



AGC Construction Codes

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MasterFormat® Numbers & Titles

March 29, 2011

MasterFormat is the specifications-writing standard for most commercial building design and construction projects in North America. It lists titles and section numbers for organizing data about construction requirements, products, and activities. By standardizing such information, MasterFormat facilitates communication among architects, specifiers, contractors and suppliers, which helps them meet building owners' requirements, timelines and budgets.

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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	Polychlorinate 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 41 19.13	Selective Building Demolition
02 41 19.16	Selective Interior Demolition
02 41 19.19	Selective Facility Services Demolition
02 41 19.33	Selective Bridge Demolition
02 41 91	Selective Historic Demolition
02 42 00	Removal and Salvage of Construction Materials
02 42 13	Deconstruction of Structures
02 42 13.13	Deconstruction of Buildings
02 42 91	Removal and Salvage of Historic Construction Materials
02 43 00	Structure Moving
02 43 13	Structure Relocation
02 43 13.13	Building Relocation
02 43 16	Structure Raising
02 43 16.13	Building Raising
02 50 00	Site Remediation

- 02 51 00 Physical Decontamination**
 - 02 51 13 Coagulation and Flocculation Decontamination
 - 02 51 16 Reverse-Osmosis Decontamination
 - 02 51 19 Solidification and Stabilization Decontamination
 - 02 51 23 Mechanical Filtration Decontamination
 - 02 51 26 Radioactive Decontamination
 - 02 51 29 Surface Cleaning Decontamination
 - 02 51 29.13 High-Pressure Water Cleaning Decontamination
 - 02 51 29.16 Vacuum Sweeping Cleaning Decontamination
 - 02 51 33 Surface Removal Decontamination
 - 02 51 33.13 Surface Removal Decontamination by Grinding
 - 02 51 33.16 Surface Removal Decontamination by Sand Blasting
 - 02 51 33.19 Surface Removal Decontamination by Ultrasound
- 02 52 00 Chemical Decontamination**
 - 02 52 13 Chemical Precipitation Decontamination
 - 02 52 16 Ion Change Decontamination
 - 02 52 19 Neutralization Decontamination
- 02 53 00 Thermal Decontamination**
 - 02 53 13 Incineration Decontamination
 - 02 53 13.13 Remediation of Contaminated Soils and Sludges by Incineration
 - 02 53 16 Thermal Desorption Decontamination
 - 02 53 16.13 Remediation of Contaminated Soils by Thermal Desorption
 - 02 53 19 Vitrification Decontamination
- 02 54 00 Biological Decontamination**
 - 02 54 13 Aerobic Processes Decontamination
 - 02 54 16 Anaerobic Processes Decontamination
 - 02 54 19 Bioremediation Decontamination
 - 02 54 19.13 Bioremediation Using Landfarming
 - 02 54 19.16 Bioremediation of Soils Using Windrow Composting
 - 02 54 19.19 Bioremediation Using Bacteria Injection
 - 02 54 23 Soil Washing through Separation/Solubilization
 - 02 54 26 Organic Decontamination
- 02 55 00 Remediation Soil Stabilization**
- 02 56 00 Site Containment**
 - 02 56 13 Waste Containment
 - 02 56 13.13 Geomembrane Waste Containment
 - 02 56 19 Gas Containment
 - 02 56 19.13 Fluid-Applied Gas Barrier
- 02 57 00 Sinkhole Remediation**
 - 02 57 13 Sinkhole Remediation by Grouting
 - 02 57 13.13 Sinkhole Remediation by Compaction Grouting
 - 02 57 13.16 Sinkhole Remediation by Cap Grouting
 - 02 57 16 Sinkhole Remediation by Backfilling
- 02 58 00 Snow Control**
 - 02 58 13 Snow Fencing
 - 02 58 16 Snow Avalanche Control
- 02 60 00 Contaminated Site Material Removal**
- 02 61 00 Removal and Disposal of Contaminated Soils**
 - 02 61 13 Excavation and Handling of Contaminated Material

02 61 23	Removal and Disposal of Polychlorinate Biphenyl Contaminated Soils
02 61 26	Removal and Disposal of Asbestos Contaminated Soils
02 61 29	Removal and Disposal of Organically Contaminated Soils
02 62 00	Hazardous Waste Recovery Processes
02 62 13	Air and Steam Stripping
02 62 16	Soil Vapor Extraction
02 62 19	Soil Washing and Flushing
02 65 00	Underground Storage Tank Removal
02 66 00	Landfill Construction and Storage
02 70 00	Water Remediation
02 71 00	Groundwater Treatment
02 72 00	Water Decontamination
02 72 13	Chemical Water Decontamination
02 72 16	Biological Water Decontamination
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 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 85 00	Mold Remediation
02 85 13	Precautions for Mold Remediation
02 85 16	Mold Remediation Preparation and Containment
02 85 19	Mold Remediation Clearance Air Sampling
02 85 33	Removal and Disposal of Materials with Mold
02 86 00	Hazardous Waste Drum Handling

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
03 05 00	Common Work Results for Concrete
03 06 00	Schedules for Concrete
03 06 10	Schedules for Concrete Forming and Accessories
03 06 20	Schedules for Concrete Reinforcing
03 06 20.13	Concrete Beam Reinforcing Schedule
03 06 20.16	Concrete Slab Reinforcing Schedule
03 06 30	Schedules for Cast-in-Place Concrete
03 06 30.13	Concrete Footing Schedule
03 06 30.16	Concrete Column Schedule
03 06 30.19	Concrete Slab Schedule
03 06 30.23	Concrete Shaft Schedule
03 06 30.26	Concrete Beam Schedule
03 06 40	Schedules for Precast Concrete
03 06 40.13	Precast Concrete Panel Schedule
03 06 50	Schedules for Cast Decks and Underlayment
03 06 60	Schedules for Grouting
03 06 70	Schedules for Mass Concrete
03 06 80	Schedules for Concrete Cutting and Boring
03 08 00	Commissioning of Concrete
03 10 00	Concrete Forming and Accessories
03 11 00	Concrete Forming
03 11 13	Structural Cast-in-Place Concrete Forming
03 11 13.13	Concrete Slip Forming
03 11 13.16	Concrete Shoring
03 11 13.19	Falsework
03 11 16	Architectural Cast-in Place Concrete Forming
03 11 16.13	Concrete Form Liners

03 11 19	Insulating Concrete Forming
03 11 23	Permanent Stair Forming
03 15 00	Concrete Accessories
03 15 13	Waterstops
03 15 13.13	Non-Expanding Waterstops
03 15 13.16	Expanding Waterstops
03 15 13.19	Combination Expanding and Injection Hose Waterstops
03 15 13.21	Injection Hose Waterstops
03 15 16	Concrete Construction Joints
03 20 00	Concrete Reinforcing
03 21 00	Reinforcement Bars
03 21 11	Plain Steel Reinforcement Bars
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
03 22 00	Fabric and Grid Reinforcing
03 22 13	Galvanized Welded Wire Fabric Reinforcing
03 22 16	Epoxy-Coated Welded Wire Fabric Reinforcing
03 22 19	Composite Grid Reinforcing
03 23 00	Stressed Tendon Reinforcing
03 24 00	Fibrous Reinforcing
03 25 00	Composite Reinforcing
03 25 13	Glass Fiber-Reinforced Polymer Reinforcing
03 25 16	Organic Fiber-Reinforced Polymer Reinforcing
03 25 19	Carbon Fiber-Reinforced Polymer Reinforcing
03 30 00	Cast-in-Place Concrete
03 30 53	Miscellaneous Cast-in-Place Concrete
03 31 00	Structural Concrete
03 31 13	Heavyweight Structural Concrete
03 31 16	Lightweight Structural Concrete
03 31 19	Shrinkage-Compensating Structural Concrete
03 31 23	High-Performance Structural Concrete
03 31 24	Ultra High-Performance Structural Concrete
03 31 26	Self-Compacting Concrete
03 33 00	Architectural Concrete
03 33 13	Heavyweight Architectural Concrete
03 33 16	Lightweight Architectural Concrete
03 34 00	Low Density Concrete
03 35 00	Concrete Finishing
03 35 13	High-Tolerance Concrete Floor Finishing
03 35 16	Heavy-Duty Concrete Floor Finishing
03 35 19	Colored Concrete Finishing
03 35 23	Exposed Aggregate Concrete Finishing

03 35 26	Grooved Concrete Surface Finishing
03 35 29	Tooled Concrete Finishing
03 35 33	Stamped Concrete Finishing
03 35 43	Polished Concrete Finishing
03 37 00	Specialty Placed Concrete
03 37 13	Shotcrete
03 37 16	Pumped Concrete
03 37 19	Pneumatically Placed Concrete
03 37 23	Roller-Compacted Concrete
03 37 26	Underwater Placed Concrete
03 38 00	Post-Tensioned Concrete
03 38 13	Post-Tensioned Concrete Preparation
03 38 16	Unbonded Post-Tensioned Concrete
03 38 19	Bonded Post-Tensioned Concrete
03 39 00	Concrete Curing
03 39 13	Water Concrete Curing
03 39 16	Sand Concrete Curing
03 39 23	Membrane Concrete Curing
03 39 23.13	Chemical Compound Membrane Concrete Curing
03 39 23.23	Sheet Membrane Concrete Curing
03 40 00	Precast Concrete
03 41 00	Precast Structural Concrete
03 41 13	Precast Concrete Hollow Core Planks
03 41 16	Precast Concrete Slabs
03 41 23	Precast Concrete Stairs
03 41 33	Precast Structural Pretensioned Concrete
03 41 36	Precast Structural Post-Tensioned Concrete
03 45 00	Precast Architectural Concrete
03 45 13	Faced Architectural Precast Concrete
03 45 33	Precast Architectural Pretensioned Concrete
03 45 36	Precast Architectural Post-Tensioned Concrete
03 47 00	Site-Cast Concrete
03 47 13	Tilt-Up Concrete
03 47 16	Lift-Slab Concrete
03 48 00	Precast Concrete Specialties
03 48 13	Precast Concrete Bollards
03 48 16	Precast Concrete Splash Blocks
03 48 19	Precast Concrete Stair Treads
03 48 33	Precast Pre-Framed Concrete Panels
03 48 43	Precast Concrete Trim
03 49 00	Glass-Fiber-Reinforced Concrete
03 49 13	Glass-Fiber-Reinforced Concrete Column Covers
03 49 16	Glass-Fiber-Reinforced Concrete Spandrels
03 49 43	Glass-Fiber-Reinforced Concrete Trim
03 50 00	Cast Decks and Underlayment
03 51 00	Cast Roof Decks
03 51 13	Cementitious Wood Fiber Decks

03 51 16	Gypsum Concrete Roof Decks
03 52 00	Lightweight Concrete Roof Insulation
03 52 13	Composite Concrete Roof Insulation
03 52 16	Lightweight Insulating Concrete
03 52 16.13	Lightweight Cellular Insulating Concrete
03 52 16.16	Lightweight Aggregate Insulating Concrete
03 53 00	Concrete Topping
03 53 13	Emery-Aggregate Concrete Topping
03 53 16	Iron-Aggregate Concrete Topping
03 54 00	Cast Underlayment
03 54 13	Gypsum Cement Underlayment
03 54 16	Hydraulic Cement Underlayment
03 60 00	Grouting
03 61 00	Cementitious Grouting
03 61 13	Dry-Pack Grouting
03 62 00	Non-Shrink Grouting
03 62 13	Non-Metallic Non-Shrink Grouting
03 62 16	Metallic Non-Shrink Grouting
03 63 00	Epoxy Grouting
03 64 00	Injection Grouting
03 64 23	Epoxy Injection Grouting
03 70 00	Mass Concrete
03 71 00	Mass Concrete for Raft Foundations
03 72 00	Mass Concrete for Dams
03 80 00	Concrete Cutting and Boring
03 81 00	Concrete Cutting
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
03 82 00	Concrete Boring
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 05 00	Common Work Results 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
04 21 16	Ceramic Glazed Clay Masonry

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

04 50 00	Refractory Masonry
04 51 00	Flue Liner Masonry
04 52 00	Combustion Chamber Masonry
04 53 00	Castable Refractory Masonry
04 54 00	Refractory Brick Masonry
04 57 00	Masonry Fireplaces
04 57 33	Modular Masonry Fireplaces
04 60 00	Corrosion-Resistant Masonry
04 61 00	Chemical-Resistant Brick Masonry
04 62 00	Vitrified Clay Liner Plate
04 70 00	Manufactured Masonry
04 71 00	Manufactured Brick Masonry
04 71 13	Calcium Silicate Manufactured Brick Masonry
04 72 00	Cast Stone Masonry
04 73 00	Manufactured Stone Masonry
04 73 13	Calcium Silicate Manufactured Stone Masonry

05 00 00	Metals
05 01 00	Maintenance of Metals
05 01 10	Maintenance of Structural Metal Framing
05 01 20	Maintenance of Metal Joists
05 01 30	Maintenance of Metal Decking
05 01 40	Maintenance of Cold-Formed Metal Framing
05 01 50	Maintenance of Metal Fabrications
05 01 70	Maintenance of Decorative Metal
05 01 70.91	Historic Treatment of Decorative Metal
05 05 00	Common Work Results for Metals
05 05 13	Shop-Applied Coatings for Metal
05 05 23	Metal Fastenings
05 05 53	Security Metal Fastenings
05 06 00	Schedules for Metals
05 06 10	Schedules for Structural Metal Framing
05 06 10.13	Steel Column Schedule
05 06 10.16	Steel Beam Schedule
05 06 20	Schedules for Metal Joists
05 06 20.13	Steel Joist Schedule
05 06 30	Schedules for Metal Decking
05 06 40	Schedules for Cold-Formed Metal Framing
05 06 50	Schedules for Metal Fabrications
05 06 70	Schedules for Decorative Metal
05 08 00	Commissioning of Metals
05 10 00	Structural Metal Framing
05 12 00	Structural Steel Framing
05 12 13	Architecturally-Exposed Structural Steel Framing
05 12 16	Fabricated Fireproofed Steel Columns
05 12 19	Buckling Restrained Braces
05 12 23	Structural Steel for Buildings
05 12 33	Structural Steel for Bridges
05 13 00	Structural Stainless-Steel Framing
05 14 00	Structural Aluminum Framing
05 14 13	Architecturally-Exposed Structural Aluminum Framing
05 15 00	Wire Rope Assemblies
05 15 13	Aluminum Wire Rope Assemblies
05 15 16	Steel Wire Rope Assemblies
05 15 19	Stainless-Steel Wire Rope Assemblies
05 16 00	Structural Cabling
05 16 13	Cable Bow Truss Assemblies
05 16 33	Bridge Cabling
05 17 00	Structural Rod Assemblies
05 19 00	Tension Rod and Cable Truss Assemblies
05 19 13	Façade Support Truss Assemblies
05 19 19	Canopy Support Truss Assemblies
05 20 00	Metal Joists

05 21 00	Steel Joist Framing
05 21 13	Deep Longspan Steel Joist Framing
05 21 16	Longspan Steel Joist Framing
05 21 19	Open Web Steel Joist Framing
05 21 23	Steel Joist Girder Framing
05 25 00	Aluminum Joist Framing
05 30 00	Metal Decking
05 31 00	Steel Decking
05 31 13	Steel Floor Decking
05 31 23	Steel Roof Decking
05 31 33	Steel Form Decking
05 33 00	Aluminum Decking
05 33 13	Aluminum Floor Decking
05 33 23	Aluminum Roof Decking
05 34 00	Acoustical Metal Decking
05 35 00	Raceway Decking Assemblies
05 36 00	Composite Metal Decking
05 36 13	Composite Steel Plate and Elastomer Decking
05 40 00	Cold-Formed Metal Framing
05 41 00	Structural Metal Stud Framing
05 42 00	Cold-Formed Metal Joist Framing
05 42 13	Cold-Formed Metal Floor Joist Framing
05 42 23	Cold-Formed Metal Roof Joist Framing
05 43 00	Slotted Channel Framing
05 44 00	Cold-Formed Metal Trusses
05 44 13	Cold-Formed Metal Roof Trusses
05 45 00	Metal Support Assemblies
05 45 13	Mechanical Metal Supports
05 45 16	Electrical Metal Supports
05 45 19	Communications Metal Supports
05 45 23	Healthcare Metal Supports
05 50 00	Metal Fabrications
05 51 00	Metal Stairs
05 51 13	Metal Pan Stairs
05 51 16	Metal Floor Plate Stairs
05 51 19	Metal Grating Stairs
05 51 23	Metal Fire Escapes
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 52 00	Metal Railings

05 52 13	Pipe and Tube Railings
05 53 00	Metal Gratings
05 53 13	Bar Gratings
05 53 16	Plank Gratings
05 54 00	Metal Floor Plates
05 55 00	Metal Stair Treads and Nosings
05 55 13	Metal Stair Treads
05 55 16	Metal Stair Nosings
05 56 00	Metal Castings
05 58 00	Formed Metal Fabrications
05 58 13	Column Covers
05 58 16	Formed Metal Enclosures
05 58 19	Heating/Cooling Unit Covers
05 58 23	Formed Metal Guards
05 59 00	Metal Specialties
05 59 13	Metal Balconies
05 59 63	Detention Enclosures
05 70 00	Decorative Metal
05 71 00	Decorative Metal Stairs
05 71 13	Fabricated Metal Spiral Stairs
05 73 00	Decorative Metal Railings
05 73 13	Glazed Decorative Metal Railings
05 73 16	Wire Rope Decorative Metal Railings
05 74 00	Decorative Metal Castings
05 75 00	Decorative Formed Metal
05 76 00	Decorative Forged Metal

06 00 00	Wood, Plastics, and Composites
06 01 00	Maintenance of Wood, Plastics, and Composites
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
06 05 00	Common Work Results for Wood, Plastics, and Composites
06 05 23	Wood, Plastic, and Composite Fastenings
06 05 73	Wood Treatment
06 05 73.13	Fire-Retardant Wood Treatment
06 05 73.33	Preservative Wood Treatment
06 05 73.91	Long-Term Wood Treatment
06 05 73.93	Eradication of Insects in Wood
06 05 73.96	Antiseptic Treatment of Wood
06 05 83	Shop-Applied Wood Coatings
06 06 00	Schedules for Wood, Plastics, and Composites
06 06 10	Schedules for Rough Carpentry
06 06 10.13	Nailing Schedule
06 06 10.16	Wood Beam Schedule
06 06 10.19	Plywood Shear Wall Schedule
06 06 10.23	Plywood Web Joist Schedule
06 06 10.26	Wood Truss Schedule
06 06 20	Schedules for Finish Carpentry
06 06 40	Schedules for Architectural Woodwork
06 06 50	Schedules for Structural Plastics
06 06 60	Schedules for Plastic Fabrications
06 06 70	Schedules for Structural Composites
06 06 80	Schedules for Composite Assemblies
06 08 00	Commissioning of Wood, Plastics, and Composites

06 10 00	Rough Carpentry
06 10 53	Miscellaneous Rough Carpentry
06 10 63	Exterior Rough Carpentry
06 11 00	Wood Framing
06 11 13	Engineered Wood Products
06 11 16	Mechanically Graded Lumber
06 12 00	Structural Panels
06 12 13	Cementitious Reinforced Panels
06 12 16	Stressed Skin Panels
06 13 00	Heavy Timber Construction
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
06 14 00	Treated Wood Foundations
06 15 00	Wood Decking
06 15 13	Wood Floor Decking
06 15 13.91	Carvel Planking
06 15 16	Wood Roof Decking
06 15 19	Timber Decking
06 15 23	Laminated Wood Decking
06 15 33	Wood Patio Decking
06 16 00	Sheathing
06 16 13	Insulating Sheathing
06 16 23	Subflooring
06 16 26	Underlayment
06 16 33	Wood Board Sheathing
06 16 36	Wood Panel Product Sheathing
06 16 43	Gypsum Sheathing
06 16 53	Moisture-Resistant Sheathing Board
06 16 63	Cementitious Sheathing
06 17 00	Shop-Fabricated Structural Wood
06 17 13	Laminated Veneer Lumber
06 17 23	Parallel Strand Lumber
06 17 33	Wood I-Joists
06 17 36	Metal-Web Wood Joists
06 17 43	Rim Boards
06 17 53	Shop-Fabricated Wood Trusses
06 18 00	Glued-Laminated Construction
06 18 13	Glued-Laminated Beams
06 18 16	Glued-Laminated Columns
06 20 00	Finish Carpentry
06 20 13	Exterior Finish Carpentry
06 20 23	Interior Finish Carpentry
06 22 00	Millwork

06 22 13	Standard Pattern Wood Trim
06 25 00	Prefinished Paneling
06 25 13	Prefinished Hardboard Paneling
06 25 16	Prefinished Plywood Paneling
06 26 00	Board Paneling
06 26 13	Profile Board Paneling
06 40 00	Architectural Woodwork
06 40 13	Exterior Architectural Woodwork
06 40 23	Interior Architectural Woodwork
06 41 00	Architectural Wood Casework
06 41 13	Wood-Veneer-Faced Architectural Cabinets
06 41 16	Plastic-Laminate-Clad Architectural Cabinets
06 41 93	Cabinet and Drawer Hardware
06 42 00	Wood Paneling
06 42 13	Wood Board Paneling
06 42 14	Stile and Rail Wood Paneling
06 42 16	Flush Wood Paneling
06 42 19	Plastic-Laminate-Faced Wood Paneling
06 43 00	Wood Stairs and Railings
06 43 13	Wood Stairs
06 43 16	Wood Railings
06 44 00	Ornamental Woodwork
06 44 13	Wood Turnings
06 44 16	Wood Pilasters
06 44 19	Wood Grilles
06 44 23	Wood Corbels
06 44 26	Wood Cupolas
06 44 29	Wood Finials
06 44 33	Wood Mantels
06 44 36	Wood Pediment Heads
06 44 39	Wood Posts and Columns
06 46 00	Wood Trim
06 46 13	Wood Door and Window Casings
06 46 16	Wood Aprons
06 46 19	Wood Base and Shoe Moldings
06 46 23	Wood Chair Rails
06 46 26	Wood Cornices
06 46 29	Wood Fascia and Soffits
06 46 33	Wood Stops, Stools, and Sills
06 46 91	Splicing of Wooden Components
06 48 00	Wood Frames
06 48 13	Exterior Wood Door Frames
06 48 16	Interior Wood Door Frames
06 48 19	Ornamental Wood Frames
06 48 23	Stick-Built Wood Windows
06 48 26	Wood-Veneer Frames
06 49 00	Wood Screens and Exterior Wood Shutters
06 49 13	Wood Screens

06 49 16	Exterior Wood Blinds
06 49 19	Exterior Wood Shutters
06 50 00	Structural Plastics
06 51 00	Structural Plastic Shapes and Plates
06 51 13	Plastic Lumber
06 52 00	Plastic Structural Assemblies
06 53 00	Plastic Decking
06 53 13	Solid Plastic Decking
06 60 00	Plastic Fabrications
06 61 00	Simulated Stone Fabrications
06 61 13	Cultured Marble Fabrications
06 61 16	Solid Surfacing Fabrications
06 61 19	Quartz Surfacing Fabrications
06 63 00	Plastic Railings
06 64 00	Plastic Paneling
06 64 13	Plastic Lattice Paneling
06 65 00	Plastic Simulated Wood Trim
06 66 00	Custom Ornamental Simulated Woodwork
06 70 00	Structural Composites
06 71 00	Structural Composite Shapes and Plates
06 71 13	Composite Lumber
06 72 00	Composite Structural Assemblies
06 72 13	Composite Joist Assemblies
06 73 00	Composite Decking
06 73 13	Composite Structural Decking
06 74 00	Composite Gratings
06 74 13	Fiberglass Reinforced Gratings
06 80 00	Composite Fabrications
06 81 00	Composite Railings
06 81 13	Glass-Fiber-Reinforced Plastic Railings
06 83 00	Composite Paneling
06 83 13	Resin Composite Paneling
06 83 16	Fiberglass Reinforced Paneling

07 00 00	Thermal and Moisture Protection
07 01 00	Operation and Maintenance of Thermal and Moisture Protection
07 01 10	Maintenance of Dampproofing and Waterproofing
07 01 10.81	Waterproofing Replacement
07 01 20	Maintenance of Thermal Protection
07 01 30	Maintenance of Steep Slope Roofing
07 01 40	Maintenance of Roofing and Siding Panels
07 01 50	Maintenance of Membrane Roofing
07 01 50.13	Roof Moisture Survey
07 01 50.16	Roof Maintenance Program
07 01 50.19	Preparation for Re-Roofing
07 01 50.23	Roof Removal
07 01 50.61	Roof Re-Coating
07 01 50.81	Roof Replacement
07 01 50.91	Roofing Restoration
07 01 60	Maintenance of Flashing and Sheet Metal
07 01 60.71	Flashing and Sheet Metal Rehabilitation
07 01 60.91	Flashing and Sheet Metal Restoration
07 01 60.92	Flashing and Sheet Metal Preservation
07 01 70	Operation and Maintenance of Roof Specialties and Accessories
07 01 80	Maintenance of Fire and Smoke Protection
07 01 90	Maintenance of Joint Protection
07 01 90.71	Joint Sealant Rehabilitation
07 01 90.81	Joint Sealant Replacement
07 05 00	Common Work Results for Thermal and Moisture Protection
07 06 00	Schedules for Thermal and Moisture Protection
07 06 10	Schedules for Dampproofing and Waterproofing
07 06 20	Schedules for Thermal Protection
07 06 30	Schedules for Steep Slope Roofing
07 06 40	Schedules for Roofing and Siding Panels
07 06 50	Schedules for Membrane Roofing
07 06 60	Schedules for Flashing and Sheet Metal
07 06 70	Schedules for Roof Specialties and Accessories
07 06 80	Schedules for Fire and Smoke Protection
07 06 80.13	Fireproofing Schedule
07 06 80.16	Firestopping Schedule
07 06 90	Schedules for Joint Protection
07 06 90.13	Joint Sealant Schedule
07 08 00	Commissioning of Thermal and Moisture Protection
07 10 00	Dampproofing and Waterproofing
07 11 00	Dampproofing
07 11 13	Bituminous Dampproofing
07 11 16	Cementitious Dampproofing
07 11 19	Sheet Dampproofing
07 12 00	Built-Up Bituminous Waterproofing
07 12 13	Built-Up Asphalt Waterproofing
07 12 16	Built-Up Coal Tar Waterproofing

07 13 00	Sheet Waterproofing
07 13 13	Bituminous Sheet Waterproofing
07 13 26	Self-Adhering Sheet Waterproofing
07 13 52	Modified Bituminous Sheet Waterproofing
07 13 53	Elastomeric Sheet Waterproofing
07 13 54	Thermoplastic Sheet Waterproofing
07 14 00	Fluid-Applied Waterproofing
07 14 13	Hot Fluid-Applied Rubberized Asphalt Waterproofing
07 14 16	Cold Fluid-Applied Waterproofing
07 15 00	Sheet Metal Waterproofing
07 15 13	Sheet Lead Waterproofing
07 16 00	Cementitious and Reactive Waterproofing
07 16 13	Polymer Modified Cement Waterproofing
07 16 16	Crystalline Waterproofing
07 16 19	Metal Oxide Waterproofing
07 17 00	Bentonite Waterproofing
07 17 13	Bentonite Panel Waterproofing
07 17 16	Bentonite Composite Sheet Waterproofing
07 18 00	Traffic Coatings
07 18 13	Pedestrian Traffic Coatings
07 18 16	Vehicular Traffic Coatings
07 19 00	Water Repellents
07 19 13	Acrylic Water Repellents
07 19 16	Silane Water Repellents
07 19 19	Silicone Water Repellents
07 19 23	Siloxane Water Repellents
07 19 26	Stearate Water Repellents
07 20 00	Thermal Protection
07 21 00	Thermal Insulation
07 21 13	Board Insulation
07 21 13.13	Foam Board Insulation
07 21 13.16	Fibrous Board Insulation
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 22 00	Roof and Deck Insulation
07 22 13	Asphaltic Perlite Concrete Deck
07 22 16	Roof Board Insulation
07 24 00	Exterior Insulation and Finish Systems
07 24 13	Polymer-Based Exterior Insulation and Finish System
07 24 16	Polymer-Modified Exterior Insulation and Finish System
07 24 19	Water-Drainage Exterior Insulation and Finish System
07 24 23	Direct-Applied Finish Systems

- 07 25 00 Weather Barriers**
- 07 26 00 Vapor Retarders**
 - 07 26 13 Above-Grade Vapor Retarders
 - 07 26 16 Below-Grade Vapor Retarders
 - 07 26 23 Below-Grade Gas Retarders
- 07 27 00 Air Barriers**
 - 07 27 13 Modified Bituminous Sheet Air Barriers
 - 07 27 16 Sheet Metal Membrane Air Barriers
 - 07 27 19 Plastic Sheet Air Barriers
 - 07 27 23 Board Product Air Barriers
 - 07 27 26 Fluid-Applied Membrane Air Barriers
 - 07 27 36 Sprayed Foam Air Barrier
- 07 30 00 Steep Slope Roofing**
 - 07 30 91 Canvas Roofing
- 07 31 00 Shingles and Shakes**
 - 07 31 13 Asphalt Shingles
 - 07 31 13.13 Fiberglass-Reinforced Asphalt Shingles
 - 07 31 16 Metal Shingles
 - 07 31 19 Mineral-Fiber Cement Shingles
 - 07 31 23 Porcelain Enamel Shingles
 - 07 31 26 Slate Shingles
 - 07 31 29 Wood Shingles and Shakes
 - 07 31 29.13 Wood Shingles
 - 07 31 29.16 Wood Shakes
 - 07 31 33 Composite Rubber Shingles
 - 07 31 53 Plastic Shakes
- 07 32 00 Roof Tiles**
 - 07 32 13 Clay Roof Tiles
 - 07 32 16 Concrete Roof Tiles
 - 07 32 19 Metal Roof Tiles
 - 07 32 23 Mineral-Fiber Cement Roof Tiles
 - 07 32 26 Plastic Roof Tiles
 - 07 32 29 Rubber Tiles/Panels
- 07 33 00 Natural Roof Coverings**
 - 07 33 13 Sod Roofing
 - 07 33 16 Thatched Roofing
 - 07 33 63 Vegetated Roofing
- 07 40 00 Roofing and Siding Panels**
- 07 41 00 Roof Panels**
 - 07 41 13 Metal Roof Panels
 - 07 41 23 Wood Roof Panels
 - 07 41 33 Plastic Roof Panels
 - 07 41 43 Composite Roof Panels
 - 07 41 63 Fabricated Roof Panel Assemblies
- 07 42 00 Wall Panels**
 - 07 42 13 Metal Wall Panels
 - 07 42 13.13 Formed Metal Wall Panels

07 42 13.16	Metal Plate Wall Panels
07 42 13.19	Insulated Metal Wall Panels
07 42 13.23	Metal Composite Material Wall Panels
07 42 23	Wood Wall Panels
07 42 29	Terracotta Wall Panels
07 42 33	Plastic Wall Panels
07 42 43	Composite Wall Panels
07 42 63	Fabricated Wall Panel Assemblies
07 42 93	Soffit Panels
07 44 00	Faced Panels
07 44 13	Aggregate Coated Panels
07 44 16	Porcelain Enameled Faced Panels
07 44 19	Tile-Faced Panels
07 44 23	Ceramic-Tile-Faced Panels
07 44 33	Metal Faced Panels
07 44 53	Glass-Fiber-Reinforced Cementitious Panels
07 44 56	Mineral-Fiber-Reinforced Cementitious Panels
07 44 63	Fabricated Faced Panel Assemblies
07 46 00	Siding
07 46 16	Aluminum Siding
07 46 19	Steel Siding
07 46 23	Wood Siding
07 46 26	Hardboard Siding
07 46 29	Plywood Siding
07 46 33	Plastic Siding
07 46 43	Composition Siding
07 46 46	Fiber-Cement Siding
07 46 63	Fabricated Panel Assemblies with Siding
07 50 00	Membrane Roofing
07 51 00	Built-Up Bituminous Roofing
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
07 52 00	Modified Bituminous Membrane Roofing
07 52 13	Atactic-Polypropylene-Modified Bituminous Membrane Roofing
07 52 13.11	Cold Adhesive Applied Atactic-Polypropylene-Modified Bituminous Membrane Roofing
07 52 13.13	Torch-Applied Atactic-Polypropylene-Modified Bituminous Membrane Roofing
07 52 13.14	Mechanically Fastened Atactic-Polypropylene-Modified Bituminous Membrane Roofing
07 52 16	Styrene-Butadiene-Styrene Modified Bituminous Membrane Roofing
07 52 16.11	Cold Adhesive Styrene-Butadiene-Styrene Modified Bituminous Membrane Roofing
07 52 16.12	Hot-Mopped Styrene-Butadiene-Styrene Modified Bituminous Membrane Roofing
07 52 16.13	Torch-Applied Styrene-Butadiene-Styrene Modified Bituminous Membrane Roofing
07 52 16.14	Mechanically Fastened Styrene-Butadiene-Styrene Modified Bituminous Membrane Roofing
07 53 00	Elastomeric Membrane Roofing

07 53 13	Chlorinated-Polyethylene Roofing
07 53 16	Chlorosulfonate-Polyethylene Roofing
07 53 23	Ethylene-Propylene-Diene-Monomer Roofing
07 53 29	Polyisobutylene Roofing
07 54 00	Thermoplastic Membrane Roofing
07 54 13	Copolymer-Alloy Roofing
07 54 16	Ethylene-Interpolymer Roofing
07 54 19	Polyvinyl-Chloride Roofing
07 54 23	Thermoplastic-Polyolefin Roofing
07 54 26	Nitrile-Butadiene-Polymer Roofing
07 55 00	Protected Membrane Roofing
07 55 51	Built-Up Bituminous Protected Membrane Roofing
07 55 52	Modified Bituminous Protected Membrane Roofing
07 55 53	Elastomeric Protected Membrane Roofing
07 55 54	Thermoplastic Protected Membrane Roofing
07 55 56	Fluid-Applied Protected Membrane Roofing
07 55 56.13	Hot-Applied Rubberized Asphalt Protected Membrane Roofing
07 55 63	Vegetated Protected Membrane Roofing
07 56 00	Fluid-Applied Roofing
07 57 00	Coated Foamed Roofing
07 57 13	Sprayed Polyurethane Foam Roofing
07 58 00	Roll Roofing
07 60 00	Flashing and Sheet Metal
07 61 00	Sheet Metal Roofing
07 61 13	Standing Seam Sheet Metal Roofing
07 61 16	Batten Seam Sheet Metal Roofing
07 61 19	Flat Seam Sheet Metal Roofing
07 62 00	Sheet Metal Flashing and Trim
07 63 00	Sheet Metal Roofing Specialties
07 64 00	Sheet Metal Wall Cladding
07 64 13	Standing Seam Sheet Metal Wall Cladding
07 64 16	Batten Seam Sheet Metal Wall Cladding
07 64 19	Flat Seam Sheet Metal Wall Cladding
07 65 00	Flexible Flashing
07 65 13	Laminated Sheet Flashing
07 65 16	Modified Bituminous Sheet Flashing
07 65 19	Plastic Sheet Flashing
07 65 23	Rubber Sheet Flashing
07 65 26	Self-Adhering Sheet Flashing
07 70 00	Roof and Wall Specialties and Accessories
07 71 00	Roof Specialties
07 71 13	Manufactured Copings
07 71 16	Manufactured Counterflashing Systems
07 71 19	Manufactured Gravel Stops and Fascias
07 71 23	Manufactured Gutters and Downspouts

07 71 23.13	Gutter Debris Guards
07 71 26	Reglets
07 71 29	Manufactured Roof Expansion Joints
07 71 33	Manufactured Scuppers
07 72 00	Roof Accessories
07 72 13	Manufactured Curbs
07 72 23	Relief Vents
07 72 26	Ridge Vents
07 72 33	Roof Hatches
07 72 36	Smoke Vents
07 72 43	Roof Walk Boards
07 72 46	Roof Walkways
07 72 53	Snow Guards
07 72 63	Waste Containment Assemblies
07 76 00	Roof Pavers
07 76 13	Roof Ballast Pavers
07 76 16	Roof Decking Pavers
07 77 00	Wall Specialties
07 80 00	Fire and Smoke Protection
07 81 00	Applied Fireproofing
07 81 13	Cement Aggregate Fireproofing
07 81 16	Cementitious Fireproofing
07 81 19	Foamed Magnesium-Oxychloride Fireproofing
07 81 23	Intumescent Fireproofing
07 81 26	Magnesium Cement Fireproofing
07 81 29	Mineral-Fiber Cementitious Fireproofing
07 81 33	Mineral-Fiber Fireproofing
07 82 00	Board Fireproofing
07 82 13	Calcium-Silicate Board Fireproofing
07 82 16	Slag-Fiber Board Fireproofing
07 84 00	Firestopping
07 84 13	Penetration Firestopping
07 84 13.13	Penetration Firestopping Mortars
07 84 13.16	Penetration Firestopping Devices
07 84 43	Joint Firestopping
07 84 53	Building Perimeter Firestopping
07 86 00	Smoke Seals
07 87 00	Smoke Containment Barriers
07 90 00	Joint Protection
07 91 00	Preformed Joint Seals
07 91 13	Compression Seals
07 91 16	Joint Gaskets
07 91 23	Backer Rods
07 91 26	Joint Fillers
07 92 00	Joint Sealants
07 92 13	Elastomeric Joint Sealants
07 92 16	Rigid Joint Sealants

07 92 19	Acoustical Joint Sealants
07 95 00	Expansion Control
07 95 13	Expansion Joint Cover Assemblies
07 95 53	Joint Slide Bearings
07 95 63	Bridge Expansion Joint Cover Assemblies

08 00 00**Openings****08 01 00****Operation and Maintenance of Openings**

- 08 01 10 Operation and Maintenance of Doors and Frames
- 08 01 11 Operation and Maintenance of Metal Doors and Frames
- 08 01 14 Operation and Maintenance of Wood Doors
- 08 01 15 Operation and Maintenance of Plastic Doors
- 08 01 16 Operation and Maintenance of Composite Doors
- 08 01 17 Operation and Maintenance of Integrated Door Opening Assemblies
- 08 01 30 Operation and Maintenance of Specialty Doors and Frames
- 08 01 32 Operation and Maintenance of Sliding Glass Doors
- 08 01 33 Operation and Maintenance of Coiling Doors and Grilles
- 08 01 34 Operation and Maintenance of Special Function Doors
- 08 01 35 Operation and Maintenance of Folding Doors and Grilles
- 08 01 36 Operation and Maintenance of Panel Doors
- 08 01 39 Operation and Maintenance of Traffic Doors
- 08 01 40 Operation and Maintenance of Entrances, Storefronts, and Curtain Walls
- 08 01 41 Operation and Maintenance of Entrances
- 08 01 42 Operation and Maintenance of Storefronts
- 08 01 44 Operation and Maintenance of Curtain Walls
- 08 01 50 Operation and Maintenance of Windows
- 08 01 51 Operation and Maintenance of Metal Windows
- 08 01 52 Operation and Maintenance of Wood Windows
- 08 01 52.61 Wood Window Repairs
- 08 01 52.71 Wood Window Rehabilitation
- 08 01 52.81 Wood Window Replacement
- 08 01 52.91 Wood Window Restoration
- 08 01 52.93 Historic Treatment of Wood Windows
- 08 01 53 Operation and Maintenance of Plastic Windows
- 08 01 54 Operation and Maintenance of Composite Windows
- 08 01 56 Operation and Maintenance of Special Function Windows
- 08 01 60 Operation and Maintenance of Skylights and Roof Windows
- 08 01 61 Operation and Maintenance of Roof Windows
- 08 01 62 Operation and Maintenance of Unit Skylights
- 08 01 63 Operation and Maintenance of Metal-Framed Skylights
- 08 01 64 Operation and Maintenance of Plastic-Framed Skylights
- 08 01 70 Operation and Maintenance of Hardware
- 08 01 71 Operation and Maintenance of Door Hardware
- 08 01 74 Operation and Maintenance of Access Control Hardware
- 08 01 75 Operation and Maintenance of Window Hardware
- 08 01 80 Maintenance of Glazing
- 08 01 81 Maintenance of Glass Glazing
- 08 01 84 Maintenance of Plastic Glazing
- 08 01 88 Maintenance of Special Function Glazing
- 08 01 90 Operation and Maintenance of Louvers and Vents
- 08 01 91 Operation and Maintenance of Louvers
- 08 01 92 Operation and Maintenance of Louvered Equipment Enclosures
- 08 01 95 Operation and Maintenance of Vents

08 05 00**Common Work Results for Openings****08 06 00****Schedules for Openings**

- 08 06 10 Door Schedule

08 06 10.13	Door Type Schedule
08 06 10.16	Frame Type Schedule
08 06 40	Schedules for Entrances, Storefronts, and Curtain Walls
08 06 41	Entrance Schedule
08 06 42	Storefront Schedule
08 06 50	Window Schedule
08 06 60	Skylight Schedule
08 06 70	Hardware Schedule
08 06 71	Door Hardware Schedule
08 06 80	Glazing Schedule
08 06 90	Louver and Vent Schedule
08 08 00	Commissioning of Openings
08 10 00	Doors and Frames
08 11 00	Metal Doors and Frames
08 11 13	Hollow Metal Doors and Frames
08 11 13.13	Standard Hollow Metal Doors and Frames
08 11 13.16	Custom Hollow Metal Doors and Frames
08 11 16	Aluminum Doors and Frames
08 11 19	Stainless-Steel Doors and Frames
08 11 23	Bronze Doors and Frames
08 11 63	Metal Screen and Storm Doors and Frames
08 11 63.13	Steel Screen and Storm Doors and Frames
08 11 63.23	Aluminum Screen and Storm Doors and Frames
08 11 66	Metal Screen Doors and Frames
08 11 66.13	Steel Screen Doors and Frames
08 11 66.23	Aluminum Screen Doors and Frames
08 11 69	Metal Storm Doors and Frames
08 11 69.13	Steel Storm Doors and Frames
08 11 69.23	Aluminum Storm Doors and Frames
08 11 73	Sliding Metal Fire Doors
08 11 74	Sliding Metal Grilles
08 12 00	Metal Frames
08 12 13	Hollow Metal Frames
08 12 13.13	Standard Hollow Metal Frames
08 12 13.53	Custom Hollow Metal Frames
08 12 16	Aluminum Frames
08 12 19	Stainless-Steel Frames
08 12 23	Bronze Frames
08 13 00	Metal Doors
08 13 13	Hollow Metal Doors
08 13 13.13	Standard Hollow Metal Doors
08 13 13.53	Custom Hollow Metal Doors
08 13 16	Aluminum Doors
08 13 19	Stainless-Steel Doors
08 13 23	Bronze Doors
08 13 73	Sliding Metal Doors
08 13 76	Bifolding Metal Doors
08 14 00	Wood Doors
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 23.19	Molded-Hardboard-Faced Wood Doors
08 14 29	Prefinished Wood Doors
08 14 33	Stile and Rail Wood Doors
08 14 66	Wood Screen Doors
08 14 69	Wood Storm Doors
08 14 73	Sliding Wood Doors
08 14 76	Bifolding Wood Doors
08 15 00	Plastic Doors
08 15 13	Laminated Plastic Doors
08 15 16	Solid Plastic Doors
08 15 66	Plastic Screen Doors
08 15 69	Plastic Storm Doors
08 15 73	Sliding Plastic Doors
08 15 76	Bifolding Plastic Doors
08 16 00	Composite Doors
08 16 13	Fiberglass Doors
08 16 73	Sliding Composite Doors
08 16 76	Bifolding Composite Doors
08 17 00	Integrated Door Opening Assemblies
08 17 13	Integrated Metal Door Opening Assemblies
08 17 23	Integrated Wood Door Opening Assemblies
08 17 33	Integrated Plastic Door Opening Assemblies
08 17 43	Integrated Composite Door Opening Assemblies
08 30 00	Specialty Doors and Frames
08 31 00	Access Doors and Panels
08 31 13	Access Doors and Frames
08 31 13.53	Security Access Doors and Frames
08 31 16	Access Panels and Frames
08 32 00	Sliding Glass Doors
08 32 13	Sliding Aluminum-Framed Glass Doors
08 32 16	Sliding Plastic-Framed Glass Doors
08 32 19	Sliding Wood-Framed Glass Doors
08 33 00	Coiling Doors and Grilles
08 33 13	Coiling Counter Doors
08 33 16	Coiling Counter Grilles
08 33 23	Overhead Coiling Doors
08 33 23.13	Overhead Rapid Coiling Doors
08 33 26	Overhead Coiling Grilles
08 33 33	Side Coiling Doors
08 33 36	Side Coiling Grilles
08 33 43	Overhead Coiling Smoke Curtains
08 34 00	Special Function Doors
08 34 13	Cold Storage Doors
08 34 16	Hangar Doors
08 34 19	Industrial Doors
08 34 33	Lightproof Doors

08 34 36	Darkroom Doors
08 34 46	Radio-Frequency-Interference Shielding Doors
08 34 49	Radiation Shielding Doors and Frames
08 34 49.13	Neutron Shielding Doors and Frames
08 34 53	Security Doors and Frames
08 34 56	Security Gates
08 34 58	File Room Doors and Frames
08 34 59	Vault Doors and Day Gates
08 34 63	Detention Doors and Frames
08 34 63.13	Steel Detention Doors and Frames
08 34 63.16	Steel Plate Detention Doors and Frames
08 34 63.33	Detention Door Frame Protection
08 34 73	Sound Control Door Assemblies
08 35 00	Folding Doors and Grilles
08 35 13	Folding Doors
08 35 13.13	Accordion Folding Doors
08 35 13.23	Accordion Folding Fire Doors
08 35 13.33	Panel Folding Doors
08 35 16	Folding Grilles
08 35 16.13	Accordion Folding Grilles
08 36 00	Panel Doors
08 36 13	Sectional Doors
08 36 16	Single-Panel Doors
08 36 19	Multi-Leaf Vertical Lift Doors
08 36 23	Telescoping Vertical Lift Doors
08 38 00	Traffic Doors
08 38 13	Flexible Strip Doors
08 38 16	Flexible Traffic Doors
08 38 19	Rigid Traffic Doors
08 39 00	Pressure-Resistant Doors
08 39 13	Airtight Doors
08 39 19	Watertight Doors
08 39 53	Blast-Resistant Doors
08 40 00	Entrances, Storefronts, and Curtain Walls
08 41 00	Entrances and Storefronts
08 41 13	Aluminum-Framed Entrances and Storefronts
08 41 16	Bronze-Framed Entrances and Storefronts
08 41 19	Stainless-Steel-Framed Entrances and Storefronts
08 41 23	Steel-Framed Entrances and Storefronts
08 41 26	All-Glass Entrances and Storefronts
08 42 00	Entrances
08 42 26	All-Glass Entrances
08 42 29	Automatic Entrances
08 42 29.13	Folding Automatic Entrances
08 42 29.23	Sliding Automatic Entrances
08 42 29.33	Swinging Automatic Entrances
08 42 33	Revolving Door Entrances
08 42 33.13	Security Revolving Door Entrances
08 42 36	Balanced Door Entrances
08 42 39	Pressure-Resistant Entrances

08 42 43	Intensive Care Unit/Critical Care Unit Entrances
08 43 00	Storefronts
08 43 11	Timber-Framed Storefronts
08 43 13	Aluminum-Framed Storefronts
08 43 16	Bronze-Framed Storefronts
08 43 19	Stainless-Steel-Framed Storefronts
08 43 23	Steel-Framed Storefronts
08 43 26	All-Glass Storefronts
08 43 27	Channel Glass Storefronts
08 43 29	Sliding Storefronts
08 44 00	Curtain Wall and Glazed Assemblies
08 44 11	Glazed Timber Curtain Walls
08 44 13	Glazed Aluminum Curtain Walls
08 44 16	Glazed Bronze Curtain Walls
08 44 18	Glazed Steel Curtain Walls
08 44 19	Glazed Stainless-Steel Curtain Walls
08 44 23	Structural Sealant Glazed Curtain Walls
08 44 26	Structural Glass Curtain Walls
08 44 26.19	Point Supported Structural Glass
08 44 33	Sloped Glazing Assemblies
08 45 00	Translucent Wall and Roof Assemblies
08 45 13	Structured-Polycarbonate-Panel Assemblies
08 45 23	Fiberglass-Sandwich-Panel Assemblies
08 50 00	Windows
08 51 00	Metal Windows
08 51 13	Aluminum Windows
08 51 16	Bronze Windows
08 51 19	Stainless-Steel Windows
08 51 23	Steel Windows
08 51 66	Metal Window Screens
08 51 69	Metal Storm Windows
08 52 00	Wood Windows
08 52 13	Metal-Clad Wood Windows
08 52 16	Plastic-Clad Wood Windows
08 52 66	Wood Window Screens
08 52 69	Wood Storm Windows
08 53 00	Plastic Windows
08 53 13	Vinyl Windows
08 53 66	Vinyl Window Screens
08 53 69	Vinyl Storm Windows
08 54 00	Composite Windows
08 54 13	Fiberglass Windows
08 54 66	Fiberglass Window Screens
08 54 69	Fiberglass Storm Windows
08 55 00	Pressure-Resistant Windows
08 56 00	Special Function Windows
08 56 19	Pass Windows
08 56 46	Radio-Frequency-Interference Shielding Windows

08 56 49	Radiation Shielding Windows
08 56 53	Security Windows
08 56 56	Security Window Screens
08 56 59	Service and Teller Window Units
08 56 63	Detention Windows
08 56 66	Detention Window Screens
08 56 73	Sound Control Windows
08 56 88	Interior Insulating Windows
08 60 00	Roof Windows and Skylights
08 61 00	Roof Windows
08 61 13	Metal Roof Windows
08 61 16	Wood Roof Windows
08 62 00	Unit Skylights
08 62 13	Domed Unit Skylights
08 62 16	Pyramidal Unit Skylights
08 62 19	Vaulted Unit Skylights
08 62 23	Tubular Skylights
08 63 00	Metal-Framed Skylights
08 63 13	Domed Metal-Framed Skylights
08 63 16	Pyramidal Metal-Framed Skylights
08 63 19	Vaulted Metal-Framed Skylights
08 63 23	Ridge Metal-Framed Skylights
08 63 53	Motorized Metal-Framed Skylights
08 64 00	Plastic-Framed Skylights
08 67 00	Skylight Protection and Screens
08 70 00	Hardware
08 71 00	Door Hardware
08 71 13	Automatic Door Operators
08 71 53	Security Door Hardware
08 71 63	Detention Door Hardware
08 74 00	Access Control Hardware
08 74 13	Card Key Access Control Hardware
08 74 16	Keypad Access Control Hardware
08 74 19	Biometric Identity Access Control Hardware
08 75 00	Window Hardware
08 75 13	Automatic Window Equipment
08 75 16	Window Operators
08 78 00	Special Function Hardware
08 79 00	Hardware Accessories
08 79 13	Key Storage Equipment
08 80 00	Glazing
08 81 00	Glass Glazing
08 81 13	Decorative Glass Glazing
08 83 00	Mirrors
08 83 13	Mirrored Glass Glazing
08 83 16	Mirrored Plastic Glazing

08 84 00	Plastic Glazing
08 84 13	Decorative Plastic Glazing
08 85 00	Glazing Accessories
08 87 00	Glazing Surface Films
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 33	Decorative Films
08 88 00	Special Function Glazing
08 88 13	Fire-Resistant 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
08 90 00	Louvers and Vents
08 91 00	Louvers
08 91 13	Motorized Wall Louvers
08 91 16	Operable Wall Louvers
08 91 19	Fixed Louvers
08 91 26	Door Louvers
08 92 00	Louvered Equipment Enclosures
08 95 00	Vents
08 95 13	Soffit Vents
08 95 16	Wall Vents
08 95 33	Explosion Vents
08 95 43	Flood Vents

09 00 00	Finishes
09 01 00	Maintenance of Finishes
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
09 05 00	Common Work Results for Finishes
09 05 13	Common Finishes
09 05 61	Common Work Results for Flooring Preparation
09 06 00	Schedules for Finishes
09 06 00.13	Room Finish Schedule
09 06 20	Schedules for Plaster and Gypsum Board
09 06 30	Schedules for Tiling
09 06 50	Schedules for Ceilings
09 06 60	Schedules for Flooring
09 06 70	Schedules for Wall Finishes
09 06 80	Schedules for Acoustical Treatment
09 06 90	Schedules for Painting and Coating
09 06 90.13	Paint Schedule
09 08 00	Commissioning of Finishes
09 20 00	Plaster and Gypsum Board
09 21 00	Plaster and Gypsum Board Assemblies
09 21 13	Plaster Assemblies
09 21 16	Gypsum Board Assemblies
09 21 16.23	Gypsum Board Shaft Wall Assemblies
09 21 16.33	Gypsum Board Area Separation Wall Assemblies
09 22 00	Supports for Plaster and Gypsum Board
09 22 13	Metal Furring
09 22 13.13	Metal Channel Furring
09 22 13.23	Resilient Channel Furring
09 22 16	Non-Structural Metal Framing
09 22 16.13	Non-Structural Metal Stud Framing
09 22 26	Suspension Systems
09 22 26.23	Metal Suspension Systems
09 22 26.33	Plastic Suspension Systems

09 22 36	Lath
09 22 36.13	Gypsum Lath
09 22 36.23	Metal Lath
09 22 39	Veneer Plaster Base
09 23 00	Gypsum Plastering
09 23 13	Acoustical Gypsum Plastering
09 23 82	Fireproof Gypsum Plastering
09 24 00	Cement Plastering
09 24 13	Adobe Finish
09 24 23	Cement Stucco
09 24 33	Cement Parging
09 25 00	Other Plastering
09 25 13	Acrylic Plastering
09 25 13.13	Acrylic Plaster Finish
09 25 23	Lime Based Plastering
09 25 26	Natural Clay Plastering
09 26 00	Veneer Plastering
09 26 13	Gypsum Veneer Plastering
09 27 00	Plaster Fabrications
09 27 13	Glass-Fiber-Reinforced Plaster Fabrications
09 27 23	Simulated Plaster Fabrications
09 28 00	Backing Boards and Underlayments
09 28 13	Cementitious Backing Boards
09 28 16	Glass-Mat Faced Gypsum Backing Boards
09 28 19	Fibered Gypsum Backing Boards
09 29 00	Gypsum Board
09 29 82	Gypsum Board Fireproofing
09 30 00	Tiling
09 30 13	Ceramic Tiling
09 30 16	Quarry Tiling
09 30 19	Paver Tiling
09 30 23	Glass Mosaic Tiling
09 30 26	Plastic Tiling
09 30 29	Metal Tiling
09 30 33	Stone Tiling
09 30 36	Concrete Tiling
09 30 39	Brick Tiling
09 31 00	Thin-Set Tiling
09 31 13	Thin-Set Ceramic Tiling
09 31 16	Thin-Set Quarry Tiling
09 31 19	Thin-Set Paver Tiling
09 31 23	Thin-Set Glass Mosaic Tiling
09 31 26	Thin-Set Plastic Tiling
09 31 29	Thin-Set Metal Tiling
09 31 33	Thin-Set Stone Tiling
09 31 36	Thin-Set Concrete Tiling
09 32 00	Mortar-Bed Tiling
09 32 13	Mortar-Bed Ceramic Tiling

09 32 16	Mortar-Bed Quarry Tiling
09 32 19	Mortar-Bed Paver Tiling
09 32 23	Mortar-Bed Glass Mosaic Tiling
09 32 26	Mortar-Bed Plastic Tiling
09 32 29	Mortar-Bed Metal Tiling
09 32 33	Mortar-Bed Stone Tiling
09 32 36	Mortar-Bed Concrete Tiling
09 33 00	Conductive Tiling
09 33 13	Conductive Ceramic Tiling
09 33 16	Conductive Quarry Tiling
09 33 19	Conductive Paver Tiling
09 33 23	Conductive Glass Mosaic Tiling
09 33 26	Conductive Plastic Tiling
09 33 29	Conductive Metal Tiling
09 33 33	Conductive Stone Tiling
09 33 36	Conductive Concrete Tiling
09 34 00	Waterproofing-Membrane Tiling
09 34 13	Waterproofing-Membrane Ceramic Tiling
09 34 16	Waterproofing-Membrane Quarry Tiling
09 34 19	Waterproofing-Membrane Paver Tiling
09 34 23	Waterproofing-Membrane Glass Mosaic Tiling
09 34 26	Waterproofing-Membrane Plastic Tiling
09 34 29	Waterproofing-Membrane Metal Tiling
09 34 33	Waterproofing-Membrane Stone Tiling
09 34 36	Waterproofing-Membrane Concrete Tiling
09 35 00	Chemical-Resistant Tiling
09 35 13	Chemical-Resistant Ceramic Tiling
09 35 16	Chemical-Resistant Quarry Tiling
09 35 19	Chemical-Resistant Paver Tiling
09 35 23	Chemical-Resistant Glass Mosaic Tiling
09 35 26	Chemical-Resistant Plastic Tiling
09 35 29	Chemical-Resistant Metal Tiling
09 35 33	Chemical-Resistant Stone Tiling
09 35 36	Chemical-Resistant Concrete Tiling
09 50 00	Ceilings
09 51 00	Acoustical Ceilings
09 51 13	Acoustical Panel Ceilings
09 51 14	Acoustical Fabric-Faced Panel Ceilings
09 51 23	Acoustical Tile Ceilings
09 51 26	Acoustical Wood Ceilings
09 51 33	Acoustical Metal Pan Ceilings
09 51 33.13	Acoustical Snap-in Metal Pan Ceilings
09 51 53	Direct-Applied Acoustical Ceilings
09 53 00	Acoustical Ceiling Suspension Assemblies
09 53 13	Curved Profile Ceiling Suspension Assemblies
09 53 23	Metal Acoustical Ceiling Suspension Assemblies
09 53 33	Plastic Acoustical Ceiling Suspension Assemblies
09 54 00	Specialty Ceilings
09 54 13	Open Metal Mesh Ceilings

09 54 16	Luminous Ceilings
09 54 19	Mirror Panel Ceilings
09 54 23	Linear Metal Ceilings
09 54 26	Suspended Wood Ceilings
09 54 33	Decorative Panel Ceilings
09 54 36	Suspended Decorative Grids
09 54 43	Stretched-Fabric Ceiling Systems
09 54 46	Fabric-Wrapped Ceiling Panels
09 54 53	Fiberglass Reinforced Panel Ceilings
09 56 00	Textured Ceilings
09 56 13	Gypsum-Panel Textured Ceilings
09 56 16	Metal-Panel Textured Ceilings
09 57 00	Special Function Ceilings
09 57 53	Security Ceiling Assemblies
09 58 00	Integrated Ceiling Assemblies
09 60 00	Flooring
09 60 13	Acoustic Underlayment
09 61 00	Flooring Treatment
09 61 13	Slip-Resistant Flooring Treatment
09 61 36	Static-Resistant Flooring Treatment
09 62 00	Specialty Flooring
09 62 13	Asphaltic Plank Flooring
09 62 19	Laminate Flooring
09 62 23	Bamboo Flooring
09 62 26	Leather Flooring
09 62 29	Cork Flooring
09 62 35	Acid-Resistant Flooring
09 62 48	Acoustic Flooring
09 62 53	Synthetic Turf Flooring
09 62 63	Metal Flooring
09 62 63.13	Aluminum Flooring
09 62 63.16	Stainless Steel Flooring
09 62 83	Structural Glass Flooring
09 63 00	Masonry Flooring
09 63 13	Brick Flooring
09 63 13.35	Chemical-Resistant Brick Flooring
09 63 40	Stone Flooring
09 63 43	Composition Stone Flooring
09 64 00	Wood Flooring
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 64 33	Laminated Wood Flooring
09 64 53	Resilient Wood Flooring Assemblies
09 64 66	Wood Athletic Flooring
09 65 00	Resilient Flooring

09 65 13	Resilient Base and Accessories
09 65 13.13	Resilient Base
09 65 13.23	Resilient Stair Treads and Risers
09 65 13.26	Resilient Stair Nosings
09 65 13.33	Resilient Accessories
09 65 13.36	Resilient Carpet Transitions
09 65 16	Resilient Sheet Flooring
09 65 16.23	Vinyl Sheet Flooring
09 65 16.33	Rubber Sheet Flooring
09 65 16.43	PVC-Free Sheet Flooring
09 65 19	Resilient Tile Flooring
09 65 33	Conductive Resilient Flooring
09 65 36	Static-Control Resilient Flooring
09 65 36.13	Static-Dissipative Resilient Flooring
09 65 36.16	Static-Resistant Resilient Flooring
09 65 43	Linoleum Flooring
09 65 66	Resilient Athletic Flooring
09 66 00	Terrazzo Flooring
09 66 13	Portland Cement Terrazzo Flooring
09 66 13.13	Sand Cushion Terrazzo Flooring
09 66 13.16	Monolithic Terrazzo Flooring
09 66 13.19	Bonded Terrazzo Flooring
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 66 16.16	Plastic-Matrix Terrazzo Floor Tile
09 66 23	Resinous Matrix Terrazzo Flooring
09 66 23.13	Polyacrylate Modified Cementitious Terrazzo Flooring
09 66 23.16	Epoxy-Resin Terrazzo Flooring
09 66 23.19	Polyester-Resin Terrazzo Flooring
09 66 33	Conductive Terrazzo Flooring
09 66 33.13	Conductive Epoxy-Resin Terrazzo
09 66 33.16	Conductive Polyester-Resin Terrazzo Flooring
09 66 33.19	Conductive Plastic-Matrix Terrazzo Flooring
09 67 00	Fluid-Applied Flooring
09 67 13	Elastomeric Liquid Flooring
09 67 13.33	Conductive Elastomeric Liquid Flooring
09 67 16	Epoxy-Marble Chip Flooring
09 67 19	Magnesium-Oxychloride Flooring
09 67 23	Resinous Flooring
09 67 26	Quartz Flooring
09 67 66	Fluid-Applied Athletic Flooring
09 68 00	Carpeting
09 68 13	Tile Carpeting
09 68 16	Sheet Carpeting
09 69 00	Access Flooring
09 69 13	Rigid-Grid Access Flooring
09 69 16	Snap-on Stringer Access Flooring
09 69 19	Stringerless Access Flooring
09 69 33	Low-Profile Fixed Height Access Flooring

09 69 53	Access Flooring Accessories
09 69 56	Access Flooring Stairs and Stringers
09 70 00	Wall Finishes
09 72 00	Wall Coverings
09 72 13	Cork Wall Coverings
09 72 16	Vinyl-Coated Fabric Wall Coverings
09 72 16.13	Flexible Vinyl Wall Coverings
09 72 16.16	Rigid-Sheet Vinyl Wall Coverings
09 72 19	Textile Wall Coverings
09 72 23	Wallpapering
09 73 00	Wall Carpeting
09 74 00	Flexible Wood Sheets
09 74 13	Wood Wall Coverings
09 74 16	Flexible Wood Veneers
09 75 00	Stone Facing
09 75 13	Stone Wall Facing
09 75 19	Stone Trim
09 76 00	Plastic Blocks
09 77 00	Special Wall Surfacing
09 77 13	Stretched-Fabric Wall Systems
09 77 23	Fabric-Wrapped Panels
09 77 53	Vegetated Wall Systems
09 80 00	Acoustic Treatment
09 81 00	Acoustic Insulation
09 81 13	Acoustic Board Insulation
09 81 16	Acoustic Blanket Insulation
09 81 29	Sprayed Acoustic Insulation
09 83 00	Acoustic Finishes
09 83 13	Acoustic Wall Coating
09 83 16	Acoustic Ceiling Coating
09 83 22	Acoustic Drapery
09 84 00	Acoustic Room Components
09 84 13	Fixed Sound-Absorptive Panels
09 84 14	Acoustic Stretched-Fabric Wall Systems
09 84 16	Fixed Sound-Reflective Panels
09 84 23	Moveable Sound-Absorptive Panels
09 84 26	Moveable Sound-Reflective Panels
09 84 33	Sound-Absorbing Wall Units
09 84 36	Sound-Absorbing Ceiling Units
09 90 00	Painting and Coating
09 91 00	Painting
09 91 13	Exterior Painting
09 91 23	Interior Painting
09 93 00	Staining and Transparent Finishing
09 93 13	Exterior Staining and Finishing
09 93 13.13	Exterior Staining

09 93 13.53	Exterior Finishing
09 93 23	Interior Staining and Finishing
09 93 23.13	Interior Staining
09 93 23.53	Interior Finishing
09 94 00	Decorative Finishing
09 94 13	Textured Finishing
09 94 16	Faux Finishing
09 94 19	Multicolor Interior Finishing
09 96 00	High-Performance Coatings
09 96 13	Abrasion-Resistant Coatings
09 96 23	Graffiti-Resistant Coatings
09 96 26	Marine Coatings
09 96 33	High-Temperature-Resistant Coatings
09 96 35	Chemical-Resistant Coatings
09 96 43	Fire-Retardant Coatings
09 96 46	Intumescent Painting
09 96 53	Elastomeric Coatings
09 96 56	Epoxy Coatings
09 96 59	High-Build Glazed Coatings
09 96 63	Textured Plastic Coatings
09 96 66	Aggregate Wall Coatings
09 97 00	Special Coatings
09 97 13	Steel Coatings
09 97 13.13	Interior Steel Coatings
09 97 13.23	Exterior Steel Coatings
09 97 23	Concrete and Masonry Coatings
09 97 26	Cementitious Coatings
09 97 26.13	Interior Cementitious Coatings
09 97 26.23	Exterior Cementitious Coatings

10 00 00	Specialties
10 01 00	Operation and Maintenance of Specialties
10 01 10	Operation and Maintenance of Information Specialties
10 01 20	Operation and Maintenance of Interior Specialties
10 01 30	Operation and Maintenance of Fireplaces and Stoves
10 01 40	Operation and Maintenance of Safety Specialties
10 01 50	Operation and Maintenance of Storage Specialties
10 01 70	Operation and Maintenance of Exterior Specialties
10 01 80	Operation and Maintenance of Other Specialties
10 05 00	Common Work Results for Specialties
10 06 00	Schedules for Specialties
10 06 10	Schedules for Information Specialties
10 06 10.13	Exterior Signage Schedule
10 06 10.16	Interior Signage Schedule
10 06 20	Schedules for Interior Specialties
10 06 20.13	Toilet, Bath, and Laundry Accessory Schedule
10 06 30	Schedules for Fireplaces and Stoves
10 06 40	Schedules for Safety Specialties
10 06 50	Schedules for Storage Specialties
10 06 70	Schedules for Exterior Specialties
10 06 80	Schedules for Other Specialties
10 08 00	Commissioning of Specialties
10 10 00	Information Specialties
10 11 00	Visual Display Units
10 11 13	Chalkboards
10 11 13.13	Fixed Chalkboards
10 11 13.23	Modular-Support-Mounted Chalkboards
10 11 13.33	Rail-Mounted Chalkboards
10 11 13.43	Portable Chalkboards
10 11 16	Markerboards
10 11 16.13	Fixed Markerboards
10 11 16.23	Modular-Support-Mounted Markerboards
10 11 16.33	Rail-Mounted Markerboards
10 11 16.43	Portable Markerboards
10 11 16.53	Electronic Markerboards
10 11 23	Tackboards
10 11 23.13	Fixed Tackboards
10 11 23.23	Modular-Support-Mounted Tackboards
10 11 23.33	Rail-Mounted Tackboards
10 11 23.43	Portable Tackboards
10 11 33	Sliding Visual Display Units
10 11 33.13	Horizontal-Sliding Visual Display Units
10 11 33.23	Vertical-Sliding Visual Display Units
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
10 12 00	Display Cases
10 13 00	Directories

10 13 13	Electronic Directories
10 13 23	Illuminated Directories
10 14 00	Signage
10 14 16	Plaques
10 14 19	Dimensional Letter Signage
10 14 23	Panel Signage
10 14 23.13	Engraved Panel Signage
10 14 26	Post and Panel/Pylon Signage
10 14 33	Illuminated Panel Signage
10 14 43	Photoluminescent Signage
10 14 53	Traffic Signage
10 14 53.13	Transportation Reference Markers
10 14 63	Electronic Message Signage
10 14 64	Audible Signage
10 14 66	Floating Signage
10 17 00	Telephone Specialties
10 17 13	Telephone Directory Units
10 17 16	Telephone Enclosures
10 17 16.13	Telephone Stalls
10 17 16.16	Telephone Alcoves
10 17 19	Telephone Shelving
10 18 00	Informational Kiosks
10 20 00	Interior Specialties
10 21 00	Compartments and Cubicles
10 21 13	Toilet Compartments
10 21 13.13	Metal Toilet Compartments
10 21 13.16	Plastic-Laminate-Clad Toilet Compartments
10 21 13.19	Plastic Toilet Compartments
10 21 13.23	Particleboard Toilet Compartments
10 21 13.40	Stone Toilet Compartments
10 21 16	Shower and Dressing Compartments
10 21 16.13	Metal Shower and Dressing Compartments
10 21 16.16	Plastic-Laminate-Clad Shower and Dressing Compartments
10 21 16.19	Plastic Shower and Dressing Compartments
10 21 16.23	Particleboard Shower and Dressing Compartments
10 21 16.40	Stone Shower and Dressing Compartments
10 21 23	Cubicle Curtains and Track
10 21 23.13	Cubicle Curtains
10 21 23.16	Cubicle Track and Hardware
10 22 00	Partitions
10 22 13	Wire Mesh Partitions
10 22 14	Expanded Metal Partitions
10 22 16	Folding Gates
10 22 19	Demountable Partitions
10 22 19.13	Demountable Metal Partitions
10 22 19.23	Demountable Wood Partitions
10 22 19.33	Demountable Plastic Partitions
10 22 19.43	Demountable Composite Partitions
10 22 19.53	Demountable Gypsum Partitions
10 22 23	Portable Partitions, Screens, and Panels
10 22 23.13	Wall Screens

10 22 23.23	Movable Panel Systems
10 22 33	Accordion Folding Partitions
10 22 36	Coiling Partitions
10 22 39	Folding Panel Partitions
10 22 43	Sliding Partitions
10 25 00	Service Walls
10 25 13	Patient Bed Service Walls
10 25 16	Modular Service Walls
10 26 00	Wall and Door Protection
10 26 13	Corner Guards
10 26 16	Bumper Guards
10 26 16.13	Bumper Rails
10 26 16.16	Protective Corridor Handrails
10 26 23	Protective Wall Covering
10 26 23.13	Impact Resistant Wall Protection
10 26 33	Door and Frame Protection
10 26 41	Bullet Resistant Panels
10 28 00	Toilet, Bath, and Laundry Accessories
10 28 13	Toilet Accessories
10 28 13.13	Commercial Toilet Accessories
10 28 13.19	Healthcare Toilet Accessories
10 28 13.53	Security Toilet Accessories
10 28 13.63	Detention Toilet Accessories
10 28 16	Bath Accessories
10 28 16.13	Residential Bath Accessories
10 28 19	Tub and Shower Doors
10 28 19.16	Shower Doors
10 28 19.19	Tub Doors
10 28 23	Laundry Accessories
10 28 23.13	Built-In Ironing Boards
10 28 23.16	Clothes Drying Racks
10 30 00	Fireplaces and Stoves
10 31 00	Manufactured Fireplaces
10 31 13	Manufactured Fireplace Chimneys
10 31 16	Manufactured Fireplace Forms
10 32 00	Fireplace Specialties
10 32 13	Fireplace Dampers
10 32 16	Fireplace Inserts
10 32 19	Fireplace Screens
10 32 23	Fireplace Doors
10 32 26	Fireplace Water Heaters
10 35 00	Stoves
10 35 13	Heating Stoves
10 35 23	Cooking Stoves
10 40 00	Safety Specialties
10 41 00	Emergency Access and Information Cabinets
10 41 13	Fire Department Plan Cabinets
10 41 16	Emergency Key Cabinets

- 10 43 00 Emergency Aid Specialties**
 - 10 43 13 Defibrillator Cabinets
 - 10 43 16 First Aid Cabinets
 - 10 43 21 Accessibility Evacuation Chairs
 - 10 43 31 Respiration Equipment
 - 10 43 33 Breathing Air Replenishment Systems
- 10 44 00 Fire Protection Specialties**
 - 10 44 13 Fire Protection Cabinets
 - 10 44 13.53 Security Fire Extinguisher Cabinets
 - 10 44 16 Fire Extinguishers
 - 10 44 16.13 Portable Fire Extinguishers
 - 10 44 16.16 Wheeled Fire Extinguisher Units
 - 10 44 43 Fire Extinguisher Accessories
- 10 50 00 Storage Specialties**
- 10 51 00 Lockers**
 - 10 51 13 Metal Lockers
 - 10 51 16 Wood Lockers
 - 10 51 23 Plastic-Laminate-Clad Lockers
 - 10 51 26 Plastic Lockers
 - 10 51 26.13 Recycled Plastic Lockers
 - 10 51 29 Phenolic Lockers
 - 10 51 33 Glass Lockers
 - 10 51 43 Wire Mesh Storage Lockers
 - 10 51 53 Locker Room Benches
- 10 55 00 Postal Specialties**
 - 10 55 13 Central Mail Delivery Boxes
 - 10 55 13.13 Cluster Box Units
 - 10 55 16 Mail Collection Boxes
 - 10 55 19 Receiving Boxes
 - 10 55 23 Mail Boxes
 - 10 55 23.13 Apartment Mail Boxes
 - 10 55 23.16 Mail Box Directories
 - 10 55 23.19 Mail Box Key Keepers
 - 10 55 26 Parcel Lockers
 - 10 55 33 Data Distribution Boxes
 - 10 55 36 Package Depositories
 - 10 55 91 Mail Chutes
- 10 56 00 Storage Assemblies**
 - 10 56 13 Metal Storage Shelving
 - 10 56 13.13 End-Panel-Support Metal Storage Shelving
 - 10 56 13.16 Post-and-Shelf Metal Storage Shelving
 - 10 56 13.19 Post-and-Beam Metal Storage Shelving
 - 10 56 13.23 Cantilever Metal Storage Shelving
 - 10 56 16 Fabricated Wood Storage Shelving
 - 10 56 17 Wall-Mounted Standards and Shelving
 - 10 56 19 Plastic Storage Shelving
 - 10 56 19.13 Recycled Plastic Storage Shelving
 - 10 56 23 Wire Storage Shelving
 - 10 56 26 Mobile Storage Shelving
 - 10 56 26.13 Manual Mobile Storage Shelving

10 56 26.23	Motorized Mobile Storage Shelving
10 56 29	Storage Racks
10 56 29.13	Flow Storage Racks
10 56 29.16	Pallet Storage Racks
10 56 29.19	Movable-Shelf Storage Racks
10 56 29.23	Stacker Storage Racks
10 56 29.26	Cantilever Storage Racks
10 56 29.29	Drive-In Storage Racks
10 56 29.33	Drive-Through Storage Racks
10 56 29.43	Wine Storage Racks
10 56 33	Mercantile Storage Assemblies
10 57 00	Wardrobe and Closet Specialties
10 57 13	Hat and Coat Racks
10 57 16	Boot Racks
10 57 23	Closet and Utility Shelving
10 57 23.13	Wire Closet and Utility Shelving
10 57 23.16	Plastic-Laminate-Clad Closet and Utility Shelving
10 57 23.19	Wood Closet and Utility Shelving
10 57 33	Closet and Utility Shelving Hardware
10 70 00	Exterior Specialties
10 71 00	Exterior Protection
10 71 13	Exterior Sun Control Devices
10 71 13.13	Exterior Shutters
10 71 13.19	Rolling Exterior Shutters
10 71 13.23	Coiling Exterior Shutters
10 71 13.26	Decorative Exterior Shutters
10 71 13.29	Side-Hinged Exterior Shutters
10 71 13.43	Fixed Sun Screens
10 71 16	Storm Panels
10 71 16.13	Demountable Storm Panels
10 71 16.16	Movable Storm Panels
10 71 19	Flood Barriers
10 73 00	Protective Covers
10 73 13	Awnings
10 73 16	Canopies
10 73 23	Car Shelters
10 73 26	Walkway Coverings
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	Weather vanes
10 74 43	Below-Grade Egress Assemblies
10 74 46	Window Wells
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 80 00	Other 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 15	Operation and Maintenance of Security, Bank, and Detention 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 Equipment
11 01 65	Operation and Maintenance of Athletic and Recreational Equipment
11 01 70	Operation and Maintenance of Healthcare Equipment
11 01 80	Operation and Maintenance of Collection and Disposal Equipment
11 01 90	Operation and Maintenance of Other Equipment
11 05 00	Common Work Results 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 15	Schedules for Security, Bank, and Detention Equipment
11 06 15.13	Teller and Service Equipment Schedule
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
11 06 60	Schedules for Entertainment Equipment
11 06 65	Schedules for Athletic and Recreational Equipment
11 06 70	Schedules for Healthcare Equipment
11 06 70.13	Healthcare Equipment Schedule
11 06 80	Schedules for Collection and Disposal Equipment
11 06 90	Schedules for Other Equipment
11 08 00	Commissioning of Equipment
11 10 00	Vehicle and Pedestrian Equipment
11 11 00	Vehicle Service Equipment
11 11 13	Compressed-Air Vehicle Service Equipment
11 11 19	Vehicle Lubrication Equipment
11 11 23	Tire-Changing Equipment
11 11 26	Vehicle-Washing Equipment
11 12 00	Parking Control Equipment

11 12 13	Parking Key and Card Control Units
11 12 16	Parking Ticket Dispensers
11 12 23	Parking Meters
11 12 26	Parking Fee Collection Equipment
11 12 26.13	Parking Fee Coin Collection Equipment
11 12 33	Parking Gates
11 13 00	Loading Dock Equipment
11 13 13	Loading Dock Bumpers
11 13 16	Loading Dock Seals and Shelters
11 13 16.13	Loading Dock Seals
11 13 16.23	Loading Dock Shelters
11 13 16.33	Loading Dock Rail Shelters
11 13 19	Stationary Loading Dock Equipment
11 13 19.13	Loading Dock Levelers
11 13 19.23	Stationary Loading Dock Lifts
11 13 19.26	Loading Dock Truck Lifts
11 13 19.33	Loading Dock Truck Restraints
11 13 23	Portable Dock Equipment
11 13 23.13	Portable Dock Lifts
11 13 23.16	Portable Dock Ramps
11 13 23.19	Portable Dock Bridges
11 13 23.23	Portable Dock Platforms
11 13 26	Loading Dock Lights
11 14 00	Pedestrian Control Equipment
11 14 13	Pedestrian Gates
11 14 13.13	Portable Posts and Railings
11 14 13.16	Rotary Gates
11 14 13.19	Turnstiles
11 14 16	Money-Changing Equipment
11 14 16.19	Money-Changing Machines
11 14 26	Pedestrian Fare Collection Equipment
11 14 26.13	Pedestrian Coin Fare Collection Equipment
11 14 43	Pedestrian Detection Equipment
11 14 43.13	Electronic Detection and Counting Systems
11 14 53	Pedestrian Security Equipment
11 15 00	Security, Detention, and Banking Equipment
11 16 00	Vault Equipment
11 16 13	Safe Deposit Boxes
11 16 16	Safes
11 16 23	Vault Ventilators
11 17 00	Teller and Service Equipment
11 17 13	Teller Equipment Systems
11 17 16	Automatic Banking Systems
11 17 23	Money Handling Equipment
11 17 33	Money Cart Pass-Through
11 17 36	Package Transfer Units
11 18 00	Security Equipment
11 18 13	Deal Drawers

11 18 16	Gun Ports
11 18 23	Valuable Material Storage
11 19 00	Detention Equipment
11 19 13	Detention Pass-Through Doors
11 19 16	Detention Gun Lockers
11 20 00	Commercial Equipment
11 21 00	Mercantile and Service Equipment
11 21 13	Cash Registers and Checking Equipment
11 21 23	Vending Equipment
11 21 23.13	Vending Machines
11 21 33	Checkroom Equipment
11 21 43	Weighing and Wrapping Equipment
11 21 53	Barber and Beauty Shop Equipment
11 22 00	Refrigerated Display Equipment
11 23 00	Commercial Laundry and Dry Cleaning Equipment
11 23 13	Dry Cleaning Equipment
11 23 16	Drying and Conditioning Equipment
11 23 19	Finishing Equipment
11 23 23	Commercial Ironing Equipment
11 23 26	Commercial Washers and Extractors
11 23 33	Coin-Operated Laundry Equipment
11 23 43	Hanging Garment Conveyors
11 24 00	Maintenance Equipment
11 24 13	Floor and Wall Cleaning Equipment
11 24 16	Housekeeping Carts
11 24 19	Vacuum Cleaning Systems
11 24 23	Facade Access Equipment
11 24 23.13	Window Washing Systems
11 24 29	Facility Fall Protection
11 25 00	Hospitality Equipment
11 25 13	Registration Equipment
11 26 00	Unit Kitchens
11 26 13	Metal Unit Kitchens
11 26 16	Wood Unit Kitchens
11 26 19	Plastic-Laminate-Clad Unit Kitchens
11 27 00	Photographic Processing Equipment
11 27 13	Darkroom Processing Equipment
11 27 16	Film Transfer Cabinets
11 28 00	Office Equipment
11 28 13	Computers
11 28 16	Printers
11 28 19	Self-Contained Facsimile Machines
11 28 23	Copiers
11 29 00	Postal, Packaging, and Shipping Equipment
11 29 23	Packaging Equipment
11 29 33	Shipping Equipment
11 29 55	Postal Equipment

11 30 00	Residential Equipment
11 31 00	Residential Appliances
11 31 13	Residential Kitchen Appliances
11 31 23	Residential Laundry Appliances
11 33 00	Retractable Stairs
11 34 00	Residential Ceiling Fans
11 40 00	Foodservice Equipment
11 41 00	Foodservice Storage Equipment
11 41 13	Refrigerated Food Storage Cases
11 41 23	Walk-In Coolers
11 41 26	Walk-In Freezers
11 41 33	Foodservice Shelving
11 42 00	Food Preparation Equipment
11 42 13	Food Preparation Appliances
11 42 16	Food Preparation Surfaces
11 43 00	Food Delivery Carts and Conveyors
11 43 13	Food Delivery Carts
11 43 16	Food Delivery Conveyors
11 44 00	Food Cooking Equipment
11 44 13	Commercial Ranges
11 44 16	Commercial Ovens
11 46 00	Food Dispensing Equipment
11 46 13	Bar Equipment
11 46 16	Service Line Equipment
11 46 19	Soda Fountain Equipment
11 47 00	Ice Machines
11 48 00	Cleaning and Disposal Equipment
11 48 13	Commercial Dishwashers
11 50 00	Educational and Scientific Equipment
11 51 00	Library Equipment
11 51 13	Automated Book Storage and Retrieval Systems
11 51 16	Book Depositories
11 51 19	Book Theft Protection Equipment
11 51 23	Library Stack Systems
11 51 23.13	Metal Library Shelving
11 52 00	Audio-Visual Equipment
11 52 13	Projection Screens
11 52 13.13	Fixed Projection Screens
11 52 13.16	Portable Projection Screens
11 52 13.19	Rear Projection Screens
11 52 16	Projectors
11 52 16.13	Movie Projectors
11 52 16.16	Slide Projectors
11 52 16.19	Overhead Projectors
11 52 16.23	Opaque Projectors
11 52 16.26	Video Projectors

11 52 19	Players and Recorders
11 52 23	Audio-Visual Equipment Supports
11 53 00	Laboratory Equipment
11 53 13	Laboratory Fume Hoods
11 53 13.13	Recirculating Laboratory Fume Hoods
11 53 16	Laboratory Incubators
11 53 17	Laboratory Equipment Washers
11 53 19	Laboratory Sterilizers
11 53 23	Laboratory Refrigerators
11 53 26	Laboratory Freezers
11 53 29	Laboratory Controlled-Environment Cabinets
11 53 33	Emergency Safety Appliances
11 53 43	Service Fittings and Accessories
11 53 53	Biological Safety Cabinets
11 55 00	Planetarium Equipment
11 55 13	Planetarium Projectors
11 55 16	Planetarium Pendulums
11 56 00	Observatory Equipment
11 56 13	Telescopes
11 56 16	Telescope Mounts
11 56 19	Telescope Drive Mechanisms
11 56 23	Telescope Domes
11 57 00	Vocational Shop Equipment
11 59 00	Exhibit Equipment
11 60 00	Entertainment Equipment
11 61 00	Theater and Stage Equipment
11 61 13	Acoustical Shells
11 61 23	Folding and Portable Stages
11 61 33	Rigging Systems and Controls
11 61 43	Stage Curtains
11 62 00	Musical Equipment
11 62 13	Bells
11 62 16	Carillons
11 62 19	Organs
11 65 00	Athletic and Recreational Equipment
11 66 00	Athletic Equipment
11 66 13	Exercise Equipment
11 66 23	Gymnasium Equipment
11 66 23.13	Basketball Equipment
11 66 23.23	Volleyball Equipment
11 66 23.33	Interior Tennis Equipment
11 66 23.43	Interior Track and Field Equipment
11 66 23.53	Wall Padding
11 66 23.56	Mat Storage
11 66 43	Interior Scoreboards
11 66 53	Gymnasium Dividers
11 66 53.13	Batting/Golf Cages

11 67 00	Recreational Equipment
11 67 13	Bowling Alley Equipment
11 67 23	Shooting Range Equipment
11 67 33	Climbing Walls
11 67 43	Table Games Equipment
11 67 43.13	Pool Tables
11 67 43.23	Ping-Pong Tables
11 67 53	Game Room Equipment
11 67 53.13	Video Games
11 67 53.23	Pinball Machines
11 68 00	Play Field Equipment and Structures
11 68 13	Playground Equipment
11 68 16	Play Structures
11 68 23	Exterior Court Athletic Equipment
11 68 23.13	Exterior Basketball Equipment
11 68 23.23	Exterior Volleyball Equipment
11 68 23.33	Tennis Equipment
11 68 33	Athletic Field Equipment
11 68 33.13	Football Field Equipment
11 68 33.23	Soccer and Field Hockey Equipment
11 68 33.33	Baseball Field Equipment
11 68 33.43	Track and Field Equipment
11 68 43	Exterior Scoreboards
11 70 00	Healthcare Equipment
11 71 00	Medical Sterilizing Equipment
11 72 00	Examination and Treatment Equipment
11 72 13	Examination Equipment
11 72 53	Treatment Equipment
11 73 00	Patient Care Equipment
11 74 00	Dental Equipment
11 75 00	Optical Equipment
11 76 00	Operating Room Equipment
11 77 00	Radiology Equipment
11 78 00	Mortuary Equipment
11 78 13	Mortuary Refrigerators
11 78 16	Crematorium Equipment
11 78 19	Mortuary Lifts
11 79 00	Therapy Equipment
11 80 00	Collection and Disposal Equipment
11 82 00	Solid Waste Handling Equipment
11 82 13	Solid Waste Bins
11 82 19	Packaged Incinerators
11 82 23	Recycling Equipment
11 82 26	Facility Waste Compactors
11 82 29	Composting Equipment
11 82 33	Facility Waste Shredders
11 82 36	Facility Waste Balers

11 90 00	Other Equipment
11 91 00	Religious Equipment
11 91 13	Baptisteries
11 92 00	Agricultural Equipment
11 92 13	Milkers
11 92 16	Stock Feeders
11 92 19	Stock Waterers
11 92 23	Agricultural Waste Clean-Up Equipment
11 93 00	Horticultural Equipment
11 93 13	Hydroponic Growing Systems
11 93 16	Seeders
11 93 19	Transplanters
11 93 23	Potting Machines
11 93 26	Flat Fillers
11 93 29	Baggers
11 93 33	Soil Mixers
11 95 00	Arts and Crafts Equipment
11 95 13	Kilns

12 00 00	Furnishings
12 01 00	Operation and Maintenance of Furnishings
12 01 10	Operation and Maintenance of Art
12 01 20	Operation and Maintenance of Window Treatments
12 01 30	Operation and Maintenance of Casework
12 01 40	Operation and Maintenance of Furnishings and Accessories
12 01 50	Operation and Maintenance of Furniture
12 01 60	Operation and Maintenance of Multiple Seating
12 01 90	Operation and Maintenance of Other Furnishings
12 05 00	Common Work Results for Furnishings
12 05 13	Fabrics
12 06 00	Schedules for Furnishings
12 06 10	Schedules for Art
12 06 20	Schedules for Window Treatments
12 06 20.13	Window Treatment Schedule
12 06 30	Schedules for Casework
12 06 30.13	Manufactured Casework Schedule
12 06 40	Schedules for Furnishings and Accessories
12 06 40.13	Furnishings Schedule
12 06 50	Schedules for Furniture
12 06 60	Schedules for Multiple Seating
12 06 90	Schedules for Other Furnishings
12 08 00	Commissioning of Furnishings
12 10 00	Art
12 11 00	Murals
12 11 13	Photo Murals
12 11 16	Sculptured Brick Panels
12 11 23	Brick Murals
12 11 26	Ceramic Tile Murals
12 11 33	Trompe l'oeil
12 12 00	Wall Decorations
12 12 13	Commissioned Paintings
12 12 16	Framed Paintings
12 12 19	Framed Prints
12 12 23	Tapestries
12 12 26	Wall Hangings
12 14 00	Sculptures
12 14 13	Carved Sculpture
12 14 16	Cast Sculpture
12 14 19	Constructed Sculpture
12 14 23	Relief Art
12 17 00	Art Glass
12 17 13	Etched Glass
12 17 16	Stained Glass
12 19 00	Religious Art
12 20 00	Window Treatments

12 21 00	Window Blinds
12 21 13	Horizontal Louver Blinds
12 21 13.13	Metal Horizontal Louver Blinds
12 21 13.23	Wood Horizontal Louver Blinds
12 21 13.33	Plastic Horizontal Louver Blinds
12 21 16	Vertical Louver Blinds
12 21 16.13	Metal Vertical Louver Blinds
12 21 16.23	Wood Vertical Louver Blinds
12 21 16.33	Plastic Vertical Louver Blinds
12 21 23	Roll-Down Blinds
12 21 26	Black-Out Blinds
12 22 00	Curtains and Drapes
12 22 13	Draperies
12 22 16	Drapery Track and Accessories
12 23 00	Interior Shutters
12 23 13	Wood Interior Shutters
12 24 00	Window Shades
12 24 13	Roller Window Shades
12 24 16	Pleated Window Shades
12 24 16.13	Z-Pleated Window Shades
12 24 16.16	Cellular Shades
12 24 16.19	Roman Shades
12 25 00	Window Treatment Operating Hardware
12 25 09	Window Treatment Control System
12 25 13	Motorized Drapery Rods
12 30 00	Casework
12 31 00	Manufactured Metal Casework
12 31 16	Manufactured Metal Sandwich Panel Casework
12 32 00	Manufactured Wood Casework
12 32 13	Manufactured Wood-Veneer-Faced Casework
12 32 16	Manufactured Plastic-Laminate-Clad Casework
12 34 00	Manufactured Plastic Casework
12 34 16	Manufactured Solid-Plastic Casework
12 35 00	Specialty Casework
12 35 17	Bank Casework
12 35 25	Hospitality Casework
12 35 30	Residential Casework
12 35 30.13	Kitchen Casework
12 35 30.23	Bathroom Casework
12 35 30.43	Dormitory Casework
12 35 33	Utility Room Casework
12 35 36	Mailroom Casework
12 35 39	Commercial Kitchen Casework
12 35 50	Educational/Library Casework
12 35 50.13	Educational Casework
12 35 50.53	Library Casework
12 35 50.56	Built-In Study Carrels
12 35 53	Laboratory Casework
12 35 53.13	Metal Laboratory Casework

12 35 53.16	Plastic-Laminate-Clad Laboratory Casework
12 35 53.19	Wood Laboratory Casework
12 35 53.23	Solid-Plastic Laboratory Casework
12 35 59	Display Casework
12 35 70	Healthcare Casework
12 35 70.13	Hospital Casework
12 35 70.16	Nurse Station Casework
12 35 70.19	Exam Room Casework
12 35 70.74	Dental Casework
12 35 83	Performing Arts Casework
12 35 91	Religious Casework

12 36 00 **Countertops**

12 36 13	Concrete Countertops
12 36 16	Metal Countertops
12 36 19	Wood Countertops
12 36 23	Plastic Countertops
12 36 23.13	Plastic-Laminate-Clad 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 40 00 **Furnishings and Accessories**

12 41 00 **Office Accessories**

12 41 13	Desk Accessories
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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 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 55 26	Detention Safety Clothes Hooks

12 55 83	Custom Detention Furniture
12 55 86	Detention Control Room Furniture
12 56 00	Institutional Furniture
12 56 23	Religious Furniture
12 56 33	Classroom Furniture
12 56 33.13	Fixed Classroom Tables
12 56 39	Lecterns
12 56 43	Dormitory Furniture
12 56 51	Library Furniture
12 56 51.13	Book Shelves
12 56 51.16	Study Carrels
12 56 51.19	Index Card File Cabinets
12 56 52	Audio-Visual Furniture
12 56 53	Laboratory Furniture
12 56 70	Healthcare Furniture
12 56 83	Custom Institutional Furniture
12 56 86	Institutional Control Room Furniture
12 57 00	Industrial Furniture
12 57 13	Welding Benches
12 57 16	Welding Screens
12 57 19	Laser Containment Screens
12 57 83	Custom Industrial Furniture
12 57 86	Industrial Control Room Furniture
12 58 00	Residential Furniture
12 58 13	Couches and Loveseats
12 58 13.13	Futons
12 58 16	Residential Chairs
12 58 16.13	Reclining Chairs
12 58 19	Dining Tables and 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
12 58 83	Custom Residential Furniture
12 59 00	Systems Furniture
12 59 13	Panel-Hung Component System Furniture
12 59 16	Free-Standing Component System Furniture
12 59 19	Beam System Furniture
12 59 23	Desk System Furniture
12 59 83	Custom Systems Furniture
12 60 00	Multiple Seating
12 61 00	Fixed Audience Seating
12 61 13	Upholstered Audience Seating
12 61 16	Molded-Plastic Audience Seating
12 62 00	Portable Audience Seating
12 62 13	Folding Chairs

12 62 16	Interlocking Chairs
12 62 19	Stacking Chairs
12 63 00	Stadium and Arena Seating
12 63 13	Stadium and Arena Bench Seating
12 63 23	Stadium and Arena Seats
12 64 00	Booths and Tables
12 65 00	Multiple-Use Fixed Seating
12 66 00	Telescoping Stands
12 66 13	Telescoping Bleachers
12 66 23	Telescoping Chair Platforms
12 67 00	Pews and Benches
12 67 13	Pews
12 67 23	Benches
12 68 00	Seat and Table Assemblies
12 68 13	Pedestal Tablet Arm Chairs
12 90 00	Other Furnishings
12 92 00	Interior Planters and Artificial Plants
12 92 13	Interior Artificial Plants
12 92 33	Interior Planters
12 92 43	Interior Landscaping Accessories
12 93 00	Site Furnishings
12 93 13	Bicycle Racks
12 93 14	Bicycle Lockers
12 93 23	Trash and Litter Receptors
12 93 33	Manufactured Planters
12 93 43	Site Seating and Tables
12 93 43.13	Site Seating
12 93 43.53	Site Tables

13 00 00	Special Construction
13 01 00	Operation and Maintenance of Special Construction
13 01 10	Operation and Maintenance of Special Facility Components
13 01 11	Operation and Maintenance of Swimming Pools
13 01 12	Operation and Maintenance of Fountains
13 01 13	Operation and Maintenance of Aquariums
13 01 14	Operation and Maintenance of Amusement Park Structures and Equipment
13 01 18	Operation and Maintenance of Ice Rinks
13 01 20	Operation and Maintenance of Special Purpose Rooms
13 01 21	Operation and Maintenance of Controlled Environment Rooms
13 01 23	Operation and Maintenance of Planetariums
13 01 30	Operation and Maintenance of Special Structures
13 01 40	Operation and Maintenance of Integrated Construction
13 01 49	Operation and Maintenance of Radiation Protection
13 01 50	Operation and Maintenance of Special Instrumentation
13 01 51	Operation and Maintenance of Stress Instrumentation
13 01 52	Operation and Maintenance of Seismic Instrumentation
13 01 53	Operation and Maintenance of Meteorological Instrumentation
13 05 00	Common Work Results for Special Construction
13 06 00	Schedules for Special Construction
13 06 10	Schedules for Special Facility Components
13 06 20	Schedules for Special Purpose Rooms
13 06 30	Schedules for Special Structures
13 06 40	Schedules for Integrated Construction
13 06 50	Schedules for Special Instrumentation
13 08 00	Commissioning of Special Construction
13 08 10	Commissioning of Special Facility Components
13 08 11	Commissioning of Swimming Pools
13 08 12	Commissioning of Fountains
13 08 13	Commissioning of Aquariums
13 08 14	Commissioning of Amusement Park Structures and Equipment
13 08 18	Commissioning of Ice Rinks
13 08 20	Commissioning of Special Purpose Rooms
13 08 21	Commissioning of Controlled Environment Rooms
13 08 23	Commissioning of Planetariums
13 08 30	Commissioning of Special Structures
13 08 40	Commissioning of Integrated Construction
13 08 50	Commissioning of Special Instrumentation
13 10 00	Special Facility Components
13 11 00	Swimming Pools
13 11 13	Below-Grade Swimming Pools
13 11 23	On-Grade Swimming Pools
13 11 33	Elevated Swimming Pools
13 11 43	Recirculating Gutter Systems
13 11 46	Swimming Pool Accessories
13 11 49	Swimming Pool Cleaning Equipment
13 11 53	Movable Pool Bulkheads

13 11 56	Movable Pool Floors
13 12 00	Fountains
13 12 13	Exterior Fountains
13 12 23	Interior Fountains
13 13 00	Aquariums
13 14 00	Amusement Park Structures and Equipment
13 14 13	Water Slides
13 14 16	Wave Generating Equipment
13 14 23	Amusement Park Rides
13 17 00	Tubs and Pools
13 17 13	Hot Tubs
13 17 23	Therapeutic Pools
13 17 33	Whirlpool Tubs
13 18 00	Ice Rinks
13 18 13	Ice Rink Floor Systems
13 18 16	Ice Rink Dasher Boards
13 19 00	Kennels and Animal Shelters
13 19 13	Kennel Enclosures and Gates
13 19 16	Kennel Feeding Devices
13 20 00	Special Purpose Rooms
13 21 00	Controlled Environment Rooms
13 21 13	Clean Rooms
13 21 16	Hyperbaric Rooms
13 21 23	Insulated Rooms
13 21 26	Cold Storage Rooms
13 21 26.13	Walk-in Coolers
13 21 26.16	Walk-in Freezers
13 21 29	Constant Temperature Rooms
13 21 48	Sound-Conditioned Rooms
13 22 00	Office Shelters and Booths
13 23 00	Planetariums
13 24 00	Special Activity Rooms
13 24 16	Saunas
13 24 26	Steam Baths
13 24 66	Athletic Rooms
13 26 00	Fabricated Rooms
13 26 13	Storm Shelter Rooms
13 27 00	Vaults
13 27 16	Modular Fire Vaults
13 27 53	Security Vaults
13 27 53.13	Modular Concrete Security Vaults
13 27 53.16	Modular Metal-Clad Laminated Security Vaults
13 28 00	Athletic and Recreational Special Construction
13 28 13	Indoor Soccer Boards
13 28 16	Safety Netting
13 28 19	Arena Football Boards
13 28 26	Floor Sockets

13 28 33	Athletic and Recreational Court Walls
13 28 66	Demountable Athletic Surfaces
13 30 00	Special Structures
13 31 00	Fabric Structures
13 31 13	Air-Supported Fabric Structures
13 31 13.13	Single-Walled Air-Supported Structures
13 31 13.16	Multiple-Walled Air-Supported Structures
13 31 23	Tensioned Fabric Structures
13 31 33	Framed Fabric Structures
13 32 00	Space Frames
13 32 13	Metal Space Frames
13 32 23	Wood Space Frames
13 33 00	Geodesic Structures
13 33 13	Geodesic Domes
13 34 00	Fabricated Engineered Structures
13 34 13	Glazed Structures
13 34 13.13	Greenhouses
13 34 13.16	Solariums
13 34 13.19	Swimming Pool Enclosures
13 34 13.23	Sunrooms
13 34 13.26	Conservatories
13 34 16	Grandstands and Bleachers
13 34 16.13	Grandstands
13 34 16.53	Bleachers
13 34 18	Post Frame Building Systems
13 34 19	Metal Building Systems
13 34 23	Fabricated Structures
13 34 23.13	Portable and Mobile Buildings
13 34 23.14	Fabricated Classroom Buildings
13 34 23.16	Fabricated Control Booths
13 34 23.19	Fabricated Dome Structures
13 34 23.23	Fabricated Substation Control Rooms
13 34 56	Observatories
13 35 00	Rammed Earth Construction
13 35 13	Rammed Earth Walls
13 35 13.13	Traditional Rammed Earth Walls
13 35 13.23	Stabilized Insulated Rammed Earth Walls
13 36 00	Towers
13 36 13	Metal Towers
13 36 13.13	Steel Towers
13 36 23	Wood Towers
13 40 00	Integrated Construction
13 42 00	Building Modules
13 42 13	Bathroom Unit Modules
13 42 25	Hospitality Unit Modules
13 42 33	Apartment Unit Modules
13 42 43	Dormitory Unit Modules
13 42 63	Detention Cell Modules
13 42 63.13	Precast-Concrete Detention Cell Modules

13 42 63.16	Steel Detention Cell Modules
13 44 00	Modular Mezzanines
13 48 00	Sound, Vibration, and Seismic Control
13 48 13	Manufactured Sound and Vibration Control Components
13 48 23	Fabricated Sound and Vibration Control Assemblies
13 48 53	Manufactured Seismic Control Components
13 48 63	Fabricated Seismic Control Assemblies
13 49 00	Radiation Protection
13 49 13	Integrated X-Ray Shielding Assemblies
13 49 16	Modular X-Ray Shielding Rooms
13 49 23	Integrated RFI/EMI Shielding Assemblies
13 49 26	Modular RFI/EMI Shielding Rooms
13 50 00	Special Instrumentation
13 51 00	Stress Instrumentation
13 52 00	Seismic Instrumentation
13 53 00	Meteorological Instrumentation
13 53 13	Solar Instrumentation
13 53 23	Wind Instrumentation

14 00 00	Conveying Equipment
14 01 00	Operation and Maintenance of Conveying Equipment
14 01 10	Operation and Maintenance of Dumbwaiters
14 01 10.71	Dumbwaiter Rehabilitation
14 01 20	Operation and Maintenance of Elevators
14 01 20.71	Elevator Rehabilitation
14 01 30	Operation and Maintenance of Escalators and Moving Walks
14 01 30.71	Escalators and Moving Walks Rehabilitation
14 01 40	Operation and Maintenance of Lifts
14 01 40.71	Lift Rehabilitation
14 01 70	Operation and Maintenance of Turntables
14 01 80	Operation and Maintenance of Scaffolding
14 01 90	Operation and Maintenance of Other Conveying Equipment
14 05 00	Common Work Results for Conveying Equipment
14 06 00	Schedules for Conveying Equipment
14 06 10	Schedules for Dumbwaiters
14 06 20	Schedules for Elevators
14 06 20.13	Elevator Equipment Schedule
14 06 30	Schedules for Escalators and Moving Walks
14 06 40	Schedules for Lifts
14 06 40.13	Lift Schedule
14 06 70	Schedules for Turntables
14 06 80	Schedules for Scaffolding
14 06 90	Schedules for Other Conveying Equipment
14 08 00	Commissioning of Conveying Equipment
14 08 10	Commissioning of Dumbwaiters
14 08 20	Commissioning of Elevators
14 08 30	Commissioning of Escalators and Moving Walks
14 08 40	Commissioning of Lifts
14 08 70	Commissioning of Turntables
14 08 80	Commissioning of Scaffolding
14 10 00	Dumbwaiters
14 11 00	Manual Dumbwaiters
14 12 00	Electric Dumbwaiters
14 14 00	Hydraulic Dumbwaiters
14 20 00	Elevators
14 21 00	Electric Traction Elevators
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
14 21 43	Electric Traction Service Elevators
14 24 00	Hydraulic Elevators
14 24 13	Hydraulic Freight Elevators
14 24 23	Hydraulic Passenger Elevators
14 24 33	Hydraulic Residential Elevators

14 24 43	Hydraulic Service Elevators
14 26 00	Limited-Use/Limited-Application Elevators
14 27 00	Custom Elevator Cabs and Doors
14 27 13	Custom Elevator Cab Finishes
14 27 16	Custom Elevator Doors
14 28 00	Elevator Equipment and Controls
14 28 16	Elevator Controls
14 28 19	Elevator Equipment
14 28 19.13	Elevator Safety Equipment
14 28 19.16	Elevator Hoistway Equipment
14 30 00	Escalators and Moving Walks
14 31 00	Escalators
14 32 00	Moving Walks
14 33 00	Moving Ramps
14 33 13	Motorized Ramps
14 33 16	Powered Ramps
14 40 00	Lifts
14 41 00	People Lifts
14 41 13	Counterbalanced People Lifts
14 41 16	Endless-Belt People Lifts
14 42 00	Wheelchair Lifts
14 42 13	Inclined Wheelchair Lifts
14 42 16	Vertical Wheelchair Lifts
14 43 00	Platform Lifts
14 43 13	Orchestra Lifts
14 43 16	Stage Lifts
14 44 00	Sidewalk Lifts
14 45 00	Vehicle Lifts
14 70 00	Turntables
14 71 00	Industrial Turntables
14 71 11	Vehicle Turntables
14 72 00	Hospitality Turntables
14 72 25	Restaurant Turntables
14 73 00	Exhibit Turntables
14 73 59	Display Turntables
14 74 00	Entertainment Turntables
14 74 61	Stage Turntables
14 80 00	Scaffolding
14 81 00	Suspended Scaffolding
14 81 13	Beam Scaffolding
14 81 16	Carriage Scaffolding
14 81 19	Hook Scaffolding
14 82 00	Rope Climbers
14 82 13	Manual Rope Climbers

14 82 16	Powered Rope Climbers
14 83 00	Elevating Platforms
14 83 13	Telescoping Platform Lifts
14 83 13.13	Electric and Battery Telescoping Platform Lifts
14 83 13.16	Pneumatic Telescoping Platform Lifts
14 83 16	Scissor Lift Platforms
14 83 19	Multi-Axis Platform Lifts
14 84 00	Powered Scaffolding
14 84 13	Window Washing Scaffolding
14 84 23	Window Washing Hoists
14 90 00	Other Conveying Equipment
14 91 00	Facility Chutes
14 91 13	Coal Chutes
14 91 23	Escape Chutes
14 91 33	Laundry and Linen Chutes
14 91 82	Trash Chutes
14 92 00	Pneumatic Tube Systems

21 00 00	Fire Suppression
21 01 00	Operation and Maintenance of Fire Suppression
21 01 10	Operation and Maintenance of Water-Based Fire-Suppression Systems
21 01 20	Operation and Maintenance of Fire-Extinguishing Systems
21 01 30	Operation and Maintenance of Fire-Suppression Equipment
21 05 00	Common Work Results for Fire Suppression
21 05 13	Common Motor Requirements for Fire-Suppression Equipment
21 05 16	Expansion Fittings and Loops for Fire-Suppression Piping
21 05 19	Meters and Gages for Fire-Suppression Systems
21 05 23	General-Duty Valves for Water-Based Fire-Suppression Piping
21 05 29	Hangers and Supports for Fire-Suppression Piping and Equipment
21 05 33	Heat Tracing for Fire-Suppression Piping
21 05 48	Vibration and Seismic Controls for Fire-Suppression Piping and Equipment
21 05 53	Identification for Fire-Suppression Piping and Equipment
21 06 00	Schedules for Fire Suppression
21 06 10	Schedules for Water-Based Fire-Suppression Systems
21 06 20	Schedules for Fire-Extinguishing Systems
21 06 30	Schedules for Fire-Suppression Equipment
21 07 00	Fire Suppression Systems Insulation
21 07 16	Fire-Suppression Equipment Insulation
21 07 19	Fire-Suppression Piping Insulation
21 08 00	Commissioning of Fire Suppression
21 09 00	Instrumentation and Control for Fire-Suppression Systems
21 10 00	Water-Based Fire-Suppression Systems
21 11 00	Facility Fire-Suppression Water-Service Piping
21 11 16	Facility Fire Hydrants
21 11 19	Fire-Department Connections
21 12 00	Fire-Suppression Standpipes
21 12 13	Fire-Suppression Hoses and Nozzles
21 12 16	Fire-Suppression Hose Reels
21 12 19	Fire-Suppression Hose Racks
21 12 23	Fire-Suppression Hose Valves
21 13 00	Fire-Suppression Sprinkler Systems
21 13 13	Wet-Pipe Sprinkler Systems
21 13 16	Dry-Pipe Sprinkler Systems
21 13 19	Preaction Sprinkler Systems
21 13 23	Combined Dry-Pipe and Preaction Sprinkler Systems
21 13 26	Deluge Fire-Suppression Sprinkler Systems
21 13 29	Water Spray Fixed Systems
21 13 36	Antifreeze Sprinkler Systems
21 13 39	Foam-Water Systems
21 16 00	Fire-Suppression Pressure Maintenance Pumps
21 20 00	Fire-Extinguishing Systems

21 21 00	Carbon-Dioxide Fire-Extinguishing Systems
21 21 13	Carbon-Dioxide Fire-Extinguishing Piping
21 21 16	Carbon-Dioxide Fire-Extinguishing Equipment
21 22 00	Clean-Agent Fire-Extinguishing Systems
21 22 13	Clean-Agent Fire-Extinguishing Piping
21 22 16	Clean-Agent Fire-Extinguishing Equipment
21 23 00	Wet-Chemical Fire-Extinguishing Systems
21 23 13	Wet-Chemical Fire-Extinguishing Piping
21 23 16	Wet-Chemical Fire-Extinguishing Equipment
21 24 00	Dry-Chemical Fire-Extinguishing Systems
21 24 13	Dry-Chemical Fire-Extinguishing Piping
21 24 16	Dry-Chemical Fire-Extinguishing Equipment
21 30 00	Fire Pumps
21 31 00	Centrifugal Fire Pumps
21 31 13	Electric-Drive, Centrifugal Fire Pumps
21 31 16	Diesel-Drive, Centrifugal Fire Pumps
21 32 00	Vertical-Turbine Fire Pumps
21 32 13	Electric-Drive, Vertical-Turbine Fire Pumps
21 32 16	Diesel-Drive, Vertical-Turbine Fire Pumps
21 33 00	Positive-Displacement Fire Pumps
21 33 13	Electric-Drive, Positive-Displacement Fire Pumps
21 33 16	Diesel-Drive, Positive-Displacement Fire Pumps
21 40 00	Fire-Suppression Water Storage
21 41 00	Storage Tanks for Fire-Suppression Water
21 41 13	Pressurized Storage Tanks for Fire-Suppression Water
21 41 16	Elevated Storage Tanks for Fire-Suppression Water
21 41 19	Roof-Mounted Storage Tanks for Fire-Suppression Water
21 41 23	Ground Suction Storage Tanks for Fire-Suppression Water
21 41 26	Underground Storage Tanks for Fire-Suppression Water
21 41 29	Storage Tanks for Fire-Suppression Water Additives

22 00 00	Plumbing
22 01 00	Operation and Maintenance of Plumbing
22 01 10	Operation and Maintenance of Plumbing Piping and Pumps
22 01 30	Operation and Maintenance of Plumbing Equipment
22 01 40	Operation and Maintenance of Plumbing Fixtures
22 01 50	Operation and Maintenance of Pool and Fountain Plumbing Systems
22 01 60	Operation and Maintenance of Laboratory and Healthcare Systems
22 05 00	Common Work Results for Plumbing
22 05 13	Common Motor Requirements for Plumbing Equipment
22 05 16	Expansion Fittings and Loops for Plumbing Piping
22 05 19	Meters and Gages for Plumbing Piping
22 05 23	General-Duty Valves for Plumbing Piping
22 05 29	Hangers and Supports for Plumbing Piping and Equipment
22 05 33	Heat Tracing for Plumbing Piping
22 05 48	Vibration and Seismic Controls for Plumbing Piping and Equipment
22 05 53	Identification for Plumbing Piping and Equipment
22 05 73	Facility Drainage Manholes
22 05 76	Facility Drainage Piping Cleanouts
22 06 00	Schedules for Plumbing
22 06 10	Schedules for Plumbing Piping and Pumps
22 06 10.13	Plumbing Pump Schedule
22 06 12	Schedules for Facility Potable Water Storage
22 06 15	Schedules for General Service Compressed-Air Equipment
22 06 30	Schedules for Plumbing Equipment
22 06 30.13	Domestic Water Heater Schedule
22 06 40	Schedules for Plumbing Fixtures
22 06 40.13	Plumbing Fixture Schedule
22 06 50	Schedules for Pool and Fountain Plumbing Systems
22 06 60	Schedules for Laboratory and Healthcare Systems
22 07 00	Plumbing Insulation
22 07 16	Plumbing Equipment Insulation
22 07 19	Plumbing Piping Insulation
22 08 00	Commissioning of Plumbing
22 09 00	Instrumentation and Control for Plumbing
22 10 00	Plumbing Piping
22 11 00	Facility Water Distribution
22 11 13	Facility Water Distribution Piping
22 11 16	Domestic Water Piping
22 11 19	Domestic Water Piping Specialties
22 11 23	Domestic Water Pumps
22 11 23.13	Domestic-Water Packaged Booster Pumps
22 11 23.23	Close-Coupled, In-Line, Sealless Centrifugal Domestic-Water Pumps
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 12 00 Facility Potable-Water Storage Tanks**
 - 22 12 13 Facility Roof-Mounted, Potable-Water Storage Tanks
 - 22 12 16 Facility Elevated, Potable-Water Storage Tanks
 - 22 12 19 Facility Ground-Mounted, Potable-Water Storage Tanks
 - 22 12 23 Facility Indoor Potable-Water Storage Tanks
 - 22 12 23.13 Facility Steel, Indoor Potable-Water Storage Pressure Tanks
 - 22 12 23.16 Facility Steel, Indoor Potable-Water Storage Non-Pressure Tanks
 - 22 12 23.23 Facility Plastic, Indoor Potable-Water Storage Pressure Tanks
 - 22 12 23.26 Facility Plastic, Indoor Potable-Water Storage Non-Pressure Tanks
- 22 13 00 Facility Sanitary Sewerage**
 - 22 13 13 Facility Sanitary Sewers
 - 22 13 16 Sanitary Waste and Vent Piping
 - 22 13 19 Sanitary Waste Piping Specialties
 - 22 13 19.13 Sanitary Drains
 - 22 13 19.23 Fats, Oils, and Grease Disposal Systems
 - 22 13 19.26 Grease Removal Devices
 - 22 13 19.33 Backwater Valves
 - 22 13 19.36 Air-Admittance Valves
 - 22 13 23 Sanitary Waste Interceptors
 - 22 13 26 Sanitary Waste Separators
 - 22 13 29 Sanitary Sewerage Pumps
 - 22 13 29.13 Wet-Pit-Mounted, Vertical Sewerage Pumps
 - 22 13 29.16 Submersible Sewerage Pumps
 - 22 13 29.23 Sewerage Pump Reverse-Flow Assemblies
 - 22 13 29.33 Sewerage Pump Basins and Pits
 - 22 13 33 Packaged, Submersible Sewerage Pump Units
 - 22 13 36 Packaged, Wastewater Pump Units
 - 22 13 43 Facility Packaged Sewage Pumping Stations
 - 22 13 43.13 Facility Dry-Well Packaged Sewage Pumping Stations
 - 22 13 43.16 Facility Wet-Well Packaged Sewage Pumping Stations
 - 22 13 53 Facility Septic Tanks
 - 22 13 63 Facility Gray Water Tanks
- 22 14 00 Facility Storm Drainage**
 - 22 14 13 Facility Storm Drainage Piping
 - 22 14 16 Rainwater Leaders
 - 22 14 19 Sump Pump Discharge Piping
 - 22 14 23 Storm Drainage Piping Specialties
 - 22 14 26 Facility Storm Drains
 - 22 14 26.13 Roof Drains
 - 22 14 26.16 Facility Area Drains
 - 22 14 26.19 Facility Trench Drains
 - 22 14 29 Sump Pumps
 - 22 14 29.13 Wet-Pit-Mounted, Vertical Sump Pumps
 - 22 14 29.16 Submersible Sump Pumps
 - 22 14 29.19 Sump-Pump Basins and Pits
 - 22 14 33 Packaged, Pedestal Drainage Pump Units
 - 22 14 36 Packaged, Submersible, Drainage Pump Units
 - 22 14 53 Rainwater Storage Tanks
- 22 15 00 General Service Compressed-Air Systems**
 - 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 15 19.13 General Service Packaged Reciprocating Air Compressors
- 22 15 19.16 General Service Packaged Liquid-Ring Air Compressors
- 22 15 19.19 General Service Packaged Rotary-Screw Air Compressors
- 22 15 19.23 General Service Packaged Sliding-Vane Air Compressors

22 30 00 Plumbing Equipment

22 31 00 Domestic Water Softeners

- 22 31 13 Residential Domestic Water Softeners
- 22 31 16 Commercial Domestic Water Softeners

22 32 00 Domestic Water Filtration Equipment

- 22 32 13 Domestic-Water Bag-Type Filters
- 22 32 16 Domestic-Water Freestanding Cartridge Filters
- 22 32 19 Domestic-Water Off-Floor Cartridge Filters
- 22 32 23 Domestic-Water Carbon Filters
- 22 32 26 Domestic-Water Sand Filters
- 22 32 26.13 Domestic-Water Circulating Sand Filters
- 22 32 26.16 Domestic-Water Multimedia Sand Filters
- 22 32 26.19 Domestic-Water Greensand Filters

22 33 00 Electric Domestic Water Heaters

- 22 33 13 Instantaneous Electric Domestic Water Heaters
- 22 33 13.13 Flow-Control, Instantaneous Electric Domestic Water Heaters
- 22 33 13.16 Thermostat-Control, Instantaneous Electric Domestic Water Heaters
- 22 33 30 Residential, Electric Domestic Water Heaters
- 22 33 30.13 Residential, Small-Capacity Electric Domestic Water Heaters
- 22 33 30.16 Residential, Storage Electric Domestic Water Heaters
- 22 33 30.23 Residential, Collector-to-Tank, Solar-Electric Domestic Water Heaters
- 22 33 30.26 Residential, Collector-to-Tank, Heat-Exchanger-Coil, Solar-Electric Domestic Water Heaters
- 22 33 33 Light-Commercial Electric Domestic Water Heaters
- 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

22 34 00 Fuel-Fired Domestic Water Heaters

- 22 34 13 Instantaneous, Tankless, Gas Domestic Water Heaters
- 22 34 30 Residential Gas Domestic Water Heaters
- 22 34 30.13 Residential, Atmospheric, Gas Domestic Water Heaters
- 22 34 30.16 Residential, Direct-Vent, Gas Domestic Water Heaters
- 22 34 30.19 Residential, Power-Vent, Gas Domestic Water Heaters
- 22 34 36 Commercial Gas Domestic Water Heaters
- 22 34 36.13 Commercial, Atmospheric, Gas Domestic Water Heaters
- 22 34 36.16 Commercial, Power-Burner, Gas Domestic Water Heaters
- 22 34 36.19 Commercial, Power-Vent, Gas Domestic Water Heaters
- 22 34 36.23 Commercial, High-Efficiency, Gas Domestic Water Heaters
- 22 34 36.26 Commercial, Coil-Type, Finned-Tube, Gas Domestic Water Heaters
- 22 34 36.29 Commercial, Grid-Type, Finned-Tube, Gas Domestic Water Heaters
- 22 34 46 Oil-Fired Domestic Water Heaters
- 22 34 46.13 Large-Capacity, Oil-Fired Domestic Water Heaters
- 22 34 56 Dual-Fuel-Fired Domestic Water Heaters

22 35 00 Domestic Water Heat Exchangers

- 22 35 13 Instantaneous Domestic Water Heat Exchangers
- 22 35 13.13 Heating-Fluid-in-Coil, Instantaneous Domestic Water Heat Exchangers
- 22 35 13.16 Domestic-Water-in-Coil, Instantaneous Domestic Water Heat Exchangers

- 22 35 13.19 Heating-Fluid-in-U-Tube-Coil, Instantaneous Domestic Water Heat Exchangers
- 22 35 23 Circulating, Domestic Water Heat Exchangers
- 22 35 23.13 Circulating, Compact Domestic Water Heat Exchangers
- 22 35 23.16 Circulating, Storage Domestic Water Heat Exchangers
- 22 35 29 Noncirculating, Domestic Water Heat Exchangers
- 22 35 29.13 Noncirculating, Compact Domestic Water Heat Exchangers
- 22 35 29.16 Noncirculating, Storage Domestic Water Heat Exchangers
- 22 35 36 Domestic Water Brazed-Plate Heat Exchangers
- 22 35 39 Domestic Water Frame-and-Plate Heat Exchangers
- 22 35 43 Domestic Water Heat Reclaimers

22 40 00 Plumbing Fixtures

22 41 00 Residential Plumbing Fixtures

- 22 41 13 Residential Water Closets, Urinals, and Bidets
- 22 41 13.13 Residential Water Closets
- 22 41 13.16 Residential Urinals
- 22 41 13.19 Residential Bidets
- 22 41 16 Residential Lavatories and Sinks
- 22 41 16.13 Residential Lavatories
- 22 41 16.16 Residential Sinks
- 22 41 19 Residential Bathtubs
- 22 41 23 Residential Showers
- 22 41 26 Residential Disposers
- 22 41 36 Residential Laundry Trays
- 22 41 39 Residential Faucets, Supplies, and Trim

22 42 00 Commercial Plumbing Fixtures

- 22 42 13 Commercial Water Closets, Urinals, and Bidets
- 22 42 13.13 Commercial Water Closets
- 22 42 13.16 Commercial Urinals
- 22 42 16 Commercial Lavatories and Sinks
- 22 42 16.13 Commercial Lavatories
- 22 42 16.16 Commercial Sinks
- 22 42 19 Commercial Bathtubs
- 22 42 23 Commercial Showers
- 22 42 26 Commercial Disposers
- 22 42 29 Shampoo Bowls
- 22 42 33 Wash Fountains
- 22 42 36 Commercial Laundry Trays
- 22 42 39 Commercial Faucets, Supplies, and Trim
- 22 42 43 Flushometers

22 43 00 Healthcare Plumbing Fixtures

- 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

22 45 00 Emergency Plumbing Fixtures

- 22 45 13 Emergency Showers
- 22 45 16 Eyewash Equipment
- 22 45 19 Self-Contained Eyewash Equipment

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

22 62 13.70	Healthcare, Surgical Vacuum Piping
22 62 13.74	Dental Vacuum Piping
22 62 19	Vacuum Equipment for Laboratory and Healthcare Facilities
22 62 19.53	Laboratory Vacuum Equipment
22 62 19.70	Healthcare Vacuum Equipment
22 62 19.74	Dental Vacuum and Evacuation Equipment
22 62 23	Waste Anesthesia-Gas Piping
22 63 00	Gas Systems for Laboratory and Healthcare Facilities
22 63 13	Gas Piping for Laboratory and Healthcare Facilities
22 63 13.53	Laboratory Gas Piping
22 63 13.70	Healthcare Gas Piping
22 63 19	Gas Storage Tanks for Laboratory and Healthcare Facilities
22 63 19.53	Laboratory Gas Storage Tanks
22 63 19.70	Healthcare Gas Storage Tanks
22 66 00	Chemical-Waste Systems for Laboratory and Healthcare Facilities
22 66 53	Laboratory Chemical-Waste and Vent Piping
22 66 70	Healthcare Chemical-Waste and Vent Piping
22 66 83	Chemical-Waste Tanks
22 66 83.13	Chemical-Waste Dilution Tanks
22 66 83.16	Chemical-Waste Neutralization Tanks
22 67 00	Processed Water Systems for Laboratory and Healthcare Facilities
22 67 13	Processed Water Piping for Laboratory and Healthcare Facilities
22 67 13.13	Distilled-Water Piping
22 67 13.16	Reverse-Osmosis Water Piping
22 67 13.19	Deionized-Water 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 00 00 Heating, Ventilating, and Air Conditioning (HVAC)

23 01 00 Operation and Maintenance of HVAC Systems

- 23 01 10 Operation and Maintenance of Facility Fuel Systems
- 23 01 20 Operation and Maintenance of HVAC Piping and Pumps
- 23 01 30 Operation and Maintenance of HVAC Air Distribution
- 23 01 30.51 HVAC Air-Distribution System Cleaning
- 23 01 50 Operation and Maintenance of Central Heating Equipment
- 23 01 60 Operation and Maintenance of Central Cooling Equipment
- 23 01 60.71 Refrigerant Recovery/Recycling
- 23 01 70 Operation and Maintenance of Central HVAC Equipment
- 23 01 80 Operation and Maintenance of Decentralized HVAC Equipment
- 23 01 90 Diagnostic Systems for HVAC

23 05 00 Common Work Results for HVAC

- 23 05 13 Common Motor Requirements for HVAC Equipment
- 23 05 16 Expansion Fittings and Loops for HVAC Piping
- 23 05 19 Meters and Gages for HVAC Piping
- 23 05 23 General-Duty Valves for HVAC Piping
- 23 05 29 Hangers and Supports for HVAC Piping and Equipment
- 23 05 33 Heat Tracing for HVAC Piping
- 23 05 48 Vibration and Seismic Controls for HVAC
- 23 05 53 Identification for HVAC Piping and Equipment
- 23 05 63 Anti-Microbial Coatings for HVAC Ducts and Equipment
- 23 05 66 Anti-Microbial Ultraviolet Emitters for HVAC Ducts and Equipment
- 23 05 93 Testing, Adjusting, and Balancing for HVAC

23 06 00 Schedules for HVAC

- 23 06 10 Schedules for Facility Fuel Service Systems
- 23 06 20 Schedules for HVAC Piping and Pumps
- 23 06 20.13 Hydronic Pump Schedule
- 23 06 30 Schedules for HVAC Air Distribution
- 23 06 30.13 HVAC Fan Schedule
- 23 06 30.16 Air Terminal Unit Schedule
- 23 06 30.19 Air Outlet and Inlet Schedule
- 23 06 30.23 HVAC Air Cleaning Device Schedule
- 23 06 50 Schedules for Central Heating Equipment
- 23 06 50.13 Heating Boiler Schedule
- 23 06 60 Schedules for Central Cooling Equipment
- 23 06 60.13 Refrigerant Condenser Schedule
- 23 06 60.16 Packaged Water Chiller Schedule
- 23 06 70 Schedules for Central HVAC Equipment
- 23 06 70.13 Indoor, Central-Station Air-Handling Unit Schedule
- 23 06 70.16 Packaged Outdoor HVAC Equipment Schedule
- 23 06 80 Schedules for Decentralized HVAC Equipment
- 23 06 80.13 Decentralized Unitary HVAC Equipment Schedule
- 23 06 80.16 Convection Heating and Cooling Unit Schedule
- 23 06 80.19 Radiant Heating Unit Schedule

23 07 00 HVAC Insulation

- 23 07 13 Duct Insulation
- 23 07 16 HVAC Equipment Insulation

23 07 19	HVAC Piping Insulation
23 08 00	Commissioning of HVAC
23 09 00	Instrumentation and Control for HVAC
23 09 13	Instrumentation and Control Devices for HVAC
23 09 13.13	Actuators and Operators
23 09 13.23	Sensors and Transmitters
23 09 13.33	Control Valves
23 09 13.43	Control Dampers
23 09 23	Direct-Digital Control System for HVAC
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 10 00	Facility Fuel Systems
23 11 00	Facility Fuel Piping
23 11 13	Facility Fuel-Oil Piping
23 11 16	Facility Gasoline Piping
23 11 23	Facility Natural-Gas Piping
23 11 26	Facility Liquefied-Petroleum Gas Piping
23 12 00	Facility Fuel Pumps
23 12 13	Facility Fuel-Oil Pumps
23 12 16	Facility Gasoline Dispensing Pumps
23 13 00	Facility Fuel-Storage Tanks
23 13 13	Facility Underground Fuel-Oil, Storage Tanks
23 13 13.13	Double-Wall Steel, Underground Fuel-Oil, Storage Tanks
23 13 13.16	Composite, Steel, Underground Fuel-Oil, Storage Tanks
23 13 13.19	Jacketed, Steel, Underground Fuel-Oil, Storage Tanks
23 13 13.23	Glass-Fiber-Reinforced-Plastic, Underground Fuel-Oil, Storage Tanks
23 13 13.33	Fuel-Oil Storage Tank Pumps
23 13 23	Facility Aboveground Fuel-Oil, Storage Tanks
23 13 23.13	Vertical, Steel, Aboveground Fuel-Oil, Storage Tanks
23 13 23.16	Horizontal, Steel, Aboveground Fuel-Oil, Storage Tanks
23 13 23.19	Containment-Dike, Steel, Aboveground Fuel-Oil, Storage Tanks
23 13 23.23	Insulated, Steel, Aboveground Fuel-Oil, Storage Tanks
23 13 23.26	Concrete-Vaulted, Steel, Aboveground Fuel-Oil, Storage Tanks
23 20 00	HVAC Piping and Pumps
23 21 00	Hydronic Piping and Pumps
23 21 13	Hydronic Piping
23 21 13.13	Underground Hydronic Piping
23 21 13.23	Aboveground Hydronic Piping
23 21 13.33	Ground-Loop Heat-Pump Piping
23 21 16	Hydronic Piping Specialties
23 21 23	Hydronic Pumps
23 21 23.13	In-Line Centrifugal Hydronic Pumps
23 21 23.16	Base-Mounted, Centrifugal Hydronic Pumps
23 21 23.19	Vertical-Mounted, Double-Suction Centrifugal Hydronic Pumps
23 21 23.23	Vertical-Turbine Hydronic Pumps
23 21 29	Automatic Condensate Pump Units
23 22 00	Steam and Condensate Piping and Pumps

23 22 13	Steam and Condensate Heating Piping
23 22 13.13	Underground Steam and Condensate Heating Piping
23 22 13.23	Aboveground Steam and Condensate Heating Piping
23 22 16	Steam and Condensate Heating Piping Specialties
23 22 23	Steam Condensate Pumps
23 22 23.13	Electric-Driven Steam Condensate Pumps
23 22 23.23	Pressure-Powered Steam Condensate Pumps
23 23 00	Refrigerant Piping
23 23 13	Refrigerant Piping Valves
23 23 16	Refrigerant Piping Specialties
23 23 19	Refrigerant Safety Relief Valve Discharge Piping
23 23 23	Refrigerants
23 24 00	Internal-Combustion Engine Piping
23 24 13	Internal-Combustion Engine Remote-Radiator Coolant Piping
23 24 16	Internal-Combustion Engine Exhaust Piping
23 25 00	HVAC Water Treatment
23 25 13	Water Treatment for Closed-Loop Hydronic Systems
23 25 16	Water Treatment for Open Hydronic Systems
23 25 19	Water Treatment for Steam System Feedwater
23 25 23	Water Treatment for Humidification Steam System Feedwater
23 30 00	HVAC Air Distribution
23 31 00	HVAC Ducts and Casings
23 31 13	Metal Ducts
23 31 13.13	Rectangular Metal Ducts
23 31 13.16	Round and Flat-Oval Spiral Ducts
23 31 13.19	Metal Duct Fittings
23 31 16	Nonmetal Ducts
23 31 16.13	Fibrous-Glass Ducts
23 31 16.16	Thermoset Fiberglass-Reinforced Plastic Ducts
23 31 16.19	PVC Ducts
23 31 16.26	Concrete Ducts
23 31 19	HVAC Casings
23 32 00	Air Plenums and Chases
23 32 13	Fabricated, Metal Air Plenums
23 32 33	Air-Distribution Ceiling Plenums
23 32 36	Air-Distribution Floor Plenums
23 32 39	Air-Distribution Wall Plenums
23 32 43	Air-Distribution Chases Formed by General Construction
23 32 48	Acoustical Air Plenums
23 33 00	Air Duct Accessories
23 33 13	Dampers
23 33 13.13	Volume-Control Dampers
23 33 13.16	Fire Dampers
23 33 13.19	Smoke-Control Dampers
23 33 13.23	Backdraft Dampers
23 33 19	Duct Silencers
23 33 23	Turning Vanes
23 33 33	Duct-Mounting Access Doors
23 33 43	Flexible Connectors
23 33 46	Flexible Ducts

23 33 53	Duct Liners
23 34 00	HVAC Fans
23 34 13	Axial HVAC Fans
23 34 16	Centrifugal HVAC Fans
23 34 23	HVAC Power Ventilators
23 34 33	Air Curtains
23 35 00	Special Exhaust Systems
23 35 13	Dust Collection Systems
23 35 13.13	Sawdust Collection Systems
23 35 16	Engine Exhaust Systems
23 35 16.13	Positive-Pressure Engine Exhaust Systems
23 35 16.16	Mechanical Engine Exhaust Systems
23 36 00	Air Terminal Units
23 36 13	Constant-Air-Volume Units
23 36 16	Variable-Air-Volume Units
23 37 00	Air Outlets and Inlets
23 37 13	Diffusers, Registers, and Grilles
23 37 16	Fabric Air Distribution Devices
23 37 23	HVAC Gravity Ventilators
23 37 23.13	HVAC Gravity Dome Ventilators
23 37 23.16	HVAC Gravity Louvered-Penthouse Ventilators
23 37 23.19	HVAC Gravity Upblast Ventilators
23 38 00	Ventilation Hoods
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
23 40 00	HVAC Air Cleaning Devices
23 41 00	Particulate Air Filtration
23 41 13	Panel Air Filters
23 41 16	Renewable-Media Air Filters
23 41 19	Washable Air Filters
23 41 23	Extended Surface Filters
23 41 33	High-Efficiency Particulate Filtration
23 41 43	Ultra-Low Penetration Filtration
23 41 46	Super Ultra-Low Penetration Filtration
23 42 00	Gas-Phase Air Filtration
23 42 13	Activated-Carbon Air Filtration
23 42 16	Chemically-Impregnated Adsorption Air Filtration
23 42 19	Catalytic-Adsorption Air Filtration
23 43 00	Electronic Air Cleaners
23 43 13	Washable Electronic Air Cleaners
23 43 16	Agglomerator Electronic Air Cleaners
23 43 23	Self-Contained Electronic Air Cleaners
23 50 00	Central Heating Equipment
23 51 00	Breechings, Chimneys, and Stacks
23 51 13	Draft Control Devices
23 51 13.13	Draft-Induction Fans

- 23 51 13.16 Vent Dampers
- 23 51 13.19 Barometric Dampers
- 23 51 16 Fabricated Breechings and Accessories
- 23 51 19 Fabricated Stacks
- 23 51 23 Gas Vents
- 23 51 33 Insulated Sectional Chimneys
- 23 51 43 Flue-Gas Filtration Equipment
- 23 51 43.13 Gaseous Filtration
- 23 51 43.16 Particulate Filtration
- 23 52 00 Heating Boilers**
- 23 52 13 Electric Boilers
- 23 52 16 Condensing Boilers
- 23 52 16.13 Stainless-Steel Condensing Boilers
- 23 52 16.16 Aluminum Condensing Boilers
- 23 52 17 Low Mass Boilers
- 23 52 19 Pulse Combustion Boilers
- 23 52 23 Cast-Iron Boilers
- 23 52 33 Water-Tube Boilers
- 23 52 33.13 Finned Water-Tube Boilers
- 23 52 33.16 Steel Water-Tube Boilers
- 23 52 33.19 Copper Water-Tube Boilers
- 23 52 39 Fire-Tube Boilers
- 23 52 39.13 Scotch Marine Boilers
- 23 52 39.16 Steel Fire-Tube Boilers
- 23 52 83 Boiler Blowdown Systems
- 23 53 00 Heating Boiler Feedwater Equipment**
- 23 53 13 Boiler Feedwater Pumps
- 23 53 16 Deaerators
- 23 54 00 Furnaces**
- 23 54 13 Electric-Resistance Furnaces
- 23 54 16 Fuel-Fired Furnaces
- 23 54 16.13 Gas-Fired Furnaces
- 23 54 16.16 Oil-Fired Furnaces
- 23 55 00 Fuel-Fired Heaters**
- 23 55 13 Fuel-Fired Duct Heaters
- 23 55 13.13 Oil-Fired Duct Heaters
- 23 55 13.16 Gas-Fired Duct Heaters
- 23 55 23 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
- 23 56 00 Solar Energy Heating Equipment**
- 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 56 16 Packaged Solar Heating Equipment
- 23 57 00 Heat Exchangers for HVAC**
- 23 57 13 Steam-to-Steam Heat Exchangers
- 23 57 16 Steam-to-Water Heat Exchangers
- 23 57 19 Liquid-to-Liquid Heat Exchangers

- 23 57 19.13 Plate-Type, Liquid-to-Liquid Heat Exchangers
- 23 57 19.16 Shell-Type, Liquid-to-Liquid Heat Exchangers
- 23 57 33 Direct Geoexchange Heat Exchangers

23 60 00 Central Cooling Equipment

23 61 00 Refrigerant Compressors

- 23 61 13 Centrifugal Refrigerant Compressors
- 23 61 13.13 Non-Condensable Gas Purge Equipment
- 23 61 16 Reciprocating Refrigerant Compressors
- 23 61 19 Scroll Refrigerant Compressors
- 23 61 23 Rotary-Screw Refrigerant Compressors

23 62 00 Packaged Compressor and Condenser Units

- 23 62 13 Packaged Air-Cooled Refrigerant Compressor and Condenser Units
- 23 62 23 Packaged Water-Cooled Refrigerant Compressor and Condenser Units

23 63 00 Refrigerant Condensers

- 23 63 13 Air-Cooled Refrigerant Condensers
- 23 63 23 Water-Cooled Refrigerant Condensers
- 23 63 33 Evaporative Refrigerant Condensers

23 64 00 Packaged Water Chillers

- 23 64 13 Absorption Water Chillers
- 23 64 13.13 Direct-Fired Absorption Water Chillers
- 23 64 13.16 Indirect-Fired Absorption Water Chillers
- 23 64 16 Centrifugal Water Chillers
- 23 64 16.13 Air-Cooled Centrifugal Water Chillers
- 23 64 16.16 Water-Cooled Centrifugal Water Chillers
- 23 64 19 Reciprocating Water Chillers
- 23 64 23 Scroll Water Chillers
- 23 64 26 Rotary-Screw Water Chillers

23 65 00 Cooling Towers

- 23 65 13 Forced-Draft Cooling Towers
- 23 65 13.13 Open-Circuit, Forced-Draft Cooling Towers
- 23 65 13.16 Closed-Circuit, Forced-Draft Cooling Towers
- 23 65 16 Natural-Draft Cooling Towers
- 23 65 23 Field-Erected Cooling Towers
- 23 65 33 Liquid Coolers

23 70 00 Central HVAC Equipment

23 71 00 Thermal Storage

- 23 71 13 Thermal Heat Storage
- 23 71 13.13 Room Storage Heaters for Thermal Storage
- 23 71 13.16 Heat-Pump Boosters for Thermal Storage
- 23 71 13.19 Central Furnace Heat-Storage Units
- 23 71 13.23 Pressurized-Water Thermal Storage Tanks
- 23 71 16 Chilled-Water Thermal Storage
- 23 71 19 Ice Storage
- 23 71 19.13 Internal Ice-on-Coil Thermal Storage
- 23 71 19.16 External Ice-on-Coil Thermal Storage
- 23 71 19.19 Encapsulated-Ice Thermal Storage
- 23 71 19.23 Ice-Harvesting Thermal Storage
- 23 71 19.26 Ice-Slurry Thermal Storage

23 72 00 Air-to-Air Energy Recovery Equipment

23 72 13	Heat-Wheel Air-to-Air Energy-Recovery Equipment
23 72 16	Heat-Pipe Air-to-Air Energy-Recovery Equipment
23 72 19	Fixed-Plate Air-to-Air Energy-Recovery Equipment
23 72 23	Packaged Air-to-Air Energy-Recovery Units
23 73 00	Indoor Central-Station Air-Handling Units
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
23 73 39	Indoor, Direct Gas-Fired Heating and Ventilating Units
23 74 00	Packaged Outdoor HVAC Equipment
23 74 13	Packaged, Outdoor, Central-Station Air-Handling Units
23 74 23	Packaged, Outdoor, Heating-Only Makeup-Air Units
23 74 23.13	Packaged, Direct-Fired, Outdoor, Heating-Only Makeup-Air Units
23 74 23.16	Packaged, Indirect-Fired, Outdoor, Heating-Only Makeup-Air Units
23 74 33	Dedicated Outdoor-Air Units
23 75 00	Custom-Packaged Outdoor HVAC Equipment
23 75 13	Custom-Packaged, Outdoor, Central-Station Air-Handling Units
23 75 23	Custom-Packaged, Outdoor, Heating and Ventilating Makeup-Air Units
23 75 33	Custom-Packaged, Outdoor, Heating and Cooling Makeup Air-Conditioners
23 76 00	Evaporative Air-Cooling Equipment
23 76 13	Direct Evaporative Air Coolers
23 76 16	Indirect Evaporative Air Coolers
23 76 19	Combined Direct and Indirect Evaporative Air Coolers
23 80 00	Decentralized HVAC Equipment
23 81 00	Decentralized Unitary HVAC Equipment
23 81 13	Packaged Terminal Air-Conditioners
23 81 16	Room Air-Conditioners
23 81 19	Self-Contained Air-Conditioners
23 81 19.13	Small-Capacity Self-Contained Air-Conditioners
23 81 19.16	Large-Capacity Self-Contained Air-Conditioners
23 81 23	Computer-Room Air-Conditioners
23 81 26	Split-System Air-Conditioners
23 81 26.13	Small-Capacity Split-System Air-Conditioners
23 81 26.16	Large-Capacity Split-System Air-Conditioners
23 81 43	Air-Source Unitary Heat Pumps
23 81 46	Water-Source Unitary Heat Pumps
23 82 00	Convection Heating and Cooling Units
23 82 13	Valance Heating and Cooling Units
23 82 14	Chilled Beams
23 82 16	Air Coils
23 82 19	Fan Coil Units
23 82 23	Unit Ventilators
23 82 26	Induction Units
23 82 29	Radiators
23 82 33	Convectors
23 82 36	Finned-Tube Radiation Heaters

- 23 82 39 Unit Heaters
- 23 82 39.13 Cabinet Unit Heaters
- 23 82 39.16 Propeller Unit Heaters
- 23 82 39.19 Wall and Ceiling Unit Heaters
- 23 82 41 Water-to-Water Heat Pumps

23 83 00 Radiant Heating Units

- 23 83 13 Radiant-Heating Electric Cables
- 23 83 13.16 Radiant-Heating Electric Mats
- 23 83 16 Radiant-Heating Hydronic Piping
- 23 83 23 Radiant-Heating Electric Panels
- 23 83 26 Gas-Fired Radiant Heaters
- 23 83 33 Electric Radiant Heaters

23 84 00 Humidity Control Equipment

- 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
- 23 84 13.33 Portable Humidifiers
- 23 84 16 Mechanical Dehumidification Units
- 23 84 16.13 Outdoor, Mechanical Dehumidification Units
- 23 84 16.16 Indoor, Mechanical Dehumidification Units
- 23 84 16.33 Portable Dehumidifiers
- 23 84 19 Desiccant Dehumidification Units

25 00 00	Integrated Automation
25 01 00	Operation and Maintenance of Integrated Automation
25 01 10	Operation and Maintenance of Integrated Automation Network Equipment
25 01 20	Operation and Maintenance of Integrated Equipment
25 01 30	Operation and Maintenance of Integrated Automation Instrumentation and Terminal Devices
25 01 90	Diagnostic Systems for Integrated Automation
25 05 00	Common Work Results for Integrated Automation
25 05 13	Conductors and Cables for Integrated Automation
25 05 26	Grounding and Bonding for Integrated Automation
25 05 28	Pathways for Integrated Automation
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 05 28.39	Surface Raceways for Integrated Automation
25 05 48	Vibration and Seismic Controls for Integrated Automation
25 05 53	Identification for Integrated Automation
25 06 00	Schedules for Integrated Automation
25 06 11	Schedules for Integrated Automation Network
25 06 12	Schedules for Integrated Automation Network Gateways
25 06 13	Schedules for Integrated Automation Control and Monitoring Network
25 06 14	Schedules for Integrated Automation Local Control Units
25 06 30	Schedules for Integrated Automation Instrumentation and Terminal Devices
25 08 00	Commissioning of Integrated Automation
25 10 00	Integrated Automation Network Equipment
25 11 00	Integrated Automation Network Devices
25 11 13	Integrated Automation Network Servers
25 11 16	Integrated Automation Network Routers, Bridges, Switches, Hubs, and Modems
25 11 19	Integrated Automation Network Operator Workstations
25 12 00	Integrated Automation Network Gateways
25 12 13	Hardwired Integration Network Gateways
25 12 16	Direct-Protocol Integration Network Gateways
25 12 19	Neutral-Protocol Integration Network Gateways
25 12 23	Client-Server Information/Database Integration Network Gateways
25 13 00	Integrated Automation Control and Monitoring Network
25 13 13	Integrated Automation Control and Monitoring Network Supervisory Control
25 13 16	Integrated Automation Control and Monitoring Network Integration Panels
25 13 19	Integrated Automation Control and Monitoring Network Interoperability
25 14 00	Integrated Automation Local Control Units
25 14 13	Integrated Automation Remote Control Panels
25 14 16	Integrated Automation Application-Specific Control Panels
25 14 19	Integrated Automation Terminal Control Units

25 14 23	Integrated Automation Field Equipment Panels
25 15 00	Integrated Automation Software
25 15 13	Integrated Automation Software for Network Gateways
25 15 16	Integrated Automation Software for Control and Monitoring Networks
25 15 19	Integrated Automation Software for Local Control Units
25 30 00	Integrated Automation Instrumentation and Terminal Devices
25 31 00	Integrated Automation Instrumentation and Terminal Devices for Facility Equipment
25 32 00	Integrated Automation Instrumentation and Terminal Devices for Conveying Equipment
25 33 00	Integrated Automation Instrumentation and Terminal Devices for Fire-Suppression Systems
25 34 00	Integrated Automation Instrumentation and Terminal Devices for Plumbing
25 35 00	Integrated Automation Instrumentation and Terminal Devices for HVAC
25 35 13	Integrated Automation Actuators and Operators
25 35 16	Integrated Automation Sensors and Transmitters
25 35 19	Integrated Automation Control Valves
25 35 23	Integrated Automation Control Dampers
25 35 26	Integrated Automation Compressed Air Supply
25 36 00	Integrated Automation Instrumentation and Terminal Devices for Electrical Systems
25 36 13	Integrated Automation Power Meters
25 36 16	Integrated Automation KW Transducers
25 36 19	Integrated Automation Current Sensors
25 36 23	Integrated Automation Battery Monitors
25 36 26	Integrated Automation Lighting Relays
25 36 29	Integrated Automation UPS Monitors
25 37 00	Integrated Automation Instrumentation and Terminal Devices for Communications Systems
25 38 00	Integrated Automation Instrumentation and Terminal Devices for Electronic Safety and Security Systems
25 50 00	Integrated Automation Facility Controls
25 51 00	Integrated Automation Control of Facility Equipment
25 52 00	Integrated Automation Control of Conveying Equipment
25 53 00	Integrated Automation Control of Fire-Suppression Systems
25 54 00	Integrated Automation Control of Plumbing
25 55 00	Integrated Automation Control of HVAC

25 56 00	Integrated Automation Control of Electrical Systems
25 57 00	Integrated Automation Control of Communications Systems
25 58 00	Integrated Automation Control of Electronic Safety and Security Systems
25 90 00	Integrated Automation Control Sequences
25 91 00	Integrated Automation Control Sequences for Facility Equipment
25 92 00	Integrated Automation Control Sequences for Conveying Equipment
25 93 00	Integrated Automation Control Sequences for Fire-Suppression Systems
25 94 00	Integrated Automation Control Sequences for Plumbing
25 95 00	Integrated Automation Control Sequences for HVAC
25 96 00	Integrated Automation Control Sequences for Electrical Systems
25 97 00	Integrated Automation Control Sequences for Communications Systems
25 98 00	Integrated Automation Control Sequences for Electronic Safety and Security Systems

26 00 00	Electrical
26 01 00	Operation and Maintenance of Electrical Systems
26 01 10	Operation and Maintenance of Medium-Voltage Electrical Distribution
26 01 20	Operation and Maintenance of Low-Voltage Electrical Distribution
26 01 26	Maintenance Testing of Electrical Systems
26 01 30	Operation and Maintenance of Facility Electrical Power Generating and Storing Equipment
26 01 40	Operation and Maintenance of Electrical and Cathodic Protection Systems
26 01 50	Operation and Maintenance of Lighting
26 01 50.51	Luminaire Relamping
26 01 50.81	Luminaire Replacement
26 05 00	Common Work Results for Electrical
26 05 13	Medium-Voltage Cables
26 05 13.13	Medium-Voltage Open Conductors
26 05 13.16	Medium-Voltage, Single- and Multi-Conductor Cables
26 05 19	Low-Voltage Electrical Power Conductors and Cables
26 05 19.13	Undercarpet Electrical Power Cables
26 05 19.23	Manufactured Wiring Assemblies
26 05 23	Control-Voltage Electrical Power Cables
26 05 26	Grounding and Bonding for Electrical Systems
26 05 29	Hangers and Supports for Electrical Systems
26 05 33	Raceway and Boxes for Electrical Systems
26 05 33.13	Conduit for Electrical Systems
26 05 33.16	Boxes for Electrical Systems
26 05 33.23	Surface raceways for Electrical Systems
26 05 36	Cable Trays for Electrical Systems
26 05 39	Underfloor Raceways for Electrical Systems
26 05 43	Underground Ducts and Raceways for Electrical Systems
26 05 46	Utility Poles for Electrical Systems
26 05 48	Vibration and Seismic Controls for Electrical Systems
26 05 53	Identification for Electrical Systems
26 05 73	Overcurrent Protective Device Coordination Study
26 05 83	Wiring Connections
26 06 00	Schedules for Electrical
26 06 10	Schedules for Medium-Voltage Electrical Distribution
26 06 20	Schedules for Low-Voltage Electrical Distribution
26 06 20.13	Electrical Switchboard Schedule
26 06 20.16	Electrical Panelboard Schedule
26 06 20.19	Electrical Motor-Control Center Schedule
26 06 20.23	Electrical Circuit Schedule
26 06 20.26	Wiring Device Schedule
26 06 30	Schedules for Facility Electrical Power Generating and Storing Equipment
26 06 40	Schedules for Electrical and Cathodic Protection Systems
26 06 50	Schedules for Lighting
26 06 50.13	Lighting Panelboard Schedule
26 06 50.16	Lighting Fixture Schedule
26 08 00	Commissioning of Electrical Systems
26 09 00	Instrumentation and Control for Electrical Systems
26 09 13	Electrical Power Monitoring

26 09 15	Peak Load Controllers
26 09 16	Electrical Controls and Relays
26 09 17	Programmable Controllers
26 09 19	Enclosed Contactors
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 09 43	Network Lighting Controls
26 09 43.13	Digital-Network Lighting Controls
26 09 43.16	Addressable Fixture Lighting Control
26 09 61	Theatrical Lighting Controls
26 10 00	Medium-Voltage Electrical Distribution
26 11 00	Substations
26 11 13	Primary Unit Substations
26 11 16	Secondary Unit Substations
26 12 00	Medium-Voltage Transformers
26 12 13	Liquid-Filled, Medium-Voltage Transformers
26 12 16	Dry-Type, Medium-Voltage Transformers
26 12 19	Pad-Mounted, Liquid-Filled, Medium-Voltage Transformers
26 13 00	Medium-Voltage Switchgear
26 13 13	Medium-Voltage Circuit Breaker Switchgear
26 13 16	Medium-Voltage Fusible Interrupter Switchgear
26 13 19	Medium-Voltage Vacuum Interrupter Switchgear
26 13 23	Medium-Voltage Metal-Enclosed Switchgear
26 13 26	Medium-Voltage Metal-Clad Switchgear
26 13 29	Medium-Voltage Compartmentalized Switchgear
26 16 00	Medium-Voltage Metering
26 18 00	Medium-Voltage Circuit Protection Devices
26 18 13	Medium-Voltage Cutouts
26 18 16	Medium-Voltage Fuses
26 18 19	Medium-Voltage Lightning Arresters
26 18 23	Medium-Voltage Surge Arresters
26 18 26	Medium-Voltage Reclosers
26 18 29	Medium-Voltage Enclosed Bus
26 18 33	Medium-Voltage Enclosed Fuse Cutouts
26 18 36	Medium-Voltage Enclosed Fuses
26 18 39	Medium-Voltage Motor Controllers
26 20 00	Low-Voltage Electrical Transmission
26 21 00	Low-Voltage Electrical Service Entrance
26 21 13	Low-Voltage Overhead Electrical Service Entrance
26 21 16	Low-Voltage Underground Electrical Service Entrance
26 22 00	Low-Voltage Transformers
26 22 13	Low-Voltage Distribution Transformers

26 22 16	Low-Voltage Buck-Boost Transformers
26 22 19	Control and Signal Transformers
26 23 00	Low-Voltage Switchgear
26 23 13	Paralleling Low-Voltage Switchgear
26 24 00	Switchboards and Panelboards
26 24 13	Switchboards
26 24 16	Panelboards
26 24 19	Motor-Control Centers
26 25 00	Enclosed Bus Assemblies
26 26 00	Power Distribution Units
26 27 00	Low-Voltage Distribution Equipment
26 27 13	Electricity Metering
26 27 16	Electrical Cabinets and Enclosures
26 27 19	Multi-Outlet Assemblies
26 27 23	Indoor Service Poles
26 27 26	Wiring Devices
26 27 73	Door Chimes
26 28 00	Low-Voltage Circuit Protective Devices
26 28 13	Fuses
26 28 16	Enclosed Switches and Circuit Breakers
26 28 16.13	Enclosed Circuit Breakers
26 28 16.16	Enclosed Switches
26 29 00	Low-Voltage Controllers
26 29 13	Enclosed Controllers
26 29 13.13	Across-the-Line Motor Controllers
26 29 13.16	Reduced-Voltage Motor Controllers
26 29 23	Variable-Frequency Motor Controllers
26 29 33	Controllers for Fire Pump Drivers
26 29 33.13	Full-Service Controllers for Fire Pump Electric-Motor Drivers
26 29 33.16	Limited-Service Controllers for Fire Pump Electric-Motor Drivers
26 29 33.19	Controllers for Fire Pump Diesel Engine Drivers
26 30 00	Facility Electrical Power Generating and Storing Equipment
26 31 00	Photovoltaic Collectors
26 32 00	Packaged Generator Assemblies
26 32 13	Engine Generators
26 32 13.13	Diesel-Engine-Driven Generator Sets
26 32 13.16	Gas-Engine-Driven Generator Sets
26 32 13.26	Gas-Turbine Engine-Driven Generators
26 32 16	Steam-Turbine Generators
26 32 19	Hydro-Turbine Generators
26 32 23	Wind Energy Equipment
26 32 26	Frequency Changers
26 32 29	Rotary Converters
26 32 33	Rotary Uninterruptible Power Units
26 33 00	Battery Equipment
26 33 13	Batteries
26 33 16	Battery Racks

26 33 19	Battery Units
26 33 23	Central Battery Equipment
26 33 33	Static Power Converters
26 33 43	Battery Chargers
26 33 46	Battery Monitoring
26 33 53	Static Uninterruptible Power Supply
26 35 00	Power Filters and Conditioners
26 35 13	Capacitors
26 35 16	Chokes and Inductors
26 35 23	Electromagnetic-Interference Filters
26 35 26	Harmonic Filters
26 35 33	Power Factor Correction Equipment
26 35 36	Slip Controllers
26 35 43	Static-Frequency Converters
26 35 46	Radio-Frequency-Interference Filters
26 35 53	Voltage Regulators
26 36 00	Transfer Switches
26 36 13	Manual Transfer Switches
26 36 23	Automatic Transfer Switches
26 40 00	Electrical and Cathodic Protection
26 41 00	Facility Lightning Protection
26 41 13	Lightning Protection for Structures
26 41 13.13	Lightning Protection for Buildings
26 41 16	Lightning Prevention and Dissipation
26 41 19	Early Streamer Emission Lightning Protection
26 41 23	Lightning Protection Surge Arresters and Suppressors
26 42 00	Cathodic Protection
26 42 13	Passive Cathodic Protection for Underground and Submerged Piping
26 42 16	Passive Cathodic Protection for Underground Storage Tank
26 43 00	Surge Protective Devices
26 43 13	Transient-Voltage Suppression for Low-Voltage Electrical Power Circuits
26 50 00	Lighting
26 51 00	Interior Lighting
26 51 13	Interior Lighting Fixtures, Lamps, And Ballasts
26 52 00	Emergency Lighting
26 53 00	Exit Signs
26 54 00	Classified Location Lighting
26 55 00	Special Purpose Lighting
26 55 23	Outline Lighting
26 55 29	Underwater Lighting
26 55 33	Hazard Warning Lighting
26 55 36	Obstruction Lighting
26 55 39	Helipad Lighting
26 55 53	Security Lighting
26 55 59	Display Lighting
26 55 61	Theatrical Lighting
26 55 63	Detention Lighting

26 55 70	Healthcare Lighting
26 55 83	Broadcast Lighting
26 56 00	Exterior Lighting
26 56 13	Lighting Poles and Standards
26 56 16	Parking Lighting
26 56 19	Roadway Lighting
26 56 23	Area Lighting
26 56 26	Landscape Lighting
26 56 29	Site Lighting
26 56 33	Walkway Lighting
26 56 36	Flood Lighting
26 56 68	Exterior Athletic Lighting

27 00 00	Communications
27 01 00	Operation and Maintenance of Communications Systems
27 01 10	Operation and Maintenance of Structured Cabling and Enclosures
27 01 20	Operation and Maintenance of Data Communications
27 01 30	Operation and Maintenance of Voice Communications
27 01 40	Operation and Maintenance of Audio-Video Communications
27 01 50	Operation and Maintenance of Distributed Communications and Monitoring
27 05 00	Common Work Results for Communications
27 05 13	Communications Services
27 05 13.13	Dialtone Services
27 05 13.23	T1 Services
27 05 13.33	DSL Services
27 05 13.43	Cable Services
27 05 13.53	Satellite Services
27 05 26	Grounding and Bonding for Communications Systems
27 05 28	Pathways for Communications Systems
27 05 29	Hangers and Supports for Communications Systems
27 05 33	Conduits and Backboxes for Communications Systems
27 05 36	Cable Trays for Communications Systems
27 05 39	Surface Raceways for Communications Systems
27 05 43	Underground Ducts and Raceways for Communications Systems
27 05 46	Utility Poles for Communications Systems
27 05 48	Vibration and Seismic Controls for Communications Systems
27 05 53	Identification for Communications Systems
27 06 00	Schedules for Communications
27 06 10	Schedules for Structured Cabling and Enclosures
27 06 20	Schedules for Data Communications
27 06 30	Schedules for Voice Communications
27 06 40	Schedules for Audio-Video Communications
27 06 50	Schedules for Distributed Communications and Monitoring
27 08 00	Commissioning of Communications
27 10 00	Structured Cabling
27 11 00	Communications Equipment Room Fittings
27 11 13	Communications Entrance Protection
27 11 16	Communications Cabinets, Racks, Frames, and Enclosures
27 11 19	Communications Termination Blocks and Patch Panels
27 11 23	Communications Cable Management and Ladder Rack
27 11 26	Communications Rack Mounted Power Protection and Power Strips
27 13 00	Communications Backbone Cabling
27 13 13	Communications Copper Backbone Cabling
27 13 13.13	Communications Copper Cable Splicing and Terminations
27 13 23	Communications Optical Fiber Backbone Cabling
27 13 23.13	Communications Optical Fiber Splicing and Terminations
27 13 33	Communications Coaxial Backbone Cabling
27 13 33.13	Communications Coaxial Splicing and Terminations
27 13 43	Communications Services Cabling

27 13 43.13	Dialtone Services Cabling
27 13 43.23	T1 Services Cabling
27 13 43.33	DSL Services Cabling
27 13 43.43	Cable Services Cabling
27 13 43.53	Satellite Services Cabling
27 15 00	Communications Horizontal Cabling
27 15 00.16	Voice Communications Horizontal Cabling
27 15 00.19	Data Communications Horizontal Cabling
27 15 00.23	Audio-Video Communications Horizontal Cabling
27 15 00.39	Patient Monitoring and Telemetry Communications Horizontal Cabling
27 15 00.43	Nurse Call and Intercom Communications Horizontal Cabling
27 15 00.46	Paging Communications Horizontal Cabling
27 15 00.49	Intermediate Frequency/Radio Frequency Communications Horizontal Cabling
27 15 00.53	Antennas Communications Horizontal Cabling
27 15 13	Communications Copper Horizontal Cabling
27 15 23	Communications Optical Fiber Horizontal Cabling
27 15 33	Communications Coaxial Horizontal Cabling
27 15 43	Communications Faceplates and Connectors
27 16 00	Communications Connecting Cords, Devices, and Adapters
27 16 13	Communications Custom Cable Assemblies
27 16 16	Communications Media Converters, Adapters, and Transceivers
27 16 19	Communications Patch Cords, Station Cords, and Cross Connect Wire
27 20 00	Data Communications
27 21 00	Data Communications Network Equipment
27 21 13	Data Communications Firewalls
27 21 16	Data Communications Routers, CSU/DSU, Multiplexers, Codecs, and Modems
27 21 26	Data Communications Network Management
27 21 29	Data Communications Switches and Hubs
27 21 33	Data Communications Wireless Access Points
27 22 00	Data Communications Hardware
27 22 13	Data Communications Mainframes
27 22 16	Data Communications Storage and Backup
27 22 19	Data Communications Servers
27 22 23	Data Communications Desktops
27 22 26	Data Communications Laptops
27 22 29	Data Communications Handhelds
27 24 00	Data Communications Peripheral Data Equipment
27 24 13	Printers
27 24 16	Scanners
27 24 19	External Drives
27 24 23	Audio-Video Devices
27 24 26	Virtual Reality Equipment
27 24 29	Disaster Recovery Equipment
27 25 00	Data Communications Software
27 25 13	Virus Protection Software
27 25 16	Application Suites
27 25 19	Email Software

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

- 27 41 16.62 Integrated Audio-Video Systems and Equipment for Auditoriums
- 27 41 16.63 Integrated Audio-Video Systems and Equipment for Stadiums and Arenas
- 27 41 19 Portable Audio-Video Equipment
- 27 41 23 Audio-Video Accessories
- 27 41 33 Master Antenna Television Systems
- 27 41 43 Audio-Video Conferencing
- 27 42 00 Electronic Digital Systems**
- 27 42 13 Point of Sale Systems
- 27 42 16 Transportation Information Display Systems
- 27 42 19 Public Information Systems
- 27 50 00 Distributed Communications and Monitoring Systems**
- 27 51 00 Distributed Audio-Video Communications Systems**
- 27 51 13 Paging Systems
- 27 51 13.13 Overhead Paging Systems
- 27 51 16 Public Address Systems
- 27 51 19 Sound Masking Systems
- 27 51 23 Intercommunications and Program Systems
- 27 51 23.20 Commercial Intercommunications and Program Systems
- 27 51 23.30 Residential Intercommunications and Program Systems
- 27 51 23.50 Educational Intercommunications and Program Systems
- 27 51 23.63 Detention Intercommunications and Program Systems
- 27 51 23.70 Healthcare Intercommunications and Program Systems
- 27 51 26 Assistive Listening Systems
- 27 52 00 Healthcare Communications and Monitoring Systems**
- 27 52 13 Patient Monitoring and Telemetry Systems
- 27 52 16 Telemedicine Systems
- 27 52 19 Healthcare Imaging Systems
- 27 52 23 Nurse Call/Code Blue Systems
- 27 53 00 Distributed Systems**
- 27 53 13 Clock Systems
- 27 53 13.13 Wireless Clock Systems
- 27 53 16 Infrared and Radio Frequency Tracking Systems
- 27 53 19 Internal Cellular, Paging, and Antenna Systems
- 27 60 00 Wireless Transceivers**

28 00 00	Electronic Safety and Security
28 01 00	Operation and Maintenance of Electronic Safety and Security
28 01 10	Operation and Maintenance of Electronic Access Control and Intrusion Detection
28 01 10.51	Maintenance and Administration of Electronic Access Control and Intrusion Detection
28 01 10.71	Revisions and Upgrades of Electronic Access Control and Intrusion Detection
28 01 20	Operation and Maintenance of Electronic Surveillance
28 01 30	Operation and Maintenance of Electronic Detection and Alarm
28 01 30.51	Maintenance and Administration of Electronic Detection and Alarm
28 01 30.71	Revisions and Upgrades of Electronic Detection and Alarm
28 01 40	Operation and Maintenance of Electronic Monitoring and Control
28 01 40.51	Maintenance and Administration of Electronic Monitoring and Control
28 01 40.71	Revisions and Upgrades of Electronic Monitoring and Control
28 05 00	Common Work Results for Electronic Safety and Security
28 05 13	Conductors and Cables for Electronic Safety and Security
28 05 13.13	CCTV Communications Conductors and Cables
28 05 13.16	Access Control Communications Conductors and Cables
28 05 13.19	Intrusion Detection Communications Conductors and Cables
28 05 13.23	Fire Alarm Communications Conductors and Cables
28 05 26	Grounding and Bonding for Electronic Safety and Security
28 05 28	Pathways for Electronic Safety and Security
28 05 28.29	Hangers and Supports for Electronic Safety and Security
28 05 28.33	Conduits and Backboxes for Electronic Safety and Security
28 05 28.36	Cable Trays for Electronic Safety and Security
28 05 28.39	Surface Raceways for Electronic Safety and Security
28 05 48	Vibration and Seismic Controls for Electronic Safety and Security
28 05 53	Identification for Electronic Safety and Security
28 06 00	Schedules for Electronic Safety and Security
28 06 10	Schedules for Electronic Access Control and Intrusion Detection
28 06 20	Schedules for Electronic Surveillance
28 06 30	Schedules for Electronic Detection and Alarm
28 06 40	Schedules for Electronic Monitoring and Control
28 08 00	Commissioning of Electronic Safety and Security
28 10 00	Electronic Access Control and Intrusion Detection
28 13 00	Access Control
28 13 13	Access Control Global Applications
28 13 16	Access Control Systems and Database Management
28 13 19	Access Control Systems Infrastructure
28 13 26	Access Control Remote Devices
28 13 33	Access Control Interfaces
28 13 33.16	Access Control Interfaces to Access Control Hardware
28 13 33.26	Access Control Interfaces to Intrusion Detection
28 13 33.33	Access Control Interfaces to Video Surveillance
28 13 33.36	Access Control Interfaces to Fire Alarm

28 13 43	Access Control Identification Management Systems
28 13 53	Security Access Detection
28 13 53.13	Security Access Metal Detectors
28 13 53.16	Security Access X-Ray Equipment
28 13 53.23	Security Access Explosive Detection Equipment
28 13 53.29	Security Access Sniffing Equipment
28 13 63	Access Control Vehicle Identification System
28 16 00	Intrusion Detection
28 16 13	Intrusion Detection Control, GUI, and Logic Systems
28 16 16	Intrusion Detection Systems Infrastructure
28 16 19	Intrusion Detection Remote Devices and Sensors
28 16 33	Intrusion Detection Interfaces
28 16 33.13	Intrusion Detection Interfaces to Remote Monitoring
28 16 33.16	Intrusion Detection Interfaces to Access Control Hardware
28 16 33.23	Intrusion Detection Interfaces to Access Control System
28 16 33.33	Intrusion Detection Interfaces to Video Surveillance
28 16 33.36	Intrusion Detection Interfaces to Fire Alarm
28 16 43	Perimeter Security Systems
28 20 00	Electronic Surveillance
28 23 00	Video Surveillance
28 23 13	Video Surveillance Control and Management Systems
28 23 16	Video Surveillance Monitoring and Supervisory Interfaces
28 23 19	Digital Video Recorders and Analog Recording Devices
28 23 23	Video Surveillance Systems Infrastructure
28 23 26	Video Surveillance Remote Positioning Equipment
28 23 29	Video Surveillance Remote Devices and Sensors
28 26 00	Electronic Personal Protection Systems
28 26 13	Electronic Personal Safety Detection Systems
28 26 16	Electronic Personal Safety Alarm Annunciation and Control Systems
28 26 19	Electronic Personal Safety Interfaces to Remote Monitoring
28 26 23	Electronic Personal Safety Emergency Aid Devices
28 30 00	Electronic Detection and Alarm
28 31 00	Fire Detection and Alarm
28 31 11	Digital, Addressable Fire-Alarm Systems
28 31 12	Zoned (DC Loop) Fire-Alarm Systems
28 31 13	Fire Detection and Alarm Control, GUI, and Logic Systems
28 31 23	Fire Detection and Alarm Annunciation Panels and Fire Stations
28 31 33	Fire Detection and Alarm Interfaces
28 31 33.13	Fire Detection and Alarm Interfaces to Remote Monitoring
28 31 33.16	Fire Detection and Alarm Interfaces to Access Control Hardware
28 31 33.23	Fire Detection and Alarm Interfaces to Access Control System
28 31 33.26	Fire Detection and Alarm Interfaces to Intrusion Detection
28 31 33.33	Fire Detection and Alarm Interfaces to Video Surveillance
28 31 33.43	Fire Detection and Alarm Interfaces to Elevator Control
28 31 43	Fire Detection Sensors
28 31 46	Smoke Detection Sensors
28 31 49	Carbon-Monoxide Detection Sensors
28 31 53	Fire Alarm Initiating Devices
28 31 53.13	Fire Alarm Pull Stations
28 31 53.23	Fire Alarm Level Detectors Switches

28 31 53.33	Fire Alarm Flow Switches
28 31 53.43	Fire Alarm Pressure Sensors
28 31 63	Fire Alarm Integrated Audio Visual Evacuation Systems
28 31 63.13	Fire Alarm Horns and Strobes
28 32 00	Radiation Detection and Alarm
28 32 13	Radiation Detection and Alarm Control, GUI, and Logic Systems
28 32 23	Radiation Detection and Alarm Integrated Audio Evacuation Systems
28 32 33	Radiation Detection Sensors
28 32 43	Radiation Dosimeters
28 33 00	Gas Detection and Alarm
28 33 13	Gas Detection and Alarm Control, GUI, and Logic Systems
28 33 23	Gas Detection and Alarm Integrated Audio Evacuation Systems
28 33 33	Gas Detection Sensors
28 34 00	Fuel-Oil Detection and Alarm
28 34 13	Fuel-Oil Detection and Alarm Control, GUI, and Logic Systems
28 34 23	Fuel-Oil Detection and Alarm Integrated Audio Evacuation Systems
28 34 33	Fuel-Oil Detection Sensors
28 35 00	Refrigerant Detection and Alarm
28 35 13	Refrigerant Detection and Alarm Control, GUI, and Logic Systems
28 35 23	Refrigerant Detection and Alarm Integrated Audio Evacuation Systems
28 35 33	Refrigerant Detection Sensors
28 36 00	Water Detection and Alarm
28 36 13	Water Detection and Alarm Control, GUI, and Logic Systems
28 36 33	Water Detection Sensors
28 39 00	Mass Notification Systems
28 40 00	Electronic Monitoring and Control
28 46 00	Electronic Detention Monitoring and Control Systems
28 46 13	Hard-Wired Detention Monitoring and Control Systems
28 46 16	Relay-Logic Detention Monitoring and Control Systems
28 46 19	PLC Electronic Detention Monitoring and Control Systems
28 46 23	Computer-Based Detention Monitoring and Control Systems
28 46 26	Discreet-Logic Detention Monitoring and Control Systems
28 46 29	Discreet-Distributed Intelligence Detention Monitoring and Control 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 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 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 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 32 36.23	Jet-Grouted Soil Nailing
31 32 36.26	Launched Soil Nailing
31 33 00	Rock Stabilization
31 33 13	Rock Bolting and Grouting
31 33 23	Rock Slope Netting
31 33 26	Rock Slope Wire Mesh
31 33 33	Shotcrete Rock Slope Stabilization
31 33 43	Vegetated Rock Slope Stabilization
31 34 00	Soil Reinforcement
31 34 19	Geosynthetic Soil Reinforcement
31 34 19.13	Geogrid Soil Reinforcement
31 34 19.16	Geotextile Soil Reinforcement
31 34 23	Fiber Soil Reinforcement
31 34 23.13	Geosynthetic Fiber Soil Reinforcement
31 35 00	Slope Protection
31 35 19	Geosynthetic Slope Protection
31 35 19.13	Geogrid Slope Protection
31 35 19.16	Geotextile Slope Protection
31 35 19.19	Slope Protection with Mulch Control Netting
31 35 23	Slope Protection with Slope Paving
31 35 23.13	Cast-In-Place Concrete Slope Paving
31 35 23.16	Precast Concrete Slope Paving

31 35 23.19	Concrete Unit Masonry Slope Paving
31 35 26	Containment Barriers
31 35 26.13	Clay Containment Barriers
31 35 26.16	Geomembrane Containment Barriers
31 35 26.23	Bentonite Slurry Trench
31 36 00	Gabions
31 36 13	Gabion Boxes
31 36 19	Gabion Mattresses
31 36 19.13	Vegetated Gabion Mattresses
31 37 00	Riprap
31 37 13	Machined Riprap
31 37 16	Non-Machined Riprap
31 37 16.13	Rubble-Stone Riprap
31 37 16.16	Concrete Unit Masonry Riprap
31 37 16.19	Sacked Sand-Cement Riprap
31 40 00	Shoring and Underpinning
31 41 00	Shoring
31 41 13	Timber Shoring
31 41 16	Sheet Piling
31 41 16.13	Steel Sheet Piling
31 41 16.16	Plastic Sheet Piling
31 41 19	Metal Hydraulic Shoring
31 41 19.13	Aluminum Hydraulic Shoring
31 41 23	Pneumatic Shoring
31 41 33	Trench Shielding
31 43 00	Concrete Raising
31 43 13	Pressure Grouting
31 43 13.13	Concrete Pressure Grouting
31 43 13.16	Polyurethane Pressure Grouting
31 43 16	Compaction Grouting
31 43 19	Mechanical Jacking
31 45 00	Vibroflotation and Densification
31 45 13	Vibroflotation
31 45 16	Densification
31 46 00	Needle Beams
31 46 13	Cantilever Needle Beams
31 48 00	Underpinning
31 48 13	Underpinning Piers
31 48 19	Bracket Piers
31 48 23	Jacked Piers
31 48 33	Micropile Underpinning
31 50 00	Excavation Support and Protection
31 51 00	Anchor Tiebacks
31 51 13	Excavation Soil Anchors
31 51 16	Excavation Rock Anchors
31 52 00	Cofferdams
31 52 13	Sheet Piling Cofferdams
31 52 16	Timber Cofferdams

31 52 19	Precast Concrete Cofferdams
31 53 00	Cribbing and Walers
31 53 13	Timber Cribwork
31 54 00	Ground Freezing
31 56 00	Slurry Walls
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
31 60 00	Special Foundations and Load-Bearing Elements
31 62 00	Driven Piles
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
31 63 00	Bored Piles
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
31 64 00	Caissons

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
31 66 00	Special Foundations
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
31 68 00	Foundation Anchors
31 68 13	Rock Foundation Anchors
31 68 16	Helical Foundation Anchors
31 70 00	Tunneling and Mining
31 71 00	Tunnel Excavation
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
31 71 23	Tunneling by Cut and Cover
31 72 00	Tunnel Support Systems
31 72 13	Rock Reinforcement and Initial Support
31 72 16	Steel Ribs and Lagging
31 73 00	Tunnel Grouting
31 73 13	Cement Tunnel Grouting
31 73 16	Chemical Tunnel Grouting
31 74 00	Tunnel Construction
31 74 13	Cast-in-Place Concrete Tunnel Lining
31 74 16	Precast Concrete Tunnel Lining
31 74 19	Shotcrete Tunnel Lining
31 75 00	Shaft Construction
31 75 13	Cast-in-Place Concrete Shaft Lining
31 75 16	Precast Concrete Shaft Lining
31 77 00	Submersible Tube Tunnels
31 77 13	Trench Excavation for Submerged Tunnels
31 77 16	Tube Construction (Outfitting Tunnel Tubes)
31 77 19	Floating and Laying Submerged Tunnels

32 00 00	Exterior Improvements
32 01 00	Operation and Maintenance of Exterior Improvements
32 01 11	Paving Cleaning
32 01 11.51	Rubber and Paint Removal from Paving
32 01 11.52	Rubber Removal from Paving
32 01 11.53	Paint Removal from Paving
32 01 13	Flexible Paving Surface Treatment
32 01 13.61	Slurry Seal (Latex Modified)
32 01 13.62	Asphalt Surface Treatment
32 01 16	Flexible Paving Rehabilitation
32 01 16.71	Cold Milling Asphalt Paving
32 01 16.72	Asphalt Paving Reuse
32 01 16.73	In Place Cold Reused Asphalt Paving
32 01 16.74	In Place Hot Reused Asphalt Paving
32 01 16.75	Heater Scarifying of Asphalt Paving
32 01 17	Flexible Paving Repair
32 01 17.61	Sealing Cracks in Asphalt Paving
32 01 17.62	Stress-Absorbing Membrane Interlayer
32 01 19	Rigid Paving Surface Treatment
32 01 19.61	Sealing of Joints in Rigid Paving
32 01 19.62	Patching of Rigid Paving
32 01 23	Base Course Reconditioning
32 01 26	Rigid Paving Rehabilitation
32 01 26.71	Grooving of Concrete Paving
32 01 26.72	Grinding of Concrete Paving
32 01 26.73	Milling of Concrete Paving
32 01 26.74	Concrete Overlays
32 01 26.75	Concrete Paving Reuse
32 01 29	Rigid Paving Repair
32 01 29.61	Partial Depth Patching of Rigid Paving
32 01 29.62	Concrete Paving Raising
32 01 29.63	Subsealing and Stabilization
32 01 30	Operation and Maintenance of Site Improvements
32 01 30.13	Snow Removal
32 01 80	Operation and Maintenance of Irrigation
32 01 90	Operation and Maintenance of Planting
32 01 90.13	Fertilizing
32 01 90.16	Amending Soils
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 05 00	Common Work Results for Exterior Improvements
32 05 13	Soils for Exterior Improvements
32 05 16	Aggregates for Exterior Improvements
32 05 19	Geosynthetics for Exterior Improvements
32 05 19.13	Geotextiles for Exterior Improvements
32 05 19.16	Geomembranes for Exterior Improvements
32 05 19.19	Geogrids for Exterior Improvements
32 05 23	Cement and Concrete for Exterior Improvements
32 05 33	Common Work Results for Planting

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

32 12 33	Flexible Paving Surface Treatments
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 12 43	Porous Flexible Paving
32 12 73	Asphalt Paving Joint Sealants
32 13 00	Rigid Paving
32 13 13	Concrete Paving
32 13 13.13	Exposed Aggregate Concrete Paving
32 13 13.16	Power-Compacted Concrete Paving
32 13 13.19	Prestressed Concrete Paving
32 13 13.23	Concrete Paving Surface Treatment
32 13 13.33	Plain Concrete Paving
32 13 16	Decorative Concrete Paving
32 13 16.13	Patterned Concrete Paving
32 13 16.16	Roller-Compacted Concrete Paving
32 13 16.19	Imprinted Concrete Paving
32 13 16.23	Stamped Concrete Paving
32 13 43	Pervious Concrete Paving
32 13 73	Concrete Paving Joint Sealants
32 13 73.13	Fuel-Resistant Concrete Paving Joint Sealants
32 13 73.16	Field-Molded Concrete Paving Joint Sealants
32 13 73.19	Compression Concrete Paving Joint Sealants
32 14 00	Unit Paving
32 14 13	Precast Concrete Unit Paving
32 14 13.13	Interlocking Precast Concrete Unit Paving
32 14 13.16	Precast Concrete Unit Paving Slabs
32 14 13.19	Porous Precast Concrete Unit Paving
32 14 16	Brick Unit Paving
32 14 23	Asphalt Unit Paving
32 14 26	Wood Paving
32 14 29	Recycled-Rubber Paving
32 14 40	Stone Paving
32 14 43	Porous Unit Paving
32 15 00	Aggregate Surfacing
32 15 13	Cinder Surfacing
32 15 40	Crushed Stone Surfacing
32 16 00	Curbs, Gutters, Sidewalks, and Driveways
32 16 13	Curbs and Gutters
32 16 13.13	Cast-In-Place Concrete Curbs and Gutters
32 16 13.16	Steel Faced Curbs
32 16 13.23	Precast Concrete Curbs and Gutters
32 16 13.33	Asphalt Curbs
32 16 13.43	Stone Curbs
32 16 23	Sidewalks
32 16 33	Driveways
32 17 00	Paving Specialties
32 17 13	Parking Bumpers
32 17 13.13	Metal Parking Bumpers
32 17 13.16	Plastic Parking Bumpers

- 32 17 13.19 Precast Concrete Parking Bumpers
- 32 17 13.23 Rubber Parking Bumpers
- 32 17 13.26 Wood Parking Bumpers
- 32 17 16 Speed Bumps
- 32 17 23 Pavement Markings
- 32 17 23.13 Painted Pavement Markings
- 32 17 23.23 Raised Pavement Markings
- 32 17 23.33 Plastic Pavement Markings
- 32 17 26 Tactile Warning Surfacing
- 32 17 43 Pavement Snow Melting Systems

32 18 00 Athletic and Recreational Surfacing

- 32 18 13 Synthetic Grass Surfacing
- 32 18 16 Synthetic Resilient Surfacing
- 32 18 16.13 Playground Protective Surfacing
- 32 18 23 Athletic Surfacing
- 32 18 23.13 Baseball Field Surfacing
- 32 18 23.16 Natural Baseball Field Surfacing
- 32 18 23.19 Synthetic Baseball Field 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 18 23.36 Natural Running Track Surfacing
- 32 18 23.39 Synthetic Running Track Surfacing
- 32 18 23.43 Recreational Court Surfacing
- 32 18 23.53 Tennis Court Surfacing
- 32 18 23.56 Natural Tennis Court Surfacing
- 32 18 23.59 Synthetic Tennis Court Surfacing

32 30 00 Site Improvements

32 31 00 Fences and Gates

- 32 31 11 Gate Operators
- 32 31 13 Chain Link Fences and Gates
- 32 31 13.23 Recreational Court Fences and Gates
- 32 31 13.26 Tennis Court Fences and Gates
- 32 31 13.29 Tennis Court Wind Breaker
- 32 31 13.33 Chain Link Backstops
- 32 31 13.53 High-Security Chain Link Fences and Gates
- 32 31 16 Welded Wire Fences and Gates
- 32 31 17 Expanded Metal Fences and Gates
- 32 31 19 Decorative Metal Fences and Gates
- 32 31 23 Plastic Fences and Gates
- 32 31 26 Wire Fences and Gates
- 32 31 29 Wood Fences and Gates
- 32 31 32 Composite Fences and Gates
- 32 31 53 Cattle Guards

32 32 00 Retaining Walls

- 32 32 13 Cast-in-Place Concrete Retaining Walls
- 32 32 16 Precast Concrete Retaining Walls
- 32 32 19 Unit Masonry Retaining Walls
- 32 32 23 Segmental Retaining Walls
- 32 32 23.13 Segmental Concrete Unit Masonry Retaining Walls
- 32 32 23.16 Manufactured Modular Walls

32 32 26	Metal Crib Retaining Walls
32 32 29	Timber Retaining Walls
32 32 34	Reinforced Soil Retaining Walls
32 32 36	Gabion Retaining Walls
32 32 43	Soldier-Beam Retaining Walls
32 32 53	Stone Retaining Walls
32 34 00	Fabricated Bridges
32 34 13	Fabricated Pedestrian Bridges
32 34 23	Fabricated Roadway Bridges
32 34 33	Fabricated Railway Bridges
32 35 00	Screening Devices
32 35 13	Screens and Louvers
32 35 16	Sound Barriers
32 39 00	Manufactured Site Specialties
32 39 13	Manufactured Metal Bollards
32 70 00	Wetlands
32 71 00	Constructed Wetlands
32 72 00	Wetlands Restoration
32 80 00	Irrigation
32 82 00	Irrigation Pumps
32 84 00	Planting Irrigation
32 84 13	Drip Irrigation
32 84 23	Underground Sprinklers
32 86 00	Agricultural Irrigation
32 90 00	Planting
32 91 00	Planting Preparation
32 91 13	Soil Preparation
32 91 13.13	Hydro-Punching
32 91 13.16	Mulching
32 91 13.19	Planting Soil Mixing
32 91 13.23	Structural Soil Mixing
32 91 13.26	Planting Beds
32 91 16	Planting Soil Stabilization
32 91 16.13	Blanket Planting Soil Stabilization
32 91 16.16	Mat Planting Soil Stabilization
32 91 16.19	Netting Planting Soil Stabilization
32 91 19	Landscape Grading
32 91 19.13	Topsoil Placement and Grading
32 92 00	Turf and Grasses
32 92 13	Hydro-Mulching
32 92 16	Plugging
32 92 19	Seeding
32 92 19.13	Mechanical Seeding
32 92 19.16	Hydraulic Seeding
32 92 23	Sodding
32 92 26	Sprigging
32 92 26.13	Stolonizing

32 93 00	Plants
32 93 13	Ground Covers
32 93 23	Plants and Bulbs
32 93 33	Shrubs
32 93 43	Trees
32 94 00	Planting Accessories
32 94 13	Landscape Edging
32 94 16	Landscape Timbers
32 94 19	Landscape Surfacing
32 94 33	Planters
32 94 43	Tree Grates
32 94 46	Tree Grids
32 96 00	Transplanting
32 96 13	Ground Cover Transplanting
32 96 23	Plant and Bulb Transplanting
32 96 33	Shrub Transplanting
32 96 43	Tree Transplanting

- 33 00 00 Utilities**
- 33 01 00 Operation and Maintenance of Utilities**
 - 33 01 10 Operation and Maintenance of Water Utilities
 - 33 01 20 Operation and Maintenance of Wells
 - 33 01 30 Operation and Maintenance of Sewer Utilities
 - 33 01 30.13 Sewer and Manhole Testing
 - 33 01 30.16 TV Inspection of Sewer Pipelines
 - 33 01 30.51 Maintenance of Sewer Utilities
 - 33 01 30.52 Pond and Reservoir Maintenance
 - 33 01 30.61 Sewer and Pipe Joint Sealing
 - 33 01 30.62 Manhole Grout Sealing
 - 33 01 30.71 Rehabilitation of Sewer Utilities
 - 33 01 30.72 Relining Sewers
 - 33 01 50 Operation and Maintenance of Fuel Distribution Lines
 - 33 01 50.51 Cleaning Fuel-Storage Tanks
 - 33 01 50.71 Lining of Steel Fuel-Storage Tanks
 - 33 01 60 Operation and Maintenance of Hydronic and Steam Energy Utilities
 - 33 01 70 Operation and Maintenance of Electrical Utilities
 - 33 01 80 Operation and Maintenance of Communications Utilities
- 33 05 00 Common Work Results for Utilities**
 - 33 05 13 Manholes and Structures
 - 33 05 13.13 Manhole Grade Adjustment
 - 33 05 16 Utility Structures
 - 33 05 16.13 Precast Concrete Utility Structures
 - 33 05 16.53 Rebuilding Utility Structures
 - 33 05 19 Pressure Piping Tied Joint Restraint System
 - 33 05 23 Trenchless Utility Installation
 - 33 05 23.13 Utility Horizontal Directional Drilling
 - 33 05 23.16 Utility Pipe Jacking
 - 33 05 23.19 Microtunneling
 - 33 05 23.23 Utility Pipe Ramming
 - 33 05 23.26 Utility Impact Molding
 - 33 05 23.29 Cable Trenching and Plowing
 - 33 05 26 Utility Identification
 - 33 05 26.13 Utility Identification Signs
 - 33 05 26.16 Utility Identification Markers
 - 33 05 26.19 Utility Identification Flags
 - 33 05 26.23 Utility Identification Trace Wires
- 33 06 00 Schedules for Utilities**
 - 33 06 10 Schedules for Water Utilities
 - 33 06 20 Schedules for Wells
 - 33 06 30 Schedules for Sanitary Sewerage Utilities
 - 33 06 40 Schedules for Storm Drainage Utilities
 - 33 06 40.13 Storm Drainage Schedule
 - 33 06 50 Schedules for Fuel Distribution 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
- 33 08 00 Commissioning of Utilities**
 - 33 08 10 Commissioning of Water Utilities
 - 33 08 20 Commissioning of Wells

33 08 30	Commissioning of Sanitary Sewerage Utilities
33 08 40	Commissioning of Storm Drainage Utilities
33 08 50	Commissioning of Fuel Distribution Utilities
33 08 60	Commissioning of Hydronic and Steam Energy Utilities
33 08 70	Commissioning of Electrical Utilities
33 08 80	Commissioning of Communications Utilities
33 09 00	Instrumentation and Control for Utilities
33 09 10	Instrumentation and Control for Water Utilities
33 09 20	Instrumentation and Control for Wells
33 09 30	Instrumentation and Control for Sanitary Sewerage Utilities
33 09 40	Instrumentation and Control for Storm Drainage Utilities
33 09 50	Instrumentation and Control for Fuel Distribution Utilities
33 09 60	Instrumentation and Control for Hydronic and Steam Energy Utilities
33 09 70	Instrumentation and Control for Electrical Utilities
33 09 80	Instrumentation and Control for Communications Utilities
33 10 00	Water Utilities
33 11 00	Water Utility Distribution Piping
33 11 13	Public Water Utility Distribution Piping
33 11 13.13	Ductile Iron Public Water Utility Distribution Piping
33 11 13.16	Cast Iron Public Water Utility Distribution Piping
33 11 13.23	Plastic Public Water Utility Distribution Piping
33 11 13.26	Galvanized Steel Public Water Utility Distribution Piping
33 11 13.33	Concrete Public Water Utility Distribution Piping
33 11 16	Site Water Utility Distribution Piping
33 11 19	Fire Suppression Utility Water Distribution Piping
33 12 00	Water Utility Distribution Equipment
33 12 13	Water Service Connections
33 12 13.13	Water Supply Backflow Preventer Assemblies
33 12 16	Water Utility Distribution Valves
33 12 19	Water Utility Distribution Fire Hydrants
33 12 23	Water Utility Pumping Stations
33 12 33	Water Utility Metering
33 13 00	Disinfecting of Water Utility Distribution
33 16 00	Water Utility Storage Tanks
33 16 13	Aboveground Water Utility Storage Tanks
33 16 13.13	Steel Aboveground Water Utility Storage Tanks
33 16 13.16	Prestressed Concrete Aboveground Water Utility Storage Tanks
33 16 13.19	Plastic Aboveground Water Utility Storage Tanks
33 16 16	Underground Water Utility Storage Tanks
33 16 19	Elevated Water Utility Storage Tanks
33 20 00	Wells
33 21 00	Water Supply Wells
33 21 13	Public Water Supply Wells
33 21 16	Irrigation Water Wells
33 22 00	Test Wells
33 23 00	Extraction Wells
33 24 00	Monitoring Wells
33 24 13	Groundwater Monitoring Wells

33 25 00	Recharge Wells
33 26 00	Relief Wells
33 29 00	Well Abandonment
33 30 00	Sanitary Sewerage Utilities
33 31 00	Sanitary Utility Sewerage Piping
33 31 13	Public Sanitary Utility Sewerage Piping
33 31 16	Industrial Waste Utility Sewerage Piping
33 32 00	Wastewater Utility Pumping Stations
33 32 13	Packaged Utility Lift Stations
33 32 13.13	Packaged Sewage Lift Stations, Wet Well Type
33 32 16	Packaged Utility Wastewater Pumping Stations
33 32 16.13	Packaged Sewage Grinder Pumping Units
33 32 19	Public Utility Wastewater Pumping Stations
33 33 00	Low Pressure Utility Sewerage
33 33 13	Sanitary Utility Sewerage
33 33 16	Combined Utility Sewerage
33 34 00	Sanitary Utility Sewerage Force Mains
33 34 13	Sanitary Utility Sewerage Inverted Siphons
33 36 00	Utility Septic Tanks
33 36 13	Utility Septic Tank and Effluent Wet Wells
33 36 16	Utility Septic Tank Effluent Pumps
33 36 33	Utility Drainage Field
33 39 00	Sanitary Utility Sewerage Structures
33 39 13	Sanitary Utility Sewerage Manholes, Frames, and Covers
33 39 23	Sanitary Utility Sewerage Cleanouts
33 40 00	Storm Drainage Utilities
33 41 00	Storm Utility Drainage Piping
33 41 13	Public Storm Utility Drainage Piping
33 42 00	Culverts
33 42 13	Pipe Culverts
33 42 13.13	Public Pipe Culverts
33 42 16	Concrete Culverts
33 42 16.13	Precast Concrete Culverts
33 42 16.16	Cast-in-Place Concrete Culverts
33 44 00	Storm Utility Water Drains
33 44 13	Utility Area Drains
33 44 13.13	Catchbasins
33 44 16	Utility Trench Drains
33 44 19	Utility Storm Water Treatment
33 44 19.13	In-Line Utility Storm Water Filters
33 44 19.16	Catch Basin Insert Utility Storm Water Filters
33 44 19.19	Utility Oil and Gas Separators
33 45 00	Storm Utility Drainage Pumps
33 46 00	Subdrainage
33 46 13	Foundation Drainage
33 46 13.13	Foundation Drainage Piping
33 46 13.16	Geocomposite Foundation Drainage

33 46 16	Subdrainage Piping
33 46 16.13	Subdrainage Piping
33 46 16.16	Geocomposite Subdrainage
33 46 16.19	Pipe Underdrains
33 46 19	Underslab Drainage
33 46 19.13	Underslab Drainage Piping
33 46 19.16	Geocomposite Underslab Drainage
33 46 23	Drainage Layers
33 46 23.16	Gravel Drainage Layers
33 46 23.19	Geosynthetic Drainage Layers
33 46 26	Geotextile Subsurface Drainage Filtration
33 46 33	Retaining Wall Drainage
33 47 00	Ponds and Reservoirs
33 47 13	Pond and Reservoir Liners
33 47 13.13	Pond Liners
33 47 13.53	Reservoir Liners
33 47 16	Pond and Reservoir Covers
33 47 16.13	Pond Covers
33 47 16.53	Reservoir Covers
33 47 19	Water Ponds and Reservoirs
33 47 19.13	Water Distribution Ponds
33 47 19.16	Water Retainage Reservoirs
33 47 19.23	Cooling Water Ponds
33 47 19.33	Fire-Protection Water Ponds
33 47 23	Sanitary Sewerage Lagoons
33 47 26	Storm Drainage Ponds and Reservoirs
33 47 26.13	Stabilization Ponds
33 47 26.16	Retention Basins
33 47 26.19	Leaching Pits
33 49 00	Storm Drainage Structures
33 49 13	Storm Drainage Manholes, Frames, and Covers
33 49 23	Storm Drainage Water Retention Structures
33 50 00	Fuel Distribution Utilities
33 51 00	Natural-Gas Distribution
33 51 13	Natural-Gas Piping
33 51 33	Natural-Gas Metering
33 52 00	Liquid Fuel Distribution
33 52 13	Fuel-Oil Distribution
33 52 13.13	Fuel-Oil Piping
33 52 13.23	Fuel-Oil Pumps
33 52 16	Gasoline Distribution
33 52 16.13	Gasoline Piping
33 52 16.23	Gasoline Pumps
33 52 19	Diesel Fuel Distribution
33 52 19.13	Diesel Fuel Piping
33 52 19.23	Diesel Fuel Pumps
33 52 43	Aviation Fuel Distribution
33 52 43.13	Aviation Fuel Piping
33 52 43.16	Aviation Fuel Connections
33 52 43.19	Aviation Fuel Grounding
33 52 43.23	Aviation Fuel Pumps

33 56 00	Fuel-Storage Tanks
33 56 13	Aboveground Fuel-Storage Tanks
33 56 16	Underground Fuel-Storage Tanks
33 56 43	Aviation Fuel-Storage Tanks
33 56 43.13	Aboveground Aviation Fuel-Storage Tanks
33 56 43.16	Underground Aviation Fuel-Storage Tanks
33 56 53	Compressed Gases Storage Tanks
33 60 00	Hydronic and Steam Energy Utilities
33 61 00	Hydronic Energy Distribution
33 61 13	Underground Hydronic Energy Distribution
33 61 23	Aboveground Hydronic Energy Distribution
33 61 33	Hydronic Energy Distribution Metering
33 63 00	Steam Energy Distribution
33 63 13	Underground Steam and Condensate Distribution Piping
33 63 23	Aboveground Steam and Condensate Distribution Piping
33 63 33	Steam Energy Distribution Metering
33 70 00	Electrical Utilities
33 71 00	Electrical Utility Transmission and Distribution
33 71 13	Electrical Utility Towers
33 71 13.13	Precast Concrete Electrical Utility Towers
33 71 13.23	Steel Electrical Utility Towers
33 71 13.33	Wood Electrical Utility Towers
33 71 16	Electrical Utility Poles
33 71 16.13	Precast Concrete Electrical Utility Poles
33 71 16.23	Steel Electrical Utility Poles
33 71 16.33	Wood Electrical Utility Poles
33 71 19	Electrical Underground Ducts and Manholes
33 71 19.13	Electrical Manholes and Handholes
33 71 23	Insulators and Fittings
33 71 23.13	Suspension Insulators
33 71 23.16	Post Insulators
33 71 23.23	Potheads
33 71 26	Transmission and Distribution Equipment
33 71 26.13	Capacitor Banks
33 71 26.16	Coupling Capacitors
33 71 26.23	Current Transformers
33 71 26.26	Potential Transformers
33 71 36	Extra-High-Voltage Wiring
33 71 36.13	Overhead Extra-High-Voltage Wiring
33 71 39	High-Voltage Wiring
33 71 39.13	Overhead High-Voltage Wiring
33 71 39.23	Underground High-Voltage Wiring
33 71 39.33	Underwater High-Voltage Wiring
33 71 49	Medium-Voltage Wiring
33 71 49.13	Overhead Medium-Voltage Wiring
33 71 49.23	Underground Medium-Voltage Wiring
33 71 49.33	Underwater Medium-Voltage Wiring
33 71 53	Direct-Current Transmission
33 71 73	Electrical Utility Services
33 71 73.33	Electric Meters
33 71 83	Transmission and Distribution Specialties

- 33 72 00 Utility Substations**
 - 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
 - 33 72 33 Control House Equipment
 - 33 72 33.13 Relays
 - 33 72 33.16 Substation Control Panels
 - 33 72 33.23 Power-Line Carriers
 - 33 72 33.26 Substation Metering
 - 33 72 33.33 Raceway and Boxes for Utility Substations
 - 33 72 33.36 Cable Trays for Utility Substations
 - 33 72 33.43 Substation Backup Batteries
 - 33 72 33.46 Substation Converter Stations
 - 33 72 43 Substation Control Wiring
- 33 73 00 Utility Transformers**
 - 33 73 13 Liquid-Filled Utility Transformers
 - 33 73 23 Dry-Type Utility Transformers
- 33 75 00 High-Voltage Switchgear and Protection Devices**
 - 33 75 13 Air High-Voltage Circuit Breaker
 - 33 75 16 Oil High-Voltage Circuit Breaker
 - 33 75 19 Gas High-Voltage Circuit Breaker
 - 33 75 23 Vacuum High-Voltage Circuit Breaker
 - 33 75 36 High-Voltage Utility Fuses
 - 33 75 39 High-Voltage Surge Arresters
 - 33 75 43 Shunt Reactors
- 33 77 00 Medium-Voltage Utility Switchgear and Protection Devices**
 - 33 77 13 Air Medium-Voltage Circuit Breaker
 - 33 77 16 Oil Medium-Voltage Circuit Breaker
 - 33 77 19 Gas Medium-Voltage Circuit Breaker
 - 33 77 23 Vacuum Medium-Voltage Circuit Breaker
 - 33 77 26 Medium-Voltage Utility Fusible Interrupter Switchgear
 - 33 77 33 Medium-Voltage Utility Cutouts
 - 33 77 36 Medium-Voltage Utility Fuses
 - 33 77 39 Medium-Voltage Utility Surge Arresters
 - 33 77 53 Medium-Voltage Utility Reclosers
- 33 79 00 Site Grounding**
 - 33 79 13 Site Improvements Grounding
 - 33 79 13.13 Electric Fence Grounding
 - 33 79 16 Tower Grounding
 - 33 79 16.13 Communications Tower Grounding
 - 33 79 16.16 Antenna Tower Grounding
 - 33 79 19 Utilities Grounding
 - 33 79 19.13 Electrical Utilities Grounding
 - 33 79 19.16 Communications Utilities Grounding
 - 33 79 23 Utility Substation Grounding
 - 33 79 83 Site Grounding Conductors
 - 33 79 83.13 Grounding Wire, Bar, and Rod

- 33 79 83.16 Chemical Rod
- 33 79 83.23 Conductive Concrete
- 33 79 83.33 Earth Grounding Enhancement
- 33 79 83.43 Deep Earth Grounding
- 33 79 93 Site Lightning Protection
- 33 79 93.13 Lightning Strike Counters
- 33 79 93.16 Lightning Strike Warning Devices

33 80 00 Communications Utilities

33 81 00 Communications Structures

- 33 81 13 Communications Transmission Towers
- 33 81 16 Antenna Towers
- 33 81 19 Communications Utility Poles
- 33 81 23 Aerial Cable Installation Hardware
- 33 81 26 Communications Underground Ducts, Manholes, and Handholes
- 33 81 29 Communications Vaults, Pedestals, and Enclosures
- 33 81 33 Communications Blowers, Fans, and Ventilation

33 82 00 Communications Distribution

- 33 82 13 Copper Communications Distribution Cabling
- 33 82 13.13 Copper Splicing and Terminations
- 33 82 23 Optical Fiber Communications Distribution Cabling
- 33 82 23.13 Optical Fiber Splicing and Terminations
- 33 82 33 Coaxial Communications Distribution Cabling
- 33 82 33.13 Coaxial Splicing and Terminations
- 33 82 43 Grounding and Bonding for Communications Distribution
- 33 82 46 Cable Pressurization Equipment
- 33 82 53 Cleaning, Lubrication, and Restoration Chemicals

33 83 00 Wireless Communications Distribution

- 33 83 13 Laser Transmitters and Receivers
- 33 83 16 Microwave Transmitters and Receivers
- 33 83 19 Infrared Transmitters and Receivers
- 33 83 23 UHF/VHF Transmitters and Antennas

34 00 00	Transportation
34 01 00	Operation and Maintenance of Transportation
34 01 13	Operation and Maintenance of Roadways
34 01 23	Operation and Maintenance of Railways
34 01 23.13	Track Removal and Salvage
34 01 23.81	Track Crosstie Replacement
34 01 33	Operation and Maintenance of Airfields
34 01 43	Operation and Maintenance of Bridges
34 05 00	Common Work Results for Transportation
34 05 13	Common Work Results for Roadways
34 05 23	Common Work Results for Railways
34 05 33	Common Work Results for Airports
34 05 43	Common Work Results for Bridges
34 06 00	Schedules for Transportation
34 06 13	Schedules for Roadways
34 06 23	Schedules for Railways
34 06 33	Schedules for Airfields
34 06 43	Schedules for Bridges
34 08 00	Commissioning of Transportation
34 08 13	Commissioning of Roadways
34 08 23	Commissioning of Railways
34 08 33	Commissioning of Airfields
34 08 43	Commissioning of Bridges
34 10 00	Guideways/Railways
34 11 00	Rail Tracks
34 11 13	Track Rails
34 11 13.13	Light Rail Track
34 11 13.23	Heavy Rail Track
34 11 16	Welded Track Rails
34 11 16.13	In-Track Butt-Welded Track Rail
34 11 16.16	Pressure-Welded Track Rail
34 11 16.19	Thermite-Welded Track Rail
34 11 19	Track Rail Joints
34 11 23	Special Trackwork
34 11 23.13	Ballasted Special Track Rail
34 11 23.16	Direct-Fixation Track
34 11 23.23	Running Rail
34 11 23.26	Precurved Running Rail
34 11 26	Ballasted Track Rail
34 11 26.13	Track Rail Ballast
34 11 26.16	Track Rail Subballast
34 11 29	Embedded Track Rail
34 11 33	Track Cross Ties
34 11 33.13	Concrete Track Cross Ties
34 11 33.16	Timber Track Cross Ties
34 11 33.19	Resilient Track Cross Ties
34 11 36	Track Rail Fasteners
34 11 36.13	Direct-Fixation Fasteners
34 11 39	Track Collector Pans
34 11 39.13	Fiberglass Track Collector Pans

34 11 93	Track Appurtenances and Accessories
34 12 00	Monorails
34 12 13	Elevated Monorails
34 12 16	On-Grade Monorails
34 12 19	Below-Grade Monorails
34 12 23	Maglev Monorail
34 12 63	Monorail Track
34 13 00	Funiculars
34 13 13	Inclined Railway
34 14 00	Cable Transportation
34 14 13	Aerial Tramways
34 14 19	Gondolas
34 14 26	Funitels
34 14 33	Chairlifts
34 14 39	Surface Lifts
34 14 46	Ropeway Tows
34 14 53	Cable Car Systems
34 20 00	Traction Power
34 21 00	Traction Power Distribution
34 21 13	High Power Static Frequency Converters
34 21 16	Traction Power Substations
34 21 16.13	AC Traction Power Substations
34 21 16.16	DC Traction Power Substations
34 21 19	Traction Power Switchgear
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
34 23 00	Overhead Traction Power
34 23 13	Traction Power Poles
34 23 16	Overhead Cable Suspension
34 23 23	Overhead Traction Power Cables
34 24 00	Third Rail Traction Power
34 24 13	Bottom-Contact Third Rail
34 24 16	Side-Contact Third Rail
34 24 19	Top-Contact Third Rail
34 40 00	Transportation Signaling and Control Equipment
34 41 00	Roadway Signaling and Control Equipment
34 41 13	Traffic Signals
34 41 16	Traffic Control Equipment
34 41 23	Roadway Monitoring Equipment
34 42 00	Railway Signaling and Control Equipment
34 42 13	Railway Signals
34 42 13.13	General Railway Signal Requirements
34 42 13.16	Signal Solid State Coded Track Circuits
34 42 16	Train Control Wires and Cables

34 42 19	Vital Interlocking Logic Controllers
34 42 23	Railway Control Equipment
34 42 23.13	Mainline Train Control Room Equipment
34 42 23.16	Yard Train Control Room Equipment
34 42 23.19	Integrated Control Equipment
34 42 23.23	Interlocking Railway Control Equipment
34 42 26	Rail Network Equipment
34 42 29	Station Agent Equipment
34 42 33	Yard Management Equipment
34 42 36	Supervisory Control and Data Acquisition
34 43 00	Airfield Signaling and Control Equipment
34 43 13	Airfield Signals
34 43 13.13	Airfield Runway Identification Lights
34 43 13.16	Airfield Runway and Taxiway Inset Lighting
34 43 16	Airfield Landing Equipment
34 43 16.13	Microwave Airfield Landing Equipment
34 43 16.16	Instrument Airfield Landing Equipment
34 43 16.19	Airfield Visual-Approach Slope Indicator Equipment
34 43 16.23	Airfield Short-Approach Lighting Equipment
34 43 16.26	Airfield Omni-Directional-Approach Lighting Equipment
34 43 16.29	Airfield Low-Intensity-Approach Lighting Equipment
34 43 16.33	Airfield High-Intensity-Approach Lighting Equipment
34 43 16.36	Airfield Precision-Approach Path Indicator Equipment
34 43 19	Airfield Traffic Control Tower Equipment
34 43 23	Weather Observation Equipment
34 43 23.13	Automatic Weather Observation Equipment
34 43 23.16	Airfield Wind Cones
34 43 26	Airfield Control Equipment
34 43 26.13	Airfield Lighting Control Equipment
34 43 26.16	Airfield Lighting PLC Control Equipment
34 43 26.19	Airfield Lighting Regulator Assembly
34 48 00	Bridge Signaling and Control Equipment
34 48 13	Operating Bridge Signals
34 48 16	Operating Bridge Control Equipment
34 50 00	Transportation Fare Collection Equipment
34 52 00	Vehicle Fare Collection
34 52 16	Vehicle Ticketing Equipment
34 52 16.13	Vehicle Ticket Vending Machines
34 52 26	Vehicle Fare Collection Equipment
34 52 26.13	Vehicle Coin Fare Collection Equipment
34 52 26.16	Vehicle Electronic Fare Collection Equipment
34 52 33	Vehicle Fare Gates
34 54 00	Passenger Fare Collection
34 54 16	Passenger Ticketing Equipment
34 54 16.13	Passenger Ticket Vending Machines
34 54 16.16	Passenger Addfare Machines
34 54 16.23	Passenger Intermodal Transfer Machines
34 54 26	Passenger Fare Collection Equipment
34 54 26.13	Passenger Coin Fare Collection Equipment
34 54 26.16	Passenger Electronic Fare Collection Equipment

34 54 33	Passenger Fare Gates
34 70 00	Transportation Construction and Equipment
34 71 00	Roadway Construction
34 71 13	Vehicle Barriers
34 71 13.13	Vehicle Median Barriers
34 71 13.16	Vehicle Crash Barriers
34 71 13.19	Vehicle Traffic Barriers
34 71 13.26	Vehicle Guide Rails
34 71 13.29	Vehicle Barrier Fenders
34 71 16	Impact Attenuating Devices
34 71 19	Vehicle Delineators
34 71 19.13	Fixed Vehicle Delineators
34 71 19.16	Flexible Vehicle Delineators
34 72 00	Railway Construction
34 72 13	Railway Line
34 72 16	Railway Siding
34 73 00	Airfield Construction
34 73 13	Aircraft Tiedowns
34 73 16	Airfield Grounding
34 73 16.13	Aircraft Static Grounding
34 73 19	Jet Blast Barriers
34 73 23	Manufactured Airfield Control Towers
34 73 26	Manufactured Helipads
34 75 00	Roadway Equipment
34 75 13	Operable Roadway Equipment
34 75 13.13	Active Vehicle Barriers
34 76 00	Railway Equipment
34 76 13	Roadway Crossing Control Equipment
34 77 00	Transportation Equipment
34 77 13	Passenger Loading Bridges
34 77 13.13	Fixed Aircraft Passenger Loading Bridges
34 77 13.16	Movable Aircraft Passenger Loading Bridges
34 77 13.23	Ship Passenger Loading Bridges
34 77 16	Baggage Handling Equipment
34 77 16.13	Baggage Scanning Equipment
34 77 16.16	Baggage Scales
34 77 16.19	Baggage Conveying Equipment
34 80 00	Bridges
34 81 00	Bridge Machinery
34 81 13	Single-Swing Bridge Machinery
34 81 16	Double-Swing Bridge Machinery
34 81 19	Cantilever Bridge Machinery
34 81 23	Lift Bridge Machinery
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 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 20 13	Hydraulic Fabrications
35 20 13.13	Hydraulic Bifurcation Panels

35 20 13.16	Hydraulic Bulkheads
35 20 13.19	Hydraulic Manifolds
35 20 13.23	Hydraulic Penstocks
35 20 13.26	Hydraulic Trashracks
35 20 16	Hydraulic Gates
35 20 16.13	Hydraulic Spillway Crest Gates
35 20 16.19	Hydraulic Head Gates
35 20 16.26	Hydraulic Sluice Gates
35 20 16.33	Hydraulic Miter Gates
35 20 16.39	Hydraulic Sector Gates
35 20 16.46	Hydraulic Tainter Gates and Anchorages
35 20 16.53	Hydraulic Vertical Lift Gates
35 20 16.59	Hydraulic Closure Gates
35 20 19	Hydraulic Valves
35 20 19.13	Hydraulic Butterfly Valves
35 20 19.23	Hydraulic Regulating Valves
35 20 23	Dredging
35 20 23.13	Mechanical Dredging
35 20 23.23	Hydraulic Dredging
35 20 23.33	Integrated Dredging and Dewatering

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

35 42 34 Soil Reinforcement Bank Protection

35 42 35 Slope Protection Bank Protection

35 42 36 Gabion Bank Protection

35 42 37 Riprap Bank Protection

35 42 53 Wall Bank Protection

35 42 53.16 Concrete Unit Masonry Wall Bank Protection

35 42 53.19 Segmental Wall Bank Protection

35 42 53.40 Stone Wall Bank Protection

35 43 00 Waterway Scour Protection

35 43 29 Grout-Bag Scour Protection

35 43 34 Soil Reinforcement Scour Protection

35 43 35 Slope Protection Scour Protection

35 43 36 Gabion Scour Protection

35 43 37 Riprap Scour Protection

35 43 53 Wall Scour Protection

35 43 53.13 Concrete Unit Masonry Wall Scour Protection

35 43 53.16 Segmental Wall Scour Protection

35 43 53.40 Stone Wall Scour Protection

35 49 00 Waterway Structures

35 49 13 Floodwalls

35 49 13.13 Concrete Floodwalls

35 49 13.16 Masonry Floodwalls

35 49 23 Waterway Locks

35 49 23.13 Concrete Waterway Locks

35 49 23.23 Piling Waterway Locks

35 49 26 Floodgate Machinery

35 50 00 Marine Construction and Equipment

35 51 00 Floating Construction

35 51 13 Floating Piers

35 51 13.23 Floating Wood Piers

35 51 13.26 Floating Plastic Piers

35 51 23 Pontoons

35 52 00 Offshore Platform Construction

35 52 13 Fixed Offshore Platform Construction

35 52 23 Semi-Submersible Offshore Platform Construction

35 52 33	Floating Offshore Platform Construction
35 53 00	Underwater Construction
35 53 23	Underwater Harbor Deepening
35 53 33	Underwater Pipeline Construction
35 53 43	Underwater Foundation Construction
35 53 53	Underwater Structures Construction
35 53 63	Underwater Waterproofing
35 59 00	Marine Specialties
35 59 13	Marine Fenders
35 59 13.13	Prestressed Concrete Marine Fender Piling
35 59 13.16	Resilient Foam-Filled Marine Fenders
35 59 13.19	Rubber Marine Fenders
35 59 23	Buoys
35 59 23.13	Mooring Buoys
35 59 23.16	Anchor Pendant Buoys
35 59 23.19	Navigation Buoys
35 59 29	Mooring Devices
35 59 29.13	Quick-Release Mooring Hooks
35 59 29.16	Laser Docking Systems
35 59 29.19	Capstans
35 59 33	Marine Bollards and Cleats
35 59 33.13	Cast-Steel Marine Bollards and Cleats
35 59 33.16	Cast-Iron Marine Bollards and Cleats
35 59 33.19	Stainless-Steel Marine Bollards and Cleats
35 59 33.23	Plastic Marine Bollards and Cleats
35 59 93	Marine Chain and Accessories
35 59 93.13	Marine Chain
35 59 93.16	Marine Shackles
35 59 93.19	Marine Chain Tensioners
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 Integration
40 01 00	Operation and Maintenance of Process Integration
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 05 00	Common Work Results for Process Integration
40 05 13	Common Work Results for Process Piping
40 05 13.13	Steel Process Piping
40 05 13.16	Lined or Internally-Coated Steel Process Piping
40 05 13.19	Stainless-Steel Process Piping
40 05 13.23	Aluminum Alloys Process Piping
40 05 13.33	Brass, Bronze, Copper, and Copper Alloys Process Piping
40 05 13.43	Nickel and Nickel Alloys Process Piping
40 05 13.53	Ductile, Malleable, and Cast Iron Alloys Process Piping
40 05 13.63	Titanium and Titanium Alloys Process Piping
40 05 13.73	Plastic Process Piping
40 05 13.76	Fiberglass-Reinforced Plastic and Resins Process Piping
40 05 13.93	Other Metals Process Piping
40 05 23	Common Work Results for Process Valves
40 05 23.13	Carbon Steel Process Valves
40 05 23.16	Low and Intermediate Alloy Steel Process Valves
40 05 23.19	Stainless-Steel Process Valves
40 05 23.33	Brass and Iron Process Valves
40 05 23.43	Nickel and Nickel Alloys Steel Process Valves
40 05 23.73	Plastic and Plastic Lined Process Valves
40 05 23.93	Other Metals Process Valves
40 06 00	Schedules for Process Integration
40 06 10	Schedules for Gas and Vapor Process Piping
40 06 20	Schedules for Liquids Process Piping
40 06 30	Schedules for Solid and Mixed Materials Piping and Chutes
40 06 40	Schedules for Process Piping and Equipment Protection
40 10 00	Gas and Vapor Process Piping
40 11 00	Steam Process Piping
40 11 13	Low-Pressure Steam Process Piping
40 11 16	Intermediate-Pressure Steam Process Piping
40 11 19	High-Pressure Steam Process Piping
40 11 23	Condensate Process Piping
40 12 00	Compressed Air Process Piping
40 12 13	Breathing Compressed Air Process Piping
40 12 16	Non-Breathing Compressed Air Process Piping
40 13 00	Inert Gases Process Piping
40 13 13	Argon Process Piping
40 13 16	Carbon-Dioxide Process Piping
40 13 19	Helium Process Piping
40 13 23	Krypton Process Piping
40 13 26	Neon Process Piping
40 13 29	Nitrogen Process Piping

40 13 33	Xenon Process Piping
40 13 93	Mixed Inert Gases Process Piping
40 14 00	Fuel Gases Process Piping
40 14 13	Blast Furnace Piping
40 14 16	Blue (Water) Fuel Gas Piping
40 14 19	Butane Piping
40 14 23	Carbon-Monoxide Piping
40 14 26	Chlorine Fuel Gas Piping
40 14 29	Coke Oven Gas Piping
40 14 33	Ethane-Gas Piping
40 14 36	Hydrogen Fuel Gas Piping
40 14 39	Liquid Natural-Gas Process Piping
40 14 43	Methylacetylene-Propadiene Fuel Gas Piping
40 14 49	Natural-Gas Process Piping
40 14 49.13	Synthetic Natural-Gas Piping
40 14 49.23	Propane-Air Mixes Fuel Gas Piping
40 14 53	Octane Fuel Gas Piping
40 14 59	Propane Fuel Gas Process Piping
40 14 63	Sewage Fuel Gas Piping
40 14 93	Mixed Fuel Gases Piping
40 15 00	Combustion System Gas Piping
40 15 13	Combustion Air Piping
40 15 16	Oxygen Combustion System Gas Piping
40 15 19	Flue-Gas Combustion System Piping
40 15 23	Exothermic-Gas Combustion System Piping
40 15 26	Endothermic-Gas Combustion System Piping
40 15 29	Disassociated-Ammonia-Gas Combustion System Piping
40 16 00	Specialty and High-Purity Gases Piping
40 16 13	Ammonia Gas Piping
40 16 16	Boron Gas Piping
40 16 26	Diborane Gas Piping
40 16 29	Flourine Gas Piping
40 16 33	Hydrogen Sulfide Gas Piping
40 16 36	Nitrous-Oxide Gas Process Piping
40 16 39	Ozone Gas Piping
40 16 43	Phosphine Gas Piping
40 16 46	Silane Gas Piping
40 16 49	Sulphur-Dioxide Gas Piping
40 16 53	Specialty Gas Mixtures Piping
40 16 56	High-Purity Gas Piping Components
40 17 00	Welding and Cutting Gases Piping
40 17 13	Acetylene Welding and Cutting Piping
40 17 16	Acetylene-Hydrogen Mix Welding and Cutting Piping
40 17 19	Methylacetylene-Propadiene Welding and Cutting Piping
40 17 23	Oxygen Welding and Cutting Piping
40 17 26	Inert Gas Welding and Cutting Piping
40 18 00	Vacuum Systems Process Piping
40 18 13	Low-Vacuum Systems Process Piping
40 18 16	High-Vacuum Systems Process Piping

- 40 20 00 Liquids Process Piping**
- 40 21 00 Liquid Fuel Process Piping**
 - 40 21 13 Bio Fuels Process Piping
 - 40 21 16 Gasoline Process Piping
 - 40 21 19 Diesel Process Piping
 - 40 21 23 Fuel-Oils Process Piping
 - 40 21 23.13 No. 2 Fuel-Oil Process Piping
 - 40 21 23.16 No. 4 Fuel-Oil Process Piping
 - 40 21 23.19 No. 5 Fuel-Oil Process Piping
 - 40 21 23.23 No. 6 Fuel-Oil Process Piping
 - 40 21 23.26 Kerosene Process Piping
 - 40 21 23.29 Tar Process Piping
- 40 22 00 Petroleum Products Piping**
 - 40 22 13 Heavy-Fractions Petroleum Products Piping
 - 40 22 16 Light-Fractions Petroleum Products Piping
- 40 23 00 Water Process Piping**
 - 40 23 13 Deionized Water Process Piping
 - 40 23 16 Distilled-Water Process Piping
 - 40 23 19 Process Plant Water Piping
 - 40 23 23 Potable Water Process Piping
 - 40 23 29 Recirculated Water Process Piping
 - 40 23 33 Reverse-Osmosis Water Process Piping
 - 40 23 36 Sanitary Water Process Piping
- 40 24 00 Specialty Liquid Chemicals Piping**
 - 40 24 13 Alcohol Piping
 - 40 24 16 Gel Piping
 - 40 24 19 Slurries Process Piping
 - 40 24 23 Thixotropic Liquid Piping
- 40 25 00 Liquid Acids and Bases Piping**
 - 40 25 13 Liquid Acids Piping
 - 40 25 16 Liquid Bases Piping
- 40 26 00 Liquid Polymer Piping**
- 40 30 00 Solid and Mixed Materials Piping and Chutes**
- 40 32 00 Bulk Materials Piping and Chutes**
 - 40 32 13 Abrasive Materials Piping and Chutes
 - 40 32 16 Nonabrasive Materials Piping and Chutes
- 40 33 00 Bulk Materials Valves**
 - 40 33 13 Airlock Bulk Materials Valves
 - 40 33 16 Blind Bulk Materials Valves
 - 40 33 19 Butterfly Bulk Materials Valves
 - 40 33 23 Cone Bulk Materials Valves
 - 40 33 26 Diverter Bulk Materials Valves
 - 40 33 29 Double or Single Dump Bulk Materials Valves
 - 40 33 33 Knife and Slide Gate Bulk Materials Valves
 - 40 33 36 Pinch Bulk Materials Valves
 - 40 33 39 Swing Bulk Materials Valves

40 33 43	Specialty Bulk Materials Valves
40 34 00	Pneumatic Conveying Lines
40 34 13	Dense Phase Pneumatic Conveying Lines
40 34 16	Dilute Phase Pneumatic Conveying Lines
40 40 00	Process Piping and Equipment Protection
40 41 00	Process Piping and Equipment Heat Tracing
40 41 13	Process Piping Heat Tracing
40 41 13.13	Process Piping Electrical Resistance Heat Tracing
40 41 13.16	Process Piping Electrical Conductance Heat Tracing
40 41 13.19	Process Piping Gas Heat Tracing
40 41 13.23	Process Piping Steam Heat Tracing
40 41 13.26	Process Piping Thermal Fluids Heat Tracing
40 41 23	Process Equipment Heat Tracing
40 41 23.13	Process Equipment Electrical Resistance Heat Tracing
40 41 23.16	Process Equipment Electrical Conductance Heat Tracing
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
40 42 00	Process Piping and Equipment Insulation
40 42 13	Process Piping Insulation
40 42 13.13	Cryogenic Temperature Process Piping Insulation
40 42 13.16	Low Temperature Process Piping Insulation
40 42 13.19	Intermediate Temperature Process Piping Insulation
40 42 13.23	High Temperature Process Piping Insulation
40 42 13.26	Process Piping Insulation for Specialty Applications
40 42 23	Process Equipment Insulation
40 42 23.13	Cryogenic Temperature Process Equipment Insulation
40 42 23.16	Low Temperature Process Equipment Insulation
40 42 23.19	Intermediate Temperature Process Equipment Insulation
40 42 23.23	High Temperature Process Equipment Insulation
40 42 23.26	Process Equipment Insulation for Specialty Applications
40 46 00	Process Corrosion Protection
40 46 16	Coatings and Wrappings for Process Corrosion Protection
40 46 42	Cathodic Process Corrosion Protection
40 47 00	Refractories
40 47 13	Silica Refractories
40 47 16	Alumina Refractories
40 47 19	Carbon and Graphite Refractories
40 47 23	Castable Refractories
40 47 26	Rammed Refractories
40 47 29	Refractory Concrete
40 80 00	Commissioning of Process Systems
40 90 00	Instrumentation and Control for Process Systems
40 91 00	Primary Process Measurement Devices
40 91 13	Chemical Properties Process Measurement Devices
40 91 13.13	Ammonia Process Measurement Devices
40 91 13.16	Chlorine Process Measurement Devices
40 91 13.19	Fluoride Process Measurement Devices

40 91 13.23 Gas Analysis Process Measurement Devices
40 91 13.26 Gas Chromatograph Process Measurement Devices
40 91 13.29 pH Level Process Measurement Devices
40 91 16 Electromagnetic Process Measurement Devices
40 91 16.13 Amperes Process Measurement Devices
40 91 16.16 Capacitance Process Measurement Devices
40 91 16.19 Conductivity Process Measurement Devices
40 91 16.23 Inductance Process Measurement Devices
40 91 16.26 Lumens Process Measurement Devices
40 91 16.29 Magnetic Field Process Measurement Devices
40 91 16.33 Electrical Power Process Measurement Devices
40 91 16.36 Radiation Process Measurement Devices
40 91 16.39 Electrical Resistance Process Measurement Devices
40 91 16.43 Ultraviolet Sensors
40 91 16.46 Voltage Process Measurement Devices
40 91 19 Physical Properties Process Measurement Devices
40 91 19.13 Density Process Measurement Devices
40 91 19.16 Humidity Process Measurement Devices
40 91 19.19 Mass Process Measurement Devices
40 91 19.23 Particle Counters Process Measurement Devices
40 91 19.26 Gas Pressure Process Measurement Devices
40 91 19.29 Liquid Pressure Process Measurement Devices
40 91 19.33 Stress/Strain Process Measurement Devices
40 91 19.36 Temperature Process Measurement Devices
40 91 19.39 Vapor Pressure Process Measurement Devices
40 91 19.43 Weight Process Measurement Devices
40 91 23 Miscellaneous Properties Measurement Devices
40 91 23.13 Acceleration Process Measurement Devices
40 91 23.16 Angle Process Measurement Devices
40 91 23.19 Color Process Measurement Devices
40 91 23.23 Count Process Measurement Devices
40 91 23.26 Distance Process Measurement Devices
40 91 23.29 Energy Process Measurement Devices
40 91 23.33 Flow Process Measurement Devices
40 91 23.36 Level Process Measurement Devices
40 91 23.39 Physical Resistance Process Measurement Devices
40 91 23.43 RPM Process Measurement Devices
40 91 23.46 Time Process Measurement Devices
40 91 23.49 Turbidity Process Measurement Devices
40 91 23.53 Velocity Process Measurement Devices

40 92 00 Primary Control Devices

40 92 13 Primary Control Valves
40 92 13.13 Electrically-Operated Primary Control Valves
40 92 13.16 Hydraulically-Operated Primary Control Valves
40 92 13.19 Pneumatically-Operated Primary Control Valves
40 92 13.23 Pressure-Relief Primary Control Valves
40 92 13.26 Solenoid Primary Control Valves
40 92 13.29 Specialty Primary Control Valves
40 92 29 Current-To-Pressure Converters
40 92 33 Self-Contained Flow Controllers
40 92 36 Linear Actuators and Positioners
40 92 39 Self-Contained Pressure Regulators
40 92 43 Rotary Actuators
40 92 46 Saturable Core Reactors

- 40 92 49 Variable Frequency Drives
- 40 92 53 Voltage-To-Pressure Converters
- 40 93 00 Analog Controllers/Recorders**
- 40 93 13 Analog Controllers
- 40 93 13.13 Electronic Analog Controllers
- 40 93 13.16 Electro-Hydraulic Analog Controllers
- 40 93 13.19 Electro-Pneumatic Analog Controllers
- 40 93 13.23 Hydraulic Analog Controllers
- 40 93 13.26 Pneumatic Analog Controllers
- 40 93 23 Chart Recorders
- 40 94 00 Digital Process Controllers**
- 40 94 13 Digital Process Control Computers
- 40 94 13.13 Host Digital Process Control Computers
- 40 94 13.16 Personal Digital Process Control Computers
- 40 94 13.19 Personal Digital Assistant Digital Process Control Computers
- 40 94 23 Distributed Process Control Systems
- 40 94 33 Human - Machine Interfaces
- 40 94 43 Programmable Logic Process Controllers
- 40 95 00 Process Control Hardware**
- 40 95 13 Process Control Panels and Hardware
- 40 95 13.13 Local Process Control Panels and Hardware
- 40 95 13.23 Main Process Control Panels and Hardware
- 40 95 20 Process Control Display Devices
- 40 95 23 Process Control Input/Output Modules
- 40 95 26 Process Control Instrument Air Piping and Devices
- 40 95 33 Process Control Networks
- 40 95 33.13 Cabled Process Control Networks
- 40 95 33.23 Fiber Optic Process Control Networks
- 40 95 33.33 Wireless Process Control Networks
- 40 95 43 Process Control Hardware Interfaces
- 40 95 46 Process Control Mounting Racks and Supports
- 40 95 49 Process Control Routers
- 40 95 53 Process Control Switches
- 40 95 56 Process Control Transformers
- 40 95 63 Process Control Wireless Equipment
- 40 95 63.13 Process Control Wireless Transmitters
- 40 95 63.16 Process Control Wireless Receivers
- 40 95 63.19 Process Control Wireless Repeaters
- 40 95 73 Process Control Wiring
- 40 95 73.23 Process Control Cable
- 40 95 73.33 Process Control Conduit, Raceway and Supports
- 40 95 73.43 Process Control Junction Boxes
- 40 96 00 Process Control Software**
- 40 96 10 Process Control Software Architecture
- 40 96 15 Process Control Software Input/Output Lists
- 40 96 20 Process Control Software Instrument Lists
- 40 96 25 Process Control Software Logic Diagrams
- 40 96 30 Process Control Software Loop Diagrams
- 40 96 35 Process Control Software Programming
- 40 96 40 Process Control Software Reports
- 40 97 00 Process Control Auxiliary Devices**

40 97 10	Process Control Annunciators
40 97 15	Process Control Gages
40 97 20	Process Control Rotameters
40 97 25	Process Control Potentiometers
40 97 30	Process Control Test Equipment

- 41 00 00 Material Processing and Handling Equipment**
- 41 01 00 Operation and Maintenance of Material Processing and Handling Equipment**
 - 41 01 10 Operation and Maintenance of Bulk Material Processing Equipment
 - 41 01 20 Operation and Maintenance of Piece Material Handling Equipment
 - 41 01 30 Operation and Maintenance of Manufacturing Equipment
 - 41 01 40 Operation and Maintenance of Container Processing and Packaging
 - 41 01 50 Operation and Maintenance of Material Storage
 - 41 01 60 Operation and Maintenance of Mobile Plant Equipment
- 41 06 00 Schedules for Material Processing and Handling Equipment**
 - 41 06 10 Schedules for Bulk Material Processing Equipment
 - 41 06 20 Schedules for Piece Material Handling Equipment
 - 41 06 30 Schedules for Manufacturing Equipment
 - 41 06 40 Schedules for Container Processing and Packaging
 - 41 06 50 Schedules for Material Storage
 - 41 06 60 Schedules for Mobile Plant Equipment
- 41 08 00 Commissioning of Material Processing and Handling Equipment**
 - 41 08 10 Commissioning of Bulk Material Processing Equipment
 - 41 08 20 Commissioning of Piece Material Handling Equipment
 - 41 08 30 Commissioning of Manufacturing Equipment
 - 41 08 40 Commissioning of Container Processing and Packaging
 - 41 08 50 Commissioning of Material Storage
 - 41 08 60 Commissioning of Mobile Plant Equipment
- 41 10 00 Bulk Material Processing Equipment**
- 41 11 00 Bulk Material Sizing Equipment**
 - 41 11 13 Bulk Material Agglomerators
 - 41 11 16 Bulk Material Air Mill Classifiers
 - 41 11 19 Bulk Material Centrifuges
 - 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 11 39 Bulk Material Lump Breakers
 - 41 11 43 Bulk Material Mills
 - 41 11 46 Bulk Material Pulverizers
 - 41 11 49 Bulk Material Screens
 - 41 11 53 Bulk Material Shredders
 - 41 11 56 Bulk Material Sieves
- 41 12 00 Bulk Material Conveying Equipment**
 - 41 12 13 Bulk Material Conveyors
 - 41 12 13.13 Airslide Bulk Material Conveyors
 - 41 12 13.16 Auger Bulk Material Conveyors
 - 41 12 13.19 Belt Bulk Material Conveyors

- 41 12 13.23 Container Bulk Material Conveyors
- 41 12 13.26 Drag Chain Bulk Material Conveyors
- 41 12 13.29 Hopper Bulk Material Conveyors
- 41 12 13.33 Reciprocating Bulk Material Conveyors
- 41 12 13.36 Screw Bulk Material Conveyors
- 41 12 13.39 Stacking and Reclaim Bulk Material Conveyors
- 41 12 13.43 Trough Bulk Material Conveyors
- 41 12 13.46 Tube Bulk Material Conveyors
- 41 12 13.49 Vibratory Bulk Material Conveyors
- 41 12 13.53 Weigh-Belt Bulk Material Conveyors
- 41 12 16 Bucket Elevators
- 41 12 19 Pneumatic Conveyors
- 41 12 19.13 Dense Phase Pneumatic Conveyors
- 41 12 19.16 Dilute Phase Pneumatic Conveyors

41 13 00 Bulk Material Feeders

- 41 13 13 Bin Activators/Live Bin Bottoms
- 41 13 23 Feeders
- 41 13 23.13 Airlock Bulk Material Feeders
- 41 13 23.16 Apron Bulk Material Feeders
- 41 13 23.19 Rotary-Valve Bulk Material Feeders
- 41 13 23.23 Screw Bulk Material Feeders
- 41 13 23.26 Vibratory Bulk Material Feeders
- 41 13 23.29 Volumetric Bulk Material Feeders
- 41 13 23.33 Weigh Bulk Material Feeders

41 14 00 Batching Equipment

- 41 14 13 Bag-Handling Batching Equipment
- 41 14 16 Batch Cars/Transports
- 41 14 19 Batch Hoppers
- 41 14 23 Bulk Bag-Handling Batching Equipment
- 41 14 26 Blenders
- 41 14 29 Drum-Handling Batching Equipment
- 41 14 33 Mixers
- 41 14 36 Weigh Scales

41 20 00 Piece Material Handling Equipment

41 21 00 Conveyors

- 41 21 13 Automatic Guided Vehicle Systems
- 41 21 23 Piece Material Conveyors
- 41 21 23.13 Belt Piece Material Conveyors
- 41 21 23.16 Container Piece Material Conveyors
- 41 21 23.19 Drag-Chain Piece Material Conveyors
- 41 21 23.23 Hopper Piece Material Conveyors
- 41 21 23.26 Monorail Piece Material Conveyors
- 41 21 23.29 Power and Free Piece Material Conveyors
- 41 21 23.33 Reciprocating Piece Material Conveyors
- 41 21 23.36 Roller Piece Material Conveyors
- 41 21 23.39 Vibratory Piece Material Conveyors
- 41 21 23.43 Walking-Beam Piece Material Conveyors
- 41 21 23.46 Weigh-Belt Piece Material Conveyors
- 41 21 23.53 Postal Conveyors
- 41 21 26 Piece Material Diverter Gates
- 41 21 29 Piece Material Gravity Slides
- 41 21 33 Piece Material Transfer Cars

41 21 36	Piece Material Turntables
41 21 39	Piece Material Feeders
41 21 39.13	Piece Material Vibratory Feeders
41 22 00	Cranes and Hoists
41 22 13	Cranes
41 22 13.13	Bridge Cranes
41 22 13.16	Gantry Cranes
41 22 13.19	Jib Cranes
41 22 13.23	Mobile Cranes
41 22 13.26	Tower Cranes
41 22 13.29	Specialty Cranes
41 22 23	Hoists
41 22 23.13	Fixed Hoists
41 22 23.16	Portable Hoists
41 22 23.19	Monorail Hoists
41 22 23.23	Specialty Hoists
41 22 33	Derricks
41 23 00	Lifting Devices
41 23 13	Clamps
41 23 16	Grabs
41 23 19	Hooks
41 23 23	Lifts
41 23 26	Slings
41 23 29	Spreader Bars/Beams
41 23 33	Tongs
41 24 00	Specialty Material Handling Equipment
41 24 13	Aeration Devices
41 24 16	Bin Vibrators
41 24 19	Dehydrators
41 24 23	Hydrators
41 24 26	Hydraulic Power Systems
41 24 29	Lubrication Systems
41 24 33	Magnetic Separators
41 24 36	Metal Detectors
41 24 39	Railcar Movers
41 24 43	Turnheads/Distributors
41 24 46	Sorting Machines
41 24 46.13	Postal Sorting Machines
41 30 00	Manufacturing Equipment
41 31 00	Manufacturing Lines and Equipment
41 31 13	Manufacturing Lines
41 31 13.13	Assembly Lines
41 31 13.16	Casting Lines
41 31 13.19	Coating Lines
41 31 13.23	Converting Lines
41 31 13.26	Disassembly Lines
41 31 13.29	Extrusion Lines
41 31 13.33	Machining Lines
41 31 13.36	Molding Lines
41 31 13.39	Finishing/Painting Lines
41 31 13.43	Painting Lines

41 31 13.46	Pickling Lines
41 31 13.49	Plating Lines
41 31 13.53	Polishing Lines
41 31 13.56	Press Lines
41 31 13.59	Rolling/Calendaring Lines
41 31 13.63	Web Processing Lines
41 31 16	Pick and Place Systems
41 31 19	Manufacturing-Line Robots
41 31 23	Specialty Assembly Machines
41 32 00	Forming Equipment
41 32 13	Bending Equipment
41 32 16	Blow-Molding Equipment
41 32 19	Brake-Forming Equipment
41 32 23	Cold-Forming Equipment
41 32 26	Die-Casting Equipment
41 32 29	Drawing Equipment
41 32 33	Electroforming Equipment
41 32 36	Forging Equipment
41 32 39	Extruding Equipment
41 32 43	Metal-Spinning Equipment
41 32 46	Piercing Equipment
41 32 49	Powder Metal-Forming Equipment
41 32 53	Pressing Equipment
41 32 56	Roll-Forming Equipment
41 32 59	Shearing Equipment
41 32 63	Spinning Equipment
41 32 66	Stretching/Leveling Equipment
41 32 69	Swaging Equipment
41 33 00	Machining Equipment
41 33 13	Automatic Screw Machining Equipment
41 33 16	Boring Equipment
41 33 19	Broaching Equipment
41 33 23	Drilling Equipment
41 33 26	Electro-Discharge Machining Equipment
41 33 29	Grinding Equipment
41 33 33	Hobbing Equipment
41 33 36	Lapping Equipment
41 33 39	Lathe Equipment
41 33 43	Leveling Equipment
41 33 46	Machining Center Equipment
41 33 53	Milling Equipment
41 33 53.13	Horizontal Milling Equipment
41 33 53.16	Vertical Milling Equipment
41 33 60	Multi-Axis Machine Equipment
41 33 63	Planing Equipment
41 33 66	Reaming Equipment
41 33 69	Routing Equipment
41 33 73	Sawing Equipment
41 33 76	Shaping Equipment
41 33 79	Threading Equipment
41 34 00	Finishing Equipment

- 41 34 13 Anodizing Equipment
- 41 34 16 Barrel Tumbling Equipment
- 41 34 23 Coating Equipment
 - 41 34 23.13 Diffusion Coating Equipment
 - 41 34 23.16 Dipping Coating Equipment
 - 41 34 23.19 Film Coating Equipment
 - 41 34 23.23 Phosphatizing Coating Equipment
 - 41 34 23.26 Plasma Coating Equipment
 - 41 34 23.29 Hardface Welding Coating Equipment
 - 41 34 23.33 Spray Painting Booth
- 41 34 26 Deburring Equipment
- 41 34 36 Electroplating Equipment
- 41 34 46 Grinding Equipment
- 41 34 49 Honing Equipment
- 41 34 53 Lapping Equipment
- 41 34 56 Shot Peening Equipment
- 41 34 59 Superfinishing/Polishing Equipment
- 41 35 00 Dies and Molds**
 - 41 35 13 Dies
 - 41 35 13.13 Drawing Dies
 - 41 35 13.16 Extrusion Dies
 - 41 35 13.19 Press Dies
 - 41 35 13.23 Rotary Dies
 - 41 35 13.26 Rule Dies
 - 41 35 33 Molds
- 41 36 00 Assembly and Testing Equipment**
 - 41 36 13 Applicators
 - 41 36 13.13 Adhesive Applicators
 - 41 36 13.16 Lubricant Applicators
 - 41 36 13.19 Sealer Applicators
 - 41 36 16 Fixtures and Jigs
 - 41 36 19 Joining Equipment
 - 41 36 19.13 Adhesive Joining Equipment
 - 41 36 19.16 Arc-Welding Equipment
 - 41 36 19.19 Brazing Equipment
 - 41 36 19.23 Resistance-Welding Equipment
 - 41 36 19.26 Riveting Equipment
 - 41 36 19.29 Sintering Equipment
 - 41 36 19.33 Soldering Equipment
 - 41 36 23 Cutting Equipment
 - 41 36 23.13 Cutting Torches
 - 41 36 23.16 High-Pressure Water Cutting Equipment
 - 41 36 23.19 Laser Cutting Equipment
 - 41 36 23.23 Plasma Cutting Equipment
 - 41 36 26 Process Tools
 - 41 36 26.13 Air Process Tools
 - 41 36 26.16 Electric Process Tools
 - 41 36 26.19 Hydraulic Process Tools
 - 41 36 26.23 Manual Process Tools
 - 41 36 29 Manufacturing Measurement and Testing Equipment
 - 41 36 29.13 Gages, Rules, and Blocks
 - 41 36 29.16 Penetrant Measurement and Testing Equipment
 - 41 36 29.19 Laser Measurement and Testing Equipment

- 41 36 29.23 Magnaflux Measurement and Testing Equipment
- 41 36 29.26 Optical Comparators
- 41 36 29.29 Profilometers
- 41 36 29.33 Radiograph Measurement and Testing Equipment
- 41 36 29.36 Surface Tables
- 41 36 29.39 Ultrasonic Measurement and Testing Equipment
- 41 36 29.43 Test Weigh Scales

41 40 00 Container Processing and Packaging

41 41 00 Container Filling and Sealing

- 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

41 42 00 Container Packing Equipment

- 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

41 43 00 Shipping Packaging

- 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

41 50 00 Material Storage

41 51 00 Automatic Material Storage

- 41 51 13 Automatic Storage/Automatic Retrieval Systems

41 52 00 Bulk Material Storage

- 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 Silos
- 41 52 16.16 Concrete Masonry Unit Silos
- 41 52 16.19 Steel Silos

41 52 19	Material Storage Tanks
41 52 19.13	Horizontal Material Storage Tanks
41 52 19.23	Vertical Material Storage Tanks
41 52 19.33	Portable Material Storage Tanks
41 53 00	Storage Equipment and Systems
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
41 60 00	Mobile Plant Equipment
41 61 00	Mobile Earth Moving Equipment
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
41 62 00	Trucks
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
41 63 00	General Vehicles
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
41 64 00	Rail Vehicles
41 64 13	Locomotives
41 64 13.13	Diesel Locomotives
41 64 13.23	Electric Locomotives
41 64 16	Mobile Railcar Movers
41 65 00	Mobile Support Equipment
41 65 13	Mobile Air Compressors
41 65 16	Mobile Generators
41 65 19	Mobile Welders
41 66 00	Miscellaneous Mobile Equipment
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

41 67 00 Plant Maintenance Equipment

- 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

42 00 00 Process Heating, Cooling, and Drying Equipment

42 01 00 Operation and Maintenance of Process Heating, Cooling, and Drying Equipment

- 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

42 06 00 Schedules for Process Heating, Cooling, and Drying Equipment

- 42 06 10 Schedules for Process Heating Equipment
- 42 06 20 Schedules for Process Cooling Equipment
- 42 06 30 Schedules for Process Drying Equipment

42 08 00 Commissioning of Process Heating, Cooling, and Drying Equipment

- 42 08 10 Commissioning of Heating Equipment
- 42 08 20 Commissioning of Cooling Equipment
- 42 08 30 Commissioning of Drying Equipment

42 10 00 Process Heating Equipment

42 11 00 Process Boilers

- 42 11 13 Low-Pressure Process Boilers
- 42 11 16 Intermediate-Pressure Process Boilers
- 42 11 19 High-Pressure Process Boilers
- 42 11 23 Specialty Process Boilers

42 12 00 Process Heaters

- 42 12 13 Electric Process Heaters
- 42 12 16 Fuel-Fired Process Heaters
- 42 12 19 Thermoelectric Process Heaters
- 42 12 23 Solar Process Heaters
- 42 12 26 Specialty Process Heaters

42 13 00 Industrial Heat Exchangers and Recuperators

- 42 13 13 Industrial Gas-to-Gas Heat Exchangers
- 42 13 16 Industrial Liquid-to-Gas/Gas-to-Liquid Heat Exchangers
- 42 13 19 Industrial Liquid-to-Liquid Heat Exchangers
- 42 13 23 Industrial Gas Radiation Heat Exchangers
- 42 13 26 Industrial Solar Radiation Heat Exchangers

42 14 00 Industrial Furnaces

- 42 14 13 Annealing Furnaces
- 42 14 16 Atmosphere Generators
- 42 14 19 Industrial Baking Furnaces
- 42 14 23 Industrial Brazing Furnaces
- 42 14 26 Industrial Calcining Furnaces
- 42 14 29 Industrial Heat-Treating Furnaces
- 42 14 33 Industrial Melting Furnaces
- 42 14 33.13 Ceramics and Glass Melting Furnaces
- 42 14 33.16 Ferrous Melting Furnaces
- 42 14 33.19 Non-Ferrous Melting Furnaces

42 14 36	Primary Refining Furnaces
42 14 43	Reactor Furnaces
42 14 46	Industrial Reheat Furnaces
42 14 53	Industrial Sintering Furnaces
42 14 56	Industrial Vacuum Furnaces
42 15 00	Industrial Ovens
42 15 13	Industrial Drying Ovens
42 15 16	Industrial Curing Ovens
42 15 19	Industrial Specialty Ovens
42 20 00	Process Cooling Equipment
42 21 00	Process Cooling Towers
42 21 13	Open-Circuit Process Cooling Towers
42 21 16	Closed-Circuit Process Cooling Towers
42 22 00	Process Chillers and Coolers
42 22 13	Centrifugal Process Chillers and Coolers
42 22 16	Reciprocating Process Chillers and Coolers
42 22 19	Refrigerant Process Chillers and Coolers
42 22 23	Rotary Process Chillers and Coolers
42 22 26	Thermoelectric Process Chillers and Coolers
42 23 00	Process Condensers and Evaporators
42 23 13	Process Condensers
42 23 16	Process Cooling Evaporators
42 23 19	Process Humidifiers
42 30 00	Process Drying Equipment
42 31 00	Gas Dryers and Dehumidifiers
42 31 13	Drying Evaporators
42 31 16	Desiccant Equipment
42 31 19	Regenerative Dryers
42 31 23	Refrigerant Dryers
42 32 00	Material Dryers
42 32 13	Centrifugal Material Dryers
42 32 16	Conveyor Material Dryers
42 32 19	Flash Material Dryers
42 32 23	Fluid-Bed Material Dryers
42 32 26	Material Roasters
42 32 29	Rotary-Kiln Material Dryers
42 32 33	Spray Material Dryers
42 32 36	Tower Material Dryers
42 32 39	Vacuum Material Dryers
42 32 43	Specialty Material Dryers

- 43 00 00 Process Gas and Liquid Handling, Purification, and Storage Equipment**
- 43 01 00 Operation and Maintenance of Process Gas and Liquid Handling, Purification, and Storage Equipment**
 - 43 01 10 Operation and Maintenance of Gas Handling Equipment
 - 43 01 10.13 Gas Blowers Maintenance and Rehabilitation
 - 43 01 10.16 Gas Compressors Maintenance and Rehabilitation
 - 43 01 20 Operation and Maintenance of Liquid Handling Equipment
 - 43 01 20.13 Liquid Pumps Maintenance and Rehabilitation
 - 43 01 20.16 Liquid Process Equipment Maintenance and Rehabilitation
 - 43 01 30 Operation and Maintenance of Gas and Liquid Hi-Purification Equipment
 - 43 01 40 Operation and Maintenance of Gas and Liquid Storage
 - 43 01 40.13 Non-pressurized Tanks Cleaning, Maintenance, and Rehabilitation
 - 43 01 40.16 Pressurized Tanks Cleaning, Maintenance, and Rehabilitation
- 43 05 00 Common Work Results for Process Gas and Liquid Handling, Purification, and Storage Equipment**
 - 43 05 10 Common Work Results for Gas Handling Equipment
 - 43 05 20 Common Work Results for Liquid Handling Equipment
 - 43 05 30 Common Work Results for Gas and Liquid Hi-Purification Equipment
 - 43 05 40 Common Work Results for Gas and Liquid Storage
- 43 06 00 Schedules for Process Gas and Liquid Handling, Purification, and Storage Equipment**
 - 43 06 10 Schedules for Gas Handling Equipment
 - 43 06 20 Schedules for Liquid Handling Equipment
 - 43 06 30 Schedules for Gas and Liquid Hi-Purification Equipment
 - 43 06 40 Schedules for Gas and Liquid Storage
- 43 08 00 Commissioning of Process Gas and Liquid Handling, Purification, and Storage Equipment**
 - 43 08 10 Commissioning of Gas Handling Equipment
 - 43 08 20 Commissioning of Liquid Handling Equipment
 - 43 08 30 Commissioning of Gas and Liquid Purification Equipment
 - 43 08 40 Commissioning of Gas and Liquid Storage
- 43 10 00 Gas Handling Equipment**
- 43 11 00 Gas Fans, Blowers, Pumps and Boosters**
 - 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
43 12 00	Gas Compressors
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
43 13 00	Gas Process Equipment
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
43 15 00	Process Air and Gas Filters
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
43 20 00	Liquid Handling Equipment
43 21 00	Liquid Pumps
43 21 13	Centrifugal Liquid Pumps
43 21 16	Diaphragm Liquid Pumps
43 21 19	Dispensing Liquid Pumps
43 21 23	Drum Liquid Pumps
43 21 26	Gear Liquid Pumps
43 21 29	Metering Liquid Pumps
43 21 33	Piston/Plunger Liquid Pumps
43 21 36	Positive Displacement Liquid Pumps

