warning Surfacing
32 14 13.19	Porous Precast Concrete Unit Paving	32 17 29	Pavement Embedded Warning Lights
32 14 16	Brick Unit Paving	32 17 43	Pavement Snow Melting Systems
32 14 23	Asphalt Unit Paving	<b>32 18 00</b>	<b>Athletic and Recreational Surfacing</b>
32 14 26	Wood Paving	32 18 13	Synthetic Grass Surfacing
32 14 29	Rubber Paving	32 18 16	Synthetic Resilient Surfacing
32 14 33	Plastic Paving	32 18 16.13	Playground Protective Surfacing
32 14 33.13	Permeable Plastic Paving	32 18 23	Athletic Surfacing
32 14 40	Stone Paving	32 18 23.13	Baseball Field Surfacing
32 14 43	Porous Unit Paving	32 18 23.16	Natural Baseball Field Surfacing
<b>32 15 00</b>	<b>Aggregate Surfacing</b>	32 18 23.19	Synthetic Baseball Field Surfacing
32 15 13	Cinder Surfacing	32 18 23.23	Field Sport Surfacing
		32 18 23.26	Natural Field Sport Surfacing
		32 18 23.29	Synthetic Field Sport Surfacing

32 18 23.33	Running Track Surfacing	32 32 23.13	Segmental Concrete Unit Masonry Retaining Walls
32 18 23.36	Natural Running Track Surfacing	32 32 23.16	Manufactured Modular Walls
32 18 23.39	Synthetic Running Track Surfacing	32 32 26	Metal Crib Retaining Walls
32 18 23.43	Recreational Court Surfacing	32 32 29	Timber Retaining Walls
32 18 23.53	Tennis Court Surfacing	32 32 34	Reinforced Soil Retaining Walls
32 18 23.56	Natural Tennis Court Surfacing	32 32 36	Gabion Retaining Walls
32 18 23.59	Synthetic Tennis Court Surfacing	32 32 43	Soldier-Beam Retaining Walls
32 18 23.63	Equestrian Surfacing	32 32 53	Stone Retaining Walls
<b>32 30 00</b>	<b>Site Improvements</b>	<b>32 33 00</b>	<b>Site Furnishings</b>
<b>32 31 00</b>	<b>Fences and Gates</b>	32 33 13	Site Bicycle Racks
32 31 11	Gate Operators	32 33 14	Site Bicycle Lockers
32 31 13	Chain Link Fences and Gates	32 33 15	Site Bicycle Shelters
32 31 13.23	Recreational Court Fences and Gates	32 33 23	Site Trash and Litter Receptacles
32 31 13.26	Tennis Court Fences and Gates	32 33 33	Site Manufactured Planters
32 31 13.29	Tennis Court Wind Breaker	32 33 43	Site Seating and Tables
32 31 13.33	Chain Link Backstops	32 33 43.13	Site Seating
32 31 13.53	High-Security Chain Link Fences and Gates	32 33 43.53	Site Tables
32 31 16	Welded Wire Fences and Gates	<b>32 34 00</b>	<b>Fabricated Bridges</b>
32 31 17	Expanded Metal Fences and Gates	32 34 13	Fabricated Pedestrian Bridges
32 31 19	Decorative Metal Fences and Gates	32 34 23	Fabricated Roadway Bridges
32 31 19.53	Decorative Metal Security Fences and Gates	32 34 33	Fabricated Railway Bridges
32 31 23	Plastic Fences and Gates	<b>32 35 00</b>	<b>Screening Devices</b>
32 31 26	Wire Fences and Gates	32 35 13	Screens and Louvers
32 31 26.11	Wire Fences with Wood Posts	32 35 16	Sound Barriers
32 31 26.13	Wire Fences with Steel Posts	32 35 23	Fire Barriers
32 31 29	Wood Fences and Gates	32 35 26	Blast Barriers
32 31 32	Composite Fences and Gates	<b>32 39 00</b>	<b>Manufactured Site Specialties</b>
32 31 53	Cattle Guards	32 39 13	Manufactured Metal Bollards
32 31 56	Wild Life Deterrent Fence	32 39 13.11	Manufactured Metal Security Bollards
<b>32 32 00</b>	<b>Retaining Walls</b>	32 39 16	Manufactured Fire Pits
32 32 13	Cast-in-Place Concrete Retaining Walls	32 39 33	Artificial Rock Fabrications
32 32 16	Precast Concrete Retaining Walls	<b>32 70 00</b>	<b>Wetlands</b>
32 32 19	Unit Masonry Retaining Walls	<b>32 71 00</b>	<b>Constructed Wetlands</b>
32 32 23	Segmental Retaining Walls	<b>32 72 00</b>	<b>Wetlands Restoration</b>



<b>32 80 00</b>	<b>Irrigation</b>	32 94 43	Tree Grates
<b>32 81 00</b>	<b>Irrigation Components</b>	32 94 46	Tree Grids
32 81 13	Irrigation Intake Screens	<b>32 95 00</b>	<b>Exterior Planting Support Structures</b>
<b>32 82 00</b>	<b>Irrigation Pumps</b>	<b>32 96 00</b>	<b>Transplanting</b>
<b>32 84 00</b>	<b>Planting Irrigation</b>	32 96 13	Ground Cover Transplanting
32 84 13	Drip Irrigation	32 96 23	Plant and Bulb Transplanting
32 84 23	Underground Sprinklers	32 96 33	Shrub Transplanting
<b>32 86 00</b>	<b>Agricultural Irrigation</b>	32 96 43	Tree Transplanting
<b>32 90 00</b>	<b>Planting</b>	<b>33 00 00</b>	<b>Utilities</b>
<b>32 91 00</b>	<b>Planting Preparation</b>	<b>33 01 00</b>	<b>Operation and Maintenance of Utilities</b>
32 91 13	Soil Preparation	33 01 10	Operation and Maintenance of Water Utilities
32 91 13.13	Hydro-Punching	33 01 10.51	Water Utility Intake Cleaning and Maintenance
32 91 13.16	Mulching	33 01 10.52	Reservoir Maintenance
32 91 13.19	Planting Soil Mixing	33 01 10.53	Flushing of Water Utility Piping
32 91 13.23	Structural Soil Mixing	33 01 10.54	Cleaning of Water Utility Piping
32 91 13.26	Planting Beds	33 01 10.56	Cleaning of Water Utility Storage Tanks
32 91 16	Planting Soil Stabilization	33 01 10.57	Disinfection of Water Supply Wells
32 91 16.13	Blanket Planting Soil Stabilization	33 01 10.58	Disinfection of Water Utility Piping Systems
32 91 16.16	Mat Planting Soil Stabilization	33 01 10.59	Disinfection of Water Utility Storage Tanks
32 91 16.19	Netting Planting Soil Stabilization	33 01 10.81	Water Supply Well Abandonment
32 91 19	Landscape Grading	33 01 10.91	Rehabilitation of Water Supply Wells
32 91 19.13	Topsoil Placement and Grading	33 01 10.92	Redevelopment of Water Supply Wells
<b>32 92 00</b>	<b>Turf and Grasses</b>	33 01 12	Inspection and Testing of Water Utilities
32 92 13	Hydro-Mulching	33 01 12.11	Leakage Detection
32 92 16	Plugging	33 01 12.13	Electrical Continuity Testing
32 92 19	Seeding	33 01 30	Operation and Maintenance of Sewer Utilities
32 92 19.13	Mechanical Seeding	33 01 30.11	Television Inspection of Sewers
32 92 19.16	Hydraulic Seeding	33 01 30.13	Dye Testing of Sewers
32 92 23	Sodding	33 01 30.16	Smoke Testing
32 92 26	Sprigging	33 01 30.23	Pipe Bursting
32 92 26.13	Stolonizing	33 01 30.41	Cleaning of Sewers
<b>32 93 00</b>	<b>Plants</b>	33 01 30.42	Cleaning of Manholes
32 93 13	Ground Covers	33 01 30.43	Removal of Protruding Service Connection
32 93 23	Plants and Bulbs		
32 93 33	Shrubs		
32 93 43	Trees		
32 93 93	Exterior Artificial Plants		
<b>32 94 00</b>	<b>Planting Accessories</b>		
32 94 13	Landscape Edging		
32 94 16	Landscape Timbers		
32 94 19	Landscape Surfacing		
32 94 33	Planters		

33 01 30.44	Chemical Treatment of Roots in Sewer Lines	33 01 80.51	Communication Utility Visual Inspection
33 01 30.61	Packer Injection Grouting	33 01 80.52	Communication Utility Thermographic Surveys
33 01 30.72	Cured-in-place Pipe Lining	<b>33 05 00</b>	<b>Common Work Results for Utilities</b>
33 01 30.73	Cured-in-Place Point Repair		
33 01 30.74	Cured-in-Place Lateral Lining	33 05 04	Selective Demolition for Utilities
33 01 30.77	Cured-in-Place Lateral Shortliners	33 05 05	Buried Piping Installation
33 01 30.79	Fold-and-Form Pipe Lining	33 05 05.11	Installing Bell-and-Spigot Joints
33 01 30.81	Manhole Rehabilitation	33 05 05.13	Installing Push-on Joints
33 01 30.82	Epoxy Lining for Concrete Manholes	33 05 05.15	Installing Butt-and-Strap Joints
33 01 30.84	Manhole Inserts	33 05 05.16	Installing Mechanical Joints
33 01 30.86	Manhole Rim Adjustment	33 05 05.18	Installing Restrained Joints
33 01 34	Operation and Maintenance of Onsite Wastewater Disposal Systems	33 05 05.19	Fusing Joints
		33 05 05.31	Hydrostatic Testing
33 01 34.13	Septic Tank Solids Removal	33 05 05.33	Infiltration and Exfiltration Testing
33 01 34.14	Septic Tank Maintenance	33 05 05.36	Vacuum Testing
33 01 34.19	Septic Tank Abandonment	33 05 05.41	Air Testing
33 01 34.33	Maintenance of Onsite Sand Filters	33 05 05.43	Mandrel Testing
33 01 50	Operation and Maintenance of Hydrocarbon Utilities	33 05 05.46	Lamp Testing
33 01 50.53	Cleaning of Hydrocarbon Conveyance Piping	33 05 07	Trenchless Installation of Utility Piping
33 01 50.56	Cleaning of Hydrocarbon Storage Tanks	33 05 07.13	Utility Directional Drilling
33 01 50.73	Relining of Hydrocarbon Conveyance Piping	33 05 07.23	Utility Boring and Jacking
33 01 50.76	Relining of Steel Hydrocarbon Storage Tanks	33 05 07.24	Casing Piping for Utility Jacking
33 01 50.81	Hydrocarbon Well Abandonment	33 05 07.33	Tunnelling
33 01 50.91	Rehabilitation of Hydrocarbon Wells	33 05 07.36	Microtunnelling
33 01 60	Operation and Maintenance of Hydronic and Steam Energy Utilities	33 05 07.43	Utility Impact Molding
33 01 70	Operation and Maintenance of Electrical Utilities	33 05 07.53	Cable Trenching and Plowing
33 01 70.51	Electrical Utility Visual Inspection	33 05 09	Piping Specials for Utilities
33 01 70.52	Electrical Utility Thermographic Surveys	33 05 09.13	Couplings for Utility Piping
33 01 70.53	Electrical Utility Insulation Testing	33 05 09.23	Adapters for Utility Piping
33 01 70.54	Electrical Utility Insulating Oil/ Fluid Analysis	33 05 09.33	Thrust Restraint for Utility Piping
33 01 80	Operation and Maintenance of Communications Utilities	33 05 09.43	Tapping Sleeves and Saddles for Utility Piping
		33 05 11	Aluminum Utility Pipe
		33 05 12	Brass Utility Pipe
		33 05 16	Cast-Iron Utility Pipe
		33 05 17	Copper Utility Pipe and Tubing
		33 05 19	Ductile-Iron Utility Pipe
		33 05 21	High-Alloy Nickel Utility Pipe and Tubing
		33 05 23	Stainless Steel Utility Pipe and Tubing

33 05 23.13	Duplex and Super-Duplex Stainless Steel Utility Pipe	33 05 33.53	HDPE Gas Utility Pipe
33 05 23.23	300- and 400-Series Stainless Steel Utility Pipe	33 05 33.56	Medium-Density Polyethylene Gas Utility Pipe
33 05 23.33	Special-Fabrication Stainless Steel Utility Pipe and Tubing	33 05 33.63	HDPE Communication Duct
33 05 24	Steel Utility Pipe	33 05 36	Fiberglass-Reinforced Plastic Utility Pipe
33 05 24.13	Steel Pipe and Tubing for Air and Gas Service	33 05 36.13	Fiberglass-Reinforced Plastic Pipe for Utility Air, Gas, and Odor Service
33 05 24.23	Steel Pipe for Water Service	33 05 36.23	Fiberglass-Reinforced Plastic Pipe for Utility Liquid Service
33 05 24.26	Steel Pipe and Tubing for Utility Liquid Service	33 05 36.33	Fiberglass-Reinforced Plastic Pipe for Electrical Service
33 05 24.33	Steel Pipe for Bulk Materials Conveyance	33 05 37	Centrifugally Cast Fiberglass- Reinforced Polymer Mortar Utility Pipe
33 05 27	Corrugated Metal Utility Pipe	33 05 39	Concrete Pipe
33 05 27.13	Corrugated Metal Culvert Pipe	33 05 39.11	Concrete Pressure Pipe, Steel- Cylinder Type (AWWA C300)
33 05 27.23	Corrugated Metal Slotted Pipe	33 05 39.13	Prestressed Concrete Pressure Pipe, Steel-Cylinder Type (AWWA C301)
33 05 27.33	Corrugated Metal Culvert Arch Pipe	33 05 39.16	Reinforced Concrete Pressure Pipe, Non-cylinder Type (AWWA C302)
33 05 31	Thermoplastic Utility Pipe	33 05 39.17	Concrete Pressure Pipe, Bar- Wrapped Steel-Cylinder Type (AWWA C303)
33 05 31.11	Polyvinyl Chloride Gravity Sewer Pipe	33 05 39.23	Reinforced Concrete Low-Head Pressure Utility Pipe
33 05 31.13	Polyvinyl Chloride Pressure Pipe	33 05 39.33	Non-Reinforced Concrete Sewer and Culvert Pipe
33 05 31.16	Polyvinyl Chloride Pressure Pipe for Water Transmission and Distribution (AWWA C900)	33 05 39.36	Non-Reinforced Concrete Irrigation and Drainage Pipe
33 05 31.19	Fusible Polyvinyl Chloride Pipe	33 05 39.41	Reinforced Concrete Pipe for Sewers and Culverts
33 05 31.21	Ribbed Polyvinyl Chloride Gravity Pipe	33 05 39.43	Perforated Concrete Utility Pipe
33 05 31.23	Dual-Wall Polyvinyl Chloride Profile Pipe	33 05 39.46	Reinforced Concrete Elliptical Pipe for Sewers and Culverts
33 05 31.26	Polyvinyl Chloride Sleeve Pipe	33 05 39.49	Reinforced Concrete Box Sections for Sewers and Culverts
33 05 31.27	Polyvinyl Chloride Perforated Drainage Pipe	33 05 39.63	Concrete Pipe Closures
33 05 31.29	Polyvinyl Chloride Electrical Duct	33 05 39.66	Concrete Pipe Thrust Restraints
33 05 31.33	ABS Utility Pipe	33 05 39.69	Concrete Pipe Wall Fittings
33 05 31.43	Polypropylene Corrugated- Wall, Smooth Interior Utility Pipe	33 05 41	Vitrified Clay Utility Pipe
33 05 33	Polyethylene Utility Pipe	33 05 43	Ceramic Drainage Tile
33 05 33.13	Corrugated-Wall, Smooth Interior HDPE Gravity Pipe	33 05 46	Asbestos Cement Utility Pipe
33 05 33.23	Polyethylene Pressure Pipe and Tubing (AWWA C901 and AWWA C906)	33 05 61	Concrete Manholes
33 05 33.33	Corrugated, Perforated HDPE Drainage Pipe	33 05 63	Concrete Vaults and Chambers
33 05 33.36	Corrugated, Non-Perforated HDPE Drainage Pipe		

33 05 66	Concrete Distribution Chambers	33 08 40	Commissioning of Stormwater Utilities
33 05 69	Concrete Trenchways	33 08 50	Commissioning of Hydrocarbon Utilities
33 05 71	Cleanouts	33 08 60	Commissioning of Hydronic and Steam Energy Utilities
33 05 73	Polyethylene Manholes	33 08 70	Commissioning of Electrical Utilities
33 05 76	Fiberglass Manholes	33 08 80	Commissioning of Communications Utilities
33 05 77	Fiberglass Metering Manholes	<b>33 09 00</b>	<b>Instrumentation and Control for Utilities</b>
33 05 81	Metallic Castings for Utility Structures	33 09 01	Utility Meter Registers
33 05 83	Non-Metallic Accessories for Utility Structures	33 09 01.13	Mechanical Registers
33 05 93	Common Motor Requirements for Utilities	33 09 01.23	Pulse Registers
33 05 96	Vibration and Seismic Controls for Utilities	33 09 01.33	Encoder Registers
33 05 97	Identification and Signage for Utilities	33 09 02	Touch-based Utility Meter Reading Equipment
33 05 97.13	Signage for Utilities	33 09 03	Handheld Radio Frequency Utility Meter Reading Equipment
33 05 97.16	Markers for Utility Identification	33 09 04	Mobile Radio Frequency Utility Meter Reading Equipment
33 05 97.23	Underground Utility Warning Tape	33 09 05	Fixed-Network Radio Frequency Utility Meter Reading Equipment
33 05 97.33	Utility Identification Flags	33 09 06	Satellite Radio Frequency Utility Meter Reading Equipment
<b>33 06 00</b>	<b>Schedules for Utilities</b>	33 09 07	Power Line Communication Utility Meter Reading Equipment
33 06 05	Schedules for Utility Piping	33 09 08	Wireless Local Area Network Utility Meter Reading Equipment
33 06 10	Schedules for Water Utilities	33 09 09	Meter Data Acquisition and Hosting Software
33 06 30	Schedules for Sanitary Sewerage Utilities	33 09 10	Instrumentation and Control for Water Utilities
33 06 40	Schedules for Stormwater Utilities	33 09 30	Instrumentation and Control for Sanitary Sewerage Utilities
33 06 40.13	Stormwater Drainage System Schedules	33 09 40	Instrumentation and Control for Stormwater Utilities
33 06 50	Schedules for Hydrocarbon Utilities	33 09 50	Instrumentation and Control for Hydrocarbon Utilities
33 06 60	Schedules for Hydronic and Steam Energy Utilities		
33 06 70	Schedules for Electrical Utilities		
33 06 80	Schedules for Communications Utilities		
<b>33 08 00</b>	<b>Commissioning of Utilities</b>		
33 08 10	Commissioning of Water Utilities		
33 08 30	Commissioning of Sanitary Sewerage Utilities		

33 09 53	Leak Detection for Hydrocarbon Systems	33 12 43	Floats for Reservoir Floating Covers
33 09 60	Instrumentation and Control for Hydronic and Steam Energy Utilities	33 12 46	Appurtenances for Reservoir Floating Covers
33 09 70	Instrumentation and Control for Electrical Utilities	33 12 53	Reservoir Flexible Baffle Curtains
33 09 80	Instrumentation and Control for Communications Utilities	<b>33 14 00</b>	<b>Water Utility Transmission and Distribution</b>
<b>33 10 00</b>	<b>Water Utilities</b>	33 14 11	Water Utility Transmission Piping
<b>33 11 00</b>	<b>Groundwater Sources</b>	33 14 13	Public Water Utility Distribution Piping
33 11 11	Test Wells	33 14 16	Site Water Utility Distribution Piping
33 11 13	Potable Water Supply Wells	33 14 17	Site Water Utility Service Laterals
33 11 16	Irrigation Wells	33 14 19	Valves and Hydrants for Water Utility Service
33 11 19	Aquifer Recharging Wells	33 14 23	Enclosures for Water Utility Piping and Valves
33 11 33	Vertically Suspended Dry-Location Centrifugal Well Pumps	33 14 23.11	Heated, Insulated Aluminum Enclosures for Water Utility Piping and Valves
33 11 36	Submersible Centrifugal Well Pumps	33 14 23.13	Heated, Insulated Fiberglass Enclosures for Water Utility Piping and Valves
33 11 39	Jet-Type Well Pumps	33 14 23.16	Unheated, Insulated Aluminum Enclosures for Water Utility Piping and Valves
33 11 53	Monitoring Wells	33 14 23.17	Unheated, Insulated Fiberglass Enclosures for Water Utility Piping and Valves
<b>33 12 00</b>	<b>Surface Water Sources</b>	33 14 23.23	Fiberglass Artificial Rock Enclosures for Water Utility Piping and Valves
33 12 11	Intake Structure Systems	33 14 23.26	Plastic Artificial Rock Enclosures for Water Utility Piping and Valves
33 12 13	Intake Cribs	33 14 23.33	Enclosures for Water Utility Air Valves
33 12 16	Intake Drop and Riser Shafts	33 14 43	Packaged Pumping Systems for Water Utility Service
33 12 31	Reservoir Weight-tensioned, Defined Sump Floating Covers	<b>33 16 00</b>	<b>Water Utility Storage Tanks</b>
33 12 31.13	Reservoir Weight-tensioned, Defined Sump Polyethylene-reinforced Floating Covers	33 16 11	Elevated Composite Water Storage Tanks
33 12 31.23	Reservoir Weight-tensioned, Defined Sump Polypropylene-reinforced Floating Covers	33 16 13	Elevated Pillar-Type Steel Water Storage Tanks
33 12 33	Reservoir Mechanically-tensioned Floating Covers		
33 12 33.13	Reservoir Mechanically-tensioned Polyethylene-reinforced Floating Covers		
33 12 33.23	Reservoir Mechanically-tensioned Polypropylene-reinforced Floating Covers		
33 12 36	Reservoir Short-term Floating Covers		
33 12 39	Reservoir Ball Floating Covers		

