

Section No.	Section Title	Issue Date	Section Description
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DIVISION 00 - PROCUREMENT AND CONTRACTING REQUIREMENTS

000101	Project Title Page	03/17	Project Manual title page.
000107	Seals Page	02/12	For seals of design professionals on Project Manual.
000115	List of Drawing Sheets	08/10	List of Drawings.
000120	List of Schedules	08/10	For a list of separately bound schedules.
001113	Advertisement for Bids	08/10	For use on public projects.
001115	Advertisement for Prequalification of Bidders	08/10	For use on public projects.
001116	Invitation to Bid	08/10	For use on private projects.
001153	Request for Qualifications	02/12	For use on public projects.
002113	Instructions to Bidders	08/10	Incorporates AIA A701 by reference.
002213	Supplementary Instructions to Bidders	08/10	For use with AIA A701.
002513	Prebid Meetings	08/10	Sets date, time, place, and terms for prebid meetings.
002600	Procurement Substitution Procedures	08/10	Substitution procedures during bidding.
003113	Preliminary Schedules	09/16	Preliminary schedules.
003119	Existing Condition Information	08/10	References documents for survey and as-built information.
003126	Existing Hazardous Material Information	08/10	References documents for existing hazardous materials.
003132	Geotechnical Data	06/17	References documents for geotechnical data.
003143	Permit Application	08/10	Indicates responsibility for building permit application.
U 004113	Bid Form - Stipulated Sum (Single-Prime Contract)	12/17	Fixed price, single prime.
U 004116	Bid Form - Stipulated Sum (Multiple-Prime Contract)	12/17	Fixed price, multiple prime.
U 004123	Bid Form - Construction Management (Single-Prime Contract)	12/17	Fixed price, construction management, single prime.
U 004126	Bid Form - Construction Management (Multiple-Prime Contract)	12/17	Fixed price, construction management, multiple prime.
U 004133	Bid Form - Cost-Plus-Fee (Single-Prime Contract)	12/17	Cost plus, with or without guaranteed maximum.
U 004313	Bid Security Forms	12/17	References AIA A310.
U 004321	Allowance Form	12/17	Attachment for Bid Form.
U 004322	Unit Prices Form	12/17	Attachment for Bid Form.
U 004323	Alternates Form	12/17	Attachment for Bid Form.
U 004373	Proposed Schedule of Values Form	12/17	Attachment for Bid Form.
004393	Bid Submittal Checklist	02/12	Attachment for Bid Form.
005100	Notice of Award	02/12	For notifying successful bidder.
U 006000	Project Forms	12/17	References Agreement, General Conditions, and administrative forms.
009113	Addenda	02/12	For notifying bidders of changes.

DIVISION 01 - GENERAL REQUIREMENTS

010000	General Requirements	09/15	Evaluations: Role of Division 1 Sections, their preparation and coordination.
011000	Summary	09/15	Summary of the Work, phased construction, purchase contracts, Owner-furnished products, access to site, and work restrictions.
011200	Multiple Contract Summary	09/15	Responsibilities of each contract for the Work, coordination, and temporary facilities and controls.
012100	Allowances	09/15	Provisions for cash allowances including lump-sum, unit cost, contingency, and testing and inspecting allowances.

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Section No.	Section Title	Issue Date	Section Description
012200	Unit Prices	09/15	Provisions for unit prices.
012300	Alternates	09/15	Provisions for change-of-scope and cost-comparison type alternates.
012500	Substitution Procedures	09/15	Procedural requirements for requests for substitutions during construction.
012600	Contract Modification Procedures	09/15	Procedural requirements for changes to the Contract.
012900	Payment Procedures	09/15	Administrative requirements for Contractor's Applications for Payment.
013100	Project Management and Coordination	09/15	Administrative requirements for project meetings; preconstruction, preinstallation, and project closeout conferences; RFIs; and project Web sites.
013200	Construction Progress Documentation	09/15	Contractor's Construction Schedule including Gantt charts and CPM schedules; and web-based project software.
013233	Photographic Documentation	09/15	Construction photographs, video recordings, and web-based photographic documentation.
013300	Submittal Procedures	09/15	Procedures for Action and Informational Submittals including Delegated-Design Submittals and Submittals Schedule.
013516	Alteration Project Procedures	06/13	General protection and work procedures for remodeling, renovation, repair, and maintenance work.
014000	Quality Requirements	09/15	Quality-assurance and -control requirements, special tests and inspections, and Contractor's quality-control plan.
014200	References	03/17	Common definitions and terms; and acronyms and trade names of associations, government agencies, and other entities referenced in MasterSpec.
015000	Temporary Facilities and Controls	09/17	Temporary utilities and facilities for construction support, security, and protection.
016000	Product Requirements	09/15	Administrative and procedural requirements for product, material, and equipment selection and handling; warranties; and comparable products.
017300	Execution	09/15	General requirements for product installation, cutting and patching, protection, field engineering, and progress cleaning.
017419	Construction Waste Management and Disposal	09/16	Salvaging, recycling, and disposing of non-hazardous demolition and construction waste.
017700	Closeout Procedures	03/17	Contract closeout including Substantial Completion and Final Completion procedures, warranties, and final cleaning.
017823	Operation and Maintenance Data	09/15	Emergency, operation, and maintenance manuals for products and equipment.
017839	Project Record Documents	09/15	Record record Drawings, Specifications, and Product Data.
017900	Demonstration and Training	09/15	Administrative and procedural requirements for instructing Owner's personnel in operation and maintenance.
018113.13	Sustainable Design Requirements - LEED 2009 for New Construction and Major Renovations	03/17	General requirements and procedures for LEED 2009 for New Construction and Major Renovations.
018113.14	Sustainable Design Requirements - LEED v4 BD+C	03/17	General requirements and procedures for LEED v4 BD+C.
018113.16	Sustainable Design Requirements - LEED 2009 for Commercial Interiors	03/17	General requirements and procedures for LEED 2009 for Commercial Interiors.
018113.17	Sustainable Design Requirements - LEED v4 ID+C	03/17	General requirements and procedures for LEED v4 ID+C.
018113.19	Sustainable Design Requirements - LEED 2009 for Core and Shell Development	03/17	General requirements and procedures for LEED 2009 for Core and Shell Development.
018113.23	Sustainable Design Requirements - LEED 2009 for Schools	03/17	General requirements and procedures for LEED 2009 for Schools.

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018113.33	Sustainable Design Requirements - IgCC	06/14	General requirements and procedures for IgCC.
018113.43	Sustainable Design Requirements - ASHRAE 189.1	06/14	General requirements and procedures for ASHRAE 189.1.
018113.53	Sustainable Design Requirements - Green Globes	06/14	General requirements and procedures for Green Globes.

DIVISION 02 - EXISTING CONDITIONS

024116	Structure Demolition	12/13	Demolition of existing buildings, structures, and associated site improvements.
024119	Selective Demolition	06/14	Demolition of selected portions of existing buildings, structures, and associated site improvements.

DIVISION 03 - CONCRETE

033000	Cast-In-Place Concrete	06/17	General building and structural applications; concrete mixtures, formwork, reinforcing, finishing, and curing.
U 033053	Miscellaneous Cast-In-Place Concrete	12/17	Cast-in-place concrete for limited applications.

DIVISION 05 - METALS

U 055000	Metal Fabrications	12/17	Metal items (not sheet metal) made from iron and steel shapes, stainless steel, and non-ferrous metals.
055313	Bar Gratings	06/14	Metal bar gratings and frames.
055316	Plank Gratings	06/14	Metal plank gratings and frames.
055319	Expanded Metal Gratings	06/14	Expanded metal gratings and frames.
057100	Decorative Metal Stairs	03/17	Architectural steel stairs.

DIVISION 06 - WOOD, PLASTICS, AND COMPOSITES

061000	Rough Carpentry	12/16	Wood framing, furring, frounds, nailers, and blocking.
061053	Miscellaneous Rough Carpentry	03/17	Minor wood framing, furring, grounds, nailers, and blocking.
067413	Fiberglass Reinforced Gratings	02/12	Fiberglass bar gratings and frames.

DIVISION 07 - THERMAL AND MOISTURE PROTECTION

076200	Sheet Metal Flashing and Trim	09/14	Custom-fabricated roof and wall flashings and roof-drainage systems, and manufactured through-wall flashing and reglets.
U 077200	Roof Accessories	12/17	Roof curbs, equipment supports, roof hatches, heat and smoke vents, gravity ventilators, pipe supports, roof walkways, and preformed flashing sleeves.
078413	Penetration Firestopping	06/14	Systems installed in fire-resistance-rated walls, horizontal assemblies, and smoke barriers.
079200	Joint Sealants	06/14	Elastomeric joint sealants including, silicone, urethane, STPE, polysulfide, butyl, and latex.

DIVISION 08 - OPENINGS

U 083113	Access Doors and Frames	12/17	Wall and ceiling units.
083113.53	Security Access Doors and Frames	03/14	Medium-, high-, and maximum-security units for walls and ceilings.
083473.13	Metal Sound Control Door Assemblies	11/11	Assemblies consisting of steel doors, steel frames, and sound control seals.

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Section No.	Section Title	Issue Date	Section Description
083473.16	Wood Sound Control Door Assemblies	06/14	Assemblies consisting of wood doors, steel frames, and sound control seals.
089116	Operable Wall Louvers	09/16	Operable (adjustable) metal louvers including those with insulated blades.
089119	Fixed Louvers	09/16	Fixed metal louvers.

DIVISION 09 - FINISHES

099113	Exterior Painting	06/17	Exterior painting.
099123	Interior Painting	03/17	Interior painting.
099600	High-Performance Coatings	09/14	Tile-like coatings for use on exterior and interior substrates.
099633	High-Temperature-Resistant Coatings	06/14	Heat-resistant coatings for use on exterior and interior substrates.

DIVISION 10 - SPECIALTIES

104413	Fire Protection Cabinets	06/17	Fire-protection cabinets and security fire-protection cabinets.
104416	Fire Extinguishers	06/17	Portable and wheeled fire extinguishers.

DIVISION 11 - EQUIPMENT

115313	Laboratory Fume Hoods	03/17	Hoods and hood stands, including work tops.
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DIVISION 21 - FIRE SUPPRESSION