- 43 21 39 Submersible Liquid Pumps
- 43 21 43 Sump Liquid Pumps
- 43 21 46 Vane Liquid Pumps
- 43 22 00 Liquid Process 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 22 33 Liquid Emulsifiers
- 43 22 36 Liquid Evaporators
- 43 22 39 Liquid Feeders
- 43 22 56 Liquid Process Mixers
- 43 22 59 Liquid Process Pressure Regulators
- 43 22 63 Liquid Separation Towers
- 43 22 66 Liquid Weigh Systems
- 43 22 69 Liquid Grease Receiving and Dewatering Systems
- 43 22 73 Liquid Fillers
- 43 22 76 Liquid Screeners
- 43 22 79 Liquid Clarifiers
- 43 22 83 Liquid Classifiers
- 43 22 86 Liquid Homogenizers
- 43 22 89 Liquid Presses
- 43 22 96 Liquid Versators
- 43 22 99 Liquid Votators
- 43 27 00 Process Liquid Filters**
- 43 27 13 Cyclonic Liquid Filters
- 43 27 16 Centrifugal Horizontal Pressure Leaf Liquid Filters
- 43 27 19 Press Liquid Filters
- 43 27 23 Liquid Bag Filters
- 43 27 33 Mechanically Cleaned Liquid Filters
- 43 27 43 Tubular Backwashing Liquid Filters
- 43 27 53 Vacuum Belt Liquid Filters
- 43 27 63 Woven Media Liquid Filters
- 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 27 73 Nonwoven Media Liquid Filters
- 43 27 73.13 Surface Liquid Filters
- 43 27 73.23 Depth Liquid Filters
- 43 30 00 Gas and Liquid Purification Equipment**
- 43 31 00 Gas and Liquid Purification Filtration Equipment**
- 43 31 13 Gas and Liquid Purification Filters
- 43 31 13.13 Activated Carbon-Gas and Liquid Purification Filters
- 43 31 13.16 Gas and Liquid Purification Filter Presses
- 43 31 13.19 High-Purity Cartridge Gas and Liquid Purification Filters
- 43 31 13.23 Membrane Diaphragm Gas and Liquid Purification Filters

- 43 31 13.26 Multimedia Gas and Liquid Purification Filters
- 43 31 13.29 Pretreatment Cartridge Gas and Liquid Purification Filters
- 43 31 13.33 Ultrafilter Units

43 32 00 Gas and Liquid Purification Process Equipment

- 43 32 13 Gas and Liquid Purification Process Beds
- 43 32 13.13 Anion-Gas and Liquid Purification Process Beds
- 43 32 13.16 Cation-Gas and Liquid Purification Process Beds
- 43 32 23 Gas and Liquid Purification Process Clarifier Systems
- 43 32 26 Gas and Liquid Purification Decarbonators
- 43 32 29 Electronic Deionization Purification Units
- 43 32 33 External Regeneration Systems
- 43 32 36 Mixed-Bed Ion-Exchange Vessels
- 43 32 39 Gas and Liquid Purification Mixed Beds
- 43 32 39.13 Externally Regenerable Gas and Liquid Purification Mixed Beds
- 43 32 39.16 In-Situ Regenerable Gas and Liquid Purification Mixed Beds
- 43 32 53 Packed-Bed Ion-Exchange Vessels
- 43 32 56 Reverse-Osmosis Purification Units
- 43 32 59 Gas and Liquid Purification Scrubbers
- 43 32 63 Ultraviolet Sterilizers
- 43 32 66 Vacuum Degasifiers
- 43 32 69 Chemical Feed Systems
- 43 32 73 Ozonation Equipment
- 43 32 76 Chlorination Equipment

43 40 00 Gas and Liquid Storage

43 41 00 Non-pressurized Tanks and Vessels

- 43 41 11 Bolted Steel Tanks
- 43 41 13 Welded Steel Tanks
- 43 41 13.13 Glass-lined Welded Steel Tanks
- 43 41 13.23 Rubber-lined Welded Steel Tanks
- 43 41 13.33 Epoxy-lined Welded Steel Tanks
- 43 41 13.43 Ceramic-lined Welded Steel Tanks
- 43 41 23 Stainless Steel Tanks
- 43 41 26 Aluminum Tanks
- 43 41 31 Metallic Specialty Tanks
- 43 41 41 Polyvinyl Chloride Tanks
- 43 41 43 Polyethylene Tanks
- 43 41 45 Fiberglass Reinforced Plastic Tanks
- 43 41 53 Wood Stave Tanks
- 43 41 63 Precast Concrete Tanks
- 43 41 73 Ceramic Tanks
- 43 41 83 Non-metallic Specialty Tanks

43 42 00 Pressurized Tanks and Vessels

- 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
- 43 42 33 Stainless Steel Pressure Tanks
- 43 42 36 Aluminum Pressure Tanks
- 43 42 41 Metallic Specialty Pressure Tanks

43 42 53 Fiberglass Reinforced Plastic Pressure Tanks
43 42 83 Non-metallic Specialty Pressure Tanks

- 44 00 00 Pollution and Waste Control Equipment**
- 44 01 00 Operation and Maintenance of Pollution and Waste Control Equipment**
 - 44 01 10 Operation and Maintenance of Air Pollution Control
 - 44 01 20 Operation and Maintenance of Noise Pollution Control
 - 44 01 30 Operation and Maintenance of Odor Control Equipment
 - 44 01 40 Operation and Maintenance of Water Pollution Control Equipment
 - 44 01 50 Operation and Maintenance of Solid Waste Control and Reuse
 - 44 01 60 Operation and Maintenance of Waste Thermal Processing Equipment
- 44 05 00 Common Work Results for Pollution and Waste Control Equipment**
- 44 06 00 Schedules for Pollution and Waste Control Equipment**
 - 44 06 10 Schedules for Air Pollution Control
 - 44 06 20 Schedules for Noise Pollution Control
 - 44 06 30 Schedules for Odor Control Equipment
 - 44 06 40 Schedules for Water Pollution Control Equipment
 - 44 06 50 Schedules for Solid Waste Control and Reuse
 - 44 06 60 Schedules for Waste Thermal Processing Equipment
- 44 08 00 Commissioning of Pollution and Waste Control Equipment**
 - 44 08 10 Commissioning of Air Pollution Control
 - 44 08 20 Commissioning of Noise Pollution Control
 - 44 08 30 Commissioning of Odor Control Equipment
 - 44 08 40 Commissioning Water Pollution Control Equipment
 - 44 08 50 Commissioning Solid Waste Control and Reuse
 - 44 08 60 Commissioning of Waste Thermal Processing Equipment
- 44 10 00 Air Pollution Control**
- 44 11 00 Particulate Control Equipment**
 - 44 11 13 Fugitive Dust Control
 - 44 11 16 Fugitive Dust Barrier Systems
 - 44 11 19 Atmospheric Air Quality Monitoring Equipment
 - 44 11 20 Gravitational Separators
 - 44 11 31 Venturi Scrubbing Equipment
 - 44 11 33 Spray Tower/Chamber Scrubbing Equipment
 - 44 11 36 Cyclone Scrubbing Equipment
 - 44 11 51 Pulse Jet Fabric Filtration Equipment
 - 44 11 53 Reverse Flow Fabric Filtration Equipment
 - 44 11 54 Shake/Deflate Fabric Filtration Equipment
 - 44 11 56 Cartridge Filtration Equipment
 - 44 11 59 Disposable Dry Filtration Equipment
 - 44 11 71 Cyclone Dust Collection Equipment
 - 44 11 73 Multicyclone Dust Collection Equipment
 - 44 11 76 Mist Elimination Equipment
 - 44 11 93 Wet Electrostatic Precipitator Equipment

44 11 96	Dry Plate Electrostatic Precipitator Equipment
44 13 00	Gaseous Air Pollution Control Equipment
44 13 11	Spray Tower/Chamber Absorption Equipment
44 13 13	Packed Tower/Chamber Absorption Equipment
44 13 14	Tray Tower Absorption Equipment
44 13 16	Jet Bubbling Reactor Equipment
44 13 17	Venturi Absorption Equipment
44 13 20	Vacuum Extraction Systems
44 13 31	Powdered Injection Adsorption Equipment
44 13 33	Fluidized Bed Adsorption Equipment
44 13 34	Fixed Bed Adsorption Equipment
44 13 36	Rotary Bed Adsorption Equipment
44 13 39	Radial Bed Adsorption Equipment
44 13 51	Thermal Oxidation Equipment
44 13 53	Catalytic Oxidation Equipment
44 13 56	Flare Oxidation Equipment
44 13 59	Claus Sulfur Recovery 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 13 81	Condensation Systems
44 13 83	Contact Condensing Equipment
44 13 86	Solvent Recovery Equipment
44 13 91	Biofilter Media
44 13 93	Fixed Bed Biofilter Equipment
44 13 96	Fixed Bed Biotrickling Filter Equipment
44 13 97	Fixed Bed Bioscrubbing Equipment
44 20 00	Noise Pollution Control
44 21 00	Noise Pollution Control Equipment
44 21 13	Fixed Noise Abatement Barriers
44 21 16	Flexible Noise Abatement Barriers
44 21 19	Portable Noise Abatement Barriers
44 21 23	Noise Pollution Silencers
44 21 26	Frequency Cancellers
44 30 00	Odor Control
44 31 00	Odor Treatment Equipment
44 31 11	Wet Chemical Packed Tower Odor Control Equipment
44 31 13	Chemical Mist System Odor Control Equipment
44 31 16	Activated Carbon Adsorption Odor Control Equipment
44 31 19	Packaged Odor Control Systems
44 31 21	Odor Control Biofilters
44 31 28	Odor Control Biofilter Aeration Floor
44 31 29	Odor Control Biofilter Media
44 31 31	Odor Control Biotrickling Filter Equipment
44 31 33	Odor Control Bioscrubbing Equipment
44 31 41	Odor Control Vapor Combustion Equipment
44 31 83	Adjusting and Balancing Odor Control Systems

- 44 32 00 Odor Dispersing and Masking/Counteracting Equipment**
 - 44 32 13 Odor Dispersing Exhaust Stacks
 - 44 32 13.13 Fan-equipped Odor Dispersing Exhaust Stacks
 - 44 32 23 Odor Masking/Counteracting Equipment
- 44 40 00 Water Pollution Control Equipment**
- 44 41 00 Water Pollution Containment and Cleanup Equipment**
 - 44 41 13 Spill Cleanup
 - 44 41 21 Containment Booms
 - 44 41 23 Marine Spill Accessories
 - 44 41 31 Spill Decks
 - 44 41 32 Drum Containment Units
 - 44 41 33 Containment Pallets
 - 44 41 34 Prefabricated Spill Containment Curbing
 - 44 41 36 Prefabricated Spill Containment Berms
 - 44 41 37 Prefabricated Berms for Tank Containment
 - 44 41 41 Collapsible Storage Tanks
- 44 50 00 Solid Waste Control and Reuse**
- 44 51 00 Solid Waste Collection, Transfer, and Hauling Equipment**
 - 44 51 13 Solid Waste Portable Containers
 - 44 51 16 Solid Waste Stationary Containers
 - 44 51 23 Solid Waste Transfer Trailers
- 44 53 00 Solid Waste Processing Equipment**
 - 44 53 11 Live-floor Storage Bins
 - 44 53 13 Refuse Cranes and Accessories
 - 44 53 16 Solid Waste Screens
 - 44 53 21 Car Crushers
 - 44 53 23 Shears and Guillotines
 - 44 53 26 Shredders and Grinders
 - 44 53 27 Perforators
 - 44 53 31 Bag Breakers
 - 44 53 33 Granulators
 - 44 53 36 Crumb Rubber Systems
 - 44 53 39 Briquetters
 - 44 53 41 Vibratory Table Separation Equipment
 - 44 53 43 Ferrous Metals Separation Equipment
 - 44 53 44 Eddy Current Separators
 - 44 53 46 Single-stream Materials Separation Equipment
 - 44 53 49 Ballistic Separators
 - 44 53 51 Air Classifying Equipment
 - 44 53 52 Air Knives
 - 44 53 53 Optical Sorting Equipment
 - 44 53 56 Packaged Sorting Stations
 - 44 53 59 Packaged Reclaimer Stations
 - 44 53 61 Solid Waste Compactors
 - 44 53 63 Solid Waste Baling Equipment
 - 44 53 64 Bagging Equipment

44 53 66	Wrappers
44 53 73	Solid Waste Liquid Extraction Equipment
44 55 00	Composting Equipment
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
44 55 73	Compost Liquid Extraction Equipment
44 60 00	Waste Thermal Processing Equipment
44 61 00	Waste-to-Energy Plants
44 61 13	Waste Receiving, Management, and Feed Equipment
44 61 16	Mass Burn Combustion Equipment
44 61 23	Refuse-derived Fuel Feed Equipment
44 61 26	Refuse-derived Fuel Combustion Equipment
44 61 29	Modular Combustion System Equipment
44 61 31	Ash Handling Equipment
44 61 33	Post-combustion Ferrous Metals Recovery Equipment
44 61 36	Post-combustion Non-ferrous Metals Recovery Equipment
44 62 00	Fluidized Bed Combustion Equipment
44 63 00	Rotary Kiln Incinerators
44 64 00	Gasification Equipment
44 64 13	Counter-current Fixed Bed Gasification Equipment
44 64 23	Co-current Fixed Bed Gasification Equipment
44 64 33	Fluidized Bed Gasification Equipment
44 64 43	Entrained Flow Gasification Equipment
44 64 53	Plasma Arc Gasification Equipment
44 65 00	Pyrolysis Equipment
44 66 00	Hazardous Waste and Medical Waste Incinerators
44 67 00	Heat Recovery Equipment for Waste Thermal Processing
44 68 00	Synthesis Gas Cleanup and Handling Equipment

- 45 00 00 Industry-Specific Manufacturing Equipment**
- 45 08 00 Commissioning of Industry-Specific Manufacturing Equipment**
- 45 11 00 Oil and Gas Extraction Equipment**
 - 45 11 01 Operation and Maintenance of Oil and Gas Extraction Equipment
 - 45 11 06 Schedules for Oil and Gas Extraction Equipment
 - 45 11 10 thru
 - 45 12 99 User-Defined Oil and Gas Extraction Equipment
- 45 13 00 Mining Machinery and Equipment**
 - 45 13 01 Operation and Maintenance of Mining Machinery and Equipment
 - 45 13 06 Schedules for Mining Machinery and Equipment
 - 45 13 10 thru
 - 45 14 99 User-Defined Mining Machinery and Equipment
- 45 15 00 Food Manufacturing Equipment**
 - 45 15 01 Operation and Maintenance of Food Manufacturing Equipment
 - 45 15 06 Schedules for Food Manufacturing Equipment
 - 45 15 10 thru
 - 45 16 99 User-Defined Food Manufacturing Equipment
- 45 17 00 Beverage and Tobacco Manufacturing Equipment**
 - 45 17 01 Operation and Maintenance of Beverage and Tobacco Manufacturing Equipment
 - 45 17 06 Schedules for Beverage and Tobacco Manufacturing Equipment
 - 45 17 10 thru
 - 45 18 99 User-Defined Beverage and Tobacco Manufacturing Equipment
- 45 19 00 Textiles and Apparel Manufacturing Equipment**
 - 45 19 01 Operation and Maintenance of Textiles and Apparel Manufacturing Equipment
 - 45 19 06 Schedules for Textiles and Apparel Manufacturing Equipment
 - 45 19 10 thru
 - 45 20 99 User-Defined Textiles and Apparel Manufacturing Equipment
- 45 21 00 Leather and Allied Product Manufacturing Equipment**
 - 45 21 01 Operation and Maintenance of Leather and Allied Product Manufacturing Equipment
 - 45 21 06 Schedules for Leather and Allied Product Manufacturing Equipment
 - 45 21 10 thru
 - 45 22 99 User-Defined Leather and Allied Product Manufacturing Equipment
- 45 23 00 Wood Product Manufacturing Equipment**
 - 45 23 01 Operation and Maintenance of Wood Product Manufacturing Equipment
 - 45 23 06 Schedules for Wood Product Manufacturing Equipment
 - 45 23 10 thru
 - 45 24 99 User-Defined Wood Product Manufacturing Equipment
- 45 25 00 Paper Manufacturing Equipment**
 - 45 25 01 Operation and Maintenance of Paper Manufacturing Equipment
 - 45 25 06 Schedules for Paper Manufacturing Equipment
 - 45 25 10 thru

45 26 99	User-Defined Paper Manufacturing Equipment
45 27 00	Printing and Related Manufacturing Equipment
45 27 01	Operation and Maintenance of Printing and Related Manufacturing Equipment
45 27 06	Schedules for Printing and Related Manufacturing Equipment
45 27 10	thru
45 28 99	User-Defined Printing and Related Manufacturing Equipment
45 29 00	Petroleum and Coal Products Manufacturing Equipment
45 29 01	Operation and Maintenance of Petroleum and Coal Products Manufacturing Equipment
45 29 06	Schedules for Petroleum and Coal Products Manufacturing Equipment
45 29 10	thru
45 30 99	User-Defined Petroleum and Coal Products Manufacturing Equipment
45 31 00	Chemical Manufacturing Equipment
45 31 01	Operation and Maintenance of Chemical Manufacturing Equipment
45 31 06	Schedules for Chemical Manufacturing Equipment
45 31 10	thru
45 32 99	User-Defined Chemical Manufacturing Equipment
45 33 00	Plastics and Rubber Manufacturing Equipment
45 33 01	Operation and Maintenance of Plastics and Rubber Manufacturing Equipment
45 33 06	Schedules for Plastics and Rubber Manufacturing Equipment
45 33 10	thru
45 34 99	User-Defined Plastics and Rubber Manufacturing Equipment
45 35 00	Nonmetallic Mineral Product Manufacturing Equipment
45 35 01	Operation and Maintenance of Nonmetallic Mineral Product Manufacturing Equipment
45 35 06	Schedules for Nonmetallic Mineral Product Manufacturing Equipment
45 35 10	thru
45 36 99	User-Defined Nonmetallic Mineral Product Manufacturing Equipment
45 37 00	Primary Metal Manufacturing Equipment
45 37 01	Operation and Maintenance of Primary Metal Manufacturing Equipment
45 37 06	Schedules for Primary Metal Manufacturing Equipment
45 37 10	thru
45 38 99	User-Defined Primary Metal Manufacturing Equipment
45 39 00	Fabricated Metal Product Manufacturing Equipment
45 39 01	Operation and Maintenance of Fabricated Metal Product Manufacturing Equipment
45 39 06	Schedules for Fabricated Metal Product Manufacturing Equipment
45 39 10	thru
45 40 99	User-Defined Fabricated Metal Product Manufacturing Equipment
45 41 00	Machinery Manufacturing Equipment
45 41 01	Operation and Maintenance of Machinery Manufacturing Equipment
45 41 06	Schedules for Machinery Manufacturing Equipment
45 41 10	thru
45 42 99	User-Defined Machinery Manufacturing Equipment

- 45 43 00 Computer and Electronic Product Manufacturing Equipment**
- 45 43 01 Operation and Maintenance of Computer and Electronic Product Manufacturing Equipment
 - 45 43 06 Schedules for Computer and Electronic Product Manufacturing Equipment
 - 45 43 10 thru
 - 45 44 99 User-Defined Computer and Electronic Product Manufacturing Equipment
- 45 45 00 Electrical Equipment, Appliance, and Component Manufacturing Equipment**
- 45 45 01 Operation and Maintenance of Electrical Equipment, Appliance, and Component Manufacturing Equipment
 - 45 45 06 Schedules for Electrical Equipment, Appliance, and Component Manufacturing Equipment
 - 45 45 10 thru
 - 45 46 99 User-Defined Electrical Equipment, Appliance, and Component Manufacturing Equipment
- 45 47 00 Transportation Manufacturing Equipment**
- 45 47 01 Operation and Maintenance of Transportation Manufacturing Equipment
 - 45 47 06 Schedules for Transportation Manufacturing Equipment
 - 45 47 10 thru
 - 45 48 99 User-Defined Transportation Manufacturing Equipment
- 45 49 00 Furniture and Related Product Manufacturing Equipment**
- 45 49 01 Operation and Maintenance of Furniture and Related Product Manufacturing Equipment
 - 45 49 06 Schedules for Furniture and Related Product Manufacturing Equipment
 - 45 49 10 thru
 - 45 50 99 User-Defined Furniture and Related Product Manufacturing Equipment
- 45 51 00 Other Manufacturing Equipment**
- 45 51 01 Operation and Maintenance of Other Manufacturing Equipment
 - 45 51 06 Schedules for Other Manufacturing Equipment
 - 45 51 10 thru
 - 45 52 99 User-Defined Other Manufacturing Equipment

46 00 00	Water and Wastewater Equipment
46 01 00	Operation and Maintenance of Water and Wastewater Equipment
46 01 07	Operation and Maintenance of Packaged Treatment Equipment
46 01 20	Operation and Maintenance of Preliminary Treatment Equipment
46 01 30	Operation and Maintenance of Chemical Feed Equipment
46 01 40	Operation and Maintenance of Clarification and Mixing Equipment
46 01 50	Operation and Maintenance of Secondary Treatment Equipment
46 01 60	Operation and Maintenance of Advanced Treatment Equipment
46 01 70	Operation and Maintenance of Residuals Handling and Treatment
46 05 00	Common Work Results for Water and Wastewater Equipment
46 06 00	Schedules for Water and Wastewater Equipment
46 06 07	Schedules for Packaged Treatment Equipment
46 06 20	Schedules for Preliminary Treatment Equipment
46 06 30	Schedules for Chemical Feed Equipment
46 06 40	Schedules for Clarification and Mixing Equipment
46 06 50	Schedules for Secondary Treatment Equipment
46 06 60	Schedules for Advanced Treatment Equipment
46 06 70	Schedules for Residuals Handling and Treatment
46 07 00	Packaged Water and Wastewater Treatment Equipment
46 07 13	Packaged Water Treatment Equipment
46 07 53	Packaged Wastewater Treatment Equipment
46 08 00	Commissioning of Water and Wastewater Equipment
46 08 07	Commissioning of Packaged Treatment Equipment
46 08 20	Commissioning of Preliminary Treatment Equipment
46 08 30	Commissioning of Chemical Feed Equipment
46 08 40	Commissioning of Clarification and Mixing Equipment
46 08 50	Commissioning of Secondary Treatment Equipment
46 08 60	Commissioning of Advanced Treatment Equipment
46 08 70	Commissioning of Residuals Handling and Treatment
46 20 00	Water and Wastewater Preliminary Treatment Equipment
46 21 00	Screening Equipment
46 21 11	Climber-type Bar Screens
46 21 13	Chain-and-Rake Bar Screens
46 21 16	Flexible Rake Bar Screens
46 21 17	Catenary Bar Screens
46 21 19	Continuous Belt Screens
46 21 23	Cylindrical Bar Screens
46 21 26	Step Screens
46 21 33	Rotary Drum Screens
46 21 39	Spiral Screens
46 21 43	Band Screens
46 21 46	Disc Screens

46 21 51	Traveling Water Screens
46 21 53	Perforated Plate Screens
46 21 56	Wedge Wire Screens
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
46 23 00	Grit Removal and Handling Equipment
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 23 66	Grit Storage Containers
46 24 00	Grinding and Shredding Equipment
46 24 13	Macerators
46 24 16	Comminutors
46 24 23	Inline Grinders
46 24 33	Open-channel Grinders
46 24 36	Modular Grinding-Screening-Compacting Equipment
46 25 00	Oil and Grease Separation and Removal Equipment
46 25 13	Coalescing Oil-Water Separators
46 25 16	API Oil-Water Separators
46 25 23	Grease Traps
46 25 33	Dissolved Air Flotation Grease and Oil Separation Equipment
46 25 41	Helical Scum Skimming and Removal Equipment
46 25 43	Tipping Trough Scum Skimming and Removal Equipment
46 25 46	Chain and Flight Scum Collection and Removal Equipment
46 25 47	Floating Scum Skimming and Removal Equipment
46 30 00	Water and Wastewater Chemical Feed Equipment
46 31 00	Gas Chemical Feed Equipment
46 31 11	Chlorine Gas Feed Equipment
46 31 13	Sulfur Dioxide Gas Feed Equipment
46 31 16	Ammonia Gas Feed Equipment
46 31 23	Gas Storage, Weighing, and Leak Detection Equipment
46 31 26	Emergency Gas Treatment Systems
46 31 33	Chlorine Dioxide Reactors
46 31 43	Carbon Dioxide Gas Feed Equipment
46 31 53	Ozone Generating and Feed Equipment
46 31 56	Liquid Oxygen Storage and Feed Equipment
46 31 59	Cleaning Requirements for Oxygen Service
46 31 83	Gas Chemical Feed Accessories and Safety Equipment

- 46 33 00 Liquid Chemical Feed Equipment**
 - 46 33 13 Sodium Hypochlorite Generating Equipment
 - 46 33 23 Liquid Chemical Weighing Equipment
 - 46 33 33 Polymer Blending and Feed Equipment
 - 46 33 41 Liquid Chemical Feed System Coordination and Integration
 - 46 33 42 Diaphragm-type Metering Pumps
 - 46 33 44 Peristaltic Metering Pumps
 - 46 33 46 Progressing Cavity Metering Pumps
 - 46 33 48 Lobe Metering Pumps
 - 46 33 53 Drum Pumps
 - 46 33 66 Liquid Chemical Transfer Pumps
 - 46 33 73 Liquid Chemical Diffusers
 - 46 33 83 Liquid Chemical Feed Accessories and Safety Equipment
- 46 36 00 Dry Chemical Feed Equipment**
 - 46 36 11 Dry Chemical Feed System Coordination and Integration
 - 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 36 43 Lime Slaking Equipment
 - 46 36 53 Chemical Tablet Feeding Equipment
 - 46 36 83 Dry Chemical Feed Accessories and Safety Equipment
- 46 40 00 Water and Wastewater Clarification and
Mixing Equipment**
- 46 41 00 Mixing Equipment**
 - 46 41 11 Rapid Mixers
 - 46 41 13 Inline Blender-type Rapid Mixers
 - 46 41 16 Induction-type Rapid Mixing Equipment
 - 46 41 17 Inline Static Mixers
 - 46 41 21 Jet Mixing Equipment
 - 46 41 23 Submersible Mixers
 - 46 41 26 Floating Mechanical Mixers
 - 46 41 27 Paddle Mixers
 - 46 41 29 Pin Mixers
 - 46 41 31 Vertical Reel Flocculation Equipment
 - 46 41 33 Horizontal Reel Flocculation Equipment
 - 46 41 34 Vertical Turbine Flocculation Equipment
 - 46 41 36 Walking-beam Flocculation Equipment
 - 46 41 38 Horizontal Oscillating Flocculation Equipment
 - 46 41 41 Top-entering Tank Mixers
 - 46 41 43 Side-entry Tank Mixers
 - 46 41 46 Portable Tank Mixers
- 46 43 00 Clarifier Equipment**
 - 46 43 11 Chain-and-Flight Clarifier Equipment
 - 46 43 14 Traveling Bridge Clarifier Equipment
 - 46 43 16 Differential Head Clarifier Equipment
 - 46 43 18 Oscillating Scraper-type Clarifier Equipment
 - 46 43 21 Circular Clarifier Equipment

46 43 53	Solids Contact Clarifier Equipment
46 43 61	Flocculating Clarifier, Pulsating Sludge Blanket Type
46 43 63	Dissolved Air Flotation Equipment for Water Treatment
46 43 66	Ballasted High-rate Clarifier Equipment
46 43 67	High rate Clarification/Thickening Equipment
46 43 73	Tube Settlers
46 43 76	Inclined Plate Settlers
46 46 00	Sediment Removal Equipment
46 46 13	Tipping Sediment Flushing Tanks
46 46 16	Flushing Gates
46 46 23	Water Cannon
46 46 26	Nozzle Systems
46 50 00	Water and Wastewater Secondary Treatment Equipment
46 51 00	Air and Gas Diffusion Equipment
46 51 11	Fixed Mechanical Aerators
46 51 13	Floating Mechanical Aerators
46 51 16	Submersible Aspirating Aerator Equipment
46 51 17	Jet Aeration Equipment
46 51 21	Coarse Bubble Diffusers
46 51 23	Swing-type Channel Aeration Equipment
46 51 26	Shear Box Diffusers
46 51 31	Flexible Membrane Tube Diffusers
46 51 33	Flexible Membrane Disc Diffusers
46 51 36	Ceramic Disc Fine Bubble Diffusers
46 51 43	Floating Membrane Diffusers
46 51 46	Membrane Diffusers
46 51 53	Cascading Aerators
46 51 63	Pure-oxygen Generating Equipment
46 53 00	Biological Treatment Systems
46 53 13	Rotating Biological Contactors
46 53 23	Trickling Filter Rotary Distributor Equipment
46 53 24	Trickling Filter Media
46 53 26	Bio-towers
46 53 33	Moving-bed Biological Reactors
46 53 36	Integrated Fixed-film Activated Sludge Equipment
46 53 41	Intermittent Sand Filters for Wastewater Treatment
46 53 43	Deep-bed Denitrification Filters
46 53 46	Biologically Activated Filters
46 53 49	Membrane Biological Reactors
46 53 53	Sequencing Batch Reactors
46 53 61	Oxidation Ditch Equipment
46 53 63	Vertical Loop Reactors
46 60 00	Water and Wastewater Advanced Treatment Equipment
46 61 00	Filtration Equipment
46 61 13	Filter Media

46 61 16	Filter Surface Wash Agitators
46 61 17	Filter Air Scour 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 61 43	Rotary Drum Cloth Filters
46 61 46	Automatic Backwash Cloth Filter Equipment
46 61 53	Cartridge Filters
46 61 63	Bag Filters
46 61 73	Automatic Straining Equipment
46 63 00	Demineralization Equipment
46 63 11	Ion-exchange Vessel Media
46 63 13	Mixed Bed Ion-exchange Vessel Systems
46 63 16	Packed Bed Ion-exchange Vessel Systems
46 63 17	Electrodialysis Reversal Equipment
46 63 23	Reverse Osmosis and Nanofiltration Membrane Equipment
46 63 31	Multiple-effect Distillation Equipment
46 63 33	Desalination Mechanical Vapor Compression Equipment
46 63 34	Desalination Thermal Vapor Compression Equipment
46 63 36	Desalination Multi-stage Flash Equipment
46 63 41	Desalination Falling Film Evaporators
46 63 43	Desalination Rising Film Evaporators
46 63 53	Desalination Forced-circulation Crystallizing Equipment
46 63 63	Desalination Spray Dry Evaporation Equipment
46 63 73	Demineralization Energy Recovery Equipment
46 66 00	Ultraviolet Equipment
46 66 13	Closed-vessel Low-pressure/Low-intensity Ultraviolet Treatment Equipment
46 66 16	Closed-vessel Low-pressure/High-intensity Ultraviolet Treatment Equipment
46 66 23	Closed-vessel Medium-pressure Ultraviolet Treatment Equipment
46 66 53	Open-channel Low-pressure/Low-intensity Ultraviolet Treatment Equipment
46 66 56	Open-channel Low-pressure/High-intensity Ultraviolet Treatment Equipment
46 66 63	Open-channel Medium-pressure Ultraviolet Treatment Equipment
46 70 00	Water and Wastewater Residuals Handling and Treatment
46 71 00	Residuals Thickening Equipment
46 71 13	Circular Gravity Thickeners
46 71 16	Gravity Belt Thickeners
46 71 23	Dissolved Air Flotation Thickening Equipment
46 71 33	Rotary Drum Thickening Equipment
46 71 36	Centrifuge Thickening Equipment
46 71 43	Disc Thickeners

46 71 46	Thickening Screw Press
46 71 53	Scum Concentrator Equipment
46 73 00	Residuals Stabilization
46 73 11	Radial Beam Fixed Digester Covers
46 73 12	Dual Deck Truss-type Fixed Digester Covers
46 73 14	Radial Beam Floating Digester Covers
46 73 16	Dual Deck Truss-type Floating Digester Covers
46 73 17	Radial Beam Floating Gas-holding Digester Covers
46 73 18	Dual Deck Truss-type Floating Gas-holding Digester Covers
46 73 19	Digester Appurtenances
46 73 21	Aerobic Digester Aeration Equipment
46 73 24	Autothermal Thermophilic Aerobic Digestion Equipment
46 73 26	Egg-shaped Digesters
46 73 31	External Draft Tube Digester Mixing System
46 73 32	Internal Draft Tube Digester Mixing System
46 73 33	Confined Gas Mixing System
46 73 34	Unconfined Gas Mixing System
46 73 41	Digester Heating Equipment
46 73 63	Residuals Pasteurization Equipment
46 76 00	Residuals Dewatering Equipment
46 76 13	Vacuum Filters
46 76 21	Belt Filter Presses
46 76 23	Plate-and-Frame Filter Presses
46 76 26	Rotary Presses
46 76 27	Screw Presses
46 76 33	Dewatering Centrifuges
46 76 53	Belt Dryers
46 76 60	Direct-heat Residuals Drying Equipment
46 76 70	Indirect-heat Residuals Drying Equipment
46 78 00	Thermal Treatment of Residuals
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
46 78 73	Thermal Oxidation Equipment

48 00 00	Electrical Power Generation
48 01 00	Operation and Maintenance for Electrical Power Generation
48 01 10	Operation and Maintenance of Electrical Power Generation Equipment
48 01 70	Operation and Maintenance of Electrical Power Generation Testing
48 05 00	Common Work Results for Electrical Power Generation
48 06 00	Schedules for Electrical Power Generation
48 06 10	Schedules for Electrical Power Generation Equipment
48 06 70	Schedules for Electrical Power Generation Testing
48 08 00	Commissioning of Electrical Power Generation
48 09 00	Instrumentation and Control for Electrical Power Generation
48 10 00	Electrical Power Generation Equipment
48 11 00	Fossil Fuel Plant Electrical Power Generation Equipment
48 11 13	Fossil Fuel Electrical Power Plant Boilers
48 11 16	Fossil Fuel Electrical Power Plant Condensers
48 11 19	Fossil Fuel Electrical Power Plant Steam Turbines
48 11 23	Fossil Fuel Electrical Power Plant Gas Turbines
48 11 26	Fossil Fuel Electrical Power Plant Generators
48 12 00	Nuclear Fuel Plant Electrical Power Generation Equipment
48 12 13	Nuclear Fuel Reactors
48 12 13.13	Nuclear Fuel Fission Reactors
48 12 13.16	Nuclear Fuel Fusion Reactors
48 12 23	Nuclear Fuel Electrical Power Plant Steam Generators
48 12 26	Nuclear Fuel Electrical Power Plant Condensers
48 12 29	Nuclear Fuel Electrical Power Plant Turbines
48 12 33	Nuclear Fuel Electrical Power Generators
48 13 00	Hydroelectric Plant Electrical Power Generation Equipment
48 13 13	Hydroelectric Power Plant Water Turbines
48 13 16	Hydroelectric Power Plant Electrical Power Generators
48 14 00	Solar Energy Electrical Power Generation Equipment
48 14 13	Solar Energy Collectors
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
48 15 00	Wind Energy Electrical Power Generation Equipment
48 15 13	Windmills
48 15 16	Wind Energy Electrical Power Generators
48 16 00	Geothermal Energy Electrical Power Generation Equipment
48 16 13	Geothermal Energy Heat Pumps

48 16 16	Geothermal Energy Condensers
48 16 19	Geothermal Energy Steam Turbines
48 16 23	Geothermal Energy Electrical Power Generators
48 17 00	Electrochemical Energy Electrical Power Generation Equipment
48 17 13	Electrical Power Generation Batteries
48 18 00	Fuel Cell Electrical Power Generation Equipment
48 18 13	Electrical Power Generation Fuel Cells
48 18 16	Hydrogen Control Equipment
48 19 00	Electrical Power Control Equipment
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
48 70 00	Electrical Power Generation Testing
48 71 00	Electrical Power Generation Test Equipment
48 71 13	Electrical Power Generation Corona Test Equipment
48 71 16	Electrical Power Generation Current Test Equipment
48 71 19	Electrical Power Generation Power Test Equipment
48 71 23	Electrical Power Generation Resistance Test Equipment
48 71 26	Electrical Power Generation Voltage Test Equipment