33 16 16	Multi-Column Elevated Steel Water Storage Tanks	33 19 16.33	Propeller Water Meters
33 16 19	Elevated Spheroid Steel Water Storage Tanks	33 19 19	Compound Water Meters
33 16 23	Ground-Level Steel Water Storage Tanks	33 19 23	Magnetic Water Meters
33 16 31	Ground-Level AWWA D110 Type I Prestressed Concrete Water Storage Tanks	33 19 26	Ultrasonic Water Meters
33 16 32	Ground-Level AWWA D110 Type II Prestressed Concrete Water Storage Tanks	33 19 29	Pre-paid Water Meters
33 16 33	Ground-Level AWWA D110 Type III Prestressed Concrete Water Storage Tanks	<b>33 30 00</b>	<b>Sanitary Sewerage</b>
33 16 36	Ground-Level Reinforced Concrete Water Storage Tanks	<b>33 31 00</b>	<b>Sanitary Sewerage Piping</b>
33 16 53	Ground-Level Metal Water Storage Cisterns	33 31 11	Public Sanitary Sewerage Gravity Piping
33 16 56	Ground-Level Plastic Water Storage Cisterns	33 31 13	Site Sanitary Sewerage Gravity Piping
33 16 61	Underground Concrete Water Storage Cisterns	33 31 16	Site Sanitary Sewerage Gravity Service Laterals
33 16 63	Underground Non-Metallic Water Storage Cisterns	33 31 19	Small-Diameter Sanitary Sewerage Gravity Piping
33 16 66	Underground Plastic Modular Water Storage Cisterns	33 31 23	Sanitary Sewerage Force Main Piping
33 16 93	Water Storage Tank Interior Curtain Walls	33 31 26	Sanitary Pressure Sewer Piping
33 16 96	Water Storage Tank Appurtenances	33 31 29	STEP System Piping
<b>33 19 00</b>	<b>Water Utility Metering Equipment</b>	<b>33 32 00</b>	<b>Sanitary Sewerage Equipment</b>
33 19 13	Positive Displacement Water Meters	33 32 11	Field-Erected Wastewater Pumping Stations
33 19 13.13	Oscillating Piston Water Meters	33 32 13	Packaged Wastewater Pumping Stations
33 19 13.23	Nutating Disc Water Meters	33 32 16	Packaged Wastewater Grinder Pump Assemblies
33 19 16	Velocity-Type Water Meters	33 32 19	Septic Tank Effluent Pumps
33 19 16.13	Single-Jet Water Meters	33 32 26	Pneumatic Sewage Ejectors
33 19 16.16	Multi-Jet Water Meters	33 32 33	Wastewater Collection Vacuum Stations
33 19 16.23	Turbine Water Meters	33 32 36	Pneumatic Wastewater Vacuum Valve Sumps
33 19 16.26	Fire-Type Turbine Water Meters	<b>33 34 00</b>	<b>Onsite Wastewater Disposal</b>
33 19 16.29	Portable Fire Hydrant-Type Turbine Water Meters	33 34 13	Septic Tanks
		33 34 13.13	Concrete Septic Tanks
		33 34 13.23	Fiberglass Septic Tanks
		33 34 13.33	Polyethylene Septic Tanks
		33 34 16	Septic Tank Effluent Filters
		33 34 16.13	Septic Tank Gravity Effluent Filters
		33 34 16.16	Septic Tank Pressurized Effluent Filters

33 34 19	Septic Tank Accessories	33 37 36	Vortex-Type Hydrodynamic Separators
33 34 23	Onsite Aerobic Equipment	33 37 43	Netting Systems
33 34 33	Onsite Intermittent Wastewater Filtration Systems	33 37 46	End-of-Pipe In-water Storage Systems
33 34 36	Onsite Recirculating Wastewater Filtration Systems	<b>33 40 00</b>	<b>Stormwater Utilities</b>
33 34 51	Drainage Field System	<b>33 41 00</b>	<b>Subdrainage</b>
33 34 53	Distribution Chambers	33 41 13	Foundation Drainage
33 34 53.13	Drainage Field Concrete Distribution Chambers	33 41 13.13	Foundation Drainage Piping
33 34 53.23	Drainage Field Fiberglass Distribution Chambers	33 41 13.16	Geocomposite Foundation Drainage
33 34 53.33	Drainage Field Polyethylene Distribution Chambers	33 41 16	Subdrainage Piping
33 34 56	Drainage Field Dosing Chambers	33 41 16.16	Geocomposite Subdrainage
33 34 57	Drainage Field Infiltration Chambers	33 41 16.19	Pipe Underdrains
<b>33 36 00</b>	<b>Wastewater Utility Storage Tanks</b>	33 41 19	Underslab Drainage
33 36 23	Ground-Level Steel Wastewater Storage Tanks	33 41 19.13	Underslab Drainage Piping
33 36 31	Ground-Level AWWA D110 Type I Prestressed Concrete Wastewater Storage Tanks	33 41 19.16	Geocomposite Underslab Drainage
33 36 32	Ground-Level AWWA D110 Type II Prestressed Concrete Wastewater Storage Tanks	33 41 23	Drainage Layers
33 36 33	Ground-Level AWWA D110 Type III Prestressed Concrete Wastewater Storage Tanks	33 41 23.16	Gravel Drainage Layers
33 36 36	Ground-Level Reinforced Concrete Wastewater Storage Tanks	33 41 23.19	Geosynthetic Drainage Layers
33 36 43	Underground Reinforced Concrete Wastewater Storage Tanks	33 41 33	Retaining Wall Drainage
33 36 53	Wastewater Storage Tunnel Systems	33 41 43	Synthetic-Media French Drains
<b>33 37 00</b>	<b>Overflow Control</b>	<b>33 42 00</b>	<b>Stormwater Conveyance</b>
33 37 13	Bending Weirs	33 42 11	Stormwater Gravity Piping
33 37 16	Spring-loaded Weirs	33 42 13	Stormwater Culverts
33 37 23	Flow Regulators	33 42 16	Stormwater Force Main Piping
33 37 33	Swirl Concentrators	33 42 23	Headwalls and Endwalls for Stormwater Piping
		33 42 26	End Sections for Stormwater Piping
		33 42 26.11	Aluminum End Sections for Stormwater Piping
		33 42 26.13	Steel End Sections for Stormwater Piping
		33 42 26.16	Corrugated Metal End Sections for Stormwater Piping
		33 42 26.23	Concrete End Sections for Stormwater Piping
		33 42 31	Stormwater Area Drains and Inlets
		33 42 33	Stormwater Curbside Drains and Inlets
		33 42 36	Stormwater Trench Drains

33 42 41	Gratings and Frames for Stormwater Drainage Inlets	33 46 16.23	Stormwater Pond Fiberglass Outlet Structures
33 42 41.11	Aluminum Gratings and Frames for Stormwater Drainage Inlets	33 46 23	Modular Buried Stormwater Storage Units
33 42 41.21	Brass Gratings and Frames for Stormwater Drainage Inlets	33 46 39	Rain Barrels
33 42 41.31	Cast-Iron Gratings and Frames for Stormwater Drainage Inlets	33 46 53	Stormwater Leaching Pits
33 42 41.41	Chrome Gratings and Frames for Stormwater Drainage Inlets	33 46 56	Tree Box Filters
33 42 41.51	Steel Gratings and Frames for Stormwater Drainage Inlets	33 46 59	Concrete Modular Biofiltration Cells
33 42 41.61	Fiberglass Gratings and Frames for Stormwater Drainage Inlets	33 46 63	Swale Protection Prefilters
<b>33 44 00</b>	<b>Stormwater Utility Equipment</b>	<b>33 50 00</b>	<b>Hydrocarbon Utilities</b>
33 44 11	Field-Erected Stormwater Pumping Stations	<b>33 51 00</b>	<b>Hydrocarbon Sources</b>
33 44 13	Packaged Stormwater Pumping Stations	33 51 13	Appraisal Wells for Liquid Hydrocarbons
33 44 21	Stormwater Downspout Filters	33 51 16	Appraisal Wells for Gaseous Hydrocarbons
33 44 23	Inline Stormwater Filters	33 51 23	Production Wells for Liquid Hydrocarbons
33 44 26	Stormwater Catch Basin Insert Filters	33 51 26	Production Wells for Gaseous Hydrocarbons
33 44 27	Stormwater Trench Drain Insert Filters	33 51 33	Liquid Injection Wells
33 44 31	Stormwater Membrane Filtration	33 51 36	Gas Injection Wells
33 44 33	Stormwater Trash and Debris Guards	33 51 39	Monitoring Wells
33 44 36	Oil and Stormwater Separators	33 51 53	Reciprocating Pumpjack
33 44 43	Vortex-Type Hydrodynamic Separators	33 51 56	Submersible Liquid Hydrocarbon Pumps
33 44 53	Stormwater Area Drainage Pop-up Relief Valves	<b>33 52 00</b>	<b>Hydrocarbon Transmission and Distribution</b>
<b>33 46 00</b>	<b>Stormwater Management</b>	33 52 13	Liquid Hydrocarbon Piping
33 46 11	Stormwater Ponds	33 52 16	Gas Hydrocarbon Piping
33 46 11.13	Stormwater Detention Ponds	33 52 16.13	Steel Natural Gas Piping
33 46 11.23	Stormwater Retention Ponds	33 52 16.23	Medium Density Polyethylene Piping for Natural Gas
33 46 11.33	Fire Protection Ponds	33 52 16.26	High Density Polyethylene Piping for Natural Gas
33 46 11.43	Cooling Water Ponds	33 52 19	Hydrocarbon Piping Handling
33 46 16	Outlet Structures for Stormwater Ponds	33 52 19.13	Hydrocarbon Piping Stringing, Storing, and Stacking
33 46 16.13	Stormwater Pond Concrete Outlet Structures	33 52 23	Hydrocarbon Piping Welding
		33 52 23.13	Liquid Hydrocarbon Piping Welding
		33 52 23.16	Gas Hydrocarbon Piping Welding
		33 52 26	Hydrocarbon Piping Pigging



33 52 26.13	Hydrocarbon Piping Pig Launchers	33 56 33.13	Double-Wall Metallic Underground Hydrocarbon Storage Tanks
33 52 26.16	Hydrocarbon Piping Pig Receivers	33 56 33.23	Single-Wall Metallic Underground Hydrocarbon Storage Tanks
33 52 26.23	Pigs for Hydrocarbon Piping	33 56 33.26	Single-Wall Non-Metallic Underground Hydrocarbon Storage Tanks
<b>33 53 00</b>	<b>Hydrocarbon Utility Pressure Regulation</b>	33 56 33.29	Double-Wall Non-Metallic Underground Hydrocarbon Storage Tanks
33 53 13	Liquid Hydrocarbon Pressure Regulation	33 56 33.43	Underground Hydrocarbon Storage Caverns
33 53 16	Gas Hydrocarbon Pressure Regulation	33 56 43	Aviation Fuel Storage Tanks
<b>33 54 00</b>	<b>Hydrocarbon Utility Safety Equipment</b>	33 56 43.13	Ground-Level Aviation Fuel Storage Tanks
33 54 13	Liquid Hydrocarbon Leak Detection Equipment	33 56 43.53	Underground Aviation Fuel Storage Tanks
33 54 16	Gas Hydrocarbon Leak Detection Equipment	33 56 53	Compressed Gaseous Hydrocarbon Storage Tanks
33 54 23	Hydrocarbon Pipeline Venting	33 56 60	Moveable Hydrocarbon Storage Tanks
33 54 23.13	Liquid Hydrocarbon Pipeline Venting	33 56 93	Hydrocarbon Tank Linings
33 54 23.16	Gas Hydrocarbon Pipeline Venting	33 56 96	Hydrocarbon Storage Tank Appurtenances
<b>33 56 00</b>	<b>Hydrocarbon Storage</b>	<b>33 57 00</b>	<b>Bulk Hydrocarbons Receiving/Dispensing Equipment</b>
33 56 13	Aboveground Hydrocarbon Storage Tanks	<b>33 59 00</b>	<b>Hydrocarbon Utility Metering</b>
33 56 21	Ground-Level Fixed Roof Hydrocarbon Storage Tanks	33 59 11	Diaphragm/Bellows Hydrocarbons Meters
33 56 21.13	Double-Wall Ground-Level Fixed Roof Metallic Hydrocarbon Storage Tanks	33 59 13	Hydrocarbons Rotary Meters
33 56 21.16	Single-Wall Ground-Level Fixed Roof Metallic Hydrocarbon Storage Tanks	33 59 16	Hydrocarbons Turbine Meters
33 56 21.23	Single-Wall Ground-Level Fixed Roof Non-Metallic Hydrocarbon Storage Tanks	33 59 19	Hydrocarbons Orifice Meters
33 56 21.26	Double-Wall Ground-Level Fixed Roof Non-Metallic Hydrocarbon Storage Tanks	33 59 23	Hydrocarbons Ultrasonic Flow Meters
33 56 23	Ground-Level External Floating Roof Hydrocarbon Storage Tanks	33 59 26	Hydrocarbons Coriolis Meters
33 56 26	Ground-Level Internal Floating Roof Hydrocarbon Storage Tanks	33 59 43	Liquid Hydrocarbon Sampling and Quality Analysis Instrumentation
33 56 33	Underground Hydrocarbon Storage	33 59 46	Gas Hydrocarbon Sampling and Quality Analysis Instrumentation

<b>33 60 00</b>	<b>Hydronic and Steam Energy Utilities</b>		
<b>33 61 00</b>	<b>Hydronic Energy Distribution</b>		
33 61 13	Buried Hydronic Energy Distribution	33 71 19.13	Electrical Manholes and Handholes
33 61 23	Ground-Level Hydronic Energy Distribution	33 71 19.23	Trenched Electrical Underground Duct and Ductbanks
33 61 27	Prefabricated Energy Distribution	33 71 19.33	Trenchless Electrical Underground Duct and Ductbanks
33 61 29	Pre-Engineered, Field-Assembled Energy Distribution	33 71 23	Insulators and Fittings
33 61 33	Hydronic Energy Distribution Metering	33 71 23.13	Suspension Insulators
<b>33 63 00</b>	<b>Steam Energy Distribution</b>	33 71 23.16	Post Insulators
33 63 13	Underground Steam and Condensate Distribution Piping	33 71 23.23	Potheads
33 63 13.13	Shallow-Trench Steam Distribution Piping	33 71 26	Transmission and Distribution Equipment
33 63 13.16	Utilidor Steam Distribution Piping	33 71 26.13	Capacitor Banks
33 63 23	Ground-Level Steam and Condensate Distribution Piping	33 71 26.16	Coupling Capacitors
33 63 33	Steam Energy Distribution Metering	33 71 26.23	Current Transformers
<b>33 70 00</b>	<b>Electrical Utilities</b>	33 71 26.26	Potential Transformers
<b>33 71 00</b>	<b>Electrical Utility Transmission and Distribution</b>	33 71 36	Extra-High-Voltage Transmission Wiring
33 71 13	Electrical Utility Towers	33 71 36.13	Overhead Extra-High-Voltage Transmission Wiring
33 71 13.13	Precast Concrete Electrical Utility Towers	33 71 39	High-Voltage Transmission Wiring
33 71 13.23	Steel Electrical Utility Towers	33 71 39.13	Overhead High-Voltage Transmission Wiring
33 71 13.33	Wood Electrical Utility Towers	33 71 39.23	Underground High-Voltage Transmission Wiring
33 71 16	Electrical Poles	33 71 39.33	Underwater High-Voltage Transmission Wiring
33 71 16.13	Precast Concrete Electrical Utility Poles	33 71 49	Medium-Voltage Transmission Wiring
33 71 16.23	Steel Electrical Utility Poles	33 71 49.13	Overhead Medium-Voltage Transmission Wiring
33 71 16.33	Wood Electrical Utility Poles	33 71 49.23	Underground Medium-Voltage Transmission Wiring
33 71 19	Electrical Underground Ducts, Ductbanks, And Manholes	33 71 49.33	Underwater Medium-Voltage Transmission Wiring
		33 71 53	Direct-Current Transmission
		33 71 73	Electrical Utility Services
		33 71 83	Transmission and Distribution Specialties
		<b>33 72 00</b>	<b>Utility Substations</b>
		33 72 13	Deadend Structures
		33 72 23	Structural Bus Supports
		33 72 23.13	Bus Support Insulators
		33 72 26	Substation Bus Assemblies
		33 72 26.13	Aluminum Substation Bus Assemblies

33 72 26.16	Copper Substation Bus Assemblies	<b>33 75 00</b>	<b>High-Voltage Switchgear and Protection Devices</b>
33 72 33	Control House Equipment	33 75 13	Air High-Voltage Circuit Breaker
33 72 33.13	Relays	33 75 16	Oil High-Voltage Circuit Breaker
33 72 33.16	Substation Control Panels	33 75 19	Gas High-Voltage Circuit Breaker
33 72 33.23	Power-Line Carriers	33 75 23	Vacuum High-Voltage Circuit Breaker
33 72 33.26	Substation Metering	33 75 30	High-Voltage Disconnect Switch
33 72 33.43	Substation DC Supply	33 75 36	High-Voltage Utility Fuses
33 72 43	Substation Control Wiring	33 75 39	High-Voltage Surge Arresters
33 72 53	Shunt Reactors	33 75 40	High-Voltage Rod Gap
33 72 63	Substation Disconnect Switches	<b>33 77 00</b>	<b>Medium-Voltage Utility Switchgear and Protection Devices</b>
33 72 63.13	Vertical Break Disconnect Switches	33 77 13	Air Medium-Voltage Circuit Breaker
33 72 63.16	Double End Break Disconnect Switches	33 77 16	Oil Medium-Voltage Circuit Breaker
33 72 63.19	Double End Break "Vee" Disconnect Switches	33 77 19	Gas Medium-Voltage Circuit Breaker
33 72 63.21	Center Break Disconnect Switches	33 77 23	Vacuum Medium-Voltage Circuit Breaker
33 72 63.23	Center Break "Vee" Disconnect Switches	33 77 26	Medium-Voltage Utility Fusible Interrupter Switchgear
33 72 63.26	Single Side Break Disconnect Switches	33 77 30	Medium-Voltage Disconnect Switch
33 72 63.27	Vertical Reach Disconnect Switches	33 77 33	Medium-Voltage Utility Cutouts
33 72 63.29	Grounding for Substation Disconnect Switches	33 77 36	Medium-Voltage Utility Fuses
33 72 63.31	Hook Sticks	33 77 39	Medium-Voltage Utility Surge Arresters
<b>33 73 00</b>	<b>Utility Transformers</b>	33 77 40	Medium-Voltage Rod Gap
33 73 13	Liquid-Filled Utility Transformers	33 77 53	Medium-Voltage Utility Reclosers
33 73 23	Dry-Type Utility Transformers	<b>33 78 00</b>	<b>Substation Converter Stations</b>
<b>33 74 00</b>	<b>Extra High Voltage (EHV) Switchgear and protection devices</b>	<b>33 79 00</b>	<b>Site Grounding</b>
33 74 13	Air EHV Circuit Breaker	33 79 13	Site Improvement Grounding
33 74 16	Oil EHV Circuit Breaker		
33 74 19	Gas EHV Circuit Breaker		
33 74 30	EHV Disconnect Switch		
33 74 36	EHV Utility Fuses		
33 74 39	EHV Surge Arresters		
33 74 40	EHV Rod Gap		
33 74 43	EVH Shunt Reactors		
33 74 43.13	EHV Shunt Reactor Banks		
33 74 43.16	EHV Current Limiting Reactors		

33 79 13.13	Fence Grounding	33 82 13.13	Copper Splicing and Terminations
33 79 16	Tower Grounding	33 82 23	Optical Fiber Communications Transmission and Distribution Cabling
33 79 16.13	Communications Tower Grounding	33 82 23.13	Optical Fiber Splicing and Terminations
33 79 16.16	Antenna Tower Grounding	33 82 33	Coaxial Communications Transmission and Distribution Cabling
33 79 19	Utilities Grounding	33 82 33.13	Coaxial Splicing and Terminations
33 79 19.13	Electrical Utilities Grounding	33 82 43	Grounding and Bonding for Communications Transmission and Distribution
33 79 19.16	Communications Utilities Grounding	33 82 46	Cable Pressurization Equipment
33 79 23	Utility Substation Grounding	33 82 53	Cleaning, Lubrication, and Restoration Chemicals
33 79 83	Site Grounding Conductors	33 82 63	Shelter Equipment
33 79 93	Site Lightning Protection	33 82 63.13	Transceivers
33 79 93.13	Lightning Arrestors	33 82 63.16	Control Panels
33 79 93.16	Lightning Strike Counters	33 82 63.23	Power-Line Carriers
33 79 93.19	Lightning Strike Warning Devices	33 82 63.43	Backup Batteries
<b>33 80 00</b>	<b>Communications Utilities</b>	<b>33 83 00</b>	<b>Wireless Communications Transmission and Distribution</b>
<b>33 81 00</b>	<b>Communications Structures</b>	33 83 13	Laser Transmitters and Receivers
33 81 13	Monopole Communications Towers	33 83 16	Microwave Transmitters and Receivers
33 81 16	Lattice Communications Towers	33 83 17	Microwave Antennas
33 81 19	Guyed Communications Towers	33 83 17.13	Microwave Waveguides
33 81 21	Concealed Communications Towers	33 83 19	Infrared Transmitters and Receivers
33 81 23	Broadcast Communications Towers	33 83 23	Radio Antennas
33 81 27	Aerial Cable Installation Hardware	<b>34 00 00</b>	<b>Transportation</b>
33 81 29	Communications Vaults, Pedestals, and Enclosures	<b>34 01 00</b>	<b>Operation and Maintenance of Transportation</b>
33 81 63	Cell Site Shelter Equipment	34 01 13	Operation and Maintenance of Roadways
33 81 63.16	DC Rectifiers	34 01 23	Operation and Maintenance of Railways
33 81 63.19	Backup Batteries		
33 81 63.23	Baseband Microwave Processing		
33 81 63.26	Base Station Transceivers		
33 81 63.43	Remote Monitoring		
<b>33 82 00</b>	<b>Communications Transmission and Distribution</b>		
33 82 13	Copper Communications Transmission and Distribution Cabling		

34 01 23.13	Track Removal and Salvage	34 11 26.13	Track Rail Ballast
34 01 23.81	Track Crosstie Replacement	34 11 26.16	Track Rail Subballast
34 01 33	Operation and Maintenance of Airfields	34 11 29	Embedded Track Rail
34 01 43	Operation and Maintenance of Bridges	34 11 33	Track Cross Ties
<b>34 05 00</b>	<b>Common Work Results for Transportation</b>	34 11 33.13	Concrete Track Cross Ties
34 05 05	Selective Demolition for Transportation	34 11 33.16	Timber Track Cross Ties
34 05 13	Common Work Results for Roadways	34 11 33.19	Resilient Track Cross Ties
34 05 23	Common Work Results for Railways	34 11 36	Track Rail Fasteners
34 05 33	Common Work Results for Airports	34 11 36.13	Direct-Fixation Fasteners
34 05 43	Common Work Results for Bridges	34 11 39	Track Collector Pans
<b>34 06 00</b>	<b>Schedules for Transportation</b>	34 11 39.13	Fiberglass Track Collector Pans
34 06 13	Schedules for Roadways	34 11 93	Track Appurtenances and Accessories
34 06 23	Schedules for Railways	<b>34 12 00</b>	<b>Monorails</b>
34 06 33	Schedules for Airfields	34 12 13	Elevated Monorails
34 06 43	Schedules for Bridges	34 12 16	On-Grade Monorails
<b>34 08 00</b>	<b>Commissioning of Transportation</b>	34 12 19	Below-Grade Monorails
34 08 13	Commissioning of Roadways	34 12 23	Maglev Monorail
34 08 23	Commissioning of Railways	34 12 63	Monorail Track
34 08 33	Commissioning of Airfields	<b>34 13 00</b>	<b>Funiculars</b>
34 08 43	Commissioning of Bridges	34 13 13	Inclined Railway
<b>34 10 00</b>	<b>Guideways/Railways</b>	<b>34 14 00</b>	<b>Cable Transportation</b>
<b>34 11 00</b>	<b>Rail Tracks</b>	34 14 13	Aerial Tramways
34 11 13	Track Rails	34 14 19	Gondolas
34 11 13.13	Light Rail Track	34 14 26	Funitels
34 11 13.23	Heavy Rail Track	34 14 33	Chairlifts
34 11 16	Welded Track Rails	34 14 39	Surface Lifts
34 11 16.13	In-Track Butt-Welded Track Rail	34 14 46	Ropeway Tows
34 11 16.16	Pressure-Welded Track Rail	34 14 53	Cable Car Systems
34 11 16.19	Thermite-Welded Track Rail	<b>34 20 00</b>	<b>Traction Power</b>
34 11 19	Track Rail Joints	<b>34 21 00</b>	<b>Traction Power Distribution</b>
34 11 23	Special Trackwork	34 21 13	High Power Static Frequency Converters
34 11 23.13	Ballasted Special Track Rail	34 21 16	Traction Power Substations
34 11 23.16	Direct-Fixation Track	34 21 16.13	AC Traction Power Substations
34 11 23.23	Running Rail	34 21 16.16	DC Traction Power Substations
34 11 23.26	Precurved Running Rail	34 21 19	Traction Power Switchgear
34 11 26	Ballasted Track Rail	34 21 19.13	AC Traction Power Switchgear
		34 21 19.16	DC Traction Power Switchgear
		34 21 19.23	Frequency Changer
		34 21 23	Traction Power Transformer-Rectifier Units

<b>34 23 00</b>	<b>Overhead Traction Power</b>	<b>34 43 00</b>	<b>Airfield Signaling and Control Equipment</b>
34 23 13	Traction Power Poles	34 43 13	Airfield Signals and Lighting
34 23 16	Overhead Cable Suspension	34 43 13.09	Airport Rotating Beacons
34 23 23	Overhead Traction Power Cables	34 43 13.10	Hazard Beacons
<b>34 24 00</b>	<b>Third Rail Traction Power</b>	34 43 13.11	Airport Beacon Towers
34 24 13	Bottom-Contact Third Rail	34 43 13.12	Airport Obstruction Lights
34 24 16	Side-Contact Third Rail	34 43 13.13	Airfield Runway Identification Lights
34 24 19	Top-Contact Third Rail	34 43 13.16	Airfield Runway and Taxiway Inset Lighting
<b>34 40 00</b>	<b>Transportation Signaling and Control Equipment</b>	34 43 13.19	Adhesive for Inset Lighting and Wiring
<b>34 41 00</b>	<b>Roadway Signaling and Control Equipment</b>	34 43 13.23	Airfield Short-Approach Lighting Equipment
34 41 13	Traffic Signals	34 43 13.26	Airfield Omni-Directional-Approach Lighting Equipment
34 41 16	Traffic Control Equipment	34 43 13.29	Airfield Low-Intensity-Approach Lighting Equipment
34 41 23	Roadway Monitoring Equipment	34 43 13.33	Airfield High-Intensity-Approach Lighting Equipment
34 41 33	In Roadway Warning Lights	34 43 13.36	Airfield Precision-Approach Path Indicator Equipment
<b>34 42 00</b>	<b>Railway Signaling and Control Equipment</b>	34 43 16	Airfield Landing Equipment
34 42 13	Railway Signals	34 43 16.13	Microwave Airfield Landing Equipment
34 42 13.13	General Railway Signal Requirements	34 43 16.16	Instrument Airfield Landing Equipment
34 42 13.16	Signal Solid State Coded Track Circuits	34 43 16.19	Airfield Visual-Approach Slope Indicator Equipment
34 42 16	Train Control Wires and Cables	34 43 19	Airfield Traffic Control Tower Equipment
34 42 19	Vital Interlocking Logic Controllers	34 43 23	Weather Observation Equipment
34 42 23	Railway Control Equipment	34 43 23.13	Automatic Weather Observation Equipment
34 42 23.13	Mainline Train Control Room Equipment	34 43 23.16	Airfield Wind Cones
34 42 23.16	Yard Train Control Room Equipment	34 43 26	Airfield Control Equipment
34 42 23.19	Integrated Control Equipment	34 43 26.13	Airfield Lighting Control Equipment
34 42 23.23	Interlocking Railway Control Equipment	34 43 26.16	Airfield Lighting PLC Control Equipment
34 42 26	Rail Network Equipment	34 43 26.19	Airfield Lighting Regulator Assembly
34 42 29	Station Agent Equipment	<b>34 48 00</b>	<b>Bridge Signaling and Control Equipment</b>
34 42 33	Yard Management Equipment	34 48 13	Operating Bridge Signals
34 42 36	Supervisory Control and Data Acquisition	34 48 16	Operating Bridge Control Equipment

<b>34 50 00</b>	<b>Transportation Fare Collection Equipment</b>	<b>34 73 00</b>	<b>Airfield Construction</b>
<b>34 52 00</b>	<b>Vehicle Fare Collection</b>	34 73 13	Aircraft Tiedowns
34 52 16	Vehicle Ticketing Equipment	34 73 16	Airfield Grounding
34 52 16.13	Vehicle Ticket Vending Machines	34 73 16.13	Aircraft Static Grounding
34 52 26	Vehicle Fare Collection Equipment	34 73 19	Jet Blast Barriers
34 52 26.13	Vehicle Coin Fare Collection Equipment	34 73 23	Manufactured Airfield Control Towers
34 52 26.16	Vehicle Electronic Fare Collection Equipment	34 73 26	Manufactured Helipads
34 52 33	Vehicle Fare Gates	<b>34 75 00</b>	<b>Roadway Equipment</b>
<b>34 54 00</b>	<b>Passenger Fare Collection</b>	34 75 13	Operable Roadway Equipment
34 54 16	Passenger Ticketing Equipment	34 75 13.13	Active Vehicle Barriers
34 54 16.13	Passenger Ticket Vending Machines	<b>34 76 00</b>	<b>Railway Equipment</b>
34 54 16.16	Passenger Addfare Machines	34 76 13	Roadway Crossing Control Equipment
34 54 16.23	Passenger Intermodal Transfer Machines	<b>34 77 00</b>	<b>Transportation Equipment</b>
34 54 26	Passenger Fare Collection Equipment	34 77 13	Passenger Boarding Bridges
34 54 26.13	Passenger Coin Fare Collection Equipment	34 77 13.13	Fixed Aircraft Passenger Boarding Bridges
34 54 26.16	Passenger Electronic Fare Collection Equipment	34 77 13.16	Movable Aircraft Passenger Boarding Bridges
34 54 33	Passenger Fare Gates	34 77 13.23	Ship Passenger Boarding Bridges
<b>34 70 00</b>	<b>Transportation Construction and Equipment</b>	34 77 33	Baggage Scanning Equipment
<b>34 71 00</b>	<b>Roadway Construction</b>	34 77 36	Baggage Scales
34 71 13	Vehicle Barriers	34 77 39	Baggage Conveying Equipment
34 71 13.13	Vehicle Median Barriers	<b>34 78 00</b>	<b>Weighing Equipment</b>
34 71 13.16	Vehicle Crash Barriers	34 78 13	Truck Scales
34 71 13.19	Vehicle Traffic Barriers	34 78 16	Weighbridges
34 71 13.26	Vehicle Guide Rails	34 78 23	Railroad Car Scales
34 71 13.29	Vehicle Barrier Fenders	34 78 33	Crane Scales
34 71 16	Impact Attenuating Devices	<b>34 80 00</b>	<b>Bridges</b>
34 71 19	Vehicle Delineators	<b>34 81 00</b>	<b>Bridge Machinery</b>
34 71 19.13	Fixed Vehicle Delineators	34 81 13	Single-Swing Bridge Machinery
34 71 19.16	Flexible Vehicle Delineators	34 81 16	Double-Swing Bridge Machinery
<b>34 72 00</b>	<b>Railway Construction</b>	34 81 19	Cantilever Bridge Machinery
34 72 13	Railway Line	34 81 23	Lift Bridge Machinery
34 72 16	Railway Siding	34 81 26	Sliding Bridge Machinery
		34 81 29	Pontoon Bridge Machinery
		34 81 32	Bascule Bridge Machinery

**34 82 00 Bridge Specialties**

- 34 82 13 Bridge Vibration Dampers
- 34 82 13.13 Visco Elastic Bridge Vibration Dampers
- 34 82 13.16 Tuned-Mass Bridge Vibration Dampers
- 34 82 19 Bridge Pier Protection
- 34 82 19.13 Bridge Pier Ice Shields

**35 00 00 Waterway and Marine Construction**

**35 01 00 Operation and Maintenance of Waterway and Marine Construction**

- 35 01 30 Operation and Maintenance of Coastal Construction
- 35 01 40 Operation and Maintenance of Waterway Construction
  - 35 01 40.51 Waterway Dredging
  - 35 01 40.92 Preservation of Water Courses
- 35 01 50 Operation and Maintenance of Marine Construction
  - 35 01 50.51 Marine Dredging
  - 35 01 50.71 Channel Excavation, Cleaning and Deepening
- 35 01 70 Operation and Maintenance of Dams

**35 05 00 Common Work Results for Waterway and Marine Construction**

- 35 05 05 Selective Demolition for Waterway and Marine Construction
- 35 05 30 Common Work Results for Coastal Construction
- 35 05 40 Common Work Results for Waterway Construction
- 35 05 50 Common Work Results for Marine Construction
- 35 05 70 Common Work Results for Dams

**35 06 00 Schedules for Waterway and Marine Construction**

- 35 06 30 Schedules for Coastal Construction
- 35 06 40 Schedules for Waterway Construction
- 35 06 50 Schedules for Marine Construction
- 35 06 70 Schedules for Dams

**35 08 00 Commissioning of Waterway and Marine Construction**

- 35 08 30 Commissioning of Coastal Construction
- 35 08 40 Commissioning of Waterway Construction
- 35 08 50 Commissioning of Marine Construction
- 35 08 70 Commissioning of Dams

**35 10 00 Waterway and Marine Signaling and Control Equipment**

**35 11 00 Signaling and Control Equipment for Waterways**

- 35 11 13 Signaling Equipment for Waterways
- 35 11 53 Control Equipment for Waterways

**35 12 00 Marine Signaling and Control Equipment**

- 35 12 13 Marine Signaling Equipment
  - 35 12 13.13 Lighthouse Equipment
  - 35 12 33 Marine Navigation Equipment
- 35 12 53 Marine Control Equipment

**35 13 00 Signaling and Control Equipment for Dams**

- 35 13 13 Signaling Equipment for Dams
- 35 13 53 Control Equipment for Dams



## **35 20 00 Waterway and Marine Construction and Equipment**

### **35 21 00 General Fabrications for Waterways**

- 35 21 13 Hydraulic Bifurcation Panels
- 35 21 16 Hydraulic Bulkheads
- 35 21 19 Hydraulic Manifolds
- 35 21 23 Penstocks
- 35 21 33 Trash Racks
- 35 21 36 Debris Cages

### **35 22 00 Hydraulic Gates**

- 35 22 13 Spillway Crest Gates
- 35 22 19 Hydraulic Head Gates
- 35 22 26 Sluice Gates
- 35 22 33 Miter Gates
- 35 22 39 Sector Gates
- 35 22 46 Tainter Gates
- 35 22 53 Vertical Lift Hydraulic Gates
- 35 22 59 Hydraulic Closure Gates
- 35 22 63 Through-Levee Access Gates

### **35 24 00 Dredging**

- 35 24 13 Suction Dredging
- 35 24 13.11 Training Suction Dredging
- 35 24 13.13 Cutter Suction Dredging
- 35 24 13.16 Auger Suction Dredging
- 35 24 13.23 Jet-Lift Dredging
- 35 24 13.26 Air-Lift Dredging
- 35 24 21 Bucket Dredging
- 35 24 23 Clamshell Dredging
- 35 24 26 Backhoe/Dipper Dredging
- 35 24 33 Water Injection Dredging
- 35 24 36 Pneumatic Dredging
- 35 24 43 Bed-Levelling Dredging
- 35 24 46 Krabbelaar Dredging
- 35 24 53 Waterway Snag Removal

## **35 30 00 Coastal Construction**

### **35 31 00 Shoreline Protection**

- 35 31 16 Seawalls
- 35 31 16.13 Concrete Seawalls
- 35 31 16.16 Segmental Seawalls
- 35 31 16.19 Steel Sheet Piling Seawalls
- 35 31 16.23 Timber Seawalls
- 35 31 16.40 Stone Seawalls

- 35 31 19 Revetments
- 35 31 19.13 Sacked Cement-Sand Revetments
- 35 31 19.16 Concrete Unit Masonry Revetments
- 35 31 19.36 Gabion Revetments
- 35 31 19.40 Stone Revetments
- 35 31 23 Breakwaters
- 35 31 23.13 Rubble Mound Breakwaters
- 35 31 23.16 Precast Breakwater Modules
- 35 31 26 Jetties
- 35 31 26.13 Concrete Jetties
- 35 31 26.16 Concrete Unit Masonry Jetties
- 35 31 26.36 Gabion Jetties
- 35 31 26.40 Stone Jetties
- 35 31 29 Groins
- 35 31 29.13 Concrete Groins
- 35 31 29.16 Concrete Unit Masonry Groins
- 35 31 29.26 Steel Groins
- 35 31 29.36 Gabion Groins
- 35 31 29.40 Stone Groins

### **35 32 00 Artificial Reefs**

- 35 32 13 Scrap Material Artificial Reefs
- 35 32 13.13 Scrap Concrete Artificial Reefs
- 35 32 13.19 Scrap Steel Artificial Reefs
- 35 32 13.33 Sunken Ship Artificial Reefs
- 35 32 16 Constructed Artificial Reefs
- 35 32 16.13 Constructed Concrete Artificial Reefs
- 35 32 16.19 Constructed Steel Artificial Reefs

## **35 40 00 Waterway Construction and Equipment**

### **35 41 00 Levees**

- 35 41 13 Landside Levee Berms
- 35 41 13.13 Stability Landside Levee Berms
- 35 41 13.16 Seepage Landside Levee Berms
- 35 41 16 Levee Cutoff Trenches
- 35 41 19 Levee Relief Wells

### **35 42 00 Waterway Bank Protection**

- 35 42 13 Piling Bank Protection
- 35 42 13.19 Steel Sheet Piling Bank Protection
- 35 42 13.23 Timber Piling Bank Protection
- 35 42 13.26 Plastic Piling Bank Protection

35 42 29	Grout-Bag Bank Protection	<b>35 52 00</b>	<b>Offshore Platform Construction</b>
35 42 34	Soil Reinforcement Bank Protection	35 52 13	Fixed Offshore Platform Construction
35 42 35	Slope Protection Bank Protection	35 52 23	Semi-Submersible Offshore Platform Construction
35 42 36	Gabion Bank Protection	35 52 33	Floating Offshore Platform Construction
35 42 37	Riprap Bank Protection	<b>35 53 00</b>	<b>Underwater Construction</b>
35 42 53	Wall Bank Protection	35 53 23	Underwater Harbor Deepening
35 42 53.16	Concrete Unit Masonry Wall Bank Protection	35 53 33	Underwater Pipeline Construction
35 42 53.19	Segmental Wall Bank Protection	35 53 43	Underwater Foundation Construction
35 42 53.40	Stone Wall Bank Protection	35 53 53	Underwater Structures Construction
<b>35 43 00</b>	<b>Waterway Scour Protection</b>	35 53 63	Underwater Waterproofing
35 43 29	Grout-Bag Scour Protection	<b>35 59 00</b>	<b>Marine Specialties</b>
35 43 34	Soil Reinforcement Scour Protection	35 59 13	Marine Fenders
35 43 35	Slope Protection Scour Protection	35 59 13.13	Prestressed Concrete Marine Fender Piling
35 43 36	Gabion Scour Protection	35 59 13.16	Resilient Foam-Filled Marine Fenders
35 43 37	Riprap Scour Protection	35 59 13.19	Rubber Marine Fenders
35 43 53	Wall Scour Protection	35 59 23	Buoys
35 43 53.13	Concrete Unit Masonry Wall Scour Protection	35 59 23.13	Mooring Buoys
35 43 53.16	Segmental Wall Scour Protection	35 59 23.16	Anchor Pendant Buoys
35 43 53.40	Stone Wall Scour Protection	35 59 23.19	Navigation Buoys
<b>35 49 00</b>	<b>Waterway Structures</b>	35 59 29	Mooring Devices
35 49 13	Floodwalls	35 59 29.13	Quick-Release Mooring Hooks
35 49 13.13	Concrete Floodwalls	35 59 29.16	Laser Docking Systems
35 49 13.16	Masonry Floodwalls	35 59 29.19	Capstans
35 49 23	Waterway Locks	35 59 33	Marine Bollards and Cleats
35 49 23.13	Concrete Waterway Locks	35 59 33.13	Cast-Steel Marine Bollards and Cleats
35 49 23.23	Piling Waterway Locks	35 59 33.16	Cast-Iron Marine Bollards and Cleats
35 49 26	Floodgate Machinery	35 59 33.19	Stainless-Steel Marine Bollards and Cleats
<b>35 50 00</b>	<b>Marine Construction and Equipment</b>	35 59 33.23	Plastic Marine Bollards and Cleats
<b>35 51 00</b>	<b>Floating Construction</b>	35 59 93	Marine Chain and Accessories
35 51 13	Floating Piers	35 59 93.13	Marine Chain
35 51 13.23	Floating Wood Piers	35 59 93.16	Marine Shackles
35 51 13.26	Floating Plastic Piers	35 59 93.19	Marine Chain Tensioners
35 51 23	Pontoons		

**35 70 00 Dam Construction and Equipment**

**35 71 00 Gravity Dams**

35 71 13 Concrete Gravity Dams

35 71 16 Masonry Gravity Dams

35 71 19 Rockfill Gravity Dams

**35 72 00 Arch Dams**

35 72 13 Concrete Arch Dams

**35 73 00 Embankment Dams**

35 73 13 Earth Embankment Dam

35 73 16 Rock Embankment Dams

**35 74 00 Buttress Dams**

35 74 13 Concrete Buttress Dams

**35 79 00 Auxiliary Dam Structures**

35 79 13 Fish Ladders

35 79 13.13 Concrete Fish Ladders

**40 00 00 Process Interconnections**

**40 01 00 Operation and Maintenance of Process Interconnections**

40 01 10 Operation and Maintenance of Gas and Vapor Process Piping

40 01 20 Operation and Maintenance of Liquids Process Piping

40 01 30 Operation and Maintenance of Solid and Mixed Materials Piping and Chutes

40 01 40 Operation and Maintenance of Process Piping and Equipment Protection

40 01 60 Operation and Maintenance of Process Control and Process Facility Enterprise Management Systems

40 01 70 Operation and Maintenance of Instrumentation for Process Systems

40 01 90 Operation and Maintenance of Primary Control Devices

**40 05 00 Common Work Results for Process Interconnections**

40 05 04 Selective Demolition for Process Interconnections

40 05 05 Exposed Piping Installation

40 05 06 Couplings, Adapters, and Specials for Process Piping

40 05 07 Hangers and Supports for Process Piping

40 05 09 Wall Pipes, Floor Pipes, and Pipe Sleeves

40 05 11 Aluminum Process Pipe

40 05 12 Brass Process Pipe

40 05 13 Bronze Process Pipe

40 05 17 Copper Process Pipe and Tubing

40 05 19 Ductile Iron Process Pipe

40 05 21 High-Alloy Nickel Process Pipe and Tubing

40 05 23 Stainless Steel Process Pipe and Tubing

40 05 23.13 Duplex and Super-Duplex Stainless Steel Process Pipe

40 05 23.23 300- and 400-Series Stainless Steel Process Pipe

40 05 23.33 Special-Fabrication Stainless Steel Process Pipe and Tubing

40 05 24 Steel Process Pipe

40 05 24.13 Steel Pipe and Tubing for Air and Gas Service

40 05 24.23 Steel Pipe for Water Service

40 05 24.26 Steel Pipe and Tubing for Process Liquid Service

40 05 24.33 Steel Pipe for Bulk Materials Conveyance

40 05 26 Other Metals Process Pipe

40 05 26.13 Titanium Process Pipe

40 05 26.23 Tantalum Process Pipe

40 05 26.33 Zirconium Process Pipe

40 05 31 Thermoplastic Process Pipe

40 05 31.13 Polyvinyl Chloride Process Pipe

40 05 31.23 Chlorinated Polyvinyl Chloride Process Pipe

40 05 31.33 ABS Process Pipe

40 05 31.43 Polypropylene Process Pipe

40 05 31.53 PVDF Process Pipe

40 05 31.63 High-Purity Plastic Process Pipe

40 05 31.83 Flexible Plastic Tubing

40 05 33	High-Density Polyethylene Process Pipe	40 05 62.16	Eccentric Plug Valves for Liquid Service
40 05 36	Fiberglass-Reinforced Plastic Process Pipe	40 05 63	Ball Valves
40 05 36.13	Fiberglass-Reinforced Plastic Pipe for Process Air, Gas, and Odor Service	40 05 63.13	AWWA Metal-Seated Ball Valves
40 05 36.23	Fiberglass-Reinforced Plastic Pipe for Process Liquid Service	40 05 63.16	AWWA Resilient-Seated Ball Valves
40 05 37	Centrifugally Cast Fiberglass-Reinforced Polymer Mortar Process Pipe	40 05 63.33	Metallic Ball Valves
40 05 38	PTFE Process Pipe	40 05 63.43	Plastic Ball Valves
40 05 39	Concrete Pipe	40 05 64	Butterfly Valves
40 05 39.13	Concrete Pressure Water Pipe	40 05 64.13	Metal-Seated Butterfly Valves
40 05 39.23	Concrete Gravity and Drainage Process Pipe	40 05 64.16	AWWA Resilient-Seated Butterfly Valves
40 05 51	Common Requirements for Process Valves	40 05 64.23	Metallic Industrial Butterfly Valves
40 05 53	Process Valves Four-inch Diameter and Larger	40 05 64.26	Plastic Industrial Butterfly Valves
40 05 56	Process Valves, Smaller than Four-inch Diameter	40 05 64.33	Butterfly Valves in Air or Gas Service
40 05 57	Actuators for Process Valves and Gates	40 05 64.36	High-Performance Butterfly Valves in Air or Gas Service
40 05 57.13	Manual Actuators	40 05 64.43	Dampers for Corrosive Gas Service
40 05 57.23	Electric Motor Actuators	40 05 65	Valves for Pump Control and Check Service
40 05 57.33	Hydraulic Cylinder Actuators	40 05 65.11	Angle Valves
40 05 57.43	Hydraulic Actuator Systems	40 05 65.13	Cone Valves
40 05 57.53	Pneumatic Actuators	40 05 65.16	Globe Valves
40 05 59	Hydraulic Gates	40 05 65.23	Swing Check Valves
40 05 59.13	Stop Plates	40 05 65.26	Tilting Disc Check Valves
40 05 59.16	Stop Logs	40 05 65.29	Double-Disk Check Valves
40 05 59.21	Aluminum Slide Gates	40 05 67	Specialized Pressure and Flow-Control Valves
40 05 59.23	Stainless Steel Slide Gates	40 05 67.13	Reduced-Pressure Zone Backflow Preventers for Process Service
40 05 59.26	Fiberglass-Reinforced Plastic Slide Gates	40 05 67.16	Double Check Valve Assembly Backflow Preventers for Process Service
40 05 59.33	Cast Iron Slide Gates	40 05 67.23	Pressure Vacuum Breaker Backflow Preventers
40 05 59.43	Butterfly Gates	40 05 67.26	Atmospheric Vacuum Breaker Backflow Preventers
40 05 61	Gate Valves	40 05 67.29	Hose Connection Vacuum Breaker Backflow Preventers
40 05 61.13	Solid Wedge Metal-Seated Gate Valves	40 05 67.33	Backpressure Valves
40 05 61.16	Double Disc Metal-Seated Gate Valves	40 05 67.36	Pressure-Regulating Valves
40 05 61.23	Resilient-Seated Gate Valves	40 05 67.39	Pressure-Relief Valves
40 05 61.43	Knife Gate Valves	40 05 67.41	Direct-Acting Surge Relief Valves for Water Service
40 05 62	Plug Valves	40 05 67.43	Pilot-Operated Surge Relief Valves for Water Service
40 05 62.13	Eccentric Plug Valves for Gas Service		

40 05 67.44	Pilot-Operated Surge Arrestor Valves for Water Service	40 05 82	Solenoid Valves for Process Service
40 05 67.46	Electronic Surge Anticipator Valves for Water Service	40 05 89	Valve Accessories
40 05 67.47	Surge Relief Valves for Wastewater Service	40 05 89.13	Basket Strainers for Process Service
40 05 67.49	Electronic Surge Anticipator Valves for Wastewater Service	40 05 89.23	Needle Valves
40 05 71	Solids Handling Valves	40 05 89.33	Quick-Connect Couplers
40 05 71.13	Duckbill Check Valves	40 05 93	Common Motor Requirements for Process Equipment
40 05 71.16	Flap Gates	40 05 96	Vibration and Seismic Controls for Process Equipment
40 05 71.23	Mud Valves	40 05 97	Identification for Process Equipment
40 05 71.33	Telescoping Valves	<b>40 06 00</b>	<b>Schedules for Process Interconnections</b>
40 05 73	Special-Application Process Valves	40 06 10	Schedules for Gas and Vapor Process Piping and Ductwork
40 05 73.13	Altitude Valves	40 06 20	Schedules for Liquids Process Piping
40 05 73.16	Float Valves	40 06 30	Schedules for Solid and Mixed Materials Piping and Chutes
40 05 73.23	Anti-Cavitation Valves	40 06 40	Schedules for Process Piping and Equipment Protection
40 05 74	Flexible-Closure Valves	40 06 60	Schedules for Process Control and Process Facility Enterprise Management Systems
40 05 74.13	Diaphragm Valves	40 06 70	Schedules of Instrumentation for Process Systems
40 05 74.23	Pinch Valves	40 06 90	Schedules for Primary Control Devices
40 05 76	Hot-Tapping Valves and Appurtenances	<b>40 10 00</b>	<b>Gas and Vapor Process Piping and Ductwork</b>
40 05 76.13	Tapping Sleeves and Valves	<b>40 11 00</b>	<b>Steam Process Piping</b>
40 05 76.16	Tapping Machines	40 11 13	Low-Pressure Steam Process Piping
40 05 76.23	Line Stops	40 11 16	Intermediate-Pressure Steam Process Piping
40 05 78	Air Valves for Water and Wastewater Service	40 11 19	High-Pressure Steam Process Piping
40 05 78.11	Air Release Valves for Water Service		
40 05 78.13	Air/Vacuum Valves for Water Service		
40 05 78.16	Vacuum-Breaking Valves for Water Service		
40 05 78.19	Combination Air Valves for Water Service		
40 05 78.21	Air Release Valves for Wastewater Service		
40 05 78.23	Air/Vacuum Valves for Wastewater Service		
40 05 78.26	Vacuum-Breaking Valves for Wastewater Service		
40 05 78.29	Combination Air Valves for Wastewater Service		
40 05 81	Hydrants and Hose Bibbs for Process Service		
40 05 81.13	Fire Hydrants		
40 05 81.23	Yard Hydrants		
40 05 81.26	Freeze-Proof Yard Hydrants		
40 05 81.33	Hose Bibbs		

40 11 23	Condensate Process Piping for Process Applications	<b>40 17 00</b>	<b>Welding and Cutting Gases Piping</b>
<b>40 12 00</b>	<b>Compressed Air Process Piping</b>	40 17 13	Acetylene Welding and Cutting Piping
40 12 13	Compressed Air Process Piping for Breathing Service	40 17 16	Acetylene-Hydrogen Mix Welding and Cutting Piping
40 12 23	Low-Pressure Compressed Air Process Piping	40 17 19	Methylacetylene-Propadiene Welding and Cutting Piping
40 12 53	High-Pressure Compressed Air Process Piping	40 17 23	Oxygen Welding and Cutting Piping
<b>40 13 00</b>	<b>Process Ductwork</b>	40 17 26	Inert Gas Welding and Cutting Piping
<b>40 15 00</b>	<b>Combustion System Gas Piping</b>	<b>40 18 00</b>	<b>Vacuum Systems Process Piping</b>
40 15 13	Combustion Air Piping	40 18 13	Low-Vacuum Systems Process Piping
40 15 16	Oxygen Combustion System Gas Piping	40 18 23	Chlorine Gas Vacuum System Piping
40 15 19	Flue-Gas Combustion System Piping	40 18 53	High-Vacuum Systems Process Piping
40 15 23	Exothermic-Gas Combustion System Piping	<b>40 20 00</b>	<b>Liquids Process Piping</b>
40 15 26	Endothermic-Gas Combustion System Piping	<b>40 21 00</b>	<b>Liquid Fuel Process Piping</b>
40 15 29	Dissociated-Ammonia-Gas Combustion System Piping	40 21 13	Bio Fuels Process Piping
<b>40 16 00</b>	<b>Specialty and High-Purity Gases Piping</b>	40 21 13.13	Bioalcohols Process Piping
40 16 13	Ammonia Gas Piping	40 21 13.23	Biodiesel Fuel Process Piping
40 16 16	Boron Gas Piping	40 21 13.26	Green Diesel Fuel Process Piping
40 16 17	Chlorine Gas Piping		
40 16 26	Diborane Gas Piping	40 21 13.33	Biomass-to-Liquid (BTL) Fuel Process Piping
40 16 29	Fluorine Gas Piping	40 21 13.43	Gas-to-Liquid (GTL) Fuel Process Piping
40 16 33	Hydrogen Sulfide Gas Piping	40 21 16	Gasoline Process Piping
40 16 36	Nitrous-Oxide Gas Process Piping	40 21 19	Diesel Process Piping
40 16 37	Oxygen Gas Process Piping	40 21 23	Fuel-Oils Process Piping
40 16 39	Ozone Gas Process Piping	40 21 23.13	No. 1 Fuel-Oil Process Piping
40 16 43	Phosphine Gas Piping	40 21 23.23	No. 2 Fuel-Oil Process Piping
40 16 46	Silane Gas Piping	40 21 23.26	Kerosene Process Piping
40 16 49	Sulfur-Dioxide Gas Piping	40 21 23.29	Tar Fuels Process Piping
40 16 53	Specialty Gas Mixtures Piping	40 21 23.43	No. 4 Fuel-Oil Process Piping
40 16 56	High-Purity Gas Piping Components	40 21 23.53	No. 5 Fuel-Oil Process Piping
		40 21 23.63	No. 6 Fuel-Oil Process Piping
		<b>40 22 00</b>	<b>Petroleum Products Piping</b>
		40 22 10	Heavy-Fractions Petroleum Products Piping

40 22 13	Liquefied Petroleum Gas (LPG) Process Piping	<b>40 30 00</b>	<b>Solid and Mixed Materials Piping and Chutes</b>
40 22 16	Lubricating Oils Process Piping		
40 22 23	Petrochemicals Process Piping	<b>40 32 00</b>	<b>Bulk Materials Piping and Chutes</b>
40 22 50	Light-Fractions Petroleum Products Piping	40 32 10	Abrasive Materials Piping and Chutes
<b>40 23 00</b>	<b>Water and Wastewater Process Piping</b>	40 32 50	Nonabrasive Materials Piping and Chutes
40 23 13	Deionized Water Process Piping	<b>40 33 00</b>	<b>Bulk Materials Valves</b>
40 23 16	Distilled-Water Process Piping	40 33 13	Airlock Bulk Materials Valves
40 23 19	Non-Potable Plant Water Process Piping	40 33 16	Blind Bulk Materials Valves
40 23 23	Potable Water Process Piping	40 33 26	Diverter Bulk Materials Valves
40 23 29	Recirculated Water Process Piping	40 33 29	Double or Single Dump Bulk Materials Valves
40 23 33	Reverse-Osmosis Water Process Piping	40 33 39	Swing Bulk Materials Valves
40 23 40	Sanitary Wastewater Process Piping	40 33 43	Specialty Bulk Materials Valves
40 23 41	Grit Process Piping	<b>40 34 00</b>	<b>Pneumatic Conveying Lines</b>
40 23 43	Scum and Floatables Process Piping	40 34 10	Dense Phase Pneumatic Conveying Lines
40 23 44	Primary Sludge Process Piping	40 34 50	Dilute Phase Pneumatic Conveying Lines
40 23 46	Waste Sludge Process Piping	<b>40 40 00</b>	<b>Process Piping and Equipment Protection</b>
40 23 48	Thickened Sludge Process Piping	<b>40 41 00</b>	<b>Process Piping and Equipment Heat Tracing</b>
<b>40 24 00</b>	<b>Specialty Liquid Chemicals Piping</b>	40 41 13	Process Piping Heat Tracing
40 24 13	Alcohol Piping	40 41 13.13	Process Piping Electrical Resistance Heat Tracing
40 24 14	Liquid Chlorine and Sodium Hypochlorite Piping	40 41 13.16	Process Piping Electrical Conductance Heat Tracing
40 24 16	Gel Piping	40 41 13.19	Process Piping Gas Heat Tracing
40 24 19	Slurries Process Piping	40 41 13.23	Process Piping Steam Heat Tracing
40 24 23	Thixotropic Liquid Piping	40 41 13.26	Process Piping Thermal Fluids Heat Tracing
<b>40 25 00</b>	<b>Liquid Acids and Bases Piping</b>	40 41 23	Process Equipment Heat Tracing
40 25 10	Liquid Acids Piping	40 41 23.13	Process Equipment Electrical Resistance Heat Tracing
40 25 50	Liquid Bases Piping		
<b>40 26 00</b>	<b>Liquid Polymer Piping</b>		

40 41 23.16	Process Equipment Electrical Conductance Heat Tracing	<b>40 60 00</b>	<b>Process Control and Enterprise Management Systems</b>
40 41 23.19	Process Equipment Gas Heat Tracing		
40 41 23.23	Process Equipment Steam Heat Tracing		
40 41 23.26	Process Equipment Thermal Fluids Heat Tracing	<b>40 61 00</b>	<b>Process Control and Enterprise Management Systems General Provisions</b>
<b>40 42 00</b>	<b>Process Piping and Equipment Insulation</b>		
40 42 13	Process Piping Insulation	40 61 13	Process Control System General Provisions
40 42 13.13	Cryogenic Temperature Process Piping Insulation	40 61 16	Enterprise Management System General Provisions
40 42 13.16	Low Temperature Process Piping Insulation	40 61 21	Process Control System Testing
40 42 13.19	Intermediate Temperature Process Piping Insulation	40 61 26	Process Control System Training
40 42 13.23	High Temperature Process Piping Insulation	40 61 93	Process Control System Input/Output List
40 42 13.26	Process Piping Insulation for Specialty Applications	40 61 96	Process Control Descriptions
40 42 23	Process Equipment Insulation	<b>40 62 00</b>	<b>Computer System Hardware and Ancillaries</b>
40 42 23.13	Cryogenic Temperature Process Equipment Insulation	40 62 13	Server Computers
40 42 23.16	Low Temperature Process Equipment Insulation	40 62 16	Operator Workstation Computers
40 42 23.19	Intermediate Temperature Process Equipment Insulation	40 62 19	Industrial Computers
40 42 23.23	High Temperature Process Equipment Insulation	40 62 21	Desktop Computers
40 42 23.26	Process Equipment Insulation for Specialty Applications	40 62 23	Mobile Computers
<b>40 46 00</b>	<b>Process Corrosion Protection</b>	40 62 26	Laptop Computers
40 46 16	Coatings and Wrappings for Process Corrosion Protection	40 62 29	Tablet Computers and Mobile Devices
40 46 42	Cathodic Process Corrosion Protection	40 62 33	Printers
<b>40 47 00</b>	<b>Refractories</b>	40 62 43	Large Display Screens
40 47 13	Silica Refractories	40 62 63	Operator Interface Terminals (OIT)
40 47 16	Alumina Refractories	<b>40 63 00</b>	<b>Control System Equipment</b>
40 47 19	Carbon and Graphite Refractories	40 63 13	Distributed Process Control Systems
40 47 23	Castable Refractories	40 63 43	Programmable Logic Controllers
40 47 26	Rammed Refractories	40 63 83	Remote Terminal Units
40 47 29	Refractory Concrete		



<b>40 66 00</b>	<b>Network and Communication Equipment</b>	40 68 39	Energy Management Software
40 66 13	Switches and Routers	40 68 43	Load Management Software
40 66 16	Firewall Hardware	40 68 63	Configuration of HMI Software
40 66 19	Media Converters	40 68 66	Programming of Controller Software
40 66 23	Frame Relay Equipment	40 68 93	Computer Operating Systems Software
40 66 26	Device Network Equipment	<b>40 69 00</b>	<b>Packaged Control Systems</b>
40 66 33	Metallic and Fiber-Optic Communication Cabling and Connectors	40 69 13	Control System Simulators
40 66 36	Process Instrumentation Networks	40 69 23	Burner Management Systems
40 66 43	Wireless Network Systems	40 69 26	Safety Instrumented Control Systems
40 66 53	Multiple Address Radio Equipment	40 69 33	Fire and Gas Monitoring/Protection Systems for Industrial Applications
40 66 56	Point-to-Point Radio Equipment	<b>40 70 00</b>	<b>Instrumentation for Process Systems</b>
40 66 63	Antennas	<b>40 71 00</b>	<b>Flow Measurement</b>
40 66 66	Monopoles and Towers	40 71 13	Magnetic Flow Meters
40 66 73	Satellite Communication Equipment	40 71 13.13	Inline Magnetic Flow Meters
<b>40 67 00</b>	<b>Control System Equipment Panels and Racks</b>	40 71 13.23	Insertion-Type Magnetic Flow Meters
40 67 13	Computer Equipment Racks	40 71 23	Differential Pressure-Type Flow Meters
40 67 16	Free-Standing Panels	40 71 23.13	Venturi Flow Meters
40 67 19	Wall-Mounted Panels	40 71 23.16	Flow Tubes
40 67 23	Control System Consoles	40 71 23.19	Flow Nozzle-Type Flow Meters
40 67 33	Panel Wiring	40 71 23.23	Orifice Plate Flow Meters
40 67 63	Control Panel-Mounted Uninterruptible Power Supply	40 71 23.26	Integral Orifice Flow Meters
<b>40 68 00</b>	<b>Process Control Software</b>	40 71 23.29	Orifice Meter Runs
40 68 13	Process Control (HMI) Software	40 71 23.33	Elbow Flow Meters
40 68 23	Reporting Software	40 71 23.36	Pitot Tube and Averaging Pitot Flow Meters
40 68 26	Online Performance Monitoring Systems Software	40 71 23.39	V-Cone Flow Meters
40 68 33	Maintenance Management Software	40 71 23.43	Differential Pressure-Type Flow Transmitters
40 68 36	Laboratory Information System Software	40 71 23.46	Flow Computers
		40 71 33	Propeller Flow Meters
		40 71 36	Turbine Flow Meters
		40 71 43	Variable Area Flow Meters
		40 71 46	Target Flow Meters
		40 71 49	Vortex-Shedding Flow Meters

40 71 53	Positive Displacement Flow Meters	40 73 36	Pressure and Differential Pressure Switches
40 71 63	Doppler Flow Meters	40 73 43	Force Measurement Devices
40 71 66	Transit Time Flow Meters	40 73 46	Load Cells
40 71 69	Open Channel Flow Meters	40 73 53	Torque Measurement Devices
40 71 73	Coriolis Flow Meters		
40 71 76	Thermal Flow Meters	40 73 63	Diaphragm Seals
40 71 79	Flow Switches	<b>40 74 00</b>	<b>Temperature Measurement</b>
40 71 83	Sight Flow Indicators		
40 71 86	Flow Metering Weirs	40 74 13	Resistance Temperature Devices
<b>40 72 00</b>	<b>Level Measurement</b>		
40 72 13	Ultrasonic Level Meters (Continuous and Point-Type)	40 74 16	Thermocouples
		40 74 23	Radiation Pyrometers
40 72 23	Radar Level Meters	40 74 33	Thermistors
40 72 26	Laser Level Meters	40 74 36	Diode Temperature Measurement Devices
40 72 29	Nuclear Level Meters		
40 72 33	Capacitance Type Level Meters (Continuous and Point Type)	40 74 43	Bimetallic Thermometers
		40 74 46	Fluid Expansion Thermometers
40 72 36	RF Admittance Level Meters (Continuous and Point Type)	40 74 49	Change-of-State Temperature Measurement Devices
40 72 43	Pressure and Differential Pressure Type Level Meters	40 74 53	Cryogenic Temperature Sensors
40 72 46	Bubbler Systems	40 74 63	Temperature Transmitters
40 72 53	Magnetic and Magnetostrictive Level Meters	40 74 66	Temperature Switches
		40 74 69	Thermowells, Protection Tubes, and Test Thermowells
40 72 63	Displacement-Type Level Meters	<b>40 75 00</b>	<b>Process Liquid Analytical Measurement</b>
40 72 73	Sight Level Gauges		
40 72 76	Level Switches	40 75 05	Multi-Parameter Analyzer Systems
40 72 83	Leak Detection Systems	40 75 13	PH/ORP Analyzers
<b>40 73 00</b>	<b>Pressure, Strain, and Force Measurement</b>	40 75 16	Conductivity Analyzers
40 73 13	Pressure and Differential Pressure Gauges	40 75 19	Moisture Analyzers
40 73 16	Manometers	40 75 21	Chlorine Analyzers
40 73 23	Absolute-Pressure Transmitters	40 75 21.13	Free-Chlorine Analyzers
		40 75 21.23	Residual-Chlorine Analyzers
40 73 26	Gauge-Pressure Transmitters	40 75 23	Chlorine Dioxide Analyzer
		40 75 26	Dissolved Chlorine Dioxide Analyzers
40 73 29	Differential Pressure Transmitters	40 75 29	Dissolved Ammonia Analyzers
40 73 33	Multi-Variable Pressure/ Temperature Transmitters	40 75 33	Fluoride Analyzers
		40 75 43	Dissolved Oxygen Analyzers

40 75 46	Dissolved Ozone Analyzers	40 77 23	Vibration Monitoring Systems
40 75 53	Turbidity Analyzers	40 77 26	Position, Speed, and Motion Measurement Devices
40 75 56	Suspended Solids/Sludge Density Analyzers	<b>40 78 00</b>	<b>Panel Mounted Instruments</b>
40 75 59	Liquid Density Analyzers	40 78 13	Indicators and Meters
40 75 63	Monochloramine Analyzers	40 78 16	Indicating Lights
40 75 66	Nitrogen Analyzers	40 78 19	Switches and Push Buttons
40 75 69	Phosphorous Analyzers	40 78 23	Potentiometers and Manual Controllers
40 75 73	Particle Counters	40 78 26	Chart Recorders
40 75 76	Total Organic Carbon Analyzers	40 78 33	Annunciators
40 75 79	Total Organics Analyzers	40 78 43	Single-Loop Controllers
40 75 83	Hardness Analyzers	40 78 53	Relays
40 75 86	Alkalinity Analyzer	40 78 56	Isolators, Intrinsically-Safe Barriers, and Surge Suppressors
<b>40 76 00</b>	<b>Process Gas Analytical Measurement</b>	40 78 59	Power Supplies
40 76 05	Continuous Emissions Monitoring Systems	40 78 63	Alarm Dialers
40 76 13	Oxygen Gas Analyzers	<b>40 79 00</b>	<b>Miscellaneous Instruments, Calibration Equipment, Instrument Valves, and Fittings</b>
40 76 16	Ozone Analyzers	40 79 13	Nuclear Mass-Measuring Scales
40 76 23	Combustible Gas Monitors	40 79 23	Instrument Calibration Equipment
40 76 26	Chlorine Gas Analyzers	40 79 26	Instrument Programming Equipment
40 76 29	Ammonia Gas Analyzers	40 79 33	Current-to-Pressure Converters
40 76 33	Hydrogen Sulfide Monitors	40 79 36	Voltage-to-Pressure Converters
40 76 36	Sulfur Dioxide Analyzers	40 79 39	Signal Conditioners and Converters
40 76 39	Carbon Dioxide Analyzers	40 79 43	Deadweight Testers
40 76 43	Carbon Monoxide Analyzers	40 79 46	Flame Scanners
40 76 53	Dewpoint/Moisture Analyzers	40 79 63	Instrument Tubing
40 76 56	Gas Density Analyzers	40 79 66	Instrument Valve Manifolds, Valves, and Fittings
40 76 63	Flue Gas Analyzers	<b>40 80 00</b>	<b>Commissioning of Process Systems</b>
40 76 66	NO/NOX Analyzers		
40 76 73	Hydrocarbon Analyzers		
40 76 76	Gas Chromatograph Analyzers		
40 76 79	Vapor Pressure Analyzers		
40 76 83	Mass Spectrometers		
<b>40 77 00</b>	<b>Position and Motion Measurement</b>		
40 77 13	Acceleration Measurement Devices		
40 77 16	Proximity Measurement Devices		
40 77 19	Vibration Velocity Measurement Devices		

<b>40 90 00</b>	<b>Primary Control Devices</b>	<b>41 06 00</b>	<b>Schedules for Material Processing and Handling Equipment</b>
<b>40 91 00</b>	<b>Primary Control Valves</b>	41 06 10	Schedules for Bulk Material Processing Equipment
40 91 13	Electrically-Operated Primary Control Valves	41 06 20	Schedules for Piece Material Handling Equipment
40 91 16	Hydraulically-Operated Primary Control Valves	41 06 30	Schedules for Manufacturing Equipment
40 91 19	Pneumatically-Operated Primary Control Valves	41 06 40	Schedules for Container Processing and Packaging
40 91 23	Solenoid Primary Control Valves	41 06 50	Schedules for Material Storage
40 91 26	Specialty Primary Control Valves	41 06 60	Schedules for Mobile Plant Equipment
<b>40 92 00</b>	<b>Self-Contained Flow Controllers</b>	<b>41 08 00</b>	<b>Commissioning of Material Processing and Handling Equipment</b>
<b>40 93 00</b>	<b>Linear Actuators and Positioners</b>	41 08 10	Commissioning of Bulk Material Processing Equipment
<b>40 94 00</b>	<b>Self-Contained Pressure Regulators</b>	41 08 20	Commissioning of Piece Material Handling Equipment
<b>40 95 00</b>	<b>Rotary Actuators</b>	41 08 30	Commissioning of Manufacturing Equipment
<b>40 96 00</b>	<b>Saturable Core Reactors</b>	41 08 40	Commissioning of Container Processing and Packaging
<b>40 97 00</b>	<b>Variable Frequency Drives</b>	41 08 50	Commissioning of Material Storage
<b>41 00 00</b>	<b>Material Processing and Handling Equipment</b>	41 08 60	Commissioning of Mobile Plant Equipment
<b>41 01 00</b>	<b>Operation and Maintenance of Material Processing and Handling Equipment</b>	<b>41 10 00</b>	<b>Bulk Material Processing Equipment</b>
41 01 52	Operation and Maintenance of Bulk Materials Storage	<b>41 11 00</b>	<b>Bulk Material Sizing Equipment</b>
41 01 52.13	Storage Bin and Hopper Cleaning	41 11 13	Bulk Material Agglomerators
41 01 52.16	Silo Cleaning	41 11 16	Bulk Material Air Mill Classifiers
<b>41 05 00</b>	<b>Common Work Results for Material Processing and Handling Equipment</b>	41 11 19	Bulk Material Centrifuges
41 05 05	Selective Demolition for Material Processing and Handling Equipment	41 11 23	Bulk Material Crushers
		41 11 26	Bulk Material Cyclones
		41 11 29	Bulk Material Fluid Bed Separators
		41 11 33	Bulk Material Grinders

41 11 36	Bulk Material Homogenizers	41 13 23.29	Volumetric Bulk Material Feeders
41 11 39	Bulk Material Lump Breakers	41 13 23.33	Weigh Bulk Material Feeders
41 11 43	Bulk Material Mills	<b>41 14 00</b>	<b>Batching Equipment</b>
41 11 46	Bulk Material Pulverizers	41 14 13	Bag-Handling Batching Equipment
41 11 49	Bulk Material Screens	41 14 16	Batch Cars/Transports
41 11 53	Bulk Material Shredders	41 14 19	Batch Hoppers
41 11 56	Bulk Material Sieves	41 14 23	Bulk Bag-Handling Batching Equipment
<b>41 12 00</b>	<b>Bulk Material Conveying Equipment</b>	41 14 26	Blenders
41 12 13	Bulk Material Conveyors	41 14 29	Drum-Handling Batching Equipment
41 12 13.13	Airslide Bulk Material Conveyors	41 14 33	Mixers
41 12 13.16	Auger Bulk Material Conveyors	41 14 36	Weigh Scales
41 12 13.19	Belt Bulk Material Conveyors	<b>41 20 00</b>	<b>Piece Material Handling Equipment</b>
41 12 13.23	Container Bulk Material Conveyors	<b>41 21 00</b>	<b>Conveyors</b>
41 12 13.26	Drag Chain Bulk Material Conveyors	41 21 13	Automatic Guided Vehicle Systems
41 12 13.29	Hopper Bulk Material Conveyors	41 21 23	Piece Material Conveyors
41 12 13.33	Reciprocating Bulk Material Conveyors	41 21 23.13	Belt Piece Material Conveyors
41 12 13.36	Screw Bulk Material Conveyors	41 21 23.16	Container Piece Material Conveyors
41 12 13.39	Stacking and Reclaim Bulk Material Conveyors	41 21 23.19	Drag-Chain Piece Material Conveyors
41 12 13.43	Trough Bulk Material Conveyors	41 21 23.23	Hopper Piece Material Conveyors
41 12 13.46	Tube Bulk Material Conveyors	41 21 23.26	Monorail Piece Material Conveyors
41 12 13.49	Vibratory Bulk Material Conveyors	41 21 23.29	Power and Free Piece Material Conveyors
41 12 13.53	Weigh-Belt Bulk Material Conveyors	41 21 23.33	Reciprocating Piece Material Conveyors
41 12 16	Bucket Elevators	41 21 23.36	Roller Piece Material Conveyors
41 12 19	Pneumatic Conveyors	41 21 23.39	Vibratory Piece Material Conveyors
41 12 19.13	Dense Phase Pneumatic Conveyors	41 21 23.43	Walking-Beam Piece Material Conveyors
41 12 19.16	Dilute Phase Pneumatic Conveyors	41 21 23.46	Weigh-Belt Piece Material Conveyors
<b>41 13 00</b>	<b>Bulk Material Feeders</b>	41 21 23.53	Postal Conveyors
41 13 13	Bin Activators/Live Bin Bottoms	41 21 26	Piece Material Diverter Gates
41 13 23	Feeders	41 21 29	Piece Material Gravity Slides
41 13 23.13	Airlock Bulk Material Feeders	41 21 33	Piece Material Transfer Cars
41 13 23.16	Apron Bulk Material Feeders	41 21 36	Piece Material Turntables
41 13 23.19	Rotary-Valve Bulk Material Feeders	41 21 39	Piece Material Feeders
41 13 23.23	Screw Bulk Material Feeders		
41 13 23.26	Vibratory Bulk Material Feeders		

41 21 39.13	Piece Material Vibratory Feeders	41 31 13.19	Coating Lines
<b>41 22 00</b>	<b>Cranes and Hoists</b>	41 31 13.23	Converting Lines
41 22 13	Cranes	41 31 13.26	Disassembly Lines
41 22 13.13	Bridge Cranes	41 31 13.29	Extrusion Lines
41 22 13.16	Gantry Cranes	41 31 13.33	Machining Lines
41 22 13.19	Jib Cranes	41 31 13.36	Molding Lines
41 22 13.23	Mobile Cranes	41 31 13.39	Finishing/Painting Lines
41 22 13.26	Tower Cranes	41 31 13.43	Painting Lines
41 22 13.29	Specialty Cranes	41 31 13.46	Pickling Lines
41 22 23	Hoists	41 31 13.49	Plating Lines
41 22 23.13	Fixed Hoists	41 31 13.53	Polishing Lines
41 22 23.16	Portable Hoists	41 31 13.56	Press Lines
41 22 23.19	Monorail Hoists	41 31 13.59	Rolling/Calendaring Lines
41 22 23.23	Specialty Hoists	41 31 13.63	Web Processing Lines
41 22 33	Derricks	41 31 16	Pick and Place Systems
<b>41 23 00</b>	<b>Lifting Devices</b>	41 31 19	Manufacturing-Line Robots
41 23 13	Clamps	41 31 23	Specialty Assembly Machines
41 23 16	Grabs	<b>41 32 00</b>	<b>Forming Equipment</b>
41 23 19	Hooks	41 32 13	Bending Equipment
41 23 23	Lifts	41 32 16	Blow-Molding Equipment
41 23 26	Slings	41 32 19	Brake-Forming Equipment
41 23 29	Spreader Bars/Beams	41 32 23	Cold-Forming Equipment
41 23 33	Tongs	41 32 26	Die-Casting Equipment
<b>41 24 00</b>	<b>Specialty Material Handling Equipment</b>	41 32 29	Drawing Equipment
41 24 13	Aeration Devices	41 32 33	Electroforming Equipment
41 24 16	Bin Vibrators	41 32 36	Forging Equipment
41 24 19	Dehydrators	41 32 39	Extruding Equipment
41 24 23	Hydrators	41 32 43	Metal-Spinning Equipment
41 24 26	Hydraulic Power Systems	41 32 46	Piercing Equipment
41 24 29	Lubrication Systems	41 32 49	Powder Metal-Forming Equipment
41 24 33	Magnetic Separators	41 32 53	Pressing Equipment
41 24 36	Metal Detectors	41 32 56	Roll-Forming Equipment
41 24 39	Railcar Movers	41 32 59	Shearing Equipment
41 24 43	Turnheads/Distributors	41 32 63	Spinning Equipment
41 24 46	Sorting Machines	41 32 66	Stretching/Leveling Equipment
41 24 46.13	Postal Sorting Machines	41 32 69	Swaging Equipment
<b>41 30 00</b>	<b>Manufacturing Equipment</b>	<b>41 33 00</b>	<b>Machining Equipment</b>
<b>41 31 00</b>	<b>Manufacturing Lines and Equipment</b>	41 33 13	Automatic Screw Machining Equipment
41 31 13	Manufacturing Lines	41 33 16	Boring Equipment
41 31 13.13	Assembly Lines	41 33 19	Broaching Equipment
41 31 13.16	Casting Lines	41 33 23	Drilling Equipment

41 33 26	Electro-Discharge Machining Equipment	41 35 13.23	Rotary Dies
41 33 29	Grinding Equipment	41 35 13.26	Rule Dies
41 33 33	Hobbing Equipment	41 35 33	Molds
41 33 36	Lapping Equipment	<b>41 36 00</b>	<b>Assembly and Testing Equipment</b>
41 33 39	Lathe Equipment	41 36 13	Applicators
41 33 43	Leveling Equipment	41 36 13.13	Adhesive Applicators
41 33 46	Machining Center Equipment	41 36 13.16	Lubricant Applicators
41 33 53	Milling Equipment	41 36 13.19	Sealer Applicators
41 33 53.13	Horizontal Milling Equipment	41 36 16	Fixtures and Jigs
41 33 53.16	Vertical Milling Equipment	41 36 19	Joining Equipment
41 33 60	Multi-Axis Machine Equipment	41 36 19.13	Adhesive Joining Equipment
41 33 63	Planing Equipment	41 36 19.16	Arc-Welding Equipment
41 33 66	Reaming Equipment	41 36 19.19	Brazing Equipment
41 33 69	Routing Equipment	41 36 19.23	Resistance-Welding Equipment
41 33 73	Sawing Equipment	41 36 19.26	Riveting Equipment
41 33 76	Shaping Equipment	41 36 19.29	Sintering Equipment
41 33 79	Threading Equipment	41 36 19.33	Soldering Equipment
<b>41 34 00</b>	<b>Finishing Equipment</b>	41 36 23	Cutting Equipment
41 34 13	Anodizing Equipment	41 36 23.13	Cutting Torches
41 34 16	Barrel Tumbling Equipment	41 36 23.16	High-Pressure Water Cutting Equipment
41 34 23	Coating Equipment	41 36 23.19	Laser Cutting Equipment
41 34 23.13	Diffusion Coating Equipment	41 36 23.23	Plasma Cutting Equipment
41 34 23.16	Dipping Coating Equipment	41 36 26	Process Tools
41 34 23.19	Film Coating Equipment	41 36 26.13	Air Process Tools
41 34 23.23	Phosphatizing Coating Equipment	41 36 26.16	Electric Process Tools
41 34 23.26	Plasma Coating Equipment	41 36 26.19	Hydraulic Process Tools
41 34 23.29	Hardface Welding Coating Equipment	41 36 26.23	Manual Process Tools
41 34 23.33	Spray Painting Booth	41 36 29	Manufacturing Measurement and Testing Equipment
41 34 26	Deburring Equipment	41 36 29.13	Gauges, Rules, and Blocks
41 34 36	Electroplating Equipment	41 36 29.16	Penetrant Measurement and Testing Equipment
41 34 46	Grinding Equipment	41 36 29.19	Laser Measurement and Testing Equipment
41 34 49	Honing Equipment	41 36 29.23	Magnaflux Measurement and Testing Equipment
41 34 53	Lapping Equipment	41 36 29.26	Optical Comparators
41 34 56	Shot Peening Equipment	41 36 29.29	Profilometers
41 34 59	Superfinishing/Polishing Equipment	41 36 29.33	Radiograph Measurement and Testing Equipment
<b>41 35 00</b>	<b>Dies and Molds</b>	41 36 29.36	Surface Tables
41 35 13	Dies	41 36 29.39	Ultrasonic Measurement and Testing Equipment
41 35 13.13	Drawing Dies	41 36 29.43	Test Weigh Scales
41 35 13.16	Extrusion Dies		
41 35 13.19	Press Dies		

<b>41 40 00</b>	<b>Container Processing and Packaging</b>		
<b>41 41 00</b>	<b>Container Filling and Sealing</b>		
41 41 13	Bulk Container Fillers/ Packers		
41 41 16	Container Cappers		
41 41 19	Container Fillers		
41 41 19.13	Bag Fillers		
41 41 19.16	Box Fillers		
41 41 19.19	Bottle Fillers		
41 41 23	Container Sealers		
<b>41 42 00</b>	<b>Container Packing Equipment</b>		
41 42 13	Box Packing Equipment		
41 42 13.13	Box Makers		
41 42 13.16	Box Packers		
41 42 16	Bulk Material Loaders		
41 42 16.13	Container Bulk Material Loaders		
41 42 16.23	Truck Bulk Material Loaders		
41 42 16.26	Railcar Bulk Material Loaders		
41 42 16.29	Ship Bulk Material Loaders		
41 42 16.33	Barge Bulk Material Loaders		
41 42 19	Carton Packers		
41 42 23	Carton Sealers		
41 42 26	Carton Shrink Wrappers		
41 42 29	Carton Stackers		
<b>41 43 00</b>	<b>Shipping Packaging</b>		
41 43 13	Banding/Strapping Equipment		
41 43 16	Barcode Equipment		
41 43 16.13	Barcode Readers		
41 43 16.16	Barcode Printers		
41 43 19	Labeling Equipment		
41 43 23	Pallet Stacking/Wrapping Equipment		
<b>41 50 00</b>	<b>Material Storage</b>		
<b>41 51 00</b>	<b>Automatic Material Storage</b>		
41 51 13	Automatic Storage/ Automatic Retrieval Systems		
<b>41 52 00</b>	<b>Bulk Material Storage</b>		
41 52 13	Bins and Hoppers		
41 52 13.13	Fixed Bins and Hoppers		
41 52 13.23	Portable Bins and Hoppers		
41 52 13.33	Bulk Material Containers		
41 52 13.43	Returnable Bins and Hoppers		
41 52 13.53	Throwaway Bins and Hoppers		
41 52 16	Silos		
41 52 16.13	Concrete Flat-Bottom Silos		
41 52 16.16	Concrete Masonry Flat-Bottom Silos		
41 52 16.23	Concrete Cone-Bottom Silos		
41 52 16.26	Concrete Masonry Cone- Bottom Silos		
41 52 16.29	Steel Cone-Bottom Silos		
41 52 19	Bulk Materials Storage Tanks		
41 52 19.13	Stationary Bulk Materials Storage Tanks		
41 52 19.33	Mobile Bulk Materials Storage Tanks		
41 52 41	Pneumatic, Block- Distributed Materials Fluidizing System for Flat- Bottom Bins and Silos		
41 52 43	Aerated Trough Materials Fluidizing System for Flat- Bottom Bins and Silos		
41 52 46	Pad-Mounted Aerated Disc Materials Fluidizing System for Cone-Bottom Bins and Silos		
<b>41 53 00</b>	<b>Storage Equipment and Systems</b>		
41 53 13	Storage Cabinets		
41 53 16	Container Storage Systems		
41 53 19	Flat Files		
41 53 23	Storage Racks		
41 53 23.13	Mobile Storage Racks		
41 53 26	Mezzanine Storage Systems		
<b>41 60 00</b>	<b>Mobile Plant Equipment</b>		
<b>41 61 00</b>	<b>Mobile Earth Moving Equipment</b>		
41 61 13	Backhoes		
41 61 16	Bulldozers		
41 61 19	Compactors		
41 61 23	Excavators		
41 61 26	Graders		
41 61 29	Payloaders		



41 61 33	Trenchers		
<b>41 62 00</b>	<b>Trucks</b>		
41 62 13	Cement Mixer Trucks		
41 62 16	Dump Trucks		
41 62 19	Flatbed Trucks		
41 62 23	Forklift Trucks		
41 62 26	Pickup Trucks		
41 62 29	Tank Trucks		
<b>41 63 00</b>	<b>General Vehicles</b>		
41 63 13	Bicycles		
41 63 16	Carts		
41 63 19	Maintenance Vehicles		
41 63 23	Utility Vehicles		
41 63 26	Vans		
41 63 29	Wagons		
<b>41 64 00</b>	<b>Rail Vehicles</b>		
41 64 13	Locomotives		
41 64 13.13	Diesel Locomotives		
41 64 13.23	Electric Locomotives		
41 64 16	Mobile Railcar Movers		
<b>41 65 00</b>	<b>Mobile Support Equipment</b>		
41 65 13	Mobile Air Compressors		
41 65 16	Mobile Generators		
41 65 19	Mobile Welders		
<b>41 66 00</b>	<b>Miscellaneous Mobile Equipment</b>		
41 66 13	Mobile Boring and Drilling Rigs		
41 66 16	Mobile Lifts and Cherrypickers		
41 66 19	Mobile Paving Equipment		
41 66 23	Mobile Sweepers/Vacuums		
<b>41 67 00</b>	<b>Plant Maintenance Equipment</b>		
41 67 13	Plant Lube Oil System		
41 67 16	Plant Fall Protection Equipment		
41 67 19	Plant Safety Equipment		
41 67 23	Plant Maintenance Tools		
41 67 26	Plant Maintenance Washing Equipment		
		<b>42 00 00</b>	<b>Process Heating, Cooling, and Drying Equipment</b>
		<b>42 01 00</b>	<b>Operation and Maintenance of Process Heating, Cooling, and Drying Equipment</b>
		42 01 10	Operation and Maintenance of Process Heating Equipment
		42 01 20	Operation and Maintenance of Process Cooling Equipment
		42 01 30	Operation and Maintenance of Process Drying Equipment
		<b>42 05 00</b>	<b>Common Work Results for Process Heating, Cooling, and Drying Equipment</b>
		42 05 05	Selective Demolition for Process Heating, Cooling, and Drying Equipment
		<b>42 06 00</b>	<b>Schedules for Process Heating, Cooling, and Drying Equipment</b>
		42 06 10	Schedules for Process Heating Equipment
		42 06 20	Schedules for Process Cooling Equipment
		42 06 30	Schedules for Process Drying Equipment
		<b>42 08 00</b>	<b>Commissioning of Process Heating, Cooling, and Drying Equipment</b>
		42 08 10	Commissioning of Heating Equipment
		42 08 20	Commissioning of Cooling Equipment
		42 08 30	Commissioning of Drying Equipment

<b>42 10 00</b>	<b>Process Heating Equipment</b>	42 14 46	Industrial Reheat Furnaces
<b>42 11 00</b>	<b>Process Boilers</b>	42 14 53	Industrial Sintering Furnaces
42 11 13	Low-Pressure Process Boilers	42 14 56	Industrial Vacuum Furnaces
42 11 16	Intermediate-Pressure Process Boilers	<b>42 15 00</b>	<b>Industrial Ovens</b>
42 11 19	High-Pressure Process Boilers	42 15 13	Industrial Drying Ovens
42 11 23	Specialty Process Boilers	42 15 16	Industrial Curing Ovens
<b>42 12 00</b>	<b>Process Heaters</b>	42 15 19	Industrial Specialty Ovens
42 12 13	Electric Process Heaters	<b>42 20 00</b>	<b>Process Cooling Equipment</b>
42 12 16	Fuel-Fired Process Heaters	<b>42 21 00</b>	<b>Process Cooling Towers</b>
42 12 19	Thermoelectric Process Heaters	42 21 13	Open-Circuit Process Cooling Towers
42 12 23	Solar Process Heaters	42 21 16	Closed-Circuit Process Cooling Towers
42 12 26	Specialty Process Heaters	<b>42 22 00</b>	<b>Process Chillers and Coolers</b>
<b>42 13 00</b>	<b>Industrial Heat Exchangers and Recuperators</b>	42 22 13	Centrifugal Process Chillers and Coolers
42 13 13	Industrial Gas-to-Gas Heat Exchangers	42 22 16	Reciprocating Process Chillers and Coolers
42 13 16	Industrial Liquid-to-Gas/Gas-to-Liquid Heat Exchangers	42 22 19	Refrigerant Process Chillers and Coolers
42 13 19	Industrial Liquid-to-Liquid Heat Exchangers	42 22 23	Rotary Process Chillers and Coolers
42 13 23	Industrial Gas Radiation Heat Exchangers	42 22 26	Thermoelectric Process Chillers and Coolers
42 13 26	Industrial Solar Radiation Heat Exchangers	<b>42 23 00</b>	<b>Process Condensers and Evaporators</b>
<b>42 14 00</b>	<b>Industrial Furnaces</b>	42 23 13	Process Condensers
42 14 13	Annealing Furnaces	42 23 16	Process Cooling Evaporators
42 14 16	Atmosphere Generators	42 23 19	Process Humidifiers
42 14 19	Industrial Baking Furnaces	<b>42 30 00</b>	<b>Process Drying Equipment</b>
42 14 23	Industrial Brazing Furnaces	<b>42 31 00</b>	<b>Gas Dryers and Dehumidifiers</b>
42 14 26	Industrial Calcining Furnaces	42 31 13	Drying Evaporators
42 14 29	Industrial Heat-Treating Furnaces	42 31 16	Desiccant Equipment
42 14 33	Industrial Melting Furnaces	42 31 19	Regenerative Dryers
42 14 33.13	Ceramics and Glass Melting Furnaces	42 31 23	Refrigerant Dryers
42 14 33.16	Ferrous Melting Furnaces	<b>42 32 00</b>	<b>Material Dryers</b>
42 14 33.19	Non-Ferrous Melting Furnaces	42 32 13	Centrifugal Material Dryers
42 14 36	Primary Refining Furnaces	42 32 16	Conveyor Material Dryers
42 14 43	Reactor Furnaces	42 32 19	Flash Material Dryers

42 32 23	Fluid-Bed Material Dryers	<b>43 05 00</b>	<b>Common Work Results for Process Gas and Liquid Handling, Purification, and Storage Equipment</b>
42 32 26	Material Roasters		
42 32 29	Rotary-Kiln Material Dryers		
42 32 33	Spray Material Dryers		
42 32 36	Tower Material Dryers	43 05 05	Selective Demolition for Process Gas and Liquid Handling, Purification, and Storage Equipment.
42 32 39	Vacuum Material Dryers	43 05 10	Common Work Results for Gas Handling Equipment
42 32 43	Specialty Material Dryers	43 05 20	Common Work Results for Liquid Handling Equipment
<b>43 00 00</b>	<b>Process Gas and Liquid Handling, Purification, and Storage Equipment</b>	43 05 30	Common Work Results for Gas and Liquid Hi-Purification Equipment
<b>43 01 00</b>	<b>Operation and Maintenance of Process Gas and Liquid Handling, Purification, and Storage Equipment</b>	43 05 40	Common Work Results for Gas and Liquid Storage
43 01 10	Operation and Maintenance of Gas Handling Equipment	<b>43 06 00</b>	<b>Schedules for Process Gas and Liquid Handling, Purification, and Storage Equipment</b>
43 01 10.13	Gas Blowers Maintenance and Rehabilitation	43 06 10	Schedules for Gas Handling Equipment
43 01 10.16	Gas Compressors Maintenance and Rehabilitation	43 06 20	Schedules for Liquid Handling Equipment
43 01 20	Operation and Maintenance of Liquid Handling Equipment	43 06 30	Schedules for Gas and Liquid Hi-Purification Equipment
43 01 20.13	Liquid Pumps Maintenance and Rehabilitation	43 06 40	Schedules for Gas and Liquid Storage
43 01 20.16	Liquid Process Equipment Maintenance and Rehabilitation	<b>43 08 00</b>	<b>Commissioning of Process Gas and Liquid Handling, Purification, and Storage Equipment</b>
43 01 30	Operation and Maintenance of Gas and Liquid Hi-Purification Equipment	43 08 10	Commissioning of Gas Handling Equipment
43 01 40	Operation and Maintenance of Gas and Liquid Storage	43 08 20	Commissioning of Liquid Handling Equipment
43 01 40.13	Non-pressurized Tanks Cleaning, Maintenance, and Rehabilitation	43 08 30	Commissioning of Gas and Liquid Purification Equipment
43 01 40.16	Pressurized Tanks Cleaning, Maintenance, and Rehabilitation	43 08 40	Commissioning of Gas and Liquid Storage

<b>43 10 00</b>	<b>Gas Handling Equipment</b>		
<b>43 11 00</b>	<b>Gas Fans, Blowers, Pumps and Boosters</b>		
43 11 11	Direct Drive Single Stage Centrifugal Blowers		
43 11 12	Integrally Geared Single Stage Centrifugal Blowers		
43 11 13	Separately Geared Single Stage Centrifugal Blowers		
43 11 14	Direct Drive Integral Shaft Single Stage Centrifugal Blowers		
43 11 17	Horizontally Split Multistage Centrifugal Blowers		
43 11 18	Vertically Split Multistage Centrifugal Blowers		
43 11 19	Centrifugal Fans		
43 11 23	Axial Blowers		
43 11 26	Axial Fans		
43 11 31	Rotary Helical Screw Blowers		
43 11 33	Rotary Lobe Blowers		
43 11 34	Regenerative Rotary Blowers		
43 11 36	Rotary Vane Blowers		
43 11 41	Gas-handling Venturi Jet Pumps		
43 11 43	Gas-handling Vacuum Pumps		
43 11 46	Gas Boosters		
<b>43 12 00</b>	<b>Gas Compressors</b>		
43 12 11	Centrifugal Compressors		
43 12 13	Diagonal or Mixed-flow Compressors		
43 12 16	Axial-flow Compressors		
43 12 33	Single-acting Reciprocating Compressors		
43 12 34	Double-acting Reciprocating Compressors		
43 12 37	Diaphragm Reciprocating Compressors		
43 12 51	Rotary Screw Compressors		
43 12 53	Rotary Vane Compressors		
43 12 56	Rotary Liquid-ring Compressors		
		43 12 57	Rotary Scroll Compressors
		<b>43 13 00</b>	<b>Gas Process Equipment</b>
		43 13 13	Gas Blenders
		43 13 19	Gas Mixers
		43 13 23	Gas Pressure Regulators
		43 13 31	Gas Separation Equipment
		43 13 33	Gas Dehydration Equipment
		43 13 36	Combined Gas Separation and Dehydration Equipment
		43 13 39	Gas Recovery and Condensing Equipment
		43 13 43	Waste Gas Burner System
		43 13 46	Gas Control and Safety Equipment
		<b>43 15 00</b>	<b>Process Air and Gas Filters</b>
		43 15 13	Blower Intake and Turbine Air Filters
		43 15 13.13	Static Prefilters
		43 15 13.16	Static Final Filters
		43 15 13.19	Static HEPA Filters
		43 15 13.23	Pulse Filters
		43 15 33	Grease Filters
		43 15 43	Mist Eliminators
		43 15 63	High-temperature Air Filters
		43 15 73	Multiple-application Air Filters
		43 15 73.11	Air Filter Media
		43 15 73.12	Permanent Washable Filters
		43 15 73.13	Poly-ring Air Filters
		43 15 73.15	Rigid Cell Filters
		43 15 73.17	Automatic Roll-type Air Filters
		43 15 76	Chemical Media for Air and Gas Filters
		<b>43 20 00</b>	<b>Liquid Handling Equipment</b>
		<b>43 22 00</b>	<b>Liquid Process Equipment</b>
		43 22 11	Process Water Electronic Conditioning Equipment
		43 22 13	Liquid Aeration Devices
		43 22 16	Liquid Agitators
		43 22 19	Liquid Blenders
		43 22 23	Liquid Centrifuges
		43 22 26	Liquid Deaerators

43 22 29	Drum Handling Liquid Process Equipment	43 23 13.29	Overhung Close-coupled Sealless with Canned Motor Horizontal Centrifugal Pumps
43 22 33	Liquid Emulsifiers	43 23 21	Between-Bearings Impeller Centrifugal Pumps
43 22 36	Liquid Evaporators	43 23 21.13	Between-bearings Impeller, One- and Two-stage Axially-split Centrifugal Pumps
43 22 39	Liquid Feeders	43 23 21.14	Between-bearings Impeller, One- and Two-stage, Radially-split Centrifugal Pumps
43 22 56	Liquid Process Mixers	43 23 21.17	Between-bearings Impeller, Multiple-stage, Axially-split Centrifugal Pumps
43 22 59	Liquid Process Pressure Regulators	43 23 21.19	Between-bearings Impeller, Multiple-stage, Radially-split Centrifugal Pumps
43 22 63	Liquid Separation Towers	43 23 21.21	Between-bearings Impeller, Multiple-stage, Radially-split, Single Casing Centrifugal Pumps
43 22 66	Liquid Weigh Systems	43 23 21.23	Between-bearings Impeller, Multiple-stage, Radially-split, Double Casing Centrifugal Pumps
43 22 69	Liquid Grease Receiving and Dewatering Systems	43 23 31	Vertical Centrifugal Pumps
43 22 73	Liquid Fillers	43 23 31.13	Overhung Flexibly-coupled Vertical Centrifugal Pumps
43 22 76	Liquid Screeners	43 23 31.14	Overhung Flexibly-coupled Vertical Inline Centrifugal Pumps
43 22 79	Liquid Clarifiers	43 23 31.17	Overhung Flexibly-coupled Vertical End-suction Centrifugal Pumps
43 22 83	Liquid Classifiers	43 23 31.19	Overhung Flexibly-coupled, Magnetic Drive, Sealless Vertical Centrifugal Pumps
43 22 86	Liquid Homogenizers	43 23 31.21	Overhung Close-coupled Vertical Inline Centrifugal Pumps
43 22 89	Liquid Presses	43 23 31.23	Overhung Close-coupled Vertical End Suction Centrifugal Pumps
43 22 96	Liquid Versators	43 23 31.24	Overhung Close-coupled Sealless with Canned Motor Vertical Centrifugal Pumps
43 22 99	Liquid Votators	43 23 31.27	Overhung Rigidly-coupled Vertical Inline Centrifugal Pumps
<b>43 23 00</b>	<b>Dry Location Liquid Pumps</b>	43 23 31.29	Overhung Close-coupled Vertical Centrifugal Pumps
43 23 13	Overhung Horizontal Centrifugal Pumps	43 23 51	Vane Pumps
43 23 13.13	Overhung Flexibly-coupled Horizontal Axial Flow Centrifugal Pumps	43 23 53	Piston Pumps
43 23 13.14	Overhung Flexibly-coupled Horizontal Frame-mounted Centrifugal Pumps		
43 23 13.17	Overhung Flexibly-coupled Horizontal Foot-mounted Centrifugal Pumps		
43 23 13.19	Overhung Flexibly-coupled Horizontal Foot-mounted Self-priming Centrifugal Pumps		
43 23 13.21	Overhung Flexibly-coupled Horizontal Centerline-mounted Centrifugal Pumps		
43 23 13.23	Overhung Flexibly-coupled, Magnetic Drive, Sealless Horizontal Centrifugal Pumps		
43 23 13.24	Overhung Close-coupled High-speed Integral Gear Centrifugal Pumps		
43 23 13.27	Overhung Close-coupled Horizontal Centrifugal Pumps		

43 23 53.13	Piston Axial Rotary Pumps	43 23 73.13	Air-Operated Piston Simplex Single-Acting Reciprocating Pumps
43 23 53.23	Piston Radial Rotary Pumps	43 23 73.23	Air-Operated Piston Simplex Double-Acting Reciprocating Pumps
43 23 53.33	Circumferential Single-Piston Rotary Pumps	43 23 73.33	Air-Operated Piston Duplex Single-Acting Reciprocating Pumps
43 23 53.36	Circumferential Multiple-Piston Rotary Pumps	43 23 73.43	Air-Operated Piston Duplex Double-Acting Reciprocating Pumps
43 23 54	Flexible Member Pumps	43 23 74	Steam Horizontal Reciprocating Pumps
43 23 54.13	Flexible Tube Rotary Pumps	43 23 74.13	Steam Horizontal Double-Acting Piston Simplex Reciprocating Pumps
43 23 54.23	Flexible Vane Rotary Pumps	43 23 74.23	Steam Horizontal Double-Acting Piston Duplex Reciprocating Pumps
43 23 54.33	Flexible Liner Rotary Pumps	43 23 74.33	Steam Horizontal Double-Acting Plunger Simplex Reciprocating Pumps
43 23 56	Gear Pumps	43 23 74.43	Steam Horizontal Double-Acting Plunger Duplex Reciprocating Pumps
43 23 56.13	External Gear Rotary Pumps	43 23 75	Steam Vertical Reciprocating Pumps
43 23 56.23	Internal Gear Rotary Pumps	43 23 75.13	Steam Vertical Double-Acting Piston Simplex Reciprocating Pumps
43 23 57	Progressing Cavity Pumps	43 23 75.23	Steam Vertical Double-Acting Piston Duplex Reciprocating Pumps
43 23 58	Lobe Pumps	43 23 75.33	Steam Vertical Double-Acting Plunger Simplex Reciprocating Pumps
43 23 58.13	Single-Lobe Rotary Pumps	43 23 75.43	Steam Vertical Double-acting Plunger Duplex Reciprocating Pumps
43 23 58.23	Multiple-Lobe Rotary Pumps	43 23 76	Power Horizontal Reciprocating Pumps
43 23 59	Screw Pumps	43 23 76.11	Power Horizontal Single-Acting Piston Simplex Reciprocating Pumps
43 23 59.13	Single-Screw Rotary Pumps	43 23 76.12	Power Horizontal Single-Acting Piston Duplex Reciprocating Pumps
43 23 59.23	Multiple-Screw Rotary Pumps	43 23 76.13	Power Horizontal Single-Acting Piston Multiplex Reciprocating Pumps
43 23 71	Air-Operated Diaphragm Reciprocating Pumps		
43 23 71.13	Air-Operated Diaphragm Simplex Single-Acting Reciprocating Pumps		
43 23 71.23	Air-Operated Diaphragm Simplex Double-Acting Reciprocating Pumps		
43 23 71.33	Air-Operated Diaphragm Duplex Single-acting Reciprocating Pumps		
43 23 71.43	Air-Operated Diaphragm Duplex Double-acting Reciprocating Pumps		
43 23 72	Air-Operated Bellows Reciprocating Pumps		
43 23 72.13	Air-Operated Bellows Simplex Single-Acting Reciprocating Pumps		
43 23 72.23	Air-Operated Bellows Simplex Double-Acting Reciprocating Pumps		
43 23 72.33	Air-Operated Bellows Duplex Single-Acting Reciprocating Pumps		
43 23 72.43	Air-Operated Bellows Duplex Double-Acting Reciprocating Pumps		
43 23 73	Air-Operated Piston Reciprocating Pumps		

43 23 76.21	Power Horizontal Single-Acting Plunger Simplex Reciprocating Pumps	43 23 77.33	Power Vertical Double-Acting Piston Multiplex Reciprocating Pumps
43 23 76.22	Power Horizontal Single-Acting Plunger Duplex Reciprocating Pumps	43 23 77.41	Power Vertical Double-Acting Plunger Simplex Reciprocating Pumps
43 23 76.23	Power Horizontal Single-Acting Plunger Multiplex Reciprocating Pumps	43 23 77.42	Power Vertical Double-Acting Plunger Duplex Reciprocating Pumps
43 23 76.31	Power Horizontal Double-Acting Piston Simplex Reciprocating Pumps	43 23 77.43	Power Vertical Double-Acting Plunger Multiplex Reciprocating Pumps
43 23 76.32	Power Horizontal Double-Acting Piston Duplex Reciprocating Pumps	43 23 78	Controlled Volume Horizontal Reciprocating Pumps
43 23 76.33	Power Horizontal Double-Acting Piston Multiplex Reciprocating Pumps	43 23 78.11	Controlled Volume Horizontal Packed Plunger Simplex Reciprocating Pumps
43 23 76.41	Power Horizontal Double-Acting Plunger Simplex Reciprocating Pumps	43 23 78.12	Controlled Volume Horizontal Packed Plunger Duplex Reciprocating Pumps
43 23 76.42	Power Horizontal Double-Acting Plunger Duplex Reciprocating Pumps	43 23 78.13	Controlled Volume Horizontal Packed Plunger Multiplex Reciprocating Pumps
43 23 76.43	Power Horizontal Double-Acting Plunger Multiplex Reciprocating Pumps	43 23 78.21	Controlled Volume Horizontal Packed Piston Simplex Reciprocating Pumps
43 23 77	Power Vertical Reciprocating Pumps	43 23 78.22	Controlled Volume Horizontal Packed Piston Duplex Reciprocating Pumps
43 23 77.11	Power Vertical Single-Acting Piston Simplex Reciprocating Pumps	43 23 78.23	Controlled Volume Horizontal Packed Piston Multiplex Reciprocating Pumps
43 23 77.12	Power Vertical Single-Acting Piston Duplex Reciprocating Pumps	43 23 78.31	Controlled Volume Horizontal Mechanically-Coupled Diaphragm Simplex Reciprocating Pumps
43 23 77.13	Power Vertical Single-Acting Piston Multiplex Reciprocating Pumps	43 23 78.32	Controlled Volume Horizontal Mechanically-Coupled Diaphragm Duplex Reciprocating Pumps
43 23 77.21	Power Vertical Single-Acting Plunger Simplex Reciprocating Pumps	43 23 78.33	Controlled Volume Horizontal Mechanically-Coupled Diaphragm Multiplex Reciprocating Pumps
43 23 77.22	Power Vertical Single-Acting Plunger Duplex Reciprocating Pumps	43 23 78.34	Controlled Volume Horizontal Hydraulically-Coupled Diaphragm Simplex Reciprocating Pumps
43 23 77.23	Power Vertical Single-Acting Plunger Multiplex Reciprocating Pumps	43 23 78.35	Controlled Volume Horizontal Hydraulically-Coupled Diaphragm Duplex Reciprocating Pumps
43 23 77.31	Power Vertical Double-Acting Piston Simplex Reciprocating Pumps		
43 23 77.32	Power Vertical Double-Acting Piston Duplex Reciprocating Pumps		

43 23 78.36	Controlled Volume Horizontal Hydraulically-Coupled Diaphragm Multiplex Reciprocating Pumps	43 24 13	Vertically Suspended Single- Casing Discharge-through- column Centrifugal Pumps
43 23 79	Controlled Volume Vertical Reciprocating Pumps	43 24 13.13	Vertically Suspended Single- Casing Discharge-through- column Diffuser Centrifugal Pumps
43 23 79.11	Controlled Volume Vertical Packed Plunger Simplex Reciprocating Pumps	43 24 13.23	Vertically Suspended Single- Casing Discharge-through- column Volute Centrifugal Pumps
43 23 79.12	Controlled Volume Vertical Packed Plunger Duplex Reciprocating Pumps	43 24 13.33	Vertically Suspended Single- Casing Discharge-through- column Axial Flow Centrifugal Pumps
43 23 79.13	Controlled Volume Vertical Packed Plunger Multiplex Reciprocating Pumps	43 24 16	Vertically Suspended Single- casing Separate Discharge (Sump) Centrifugal Pumps
43 23 79.21	Controlled Volume Vertical Packed Piston Simplex Reciprocating Pumps	43 24 16.13	Vertically Suspended Single- Casing Separate Discharge (Sump) Line Shaft Centrifugal Pumps
43 23 79.22	Controlled Volume Vertical Packed Piston Duplex Reciprocating Pumps	43 24 16.23	Vertically Suspended Single- Casing Separate Discharge (Sump) Cantilever Centrifugal Pumps
43 23 79.23	Controlled Volume Vertical Packed Piston Multiplex Reciprocating Pumps	43 24 21	Vertically Suspended Double-Casing Centrifugal Pumps
43 23 79.31	Controlled Volume Vertical Mechanically-Coupled Diaphragm Simplex Reciprocating Pumps	43 24 21.13	Vertically Suspended Double- Casing Diffuser Centrifugal Pumps
43 23 79.32	Controlled Volume Vertical Mechanically-Coupled Diaphragm Duplex Reciprocating Pumps	43 24 21.23	Vertically Suspended Double- Casing Volute Centrifugal Pumps
43 23 79.33	Controlled Volume Vertical Mechanically-Coupled Diaphragm Multiplex Reciprocating Pumps	43 24 26	Vertically Suspended Inline Casing Diffuser Centrifugal Pumps
43 23 79.34	Controlled Volume Vertical Hydraulically-Coupled Diaphragm Simplex Reciprocating Pumps	43 24 41	Archimedes Screw Pumps
43 23 79.35	Controlled Volume Vertical Hydraulically-Coupled Diaphragm Duplex Reciprocating Pumps	43 24 41.13	Positive-Displacement Inclined Open Archimedes Screw-type Pumps
43 23 79.36	Controlled Volume Vertical Hydraulically-Coupled Diaphragm Multiplex Reciprocating Pumps	43 24 41.23	Positive-Displacement Inclined Closed-casing Archimedes Screw-type Pumps
<b>43 24 00</b>	<b>Suspended Liquid Pumps</b>	<b>43 25 00</b>	<b>Submersible/Immersible Liquid Pumps</b>
43 24 11	Vertically Suspended Single-Casing Submersible Centrifugal Pumps	43 25 13	Overhung Close-Coupled Submersible Centrifugal Pumps



43 25 13.13	Overhung Close-Coupled Submersible Diffuser Centrifugal Pumps	43 27 73	Nonwoven Media Liquid Filters
43 25 13.23	Overhung Close-Coupled Submersible Volute Centrifugal Pumps	43 27 73.13	Surface Liquid Filters
43 25 50	Positive Displacement Submersible Liquid Pumps	43 27 73.23	Depth Liquid Filters
<b>43 26 00</b>	<b>Specialized Liquid Pumps</b>	<b>43 30 00</b>	<b>Gas and Liquid Purification Equipment</b>
43 26 13	Submersible Grinder Pumps	<b>43 31 00</b>	<b>Gas and Liquid Purification Filtration Equipment</b>
43 26 30	Regenerative Centrifugal Pumps	43 31 13	Gas and Liquid Purification Filters
43 26 30.13	Overhung Impeller Regenerative Turbine Pumps	43 31 13.13	Activated Carbon-Gas and Liquid Purification Filters
43 26 30.21	Overhung Impeller Single-Stage Regenerative Turbine Pumps	43 31 13.16	Gas and Liquid Purification Filter Presses
43 26 30.23	Overhung Impeller Two-Stage Regenerative Turbine Pumps	43 31 13.19	High-Purity Cartridge Gas and Liquid Purification Filters
43 26 30.26	Between-Bearings Impeller Regenerative Turbine Pumps	43 31 13.23	Membrane Diaphragm Gas and Liquid Purification Filters
43 26 30.27	Between-Bearings Impeller Single-Stage Regenerative Turbine Pumps	43 31 13.26	Multimedia Gas and Liquid Purification Filters
43 26 30.29	Between-Bearings Impeller Two-Stage Regenerative Turbine Pumps	43 31 13.29	Pretreatment Cartridge Gas and Liquid Purification Filters
43 26 40	Regenerative Turbine Pumps	43 31 13.33	Ultrafilter Units
43 26 60	Regenerative Vacuum Pumps	<b>43 32 00</b>	<b>Gas and Liquid Purification Process Equipment</b>
43 26 70	Rotating-Case Pumps	43 32 13	Gas and Liquid Purification Process Beds
<b>43 27 00</b>	<b>Process Liquid Filters</b>	43 32 13.13	Anion-Gas and Liquid Purification Process Beds
43 27 13	Cyclonic Liquid Filters	43 32 13.16	Cation-Gas and Liquid Purification Process Beds
43 27 16	Centrifugal Horizontal Pressure Leaf Liquid Filters	43 32 23	Gas and Liquid Purification Process Clarifier Systems
43 27 19	Press Liquid Filters	43 32 26	Gas and Liquid Purification Decarbonators
43 27 23	Liquid Bag Filters	43 32 29	Electronic Deionization Purification Units
43 27 33	Mechanically Cleaned Liquid Filters	43 32 33	External Regeneration Systems
43 27 43	Tubular Backwashing Liquid Filters	43 32 36	Mixed-Bed Ion-Exchange Vessels
43 27 53	Vacuum Belt Liquid Filters	43 32 39	Gas and Liquid Purification Mixed Beds
43 27 63	Woven Media Liquid Filters	43 32 39.13	Externally Regenerable Gas and Liquid Purification Mixed Beds
43 27 63.13	Disc Liquid Filters		
43 27 63.23	Rotating Drum Liquid Filters		
43 27 63.33	Layer Liquid Filters		
43 27 63.43	Candle Liquid Filters		
43 27 63.53	Vertical Leaf Liquid Filters		

43 32 39.16	In-Situ Regenerable Gas and Liquid Purification Mixed Beds	43 42 33	Stainless Steel Pressure Tanks
43 32 53	Packed-Bed Ion-Exchange Vessels	43 42 36	Aluminum Pressure Tanks
43 32 56	Reverse-Osmosis Purification Units	43 42 41	Metallic Specialty Pressure Tanks
43 32 59	Gas and Liquid Purification Scrubbers	43 42 53	Fiberglass Reinforced Plastic Pressure Tanks
43 32 63	Ultraviolet Sterilizers	43 42 83	Non-metallic Specialty Pressure Tanks
43 32 66	Vacuum Degasifiers		
43 32 69	Chemical Feed Systems		
43 32 73	Ozonation Equipment		
43 32 76	Chlorination Equipment		
<b>43 40 00</b>	<b>Gas and Liquid Storage</b>	<b>44 00 00</b>	<b>Pollution and Waste Control Equipment</b>
<b>43 41 00</b>	<b>Non-pressurized Tanks and Vessels</b>	<b>44 01 00</b>	<b>Operation and Maintenance of Pollution and Waste Control Equipment</b>
43 41 11	Bolted Steel Tanks	44 01 10	Operation and Maintenance of Air Pollution Control
43 41 13	Welded Steel Tanks	44 01 20	Operation and Maintenance of Noise Pollution Control
43 41 13.13	Glass-lined Welded Steel Tanks	44 01 30	Operation and Maintenance of Odor Control Equipment
43 41 13.23	Rubber-lined Welded Steel Tanks	44 01 40	Operation and Maintenance of Water Pollution Control Equipment
43 41 13.33	Epoxy-lined Welded Steel Tanks	44 01 40	Operation and Maintenance of Water Pollution Control Equipment
43 41 13.43	Ceramic-lined Welded Steel Tanks	44 01 50	Operation and Maintenance of Solid Waste Control and Reuse
43 41 23	Stainless Steel Tanks	44 01 60	Operation and Maintenance of Waste Thermal Processing Equipment
43 41 26	Aluminum Tanks	<b>44 05 00</b>	<b>Common Work Results for Pollution and Waste Control Equipment</b>
43 41 31	Metallic Specialty Tanks	44 05 05	Selective Demolition for Pollution and Waste Control Equipment
43 41 41	Polyvinyl Chloride Tanks	<b>44 06 00</b>	<b>Schedules for Pollution and Waste Control Equipment</b>
43 41 43	Polyethylene Tanks	44 06 10	Schedules for Air Pollution Control
43 41 45	Fiberglass Reinforced Plastic Tanks	44 06 20	Schedules for Noise Pollution Control
43 41 53	Wood Stave Tanks	44 06 30	Schedules for Odor Control Equipment
43 41 63	Precast Concrete Tanks		
43 41 73	Ceramic Tanks		
43 41 83	Non-metallic Specialty Tanks		
<b>43 42 00</b>	<b>Pressurized Tanks and Vessels</b>		
43 42 11	Cast Iron Pressure Tanks		
43 42 13	Ductile Iron Pressure Tanks		
43 42 21	Welded Steel Pressure Tanks		
43 42 23	Glass-lined Steel Pressure Tanks		
43 42 26	Welded Steel Gas Storage Sphere		

44 06 40	Schedules for Water Pollution Control Equipment	44 11 59	Disposable Dry Filtration Equipment
44 06 50	Schedules for Solid Waste Control and Reuse	44 11 71	Cyclone Dust Collection Equipment
44 06 60	Schedules for Waste Thermal Processing Equipment	44 11 73	Multicyclone Dust Collection Equipment
<b>44 08 00</b>	<b>Commissioning of Pollution and Waste Control Equipment</b>	44 11 76	Mist Elimination Equipment
44 08 10	Commissioning of Air Pollution Control	44 11 93	Wet Electrostatic Precipitator Equipment
44 08 20	Commissioning of Noise Pollution Control	44 11 96	Dry Plate Electrostatic Precipitator Equipment
44 08 30	Commissioning of Odor Control Equipment	<b>44 13 00</b>	<b>Gaseous Air Pollution Control Equipment</b>
44 08 40	Commissioning Water Pollution Control Equipment	44 13 11	Spray Tower/Chamber Absorption Equipment
44 08 50	Commissioning Solid Waste Control and Reuse	44 13 13	Packed Tower/Chamber Absorption Equipment
44 08 60	Commissioning of Waste Thermal Processing Equipment	44 13 14	Tray Tower Absorption Equipment
<b>44 10 00</b>	<b>Air Pollution Control</b>	44 13 16	Jet Bubbling Reactor Equipment
<b>44 11 00</b>	<b>Particulate Control Equipment</b>	44 13 17	Venturi Absorption Equipment
44 11 13	Fugitive Dust Control	44 13 20	Vacuum Extraction Systems
44 11 16	Fugitive Dust Barrier Systems	44 13 31	Powdered Injection Adsorption Equipment
44 11 19	Atmospheric Air Quality Monitoring Equipment	44 13 33	Fluidized Bed Adsorption Equipment
44 11 20	Gravitational Separators	44 13 34	Fixed Bed Adsorption Equipment
44 11 31	Venturi Scrubbing Equipment	44 13 36	Rotary Bed Adsorption Equipment
44 11 33	Spray Tower/Chamber Scrubbing Equipment	44 13 39	Radial Bed Adsorption Equipment
44 11 36	Cyclone Scrubbing Equipment	44 13 51	Thermal Oxidation Equipment
44 11 51	Pulse Jet Fabric Filtration Equipment	44 13 53	Catalytic Oxidation Equipment
44 11 53	Reverse Flow Fabric Filtration Equipment	44 13 56	Flare Oxidation Equipment
44 11 54	Shake/Deflate Fabric Filtration Equipment	44 13 59	Claus Sulfur Recovery Equipment
44 11 56	Cartridge Filtration Equipment	44 13 71	Thermal Reduction Equipment
		44 13 73	Catalytic Reduction Equipment
		44 13 76	Non-catalytic Reduction Equipment

44 13 77	Selective Non-catalytic Reduction Equipment	44 31 41	Odor Control Vapor Combustion Equipment
44 13 81	Condensation Systems	44 31 83	Adjusting and Balancing Odor Control Systems
44 13 83	Contact Condensing Equipment	<b>44 32 00</b>	<b>Odor Dispersing and Masking/Counteracting Equipment</b>
44 13 86	Solvent Recovery Equipment	44 32 13	Odor Dispersing Exhaust Stacks
44 13 91	Biofilter Media	44 32 13.13	Fan-equipped Odor Dispersing Exhaust Stacks
44 13 93	Fixed Bed Biofilter Equipment	44 32 23	Odor Masking/Counteracting Equipment
44 13 96	Fixed Bed Biotrickling Filter Equipment	<b>44 40 00</b>	<b>Water Pollution Control Equipment</b>
44 13 97	Fixed Bed Bioscrubbing Equipment	<b>44 41 00</b>	<b>Water Pollution Containment and Cleanup Equipment</b>
<b>44 20 00</b>	<b>Noise Pollution Control</b>	44 41 13	Spill Cleanup
<b>44 21 00</b>	<b>Noise Pollution Control Equipment</b>	44 41 21	Containment Booms
44 21 13	Fixed Noise Abatement Barriers	44 41 23	Marine Spill Accessories
44 21 16	Flexible Noise Abatement Barriers	44 41 31	Spill Decks
44 21 19	Portable Noise Abatement Barriers	44 41 32	Drum Containment Units
44 21 23	Noise Pollution Silencers	44 41 33	Containment Pallets
44 21 26	Frequency Cancellers	44 41 34	Prefabricated Spill Containment Curbing
<b>44 30 00</b>	<b>Odor Control</b>	44 41 36	Prefabricated Spill Containment Berms
<b>44 31 00</b>	<b>Odor Treatment Equipment</b>	44 41 37	Prefabricated Berms for Tank Containment
44 31 11	Wet Chemical Packed Tower Odor Control Equipment	44 41 41	Collapsible Storage Tanks
44 31 13	Chemical Mist System Odor Control Equipment	<b>44 50 00</b>	<b>Solid Waste Control and Reuse</b>
44 31 16	Activated Carbon Adsorption Odor Control Equipment	<b>44 51 00</b>	<b>Solid Waste Collection, Transfer, and Hauling Equipment</b>
44 31 19	Packaged Odor Control Systems	44 51 13	Solid Waste Portable Containers
44 31 21	Odor Control Biofilters	44 51 16	Solid Waste Stationary Containers
44 31 28	Odor Control Biofilter Aeration Floor	44 51 23	Solid Waste Transfer Trailers
44 31 29	Odor Control Biofilter Media	<b>44 53 00</b>	<b>Solid Waste Processing Equipment</b>
44 31 31	Odor Control Biotrickling Filter Equipment	44 53 11	Live-floor Storage Bins
44 31 33	Odor Control Bioscrubbing Equipment		

44 53 13	Refuse Cranes and Accessories	44 55 73	Compost Liquid Extraction Equipment
44 53 16	Solid Waste Screens	<b>44 60 00</b>	<b>Waste Thermal Processing Equipment</b>
44 53 21	Car Crushers	<b>44 61 00</b>	<b>Waste-to-Energy Plants</b>
44 53 23	Shears and Guillotines	44 61 13	Waste Receiving, Management, and Feed Equipment
44 53 26	Shredders and Grinders	44 61 16	Mass Burn Combustion Equipment
44 53 27	Perforators	44 61 23	Refuse-derived Fuel Feed Equipment
44 53 31	Bag Breakers	44 61 26	Refuse-derived Fuel Combustion Equipment
44 53 33	Granulators	44 61 29	Modular Combustion System Equipment
44 53 36	Crumb Rubber Systems	44 61 31	Ash Handling Equipment
44 53 39	Briquetters	44 61 33	Post-combustion Ferrous Metals Recovery Equipment
44 53 41	Vibratory Table Separation Equipment	44 61 36	Post-combustion Non-ferrous Metals Recovery Equipment
44 53 43	Ferrous Metals Separation Equipment	<b>44 62 00</b>	<b>Fluidized Bed Combustion Equipment</b>
44 53 44	Eddy Current Separators	<b>44 63 00</b>	<b>Rotary Kiln Incinerators</b>
44 53 46	Single-stream Materials Separation Equipment	<b>44 64 00</b>	<b>Gasification Equipment</b>
44 53 49	Ballistic Separators	44 64 13	Counter-current Fixed Bed Gasification Equipment
44 53 51	Air Classifying Equipment	44 64 23	Co-current Fixed Bed Gasification Equipment
44 53 52	Air Knives	44 64 33	Fluidized Bed Gasification Equipment
44 53 53	Optical Sorting Equipment	44 64 43	Entrained Flow Gasification Equipment
44 53 56	Packaged Sorting Stations	44 64 53	Plasma Arc Gasification Equipment
44 53 59	Packaged Reclaimer Stations	<b>44 65 00</b>	<b>Pyrolysis Equipment</b>
44 53 61	Solid Waste Compactors	<b>44 66 00</b>	<b>Hazardous Waste and Medical Waste Incinerators</b>
44 53 63	Solid Waste Baling Equipment	<b>44 67 00</b>	<b>Heat Recovery Equipment for Waste Thermal Processing</b>
44 53 64	Bagging Equipment		
44 53 66	Wrappers		
44 53 73	Solid Waste Liquid Extraction Equipment		
<b>44 55 00</b>	<b>Composting Equipment</b>		
44 55 11	Electromechanical Composters		
44 55 13	Compost Screening Equipment		
44 55 16	Compost Shredding Equipment		
44 55 23	Compost Pile Turning Equipment		
44 55 26	Compost Mixing and Blending Equipment		
44 55 33	In-vessel Composting Equipment		
44 55 43	Compost Pad System		

<b>44 68 00</b>	<b>Synthesis Gas Cleanup and Handling Equipment</b>	45 15 06	Schedules for Food Manufacturing Equipment
		45 15 10	User-Defined Food Manufacturing Equipment
<b>45 00 00</b>	<b>Industry-Specific Manufacturing Equipment</b>	<b>45 16 00</b>	<b>User-Defined Food Manufacturing Equipment</b>
<b>45 05 00</b>	<b>Common Work Results for Industry-Specific Manufacturing Equipment</b>	<b>45 17 00</b>	<b>Beverage and Tobacco Manufacturing Equipment</b>
45 05 05	Selective Demolition for Industry-Specific Manufacturing Equipment	45 17 01	Operation and Maintenance of Beverage and Tobacco Manufacturing Equipment
<b>45 08 00</b>	<b>Commissioning of Industry-Specific Manufacturing Equipment</b>	45 17 06	Schedules for Beverage and Tobacco Manufacturing Equipment
<b>45 11 00</b>	<b>Oil and Gas Extraction Equipment</b>	45 17 10	User-Defined Beverage and Tobacco Manufacturing Equipment
45 11 01	Operation and Maintenance of Oil and Gas Extraction Equipment	<b>45 18 00</b>	<b>User-Defined Beverage and Tobacco Manufacturing Equipment</b>
45 11 06	Schedules for Oil and Gas Extraction Equipment	<b>45 19 00</b>	<b>Textiles and Apparel Manufacturing Equipment</b>
45 11 10	User-Defined Oil and Gas Extraction Equipment	45 19 01	Operation and Maintenance of Textiles and Apparel Manufacturing Equipment
<b>45 12 00</b>	<b>User-Defined Oil and Gas Extraction Equipment</b>	45 19 06	Schedules for Textiles and Apparel Manufacturing Equipment
<b>45 13 00</b>	<b>Mining Machinery and Equipment</b>	45 19 10	User-Defined Textiles and Apparel Manufacturing Equipment
45 13 01	Operation and Maintenance of Mining Machinery and Equipment	<b>45 20 00</b>	<b>User-Defined Textiles and Apparel Manufacturing Equipment</b>
45 13 06	Schedules for Mining Machinery and Equipment	<b>45 21 00</b>	<b>Leather and Allied Product Manufacturing Equipment</b>
45 13 10	User-Defined Mining Machinery and Equipment	45 21 01	Operation and Maintenance of Leather and Allied Product Manufacturing Equipment
<b>45 14 00</b>	<b>User-Defined Mining Machinery and Equipment</b>		
<b>45 15 00</b>	<b>Food Manufacturing Equipment</b>		
45 15 01	Operation and Maintenance of Food Manufacturing Equipment		

45 21 06	Schedules for Leather and Allied Product Manufacturing Equipment	<b>45 28 00</b>	<b>User-Defined Printing and Related Manufacturing Equipment</b>
45 21 10	User-Defined Leather and Allied Product Manufacturing Equipment	<b>45 29 00</b>	<b>Petroleum and Coal Products Manufacturing Equipment</b>
<b>45 22 00</b>	<b>User-Defined Leather and Allied Product Manufacturing Equipment</b>	45 29 01	Operation and Maintenance of Petroleum and Coal Products Manufacturing Equipment
<b>45 23 00</b>	<b>Wood Product Manufacturing Equipment</b>	45 29 06	Schedules for Petroleum and Coal Products Manufacturing Equipment
45 23 01	Operation and Maintenance of Wood Product Manufacturing Equipment	45 29 10	User-Defined Petroleum and Coal Products Manufacturing Equipment
45 23 06	Schedules for Wood Product Manufacturing Equipment	<b>45 30 00</b>	<b>User-Defined Petroleum and Coal Products Manufacturing Equipment</b>
45 23 10	User-Defined Wood Product Manufacturing Equipment	<b>45 31 00</b>	<b>Chemical Manufacturing Equipment</b>
<b>45 24 00</b>	<b>User-Defined Wood Product Manufacturing Equipment</b>	45 31 01	Operation and Maintenance of Chemical Manufacturing Equipment
<b>45 25 00</b>	<b>Paper Manufacturing Equipment</b>	45 31 06	Schedules for Chemical Manufacturing Equipment
45 25 01	Operation and Maintenance of Paper Manufacturing Equipment	45 31 10	User-Defined Chemical Manufacturing Equipment
45 25 06	Schedules for Paper Manufacturing Equipment	<b>45 32 00</b>	<b>User-Defined Chemical Manufacturing Equipment</b>
45 25 10	User-Defined Paper Manufacturing Equipment	<b>45 33 00</b>	<b>Plastics and Rubber Manufacturing Equipment</b>
<b>45 26 00</b>	<b>User-Defined Paper Manufacturing Equipment</b>	45 33 01	Operation and Maintenance of Plastics and Rubber Manufacturing Equipment
<b>45 27 00</b>	<b>Printing and Related Manufacturing Equipment</b>	45 33 06	Schedules for Plastics and Rubber Manufacturing Equipment
45 27 01	Operation and Maintenance of Printing and Related Manufacturing Equipment	45 33 10	User-Defined Plastics and Rubber Manufacturing Equipment
45 27 06	Schedules for Printing and Related Manufacturing Equipment		
45 27 10	User-Defined Printing and Related Manufacturing Equipment		