210513	Common Motor Requirements for Fire Suppression Equipment	09/16	Universal default values for small and medium, ac motors.
210517	Sleeves and Sleeve Seals for Fire-Suppression Piping	09/16	Sleeves and sleeve seals for piping at floor and wall penetrations.
210518	Escutcheons for Fire-Suppression Piping	09/16	Escutcheons and floor plates for piping at ceiling, floor, and wall penetrations.
210523	General-Duty Valves for Fire Protection Piping	06/12	Valves common to most fire-protection piping.
210529	Hangers and Supports for Fire Suppression Piping and Equipment	03/17	Single and multiple hangers, framing systems, and stands and supports.
210533	Heat Tracing for Fire-Suppression Piping	12/16	Electric cables for freeze protection.
210548	Vibration and Seismic Controls for Fire-Suppression Piping and Equipment	09/11	Vibration isolation devices and seismic restraints.
210548.13	Vibration Controls for Fire-Suppression Piping and Equipment	09/11	Vibration isolation devices.
210553	Identification for Fire-Suppression Piping and Equipment	12/12	Labels, stencils, and tags.
210700	Fire-Suppression Systems Insulation	03/15	Equipment and pipe insulation.
211100	Facility Fire-Suppression Water-Service Piping	09/16	Fire suppression piping and specialties outside the building.
211116	Facility Fire Hydrants	06/12	AWWA and UL listed dry- and wet-barrel fire hydrants.
211119	Fire Department Connections	06/12	Exposed-, flush-, and yard-type fire-department connections.
211200	Fire-Suppression Standpipes	09/16	Piping, specialties, valves, hose valves, and hose stations.
211213	Fire-Suppression Hoses and Nozzles	06/12	Hoses, reels, and racks for rack- and reel-type hose stations; and fire-suppression monitors.
211313	Wet-Pipe Sprinkler Systems	09/16	Piping, specialties, valves, and sprinklers for wet-pipe sprinkler systems.
211316	Dry-Pipe Sprinkler Systems	09/16	Piping, specialties, valves, and sprinklers for dry-pipe and preaction sprinkler systems.

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Section No.	Section Title	Issue Date	Section Description
211339	Foam-Water Systems	12/16	Fixed, low-expansion, AFFF systems for flammable-liquid fires.
212113.13	High-Pressure, Carbon-Dioxide Fire-Extinguishing Systems	09/16	Piping, fittings, and specialties for systems that deliver carbon dioxide for fire extinguishing and suppression.
212113.16	Low-Pressure, Carbon-Dioxide Fire-Extinguishing Systems	09/16	Piping, fittings, and specialties for systems that deliver carbon dioxide for fire extinguishing and suppression.
212200	Clean-Agent Fire-Extinguishing Systems	09/16	Piping, containers, detection and alarms, and controls for clean-agent systems.
213113	Electric-Drive, Centrifugal Fire Pumps	12/16	End-suction, in-line, and split-case fire pumps; accessories, specialties, and flowmeter systems.
213116	Diesel-Drive, Centrifugal Fire Pumps	12/16	End-suction, in-line, and split-case fire pumps; accessories, specialties, and flowmeter systems.
213213	Electric-Drive, Vertical-Turbine Fire Pumps	12/16	Fire pumps, accessories, specialties, and flowmeter systems.
213216	Diesel-Drive, Vertical-Turbine Fire Pumps	12/16	Fire pumps, accessories, specialties, and flowmeter systems.
213413	Pressure-Maintenance Pumps	09/16	Multistage, regenerative turbine, submersible, and vertical-turbine pumps; pump controllers.

DIVISION 22 - PLUMBING

220513	Common Motor Requirements for Plumbing Equipment	09/16	Universal default values for small and medium, ac motors.
220516	Expansion Fittings and Loops for Plumbing Piping	06/13	Expansion joints and expansion-compensation devices for plumbing piping.
220517	Sleeves and Sleeve Seals for Plumbing Piping	09/16	Sleeves and sleeve seals for piping at floor and wall penetrations.
220518	Escutcheons for Plumbing Piping	09/16	Escutcheons and floor plates for piping at ceiling, floor, and wall penetrations.
220519	Meters and Gages for Plumbing Piping	09/15	Temperature, pressure, and flow.
220523.12	Ball Valves for Plumbing Piping	09/17	Ball valves common to multiple systems.
220523.13	Butterfly Valves for Plumbing Piping	09/17	Butterfly valves common to multiple systems.
220523.14	Check Valves for Plumbing Piping	09/17	Check valves common to multiple systems.
220523.15	Gate Valves for Plumbing Piping	09/17	Gate valves common to multiple systems.
220529	Hangers and Supports for Plumbing Piping and Equipment	03/17	Single and multiple hangers, framing systems, and stands and supports.
220533	Heat Tracing for Plumbing Piping	03/10	Electric cables for freeze protection, snow and ice melting, and temperature maintenance.
220548	Vibration and Seismic Controls for Plumbing Piping and Equipment	09/11	Vibration isolation devices and seismic restraints.
220548.13	Vibration Controls for Plumbing Piping and Equipment	09/11	Vibration isolation devices.
220553	Identification for Plumbing Piping and Equipment	03/13	Labels, stencils, and tags.
220716	Plumbing Equipment Insulation	03/15	Insulation materials, jackets, and installation accessories for plumbing equipment.
220719	Plumbing Piping Insulation	03/15	Insulation materials, jackets, and installation accessories for plumbing piping.
221113	Facility Water Distribution Piping	09/17	Utility service, domestic, and fire-protection water, specialties, and valves.
221116	Domestic Water Piping	09/17	Potable-water distribution within the building.
221117	Gray-Water Piping	12/16	Non-potable water piping.
221119	Domestic Water Piping Specialties	09/17	Specialties, valves, and fittings for domestic water piping.
221123.13	Domestic-Water Packaged Booster Pumps	09/17	Water-pressure boosters, simplex and multi-plex; constant- and variable speed pumps.
221123.21	Inline, Domestic-Water Pumps	12/16	In-line separately coupled, close-coupled, centrifugal pumps.

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Section No.	Section Title	Issue Date	Section Description
221216	Facility Elevated, Potable-Water Storage Tanks	12/16	Above-ground water storage.
221219	Facility Ground-Mounted, Potable-Water Storage Tanks	12/16	Surface-mounted water storage.
221313	Facility Sanitary Sewers	06/15	Sanitary sewerage and underground structures outside the building.
221316	Sanitary Waste and Vent Piping	12/16	Soil, waste, and vent piping within the building.
221319	Sanitary Waste Piping Specialties	12/16	Backwater and air admittance valves, cleanouts, sanitary assemblies, FOG systems, and sanitary drainage specialties.
221319.13	Sanitary Drains	09/17	Floor and trench drains, and channel drain systems.
221323	Sanitary Waste Interceptors	12/16	Grease, oil, and sand interceptors for sewerage systems outside the building.
221329	Sanitary Sewerage Pumps	03/17	Effluent pumps; automatic, packaged; basins and covers.
221343	Facility Packaged Sewage Pumping Stations	03/10	Pump, compressor, tank, and controls.
221353	Facility Septic Tanks	03/10	Tank, distribution box, and drainage pipe.
221363	Facility Gray-Water Storage Tanks	03/15	Above-ground gray-water storage.
221413	Facility Storm Drainage Piping	09/16	Stormwater piping within the building.
221423	Storm Drainage Piping Specialties	09/16	Roof drains, cleanouts, trench drains, channel drains, and piping specialties.
221429	Sump Pumps	03/17	Submersible, wet-pit volute, and package drainage-pump units; basins and covers.
221463	Facility Storm-Water Retention Tanks	03/15	Above-ground storm-water storage.
U 221513	General-Service Compressed-Air Piping	12/17	Nonmedical piping, equipment, and accessories.
221519	General-Service Packaged Air Compressors and Receivers	09/11	Nonmedical air compressors, filters, and dryers.
223100	Domestic Water Softeners	09/17	Domestic and general use, not treatment.
223200	Domestic Water Filtration Equipment	09/13	Separators; and bag, cartridge, carbon, sand, and greensand filters.
223300	Electric, Domestic-Water Heaters	12/16	Household and commercial; tankless, instantaneous, and storage types.
223400	Fuel-Fired, Domestic-Water Heaters	03/15	Household and commercial; gas and oil fired; instantaneous and storage types.
223500	Domestic-Water Heat Exchangers	06/16	Steam and hot-water heat exchangers; instantaneous and storage types.
224100	Residential Plumbing Fixtures	03/15	Residential water closets, lavatories, sinks, bathtubs, and shower receptors and basins.
224213.13	Commercial Water Closets	09/17	Commercial water closets, supports, flushometer valves, and supplies.
224213.16	Commercial Urinals	03/15	Commercial urinals, supports, and flushometer valves.
224216.13	Commercial Lavatories	03/17	Commercial lavatories, supports, faucets, traps, and supplies.
224216.16	Commercial Sinks	06/17	Commercial sinks, supports, faucets, traps, and supplies.
224223	Commercial Showers	03/15	Shower receptors, basins, enclosures, faucets, and heads.
224233	Wash Fountains	03/15	Stone, metal, and plastic wash fountains.
224300	Healthcare Plumbing Fixtures	03/15	Plumbing fixtures for healthcare facilities.
U 224500	Emergency Plumbing Fixtures	12/17	Individual and combination emergency eyewash and shower units.
224600	Security Plumbing Fixtures	03/15	Detention facility plumbing fixtures.
224713	Drinking Fountains	03/15	Pedestal, antifreeze pedestal, wheelchair accessible, wall mounted.
224716	Pressure Water Coolers	03/16	Freestanding, wall mounted, and wheelchair accessible.
224723	Remote Water Coolers	03/15	Remote water chillers.

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Section No.	Section Title	Issue Date	Section Description
226113	Compressed-Air Piping for Laboratory and Healthcare Facilities	09/16	Piping for nonmedical laboratory air, medical air, dental air, instrument air, and medical laboratory air.
226119	Compressed-Air Equipment for Laboratory and Healthcare Facilities	09/11	Compressors, filters, and dryers for laboratory and healthcare facilities.
226213	Vacuum Piping for Laboratory and Healthcare Facilities	12/16	Piping for laboratory vacuum, medical surgical vacuum, waste anesthetic gas, dental vacuum, oral evacuation, and healthcare laboratory vacuum.
226219	Vacuum Equipment for Laboratory and Healthcare Facilities	09/11	Vacuum producers and accessories for laboratory and healthcare facilities.
226313	Gas Piping for Laboratory and Healthcare Facilities	06/16	Piping for CO ₂ , helium, NO ₂ , and O ₂ .
226400	Medical Gas Alarms	03/10	Alarms for medical gas systems.
226600	Chemical-Waste Systems for Laboratory and Healthcare Facilities	06/15	Single- and double-wall piping and specialties, neutralization tanks, and leak detection.
226700	Processed Water Systems for Laboratory and Healthcare Facilities	12/16	Pipe, fittings, and specialties for deionized, distilled, and reverse osmosis water.

DIVISION 23 - HEATING, VENTILATING, AND AIR CONDITIONING (HVAC)

230130.52	Existing HVAC Air Distribution System Cleaning	03/16	Cleaning existing HVAC air-distribution equipment, ducts, plenums, air outlets and inlets, and duct accessories.
230513	Common Motor Requirements for HVAC Equipment	09/16	Universal default values for small and medium, ac motors.
230516	Expansion Fittings and Loops for HVAC Piping	06/13	Expansion joints and expansion-compensation devices for HVAC piping.
230517	Sleeves and Sleeve Seals for HVAC Piping	06/16	Sleeves and sleeve seals for piping at floor and wall penetrations.
230518	Escutcheons for HVAC Piping	09/16	Escutcheons and floor plates for piping at ceiling, floor, and wall penetrations.
230519	Meters and Gages for HVAC Piping	09/15	Temperature, pressure, and flow.
230523.11	Globe Valves for HVAC Piping	09/15	Globe valves common to multiple systems.
230523.12	Ball Valves for HVAC Piping	09/17	Ball valves common to multiple systems.
230523.13	Butterfly Valves for HVAC Piping	09/15	Butterfly valves common to multiple systems.
230523.14	Check Valves for HVAC Piping	09/15	Check valves common to multiple systems.
230523.15	Gate Valves for HVAC Piping	09/15	Gate valves common to multiple systems.
230523.16	Plug Valves for HVAC Piping	03/13	Plug valves common to multiple systems.
230529	Hangers and Supports for HVAC Piping and Equipment	03/17	Single and multiple hangers, framing systems, and stands and supports.
230533	Heat Tracing for HVAC Piping	03/10	Electric cables for freeze protection.
230548	Vibration and Seismic Controls for HVAC	09/11	Vibration isolation devices and seismic restraints.
230548.13	Vibration Controls for HVAC	09/11	Vibration isolation devices.
230553	Identification for HVAC Piping and Equipment	03/13	Labels, stencils, and tags.
230566	Antimicrobial Ultraviolet Lamp Systems for HVAC	09/17	Antimicrobial ultraviolet lamp systems for mounting in air-handling units, fan coil units, and packaged unitary HVAC equipment.
230593	Testing, Adjusting, and Balancing for HVAC	06/16	Air distribution and hydronic systems.
230713	Duct Insulation	03/15	Insulation materials, jackets, and installation accessories for HVAC ducts.
230716	HVAC Equipment Insulation	03/15	Insulation materials, jackets, and installation accessories for HVAC equipment.
230719	HVAC Piping Insulation	03/15	Insulation materials, jackets, and installation accessories for HVAC piping.
230923	Direct Digital Control (DDC) System for HVAC	09/16	Direct digital control system for monitoring and controlling HVAC systems.
230923.11	Control Valves	09/17	Control valves and actuators that connect to direct digital control systems.

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Section No.	Section Title	Issue Date	Section Description
230923.12	Control Dampers	12/15	Control dampers and actuators that connect to direct digital control systems.
230923.13	Energy Meters	03/15	Thermal and electric power energy meters that connect to direct digital control systems.
230923.14	Flow Instruments	03/15	Airflow and liquid flow sensors, switches and transmitters, and water meters that connect to direct digital control systems.
230923.16	Gas Instruments	03/15	Carbon dioxide, oxygen, and VOC gas detection instruments and control devices that connect to direct digital control systems.
230923.17	Level Instruments	03/13	Liquid level switches, sensors, and transmitters that connect to direct digital control systems.
230923.18	Leak Detection Instruments	03/13	Leak detection switches (point type) and leak detector switches (cable type) that connect to direct digital control systems.
230923.19	Moisture Instruments	03/13	Humidity and moisture sensors and transmitters that connect to direct digital control systems.
230923.21	Motion Instruments	03/13	PIR, ultrasonic, and dual-technology type motion detection instruments that connect to direct digital control systems.
230923.22	Position Instruments	03/13	Limit switches that connect to direct digital control systems.
230923.23	Pressure Instruments	03/13	Air and liquid pressure sensors, switches, and transmitters that connect to direct digital control systems.
230923.24	Speed Instruments	03/13	Speed switches that connect to direct digital control systems.
230923.27	Temperature Instruments	03/13	Air, liquid, and steam temperature sensors, switches, transmitters and thermostats that connect to direct digital control systems.
230923.33	Vibration Instruments	03/13	Vibration switches that connect to direct digital control systems.
230923.43	Weather Stations	03/13	Weather stations that connect to direct digital control systems.
230993.11	Sequence of Operations for HVAC DDC	03/13	Direct digital control sequences for HVAC systems.
231113	Facility Fuel-Oil Piping	09/16	Fuel-oil piping, valves, specialties; leak-detection and monitoring systems for No. 2 fuel oil.
231123	Facility Natural-Gas Piping	09/16	Natural gas piping and specialties.
231126	Facility Liquefied-Petroleum Gas Piping	12/16	LP gas piping, specialties, and storage equipment.
231213	Facility Fuel-Oil Pumps	03/13	Simplex, duplex, and triplex transfer pumps; submersible storage tank pumps; and fuel-oil maintenance systems.
231313	Facility Underground Fuel-Oil Storage Tanks	12/16	Steel and FRP UST; accessories; liquid-level gage system; and leak-detection systems.
231323	Facility Aboveground Fuel-Oil Storage Tanks	12/16	Vertical, horizontal, containment-dike, insulated, and concrete vaulted steel AST.
232113	Hydronic Piping	06/17	Pipes, tubes, and fittings for heating and cooling water piping.
232113.13	Underground Hydronic Piping	09/16	Underground piping outside the building.
232113.33	Ground-Loop Heat-Pump Piping	03/11	Horizontal and vertical, direct-buried, ground-loop piping.
232116	Hydronic Piping Specialties	09/17	Specialties and special-duty valves for heating and cooling water piping.
232123	Hydronic Pumps	03/16	Base mounted and in-line; close coupled and separately coupled.
232213	Steam and Condensate Heating Piping	03/16	Pipes, tubes, and fittings for LP and HP steam piping.
232216	Steam and Condensate Heating Piping Specialties	06/16	Specialties and special-duty valves for LP and HP steam piping.

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232223	Steam Condensate Pumps	03/16	Electric driven and pressure powered; single and duplex pumps with receivers.
232300	Refrigerant Piping	12/16	Piping, specialties, and refrigerant.
232500	HVAC Water Treatment	06/13	Auto and manual systems for hydronic systems and steam feedwater systems.
232513	Water Treatment for Closed-Loop Hydronic Systems	03/13	Auto and manual systems for closed-loop hydronic systems.
232516	Water Treatment for Open-Loop Hydronic Systems	03/13	Auto and manual systems for open-loop hydronic systems.
232519	Water Treatment for Steam System Feedwater	03/13	Auto and manual systems for steam feedwater systems.
232523	Water Treatment for Humidification Steam System Feedwater	03/13	Automatic systems for humidification steam feedwater systems.
232533	HVAC Makeup-Water Filtration Equipment	03/13	Water filtration systems for HVAC makeup water systems.
233113	Metal Ducts	09/17	Rectangular and round, single- and double-wall ducts, including hangers and supports.
233116	Nonmetal Ducts	06/17	Fibrous-glass, PVC, and FRP ducts, hangers, and supports. Does not include fabric.
233300	Air Duct Accessories	09/16	Volume dampers, fire and smoke dampers, vanes, duct silencers, and hardware.
233346	Flexible Ducts	12/16	Non-insulated and insulated flexible ducts and flexible duct connectors.
233413	Axial HVAC Fans	09/17	Tubeaxial and vaneaxial fans.
233416	Centrifugal HVAC Fans	03/13	BI & FC indoor type; tubular and in-line units.
233423	HVAC Power Ventilators	03/13	Roof, wall, and ceiling-mounting ventilators.
N 233433.13	Commercial Air Curtains	12/17	Commercial air curtain fans over entranceways, with and without heating.
N 233433.16	Industrial Air Curtains	12/17	Industrial air curtain fans over entranceways, with and without heating.
233439	High-Volume, Low-Speed Fans	09/17	Large diameter, high-volume, low-speed ceiling fans.
233533	Listed Kitchen Ventilation System Exhaust Ducts	03/14	Listed grease ducts.
233600	Air Terminal Units	03/17	Single-duct, dual-duct, fan-powered, induction, and diffuser types.
233713.13	Air Diffusers	09/14	Round, rectangular, perforated, and linear diffusers.
233713.23	Registers and Grilles	09/14	Fixed and adjustable registers and grilles.
233713.43	Security Registers and Grilles	09/14	Security registers and grilles.
233716	Fabric Air-Distribution Devices	12/14	Continuous tubular fabric air diffusers, connectors, and accessories.
233723	HVAC Gravity Ventilators	09/17	Unpowered ventilators and louver penthouses.
233813	Commercial-Kitchen Hoods	12/16	Type I and Type II, Standard and Listed hoods.
234100	Particulate Air Filtration	09/17	Disposable, extended surface, and roll types.
234133	High-Efficiency Particulate Air Filtration	09/17	High-efficiency particulate air filters, ultralow-penetration air (ULPA) filters, filter frames, and filter gages.
234200	Gas-Phase Air Filtration	12/16	Gas adsorbent and rechargeable media, trays and housings, frames, and filter gages.
234300	Electronic Air Cleaners	06/17	Electronic air cleaners, access housings, service frames, and filter gages.
235113.11	Draft Control Fans	09/13	Induced-draft fans.
235113.16	Vent Dampers	09/13	Barometric dampers.
235116	Fabricated Breechings and Accessories	09/13	Refractory-lined breechings and field-fabricated breechings.
235123	Gas Vents	09/13	Listed double-wall vents.

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Section No.	Section Title	Issue Date	Section Description
235133	Insulated Sectional Chimneys	09/13	Double-wall and refractory-lined chimneys; fabricated chimneys.
235213	Electric Boilers	03/16	HW and steam; HP and LP.
235216	Condensing Boilers	03/16	Packaged condensing boilers for small applications.
235223	Cast-Iron Boilers	03/16	HW and steam; gas and oil fired.
235233	Water-Tube Boilers	03/15	HW and steam; gas and oil fired.
235239	Fire-Tube Boilers	03/15	HW and steam; gas and oil fired.
235313	Boiler Feedwater Pumps	03/16	Condensate and vacuum pumps and receivers.
235316	Deaerators	09/14	Spray, packed column, and package tray.
235413	Electric-Resistance Furnaces	03/16	Electric furnaces.
235416.13	Gas-Fired Furnaces	03/16	Gas-fired furnaces.
235416.16	Oil-Fired Furnaces	03/15	Oil-fired furnaces.
235513.16	Gas-Fired Duct Heaters	03/15	Natural gas and propane, duct-mounted units.
235523.13	Low-Intensity, Gas-Fired, Radiant Heaters	09/13	Low intensity, gas-fired, indoor and outdoor radiant heaters.
235523.16	High-Intensity, Gas-Fired, Radiant Heaters	03/15	High-intensity, gas-fired, indoor and outdoor radiant heaters and patio heaters.
235533.13	Oil-Fired Unit Heaters	09/13	Fuel-oil unit heaters with propeller and centrifugal fans.
235533.16	Gas-Fired Unit Heaters	09/13	Natural gas and propane unit heaters with propeller and centrifugal fans.
235613.13	Heating, Flat-Plate, Solar Collectors	03/13	Liquid-type, medium-temperature, glazed solar panels.
235613.19	Heating, Solar, Vacuum-Tube Collectors	03/13	Liquid-type, vacuum-tube solar collectors, accessories, and mountings.
235700	Heat Exchangers for HVAC	03/16	Steam to water and water to water; shell-and-tube and flat-plate types.
236200	Packaged Compressor and Condenser Units	03/15	Air and water cooled.
236313	Air-Cooled Refrigerant Condensers	03/15	Remote forced-air, condenser, and fan units.
236333	Evaporative Refrigerant Condensers	09/17	Induced- and forced-draft evaporative refrigerant condensers.
236413.13	Direct-Fired Absorption Water Chillers	03/15	Natural-gas, propane, and oil fired; water cooled; two stages; and a brush-cleaning system.
236413.16	Indirect-Fired Absorption Water Chillers	03/16	Steam and hot-water generated; one and two stage.
236416	Centrifugal Water Chillers	09/16	Hermetic and open; direct and gear drives; water and air cooled.
236423.13	Air-Cooled, Scroll Water Chillers	09/16	Packaged, air-cooled, scroll water chillers.
236423.16	Water-Cooled, Scroll Water Chillers	09/16	Packaged, water-cooled, scroll water chillers.
236426.13	Air-Cooled, Rotary-Screw Water Chillers	09/16	Packaged, air-cooled indoor and outdoor rotary-screw water chillers.
236426.16	Water-Cooled, Rotary-Screw Water Chillers	09/16	Water-cooled, single- and multiple-compressor units.
236513.13	Open-Circuit, Forced-Draft Cooling Towers	03/16	Factory-assembled, open-circuit, forced-draft, towers.
236513.16	Closed-Circuit, Forced-Draft Cooling Towers	03/16	Factory-assembled, closed-circuit, forced-draft, towers.
236514.13	Open-Circuit, Induced-Draft, Counterflow Cooling Towers	03/16	Factory-assembled, open-circuit, induced-draft, counterflow towers.
236514.14	Open-Circuit, Induced-Draft, Crossflow Cooling Towers	03/16	Factory-assembled, open-circuit, induced-draft, crossflow towers.
236514.16	Closed-Circuit, Induced-Draft, Counterflow Cooling Towers	03/16	Factory-assembled, closed-circuit, induced-draft, counterflow towers.
236514.17	Closed-Circuit, Induced-Draft, Combined-Flow Cooling Towers	03/16	Factory-assembled, closed-circuit, induced-draft, combined-flow towers.

