

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

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

### DIVISION 01 - GENERAL REQUIREMENTS

010000	General Requirements	Evaluations: Role of Division 1 Sections, their preparation and coordination.
011000	Summary	Summary of the Work, phased construction, purchase contracts, Owner-furnished products, access to site, and work restrictions.
011200	Multiple Contract Summary	Responsibilities of each contract for the Work, coordination, and temporary facilities and controls.
012100	Allowances	Provisions for cash allowances including lump-sum, unit cost, contingency, and testing and inspecting allowances.
012200	Unit Prices	Provisions for unit prices.
012300	Alternates	Provisions for change-of-scope and cost-comparison type alternates.

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Section No.	Section Title	Section Description
012500	Substitution Procedures	Procedural requirements for requests for substitutions during construction.
012600	Contract Modification Procedures	Procedural requirements for changes to the Contract.
012900	Payment Procedures	Administrative requirements for Contractor's Applications for Payment.
013100	Project Management and Coordination	Administrative requirements for project meetings; preconstruction, preinstallation, and project closeout conferences; RFIs; and project Web sites.
013200	Construction Progress Documentation	Contractor's Construction Schedule including Gantt charts and CPM schedules; and web-based project software.
013233	Photographic Documentation	Construction photographs, video recordings, and web-based photographic documentation.
013300	Submittal Procedures	Procedures for Action and Informational Submittals including Delegated-Design Submittals and Submittals Schedule.
013513.16	Special Project Procedures for Detention Facilities	Special requirements for detention work including responsibilities of a detention specialist.
013516	Alteration Project Procedures	General protection and work procedures for remodeling, renovation, repair, and maintenance work.
014000	Quality Requirements	Quality-assurance and -control requirements, special tests and inspections, and Contractor's quality-control plan.
014200	References	Common definitions and terms; and acronyms and trade names of associations, government agencies, and other entities referenced in MasterSpec.
015000	Temporary Facilities and Controls	Temporary utilities and facilities for construction support, security, and protection.
016000	Product Requirements	Administrative and procedural requirements for product, material, and equipment selection and handling; warranties; and comparable products.
017300	Execution	General requirements for product installation, cutting and patching, protection, field engineering, and progress cleaning.
017419	Construction Waste Management and Disposal	Salvaging, recycling, and disposing of non-hazardous demolition and construction waste.
017700	Closeout Procedures	Contract closeout including Substantial Completion and Final Completion procedures, warranties, and final cleaning.
017823	Operation and Maintenance Data	Emergency, operation, and maintenance manuals for products and equipment.
017839	Project Record Documents	Record record Drawings, Specifications, and Product Data.
017900	Demonstration and Training	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	General requirements and procedures for LEED 2009 for New Construction and Major Renovations.
018113.14	Sustainable Design Requirements - LEED v4 BD+C	General requirements and procedures for LEED v4 BD+C.
018113.16	Sustainable Design Requirements - LEED 2009 for Commercial Interiors	General requirements and procedures for LEED 2009 for Commercial Interiors.
018113.17	Sustainable Design Requirements - LEED v4 ID+C	General requirements and procedures for LEED v4 ID+C.
018113.19	Sustainable Design Requirements - LEED 2009 for Core and Shell Development	General requirements and procedures for LEED 2009 for Core and Shell Development.
018113.23	Sustainable Design Requirements - LEED 2009 for Schools	General requirements and procedures for LEED 2009 for Schools.
018113.33	Sustainable Design Requirements - IgCC	General requirements and procedures for IgCC.
018113.43	Sustainable Design Requirements - ASHRAE 189.1	General requirements and procedures for ASHRAE 189.1.

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Section No.	Section Title	Section Description
018113.53	Sustainable Design Requirements - Green Globes	General requirements and procedures for Green Globes.
<b>DIVISION 02 - EXISTING CONDITIONS</b>		
024116	Structure Demolition	Demolition of existing buildings, structures, and associated site improvements.
024119	Selective Demolition	Demolition of selected portions of existing buildings, structures, and associated site improvements.
<b>DIVISION 05 - METALS</b>		
055000	Metal Fabrications	Metal items (not sheet metal) made from iron and steel shapes, stainless steel, and non-ferrous metals.
<b>DIVISION 06 - WOOD, PLASTICS, AND COMPOSITES</b>		
061000	Rough Carpentry	Wood framing, furring, frouds, nailers, and blocking.
U 061053	Miscellaneous Rough Carpentry	Minor wood framing, furring, grounds, nailers, and blocking.
<b>DIVISION 07 - THERMAL AND MOISTURE PROTECTION</b>		
076200	Sheet Metal Flashing and Trim	Custom-fabricated roof and wall flashings and roof-drainage systems, and manufactured through-wall flashing and reglets.
U 077200	Roof Accessories	Roof curbs, equipment supports, roof hatches, heat and smoke vents, gravity ventilators, pipe supports, roof walkways, and preformed flashing sleeves.
078413	Penetration Firestopping	Systems installed in fire-resistance-rated walls, horizontal assemblies, and smoke barriers.
<b>DIVISION 08 - OPENINGS</b>		
U 083113	Access Doors and Frames	Wall and ceiling units.
U 083113.53	Security Access Doors and Frames	Medium-, high-, and maximum-security units for walls and ceilings.
<b>DIVISION 09 - FINISHES</b>		
099113	Exterior Painting	Exterior painting.
099123	Interior Painting	Interior painting.
099600	High-Performance Coatings	Tile-like coatings for use on exterior and interior substrates.
<b>DIVISION 10 - SPECIALTIES</b>		
U 102819	Tub and Shower Enclosures	Framed and frameless shower doors and enclosures.
105143	Wire Mesh Storage Lockers	Woven wire mesh storage cubicles.
<b>DIVISION 11 - EQUIPMENT</b>		
110513	Common Motor Requirements for Equipment	Universal default values for small and medium, ac motors.
111313	Loading Dock Bumpers	Laminated-tread, molded- and extruded-rubber, and steel-face dock bumpers.
111316	Loading Dock Seals and Shelters	Foam-pad and inflatable dock seals, rigid- and flexible-frame dock shelters, inflatable dock shelters, and transparent curