

# MASTERSPEC®

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ELECTRICAL LIBRARY  
Outline Expanded (Basic and Supplemental)

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### DIVISION 01 - GENERAL REQUIREMENTS

02/10	011000	SUMMARY	Summary of the Work, phased construction, purchase contracts, Owner-furnished products, access to site, and work restrictions.
02/10	011200	MULTIPLE CONTRACT SUMMARY	Responsibilities of each contract for the Work, coordination, and temporary facilities and controls.
02/10	012100	ALLOWANCES	Provisions for cash allowances including lump-sum, unit cost, contingency, and testing and inspecting allowances.
02/10	012200	UNIT PRICES	Provisions for unit prices.
02/10	012300	ALTERNATES	Provisions for change-of-scope and cost-comparison type alternates.
02/10	012500	SUBSTITUTION PROCEDURES	Procedural requirements for requests for substitutions during construction.
02/10	012600	CONTRACT MODIFICATION PROCEDURES	Procedural requirements for changes to the Contract.
02/10	012900	PAYMENT PROCEDURES	Administrative requirements for Contractor's Applications for Payment.
02/10	013100	PROJECT MANAGEMENT AND COORDINATION	Administrative requirements for project meetings; preconstruction, preinstallation, and project closeout conferences; RFIs; and project Web sites.
02/10	013200	CONSTRUCTION PROGRESS DOCUMENTATION	Contractor's Construction Schedule including Gantt charts and CPM schedules; Contractor's reports.
02/10	013233	PHOTOGRAPHIC DOCUMENTATION	Construction photographs, video recordings, and web-based photographic documentation.
02/10	013300	SUBMITTAL PROCEDURES	Procedures for Action and Informational Submittals including Delegated-Design Submittals and Submittals Schedule.
02/10	013591	HISTORIC TREATMENT PROCEDURES	General protection and treatment of historic spaces; historic removal and dismantling; and bird-excrement removal.
02/10	014000	QUALITY REQUIREMENTS	Quality-assurance and -control requirements, special tests and inspections, and Contractor's quality-control plan.
02/10	014200	REFERENCES	Common definitions and terms; and acronyms and trade names of associations, government agencies, and other entities referenced in MasterSpec.
02/10	015000	TEMPORARY FACILITIES AND CONTROLS	Temporary utilities and facilities for construction support, security, and protection.
02/10	016000	PRODUCT REQUIREMENTS	Administrative and procedural requirements for product, material, and equipment selection and handling; warranties; and comparable products.
02/10	017300	EXECUTION	General requirements for product installation, cutting and patching, protection, field engineering, and progress cleaning.
02/10	017419	CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL	Salvaging, recycling, and disposing of non-hazardous demolition and construction waste.
02/10	017700	CLOSEOUT PROCEDURES	Contract closeout including Substantial Completion and Final Completion procedures, warranties, and final cleaning.
02/10	017823	OPERATION AND MAINTENANCE DATA	Emergency, operation, and maintenance manuals for products and equipment.
02/10	017839	PROJECT RECORD DOCUMENTS	Record record Drawings, Specifications, and Product Data.
02/10	017900	DEMONSTRATION AND TRAINING	Administrative and procedural requirements for instructing Owner's personnel in operation and maintenance.
02/10	018113.13	SUSTAINABLE DESIGN REQUIREMENTS - LEED FOR NEW CONSTRUCTION AND MAJOR RENOVATIONS	General requirements and procedures for LEED for New Construction and Major Renovations.

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02/10	018113.16	SUSTAINABLE DESIGN REQUIREMENTS - LEED FOR COMMERCIAL INTERIORS	General requirements and procedures for LEED for Commercial Interiors.
02/10	018113.19	SUSTAINABLE DESIGN REQUIREMENTS - LEED FOR CORE AND SHELL DEVELOPMENT	General requirements and procedures for LEED for Core and Shell Development.
02/10	018113.23	SUSTAINABLE DESIGN REQUIREMENTS - LEED FOR SCHOOLS	General requirements and procedures for LEED for Schools.
02/10	019113	GENERAL COMMISSIONING REQUIREMENTS	Administrative requirements and procedures for commissioning all systems.

### DIVISION 02 - EXISTING CONDITIONS

02/10	024116	STRUCTURE DEMOLITION	Complete structure removal.
02/10	024119	SELECTIVE STRUCTURE DEMOLITION	Demolition and removal of selected portions of buildings and site elements.

### DIVISION 03 - CONCRETE

02/10	033000	CAST-IN-PLACE CONCRETE	General building and structural applications; concrete mixtures, formwork, reinforcing, finishing, and curing.
02/10	033053	MISCELLANEOUS CAST-IN-PLACE CONCRETE	Cast-in-place concrete for limited applications.

### DIVISION 05 - METALS

02/10	055000	METAL FABRICATIONS	Metal items (not sheet metal) made from iron and steel shapes, stainless steel, and non-ferrous metals.
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### DIVISION 06 - WOOD, PLASTICS, AND COMPOSITES

02/10	061000	ROUGH CARPENTRY	Wood framing, furring, grounds, nailers, and blocking.
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### DIVISION 07 - THERMAL AND MOISTURE PROTECTION

02/10	076200	SHEET METAL FLASHING AND TRIM	Custom-fabricated roof and wall flashings and roof-drainage systems, and manufactured through-wall flashing and reglets.
02/10	077200	ROOF ACCESSORIES	Roof curbs, equipment supports, roof hatches, heat and smoke vents, gravity ventilators, pipe supports, roof walkways and stairs, and preformed flashing sleeves.
02/10	078413	PENETRATION FIRESTOPPING	Systems installed in fire-resistance-rated walls, horizontal assemblies, and smoke barriers.

### DIVISION 08 - OPENINGS

02/10	083113	ACCESS DOORS AND FRAMES	Wall, ceiling, and floor units.
02/10	083113.53	SECURITY ACCESS DOORS AND FRAMES	Wall and ceiling units.

### DIVISION 09 - FINISHES

02/10	099113	EXTERIOR PAINTING	Exterior painting.
02/10	099123	INTERIOR PAINTING	Interior painting.
02/10	099600	HIGH-PERFORMANCE COATINGS	Tile-like coatings for use on exterior and interior substrates.

### DIVISION 23 - HEATING VENTILATING AND AIR CONDITIONING

03/10	230800	COMMISSIONING OF HVAC	Administrative requirements and procedures for commissioning HVAC systems.
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### DIVISION 26 - ELECTRICAL

03/10	260513	MEDIUM-VOLTAGE CABLES	Cable, splices, and terminations.
03/10	260519	LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES	Electrical power distribution (600 V and less).
03/10	260519.13	UNDERCARPET ELECTRICAL POWER CABLES	Power and communication cables.
03/10	260523	CONTROL-VOLTAGE ELECTRICAL POWER CABLES	UTP, optical fiber, and low-voltage control circuit conductors and cables.
03/10	260526	GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS	Methods and materials for grounding systems and equipment.

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03/10	260529	HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS	Hangers, supports, and concrete bases.
03/10	260533	RACEWAYS AND BOXES FOR ELECTRICAL SYSTEMS	Conduit; pull, junction, and outlet boxes; and electrical cabinets.
03/10	260536	CABLE TRAYS FOR ELECTRICAL SYSTEMS	Ladder, trough, and single-rail types; steel, aluminum, stainless steel, and fiberglass.
03/10	260539	UNDERFLOOR RACEWAYS FOR ELECTRICAL SYSTEMS	Ducts, boxes, fittings, and accessories.
03/10	260543	UNDERGROUND DUCTS AND RACEWAYS FOR ELECTRICAL SYSTEMS	Manholes, handholes, and underground ducts.
03/10	260544	SLEEVES AND SLEEVE SEALS FOR ELECTRICAL RACEWAYS AND CABLING	Sleeves and seals for penetrations through floors and walls.
03/10	260548	VIBRATION AND SEISMIC CONTROLS FOR ELECTRICAL SYSTEMS	Vibration isolation devices and seismic restraints.
03/10	260553	IDENTIFICATION FOR ELECTRICAL SYSTEMS	Labels, markers, tags, ties, tape, bands, and signs.
03/10	260573	OVERCURRENT PROTECTIVE DEVICE COORDINATION STUDY	Fault-current and protective device coordination studies.
03/10	260913	ELECTRICAL POWER MONITORING AND CONTROL	Remote and local monitoring, metering, and control of individual circuits.
03/10	260923	LIGHTING CONTROL DEVICES	Time switches, photoelectric relays, occupancy sensors, and multipole lighting controls.
03/10	260933	CENTRAL DIMMING CONTROLS	Control network and stations, dimmer cabinets, and dimmers.
03/10	260936.19	STANDALONE MULTIPRESET MODULAR DIMMING CONTROLS	Wall-box multiscene and multipreset modular dimming controls.
03/10	260943	NETWORK LIGHTING CONTROLS	Wired, programmable and manual lighting controls.
03/10	261116	SECONDARY UNIT SUBSTATIONS	Indoor and outdoor units; with liquid-filled or dry-type transformers.
03/10	261200	MEDIUM-VOLTAGE TRANSFORMERS	Transformers (2.4 to 35 kV).
03/10	261300	MEDIUM-VOLTAGE SWITCHGEAR	Metal-enclosed interrupter and metal-clad CB type switchgear (up to 34 kV class).
03/10	262200	LOW-VOLTAGE TRANSFORMERS	General purpose and specialty dry type.
03/10	262300	LOW-VOLTAGE SWITCHGEAR	Metal-enclosed, circuit-breaker type; 1000V and less.
03/10	262313	PARALLELING LOW-VOLTAGE SWITCHGEAR	Low-voltage type, 1000V and less; medium-voltage type, 5 to 15 kV; for multiple generator operation.
03/10	262413	SWITCHBOARDS	Service and distribution switchboards, 600V and less.
03/10	262416	PANELBOARDS	Distribution, branch circuit, and TVSS panel boards and load centers.
03/10	262419	MOTOR-CONTROL CENTERS	Full-reduced-voltage; for constant-, variable-, and multiple-speed motors; 600 V.
03/10	262500	ENCLOSED BUS ASSEMBLIES	Plug in & feeder (600 V or less).
03/10	262600	POWER DISTRIBUTION UNITS	Voltage regulators, static electronic voltage regulators, and power distribution units.
03/10	262713	ELECTRICITY METERING	Energy and demand metering by utility and Owner.
03/10	262726	WIRING DEVICES	Switches, receptacles, lighting-control devices, and plates.
03/10	262813	FUSES	Cartridge type (600 V and less); plug type (125 V and less); fuse adapters; spare-fuse cabinet.
03/10	262816	ENCLOSED SWITCHES AND CIRCUIT BREAKERS	Fusible, nonfusible, receptacle, shunt trip, and molded-case switches; molded-case circuit breakers; enclosures.
03/10	262913	ENCLOSED CONTROLLERS	Full-voltage manual and magnetic; reduced-voltage magnetic and solid state; multispeed.
03/10	262923	VARIABLE-FREQUENCY MOTOR CONTROLLERS	Solid-state, pulse-width modulated, constant- and variable-torque; 600 V.

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03/10	263213	ENGINE GENERATORS	Diesel- and gas-engine-driven types.
03/10	263323	CENTRAL BATTERY EQUIPMENT	AC & DC output types.
03/10	263353	STATIC UNINTERRUPTIBLE POWER SUPPLY	3-phase, on-line, double conversion units rated 5 to 750 kVA for systems (600 V and less).
03/10	263533	POWER FACTOR CORRECTION EQUIPMENT	Capacitors and automatic power-factor correction units for 600 V and less.
03/10	263600	TRANSFER SWITCHES	Automatic, nonautomatic, and bypass/isolation.
03/10	264113	LIGHTNING PROTECTION FOR STRUCTURES	Protection for buildings and site components.
03/10	264200	CATHODIC PROTECTION	Passive corrosion protection for steel and iron pipes and tanks.
03/10	264313	TRANSIENT-VOLTAGE SUPPRESSION FOR LOW-VOLTAGE ELECTRICAL POWER CIRCUITS	Field-mounted TVSS for 120 to 600 V.
03/10	265100	INTERIOR LIGHTING	Interior fixtures, lamps, and ballasts; emergency lighting; exit signs.
03/10	265561	THEATRICAL LIGHTING	Dimmer racks; control console and devices; distribution components; lighting fixtures.
03/10	265600	EXTERIOR LIGHTING	Exterior luminaires including poles and standards.
03/10	265668	EXTERIOR ATHLETIC LIGHTING	Outdoor lighting for sports fields.
<b>DIVISION 27 - COMMUNICATIONS</b>			
03/10	270528	PATHWAYS FOR COMMUNICATIONS SYSTEMS	Conduits, wireways, surface pathways, boxes and enclosures, and handholes and boxes.
03/10	270536	CABLE TRAYS FOR COMMUNICATIONS SYSTEMS	Ladder, trough wire basket, and single-rail type; steel, aluminum, stainless steel, and fiberglass.
03/10	270544	SLEEVES AND SLEEVE SEALS FOR COMMUNICATIONS PATHWAYS AND CABLING	Sleeves and seals for penetrations through floors and walls.
03/10	271100	COMMUNICATIONS EQUIPMENT ROOM FITTINGS	Telecommunications mounting equipment, and grounding.
03/10	271300	COMMUNICATIONS BACKBONE CABLING	Pathways, cables, connecting hardware, and cable identification systems.
03/10	271500	COMMUNICATIONS HORIZONTAL CABLING	Cables, MUTOAs, connecting hardware, and identification and administration systems.
03/10	274133	MASTER ANTENNA TELEVISION SYSTEM	MATV with options for off-air antennas, CATV, or broadcast satellite service.
03/10	275116	PUBLIC ADDRESS AND MASS NOTIFICATION SYSTEMS	Equipment, cabling, and raceways.
03/10	275119	SOUND MASKING SYSTEMS	Electronic noise generators, amplifiers, speakers, and controls.
03/10	275123	INTERCOMMUNICATIONS AND PROGRAM SYSTEMS	Manually-switched and microprocessor-switched systems.
03/10	275123.50	EDUCATIONAL INTERCOMMUNICATIONS AND PROGRAM SYSTEMS	Manually and microprocessor-switched systems.
03/10	275223	NURSE CALL/CODE BLUE SYSTEMS	Visual/tone; and microprocessor-based, addressable, audiovisual/voice system.
03/10	275313	CLOCK SYSTEMS	Master and secondary clocks and signal devices; interface with intercom and public address systems.
<b>DIVISION 28 - ELECTRONIC SAFETY AND SECURITY</b>			
03/10	280513	CONDUCTORS AND CABLES FOR ELECTRONIC SAFETY AND SECURITY	UTP, fiber-optic, coaxial, RS-232, and RS-485 cables, connecting hardware, and identification systems.
03/10	280528	PATHWAYS FOR ELECTRONIC SAFETY AND SECURITY	Conduits, wireways, surface pathways, boxes and enclosures, and handholes and boxes.
03/10	280544	SLEEVES AND SLEEVE SEALS FOR ELECTRONIC SAFETY AND SECURITY PATHWAYS AND CABLING	Sleeves and seals for penetrations through floors and walls.
03/10	281300	ACCESS CONTROL	Computer controlled, with interface to other facility management systems.

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03/10	281600	INTRUSION DETECTION	Detection devices, controls, and alarms.
03/10	281643	PERIMETER SECURITY SYSTEMS	Detection devices, controls, and alarms on the site perimeter.
03/10	282300	VIDEO SURVEILLANCE	Cameras, data transmission wiring, monitors, and control equipment.
03/10	283111	DIGITAL, ADDRESSABLE FIRE-ALARM SYSTEM	Systems with addressable initiating devices and conventional or addressable notification appliances.
03/10	283112	ZONED (DC LOOP) FIRE-ALARM SYSTEM	Small systems for buildings relying on zoned fire-alarm concept.
03/10	284619	PLC ELECTRONIC DETENTION MONITORING AND CONTROL SYSTEMS	Monitoring and control of doors, gates, and related items for detention facilities.
<b>DIVISION 31 - EARTHWORK</b>			
02/10	311000	SITE CLEARING	Clearing, grubbing, vegetation protection, topsoil stripping, and disconnecting utilities.
02/10	312000	EARTH MOVING	Excavating, filling and backfilling, compaction, and grading.
<b>DIVISION 32 - EXTERIOR IMPROVEMENTS</b>			
02/10	321216	ASPHALT PAVING	Paving, overlays, and surface treatments.
02/10	321313	CONCRETE PAVING	Concrete paving for site construction applications.
02/10	323113	CHAIN LINK FENCES AND GATES	Standard chain-link fencing systems.
<b>DIVISION 33 - UTILITIES</b>			
03/10	337149.13	OVERHEAD MEDIUM-VOLTAGE WIRING	Medium and secondary voltage (up to 35 kV).
03/10	337753	MEDIUM-VOLTAGE UTILITY RECLOSERS	Overhead, automatic circuit reclosers.

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