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Section No.	Section Title	Issue Date	Section Description
237213	Heat Wheel Air-To-Air Energy Recovery Units	09/17	Rotary heat wheel, sensible-only or total heat transfer heat exchangers.
237216	Heat Pipe Air-To-Air Energy Recovery Units	06/17	Heat pipe, sensible heat, heat exchangers utilizing passive-refrigerant heat transfer.
237219	Fixed Plate Air-To-Air Energy Recovery Units	06/17	Fixed plate, sensible and total heat transfer heat exchangers.
237223.13	Packaged Indoor Heat Wheel Energy Recovery Units	09/17	Heat wheel heat exchangers in packaged, indoor, energy-recovery units.
237223.19	Packaged Indoor Fixed Plate Energy Recovery Units	09/17	Sensible and total heat, fixed-plate heat exchangers in packaged, indoor, energy-recovery units.
237313.13	Indoor, Basic Air-Handling Units	03/17	Units consisting of fans, coils, dampers, filters, control devices, and accessories.
237313.16	Indoor, Semi-Custom Air-Handling Units	03/17	Units consisting of fans, coils, dampers, filters, control devices, and accessories.
237333.16	Indoor, Indirect, Gas-Fired Heating and Ventilating Units	12/16	Indirect, gas-fired H&V units mounted inside the building.
237339	Indoor, Direct-Fired Heating and Ventilating Units	12/16	Indoor, direct gas-fired H&V units.
237343.16	Outdoor, Semi-Custom Air-Handling Units	09/17	Units consisting of fans, coils, dampers, filters, control devices, and accessories.
237416.11	Packaged, Small-Capacity, Rooftop Air-Conditioning Units	09/16	Packaged, air-cooled, rooftop HVAC, 6 tons and smaller.
237416.13	Packaged, Large-Capacity, Rooftop Air-Conditioning Units	09/16	Packaged, air-cooled, rooftop HVAC 7.5 tons and greater.
237423.13	Packaged, Direct-Fired, Outdoor, Heating-Only Makeup-Air Units	12/16	Outdoor, direct gas-fired H&V units.
237423.16	Packaged, Indirect-Fired, Outdoor, Heating-Only Makeup-Air Units	12/16	Outdoor, indirect gas-fired H&V units.
237433	Dedicated Outdoor-Air Units	12/16	Units capable of 100 percent outdoor air with heating and cooling.
238113.11	Packaged Terminal Air-Conditioners, Through-Wall Units	03/15	Through-the-wall; cooling only; heat pump; cooling plus hot-water heating, electric heating, and gas-fired heating.
238113.12	Packaged Terminal Air-Conditioners, Freestanding Units	03/15	Freestanding or through-the-wall; cooling only; heat pump; cooling plus hot-water heating, electric heating, and gas-fired heating.
238113.13	Packaged Terminal Air-Conditioners, Outdoor, Wall-Mounted Units	03/15	Outdoor, wall-mounted; cooling only; heat pump; cooling plus hot-water heating, electric heating, and gas-fired heating.
238119	Self-Contained Air-Conditioners	09/17	Packaged cooling, heating, filters, and controls; cabinet suitable for exposed installations.
238123.11	Small Capacity (6 Tons (21 kW) and Smaller), Computer-Room Air-Conditioners, Floor-Mounted Units	03/17	Floor-mounted water and air cooled, air conditioning systems for data centers.
238123.12	Large Capacity (7 Tons (25 kW) and Larger), Computer-Room Air-Conditioners, Floor-Mounted Units	03/17	Floor-mounted water and air cooled, air conditioning systems for data centers.
238123.13	Computer-Room Air-Conditioners, Ceiling-Mounted Units	03/17	Ceiling-mounted water and air cooled, air conditioning systems for data centers.
238123.14	Computer-Room Air-Conditioners, Console Units	03/17	Console water and air cooled, air conditioning systems for data centers.
238123.18	Computer-Room, Rack-Cooling Equipment	03/15	Water and air cooled, pumped-refrigerant, air conditioning systems for data centers.
238126	Split-System Air-Conditioners	09/16	Air-distribution equipment separate from refrigeration equipment; cabinet suitable for exposed installations.
238129	Variable-Refrigerant-Flow HVAC Systems	03/17	Variable-refrigerant-flow HVAC systems, components, and operations, including delegated design.
238146	Water-Source Unitary Heat Pumps	03/15	Concealed horizontal and vertical units.
238146.13	Water-To-Air Heat Pumps	03/17	Concealed horizontal and vertical units; vertical-stack; and exposed-console units.