<b>45 34 00</b>	<b>User-Defined Plastics and Rubber Manufacturing Equipment</b>	<b>45 40 00</b>	<b>User-Defined Fabricated Metal Product Manufacturing Equipment</b>
<b>45 35 00</b>	<b>Nonmetallic Mineral Product Manufacturing Equipment</b>	<b>45 41 00</b>	<b>Machinery Manufacturing Equipment</b>
45 35 01	Operation and Maintenance of Nonmetallic Mineral Product Manufacturing Equipment	45 41 01	Operation and Maintenance of Machinery Manufacturing Equipment
45 35 06	Schedules for Nonmetallic Mineral Product Manufacturing Equipment	45 41 06	Schedules for Machinery Manufacturing Equipment
45 35 10	User-Defined Nonmetallic Mineral Product Manufacturing Equipment	45 41 10	User-Defined Machinery Manufacturing Equipment
<b>45 36 00</b>	<b>User-Defined Nonmetallic Mineral Product Manufacturing Equipment</b>	<b>45 42 00</b>	<b>User-Defined Machinery Manufacturing Equipment</b>
<b>45 37 00</b>	<b>Primary Metal Manufacturing Equipment</b>	<b>45 43 00</b>	<b>Computer and Electronic Product Manufacturing Equipment</b>
45 37 01	Operation and Maintenance of Primary Metal Manufacturing Equipment	45 43 01	Operation and Maintenance of Computer and Electronic Product Manufacturing Equipment
45 37 06	Schedules for Primary Metal Manufacturing Equipment	45 43 06	Schedules for Computer and Electronic Product Manufacturing Equipment
45 37 10	User-Defined Primary Metal Manufacturing Equipment	45 43 10	User-Defined Computer and Electronic Product Manufacturing Equipment
<b>45 38 00</b>	<b>User-Defined Primary Metal Manufacturing Equipment</b>	<b>45 44 00</b>	<b>User-Defined Computer and Electronic Product Manufacturing Equipment</b>
<b>45 39 00</b>	<b>Fabricated Metal Product Manufacturing Equipment</b>	<b>45 45 00</b>	<b>Electrical Equipment, Appliance, and Component Manufacturing Equipment</b>
45 39 01	Operation and Maintenance of Fabricated Metal Product Manufacturing Equipment	45 45 01	Operation and Maintenance of Electrical Equipment, Appliance, and Component Manufacturing Equipment
45 39 06	Schedules for Fabricated Metal Product Manufacturing Equipment		
45 39 10	User-Defined Fabricated Metal Product Manufacturing Equipment		



45 45 06	Schedules for Electrical Equipment, Appliance, and Component Manufacturing Equipment	<b>45 50 00</b>	<b>User-Defined Furniture and Related Product Manufacturing Equipment</b>
45 45 10	User-Defined Electrical Equipment, Appliance, and Component Manufacturing Equipment	<b>45 52 00</b>	<b>User-Defined Other Manufacturing Equipment</b>
<b>45 46 00</b>	<b>User-Defined Electrical Equipment, Appliance, and Component Manufacturing Equipment</b>	<b>45 53 00</b>	<b>Biopharmaceutical Manufacturing Equipment</b>
<b>45 47 00</b>	<b>Transportation Manufacturing Equipment</b>	<b>46 00 00</b>	<b>Water and Wastewater Equipment</b>
45 47 01	Operation and Maintenance of Transportation Manufacturing Equipment	<b>46 01 00</b>	<b>Operation and Maintenance of Water and Wastewater Equipment</b>
45 47 06	Schedules for Transportation Manufacturing Equipment	46 01 07	Operation and Maintenance of Packaged Treatment Equipment
45 47 10	User-Defined Transportation Manufacturing Equipment	46 01 20	Operation and Maintenance of Preliminary Treatment Equipment
<b>45 48 00</b>	<b>User-Defined Transportation Manufacturing Equipment</b>	46 01 30	Operation and Maintenance of Chemical Feed Equipment
<b>45 49 00</b>	<b>Furniture and Related Product Manufacturing Equipment</b>	46 01 40	Operation and Maintenance of Clarification and Mixing Equipment
45 49 01	Operation and Maintenance of Furniture and Related Product Manufacturing Equipment	46 01 50	Operation and Maintenance of Secondary Treatment Equipment
45 49 06	Schedules for Furniture and Related Product Manufacturing Equipment	46 01 60	Operation and Maintenance of Advanced Treatment Equipment
45 49 10	User-Defined Furniture and Related Product Manufacturing Equipment	46 01 70	Operation and Maintenance of Residuals Handling and Treatment
		<b>46 05 00</b>	<b>Common Work Results for Water and Wastewater Equipment</b>
		46 05 05	Selective Demolition for Water and Wastewater Equipment

<b>46 06 00</b>	<b>Schedules for Water and Wastewater Equipment</b>	<b>46 20 00</b>	<b>Water and Wastewater Preliminary Treatment Equipment</b>
46 06 07	Schedules for Packaged Treatment Equipment		
46 06 20	Schedules for Preliminary Treatment Equipment		
46 06 30	Schedules for Chemical Feed Equipment	<b>46 21 00</b>	<b>Screening Equipment</b>
46 06 40	Schedules for Clarification and Mixing Equipment	46 21 11	Climber-type Bar Screens
46 06 50	Schedules for Secondary Treatment Equipment	46 21 13	Chain-and-Rake Bar Screens
46 06 60	Schedules for Advanced Treatment Equipment	46 21 16	Flexible Rake Bar Screens
46 06 70	Schedules for Residuals Handling and Treatment	46 21 17	Catenary Bar Screens
<b>46 07 00</b>	<b>Packaged Water and Wastewater Treatment Equipment</b>	46 21 19	Continuous Belt Screens
46 07 13	Packaged Water Treatment Equipment	46 21 23	Cylindrical Bar Screens
46 07 53	Packaged Wastewater Treatment Equipment	46 21 26	Step Screens
<b>46 08 00</b>	<b>Commissioning of Water and Wastewater Equipment</b>	46 21 33	Rotary Drum Screens
46 08 07	Commissioning of Packaged Treatment Equipment	46 21 39	Spiral Screens
46 08 20	Commissioning of Preliminary Treatment Equipment	46 21 43	Band Screens
46 08 30	Commissioning of Chemical Feed Equipment	46 21 46	Disc Screens
46 08 40	Commissioning of Clarification and Mixing Equipment	46 21 51	Traveling Water Screens
46 08 50	Commissioning of Secondary Treatment Equipment	46 21 53	Perforated Plate Screens
46 08 60	Commissioning of Advanced Treatment Equipment	46 21 56	Wedge Wire Screens
46 08 70	Commissioning of Residuals Handling and Treatment	46 21 57	Element Screens
		46 21 71	Trash Raking Equipment
		46 21 73	Screenings Washing and Compacting Equipment
		46 21 76	Vacuum Screenings Conveying Equipment
		46 21 79	Screenings Storage Containers
		46 21 83	Septage Receiving Equipment
		<b>46 23 00</b>	<b>Grit Removal and Handling Equipment</b>
		46 23 13	Chain-and-Bucket Grit Removal Equipment
		46 23 16	Chain-and-Flight Grit Removal Equipment
		46 23 23	Vortex Grit Removal Equipment
		46 23 27	Cyclone Degritters
		46 23 33	Aerated Grit Removal Equipment
		46 23 43	Inline Baffled Grit Removal Equipment
		46 23 53	Traveling Bridge Grit Removal Equipment

46 23 63	Grit Classifying and Washing Equipment	46 31 26	Emergency Gas Treatment Systems
46 23 66	Grit Storage Containers	46 31 33	Chlorine Dioxide Reactors
<b>46 24 00</b>	<b>Grinding and Shredding Equipment</b>	46 31 43	Carbon Dioxide Gas Feed Equipment
46 24 13	Macerators	46 31 53	Ozone Generating and Feed Equipment
46 24 16	Comminutors	46 31 56	Liquid Oxygen Storage and Feed Equipment
46 24 23	Inline Grinders	46 31 59	Cleaning Requirements for Oxygen Service
46 24 33	Open-channel Grinders	46 31 83	Gas Chemical Feed Accessories and Safety Equipment
46 24 36	Modular Grinding-Screening-Compacting Equipment	<b>46 33 00</b>	<b>Liquid Chemical Feed Equipment</b>
<b>46 25 00</b>	<b>Oil and Grease Separation and Removal Equipment</b>	46 33 13	Sodium Hypochlorite Generating Equipment
46 25 13	Coalescing Oil-Water Separators	46 33 23	Liquid Chemical Weighing Equipment
46 25 16	API Oil-Water Separators	46 33 33	Polymer Blending and Feed Equipment
46 25 23	Grease Traps	46 33 41	Liquid Chemical Feed System Coordination and Integration
46 25 33	Dissolved Air Flotation Grease and Oil Separation Equipment	46 33 42	Diaphragm-type Metering Pumps
46 25 41	Helical Scum Skimming and Removal Equipment	46 33 44	Peristaltic Metering Pumps
46 25 43	Tipping Trough Scum Skimming and Removal Equipment	46 33 46	Progressing Cavity Metering Pumps
46 25 46	Chain and Flight Scum Collection and Removal Equipment	46 33 48	Lobe Metering Pumps
46 25 47	Floating Scum Skimming and Removal Equipment	46 33 53	Drum Pumps
<b>46 30 00</b>	<b>Water and Wastewater Chemical Feed Equipment</b>	46 33 66	Liquid Chemical Transfer Pumps
<b>46 31 00</b>	<b>Gas Chemical Feed Equipment</b>	46 33 73	Liquid Chemical Diffusers
46 31 11	Chlorine Gas Feed Equipment	46 33 83	Liquid Chemical Feed Accessories and Safety Equipment
46 31 13	Sulfur Dioxide Gas Feed Equipment	<b>46 36 00</b>	<b>Dry Chemical Feed Equipment</b>
46 31 16	Ammonia Gas Feed Equipment	46 36 11	Dry Chemical Feed System Coordination and Integration
46 31 23	Gas Storage, Weighing, and Leak Detection Equipment	46 36 13	Storage Silos
		46 36 23	Dry Chemical Weighing Equipment
		46 36 33	Volumetric Feed Equipment

46 36 36	Gravimetric Feed Equipment	46 43 21	Circular Clarifier Equipment
46 36 43	Lime Slaking Equipment	46 43 53	Solids Contact Clarifier Equipment
46 36 53	Chemical Tablet Feeding Equipment	46 43 61	Flocculating Clarifier, Pulsating Sludge Blanket Type
46 36 83	Dry Chemical Feed Accessories and Safety Equipment	46 43 63	Dissolved Air Flotation Equipment for Water Treatment
<b>46 40 00</b>	<b>Water and Wastewater Clarification and Mixing Equipment</b>	46 43 66	Ballasted High-rate Clarifier Equipment
<b>46 41 00</b>	<b>Mixing Equipment</b>	46 43 67	High Rate Clarification/Thickening Equipment
46 41 11	Rapid Mixers	46 43 73	Tube Settlers
46 41 13	Inline Blender-type Rapid Mixers	46 43 76	Inclined Plate Settlers
46 41 16	Induction-type Rapid Mixing Equipment	<b>46 46 00</b>	<b>Sediment Removal Equipment</b>
46 41 17	Inline Static Mixers	46 46 13	Tipping Sediment Flushing Tanks
46 41 21	Jet Mixing Equipment	46 46 16	Flushing Gates
46 41 23	Submersible Mixers	46 46 23	Water Cannon
46 41 26	Floating Mechanical Mixers	46 46 26	Nozzle Systems
46 41 27	Paddle Mixers	<b>46 50 00</b>	<b>Water and Wastewater Secondary Treatment Equipment</b>
46 41 29	Pin Mixers	<b>46 51 00</b>	<b>Air and Gas Diffusion Equipment</b>
46 41 31	Vertical Reel Flocculation Equipment	46 51 11	Fixed Mechanical Aerators
46 41 33	Horizontal Reel Flocculation Equipment	46 51 13	Floating Mechanical Aerators
46 41 34	Vertical Turbine Flocculation Equipment	46 51 16	Submersible Aspirating Aerator Equipment
46 41 36	Walking-beam Flocculation Equipment	46 51 17	Jet Aeration Equipment
46 41 38	Horizontal Oscillating Flocculation Equipment	46 51 21	Coarse Bubble Diffusers
46 41 41	Top-entering Tank Mixers	46 51 23	Swing-type Channel Aeration Equipment
46 41 43	Side-entry Tank Mixers	46 51 26	Shear Box Diffusers
46 41 46	Portable Tank Mixers	46 51 31	Flexible Membrane Tube Diffusers
<b>46 43 00</b>	<b>Clarifier Equipment</b>	46 51 33	Flexible Membrane Disc Diffusers
46 43 11	Chain-and-Flight Clarifier Equipment	46 51 36	Ceramic Disc Fine Bubble Diffusers
46 43 14	Traveling Bridge Clarifier Equipment		
46 43 16	Differential Head Clarifier Equipment		
46 43 18	Oscillating Scraper-type Clarifier Equipment		

46 51 43	Floating Membrane Diffusers	46 61 43	Rotary Drum Cloth Filters
46 51 46	Membrane Diffusers	46 61 46	Automatic Backwash Cloth Filter Equipment
46 51 53	Cascading Aerators	46 61 53	Cartridge Filters
46 51 63	Pure-oxygen Generating Equipment	46 61 63	Bag Filters
<b>46 53 00</b>	<b>Biological Treatment Systems</b>	46 61 73	Automatic Straining Equipment
46 53 13	Rotating Biological Contactors	<b>46 63 00</b>	<b>Demineralization Equipment</b>
46 53 23	Trickling Filter Rotary Distributor Equipment	46 63 11	Ion-exchange Vessel Media
46 53 24	Trickling Filter Media	46 63 13	Mixed Bed Ion-exchange Vessel Systems
46 53 26	Bio-towers	46 63 16	Packed Bed Ion-exchange Vessel Systems
46 53 33	Moving-bed Biological Reactors	46 63 17	Electrodialysis Reversal Equipment
46 53 36	Integrated Fixed-film Activated Sludge Equipment	46 63 23	Reverse-Osmosis and Nanofiltration Membrane Equipment
46 53 41	Intermittent Sand Filters for Wastewater Treatment	46 63 31	Multiple-effect Distillation Equipment
46 53 43	Deep-bed Denitrification Filters	46 63 32	Water Vapor Compression Distillation Equipment
46 53 46	Biologically Activated Filters	46 63 33	Desalination Mechanical Vapor Compression Equipment
46 53 49	Membrane Biological Reactors	46 63 34	Desalination Thermal Vapor Compression Equipment
46 53 53	Sequencing Batch Reactors	46 63 36	Desalination Multi-stage Flash Equipment
46 53 61	Oxidation Ditch Equipment	46 63 41	Desalination Falling Film Evaporators
46 53 63	Vertical Loop Reactors	46 63 43	Desalination Rising Film Evaporators
<b>46 60 00</b>	<b>Water and Wastewater Advanced Treatment Equipment</b>	46 63 53	Desalination Forced-circulation Crystallizing Equipment
<b>46 61 00</b>	<b>Filtration Equipment</b>	46 63 63	Desalination Spray Dry Evaporation Equipment
46 61 13	Filter Media	46 63 73	Demineralization Energy Recovery Equipment
46 61 16	Filter Surface Wash Agitators	<b>46 66 00</b>	<b>Ultraviolet Equipment</b>
46 61 17	Filter Air Scour Equipment	46 66 13	Closed-vessel Low-pressure/ Low-intensity Ultraviolet Treatment Equipment
46 61 19	Wash Water Troughs		
46 61 21	Pressure Filters		
46 61 23	Gravity Filters		
46 61 26	High-rate Sand Filters		
46 61 29	Traveling Bridge Filters		
46 61 33	Microfiltration and Ultrafiltration Membrane Equipment		
46 61 41	Disc Cloth Filters		

46 66 16	Closed-vessel Low-pressure/ High-intensity Ultraviolet Treatment Equipment	46 73 18	Dual Deck Truss-type Floating Gas-holding Digester Covers
46 66 23	Closed-vessel Medium- pressure Ultraviolet Treatment Equipment	46 73 19	Digester Appurtenances
46 66 53	Open-channel Low- pressure/Low-intensity Ultraviolet Treatment Equipment	46 73 21	Aerobic Digester Aeration Equipment
46 66 56	Open-channel Low- pressure/High-intensity Ultraviolet Treatment Equipment	46 73 24	Autothermal Thermophilic Aerobic Digestion Equipment
46 66 63	Open-channel Medium- pressure Ultraviolet Treatment Equipment	46 73 26	Egg-shaped Digesters
<b>46 70 00</b>	<b>Water and Wastewater Residuals Handling and Treatment</b>	46 73 31	External Draft Tube Digester Mixing System
<b>46 71 00</b>	<b>Residuals Thickening Equipment</b>	46 73 32	Internal Draft Tube Digester Mixing System
46 71 13	Circular Gravity Thickeners	46 73 33	Confined Gas Mixing System
46 71 16	Gravity Belt Thickeners	46 73 34	Unconfined Gas Mixing System
46 71 23	Dissolved Air Flotation Thickening Equipment	46 73 41	Digester Heating Equipment
46 71 33	Rotary Drum Thickening Equipment	46 73 63	Residuals Pasteurization Equipment
46 71 36	Centrifuge Thickening Equipment	<b>46 76 00</b>	<b>Residuals Dewatering Equipment</b>
46 71 43	Disc Thickeners	46 76 13	Vacuum Filters
46 71 46	Thickening Screw Press	46 76 21	Belt Filter Presses
46 71 53	Scum Concentrator Equipment	46 76 23	Plate-and-Frame Filter Presses
<b>46 73 00</b>	<b>Residuals Stabilization</b>	46 76 26	Rotary Presses
46 73 11	Radial Beam Fixed Digester Covers	46 76 27	Screw Presses
46 73 12	Dual Deck Truss-type Fixed Digester Covers	46 76 33	Dewatering Centrifuges
46 73 14	Radial Beam Floating Digester Covers	46 76 53	Belt Dryers
46 73 16	Dual Deck Truss-type Floating Digester Covers	46 76 60	Direct-heat Residuals Drying Equipment
46 73 17	Radial Beam Floating Gas- holding Digester Covers	46 76 70	Indirect-heat Residuals Drying Equipment
		<b>46 78 00</b>	<b>Thermal Treatment of Residuals</b>
		46 78 13	Multiple-hearth Sludge Incinerators
		46 78 23	Fluidized-bed Sludge Incinerators
		46 78 33	Ash Handling Equipment
		46 78 41	Recuperative Air Preheating Equipment
		46 78 46	Regenerative Thermal Oxidizers
		46 78 47	Waste Heat Recovery Boilers

46 78 49	Waste Heat Recovery Heat Exchangers	48 11 19	Fossil Fuel Electrical Power Plant Steam Turbines
46 78 73	Thermal Oxidation Equipment	48 11 23	Fossil Fuel Electrical Power Plant Gas Turbines
<b>48 00 00</b>	<b>Electrical Power Generation</b>	48 11 26	Fossil Fuel Electrical Power Plant Generators
<b>48 01 00</b>	<b>Operation and Maintenance for Electrical Power Generation</b>	<b>48 12 00</b>	<b>Nuclear Fuel Plant Electrical Power Generation Equipment</b>
48 01 10	Operation and Maintenance of Electrical Power Generation Equipment	48 12 13	Nuclear Fuel Reactors
48 01 70	Operation and Maintenance of Electrical Power Generation Testing	48 12 13.13	Nuclear Fuel Fission Reactors
<b>48 05 00</b>	<b>Common Work Results for Electrical Power Generation</b>	48 12 13.16	Nuclear Fuel Fusion Reactors
48 05 05	Selective Demolition for Electrical Power Generation	48 12 23	Nuclear Fuel Electrical Power Plant Steam Generators
<b>48 06 00</b>	<b>Schedules for Electrical Power Generation</b>	48 12 26	Nuclear Fuel Electrical Power Plant Condensers
48 06 10	Schedules for Electrical Power Generation Equipment	48 12 29	Nuclear Fuel Electrical Power Plant Turbines
48 06 70	Schedules for Electrical Power Generation Testing	48 12 33	Nuclear Fuel Electrical Power Generators
<b>48 08 00</b>	<b>Commissioning of Electrical Power Generation</b>	<b>48 13 00</b>	<b>Hydroelectric Plant Electrical Power Generation Equipment</b>
<b>48 09 00</b>	<b>Instrumentation and Control for Electrical Power Generation</b>	48 13 13	Hydroelectric Power Plant Water Turbines
<b>48 10 00</b>	<b>Electrical Power Generation Equipment</b>	48 13 16	Hydroelectric Power Plant Electrical Power Generators
<b>48 11 00</b>	<b>Fossil Fuel Plant Electrical Power Generation Equipment</b>	<b>48 14 00</b>	<b>Solar Energy Electrical Power Generation Equipment</b>
48 11 13	Fossil Fuel Electrical Power Plant Boilers	48 14 13	Solar Energy Collectors
48 11 16	Fossil Fuel Electrical Power Plant Condensers	48 14 13.13	Amorphous Solar Energy Collectors
		48 14 13.16	Plate Cell Solar Energy Collectors
		48 14 13.19	Vacuum Tube Solar Energy Collectors
		<b>48 15 00</b>	<b>Wind Energy Electrical Power Generation Equipment</b>
		48 15 13	Wind Turbines
		48 15 16	Wind Energy Electrical Power Generators

<b>48 16 00</b>	<b>Geothermal Energy Electrical Power Generation Equipment</b>	<b>48 70 00</b>	<b>Electrical Power Generation Testing</b>
48 16 13	Geothermal Energy Heat Pumps	<b>48 71 00</b>	<b>Electrical Power Generation Test Equipment</b>
48 16 16	Geothermal Energy Condensers	48 71 13	Electrical Power Generation Corona Test Equipment
48 16 19	Geothermal Energy Steam Turbines	48 71 16	Electrical Power Generation Current Test Equipment
48 16 23	Geothermal Energy Electrical Power Generators	48 71 19	Electrical Power Generation Power Test Equipment
<b>48 17 00</b>	<b>Electrochemical Energy Electrical Power Generation Equipment</b>	48 71 23	Electrical Power Generation Resistance Test Equipment
48 17 13	Electrical Power Generation Batteries	48 71 26	Electrical Power Generation Voltage Test Equipment
<b>48 18 00</b>	<b>Fuel Cell Electrical Power Generation Equipment</b>		
48 18 13	Electrical Power Generation Fuel Cells		
48 18 16	Hydrogen Control Equipment		
<b>48 19 00</b>	<b>Electrical Power Control Equipment</b>		
48 19 13	Electrical Power Generation Battery Charging Equipment		
48 19 16	Electrical Power Generation Inverters		
48 19 19	Electrical Power Generation Solar Tracking Equipment		
48 19 23	Electrical Power Generation Transformers		
48 19 26	Electrical Power Generation Voltage Regulators		
<b>48 30 00</b>	<b>Combined Heat and Power Generation</b>		
<b>48 31 00</b>	<b>Combustion Combined Heat and Power Generation</b>		
48 31 13	Natural Gas-Fueled Combined Heat and Power Generation		
48 31 16	Biomass-Fueled Combined Heat and Power Generation		







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