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Section No.	Section Title	Issue Date	Section Description
238213	Valance Heating and Cooling Units	03/13	Electric and hot water radiant heaters and heating and cooling panels.
238214	Chilled Beams	09/16	Passive and active units.
238216.11	Hydronic Air Coils	03/15	Hydronic coils not integral to AHUs.
238216.12	Steam Air Coils	03/13	Steam coils not integral to AHUs.
238216.13	Refrigerant Air Coils	03/15	Refrigerant coils not integral to AHUs.
238216.14	Electric-Resistance Air Coils	03/13	Electric-resistance coils not integral to AHUs.
238219	Fan Coil Units	06/16	Hot water, steam, and electric heating; chilled or DX cooling.
238223	Unit Ventilators	03/17	Hot water, steam, and electric heating; chilled or DX cooling.
238229	Radiators	03/13	Flat-pipe steel radiators for hot-water, steam, and electric heating systems.
238233	Convectors	03/16	Convectors for hot-water, steam, and electric heating systems.
238236	Finned-Tube Radiation Heaters	03/16	HW, steam, and electric baseboard and finned-tube radiation heaters.
238239.13	Cabinet Unit Heaters	03/17	Cabinet unit heaters with hot-water, steam, and electric-resistance coils.
238239.16	Propeller Unit Heaters	03/16	Propeller unit heaters with hot-water, steam, and electric-resistance coils.
238239.19	Wall and Ceiling Unit Heaters	03/15	Wall and ceiling electric unit heaters.
238313	Radiant-Heating Electric Cables	03/13	Electric cables for ceilings and floors, snow and ice melting, and freezer-floor frost prevention.
238316	Radiant-Heating Hydronic Piping	12/15	Embedded pipes, tubes, manifolds, fittings, piping specialties, and controls.
238323	Radiant-Heating Electric Panels	03/13	Factory-fabricated panels.
238413.16	Wetted-Element Humidifiers	06/16	Water-pressure atomizing humidifiers.
238413.19	Atomizing Humidifiers	06/16	Water-pressure or compress-air types.
238413.23	Direct-Steam-Injection Humidifiers	06/16	Externally-supplied steam.
238413.29	Self-Contained Steam Humidifiers	06/16	Electric resistance, electrode cylinder, and gas-fired steam generator humidifiers.
238413.36	Heat Exchanger Humidifiers	06/16	Steam-to-steam humidifiers.
238416.13	Outdoor, Mechanical Dehumidification Units	12/16	Outdoor, refrigerant-type mechanical dehumidification equipment.
238416.16	Indoor, Mechanical Dehumidification Units	12/16	Indoor, refrigerant-type mechanical dehumidification equipment.

DIVISION 26 - ELECTRICAL

262933	Controllers for Fire-Pump Drivers	12/16	Full- and limited-service, electric-driver controllers; and diesel-driver controllers.
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DIVISION 28 - ELECTRONIC SAFETY AND SECURITY

284400	Refrigerant Detection and Alarm	09/16	Monitors, alarms, breathing apparatus, and ventilation equipment interlocks.
284621.13	Conventional Fire-Alarm Systems	09/16	Small systems for buildings relying on zoned fire-alarm concept.

DIVISION 31 - EARTHWORK

311000	Site Clearing	02/13	Clearing, grubbing, vegetation protection, stripping and stockpiling topsoil and rock, and disconnecting utilities.
312000	Earth Moving	09/17	Excavating, filling and backfilling, compacting, and grading.

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Section No.	Section Title	Issue Date	Section Description
312319	Dewatering	12/16	Temporary construction dewatering requirements for ground-water control.

DIVISION 32 - EXTERIOR IMPROVEMENTS

321216	Asphalt Paving	06/16	Paving, overlays, surface treatments, asphalt curbs, asphalt traffic-calming devices, cold milling, and hot-mix patching.
321223	Imprinted Asphalt	06/16	Embossing patterns in new or existing asphalt pavement.
321313	Concrete Paving	03/15	Concrete curbs and gutters, walks, driveways, parking lots, and miscellaneous paving.
321713	Parking Bumpers	06/16	Wheel stops applied to asphalt or concrete pavement.
321716	Manufactured Traffic-Calming Devices	06/16	Preformed rubber or plastic traffic-calming devices applied to asphalt or concrete pavement.
321723	Pavement Markings	06/16	Painted markings applied to asphalt or concrete pavement.
323113	Chain Link Fences and Gates	12/16	Standard chain-link fencing systems with swing or horizontal-slide gates and gate operators.
328400	Planting Irrigation	12/16	Heads, pipes, and controls.

DIVISION 33 - UTILITIES

330500	Common Work Results for Utilities	03/11	Basic piping materials and methods.
331113	Potable Water Supply Wells	09/16	Drilled and driven wells and well pumps.
334200	Stormwater Conveyance	09/17	Gravity and forced storm piping, underground structures, and specialties.
334600	Subdrainage	03/10	Drainage for foundations, underslabs, plaza decks, retaining walls, and landscaped areas.
336313	Underground Steam and Condensate Distribution Piping	12/16	Underground piping serving one or more buildings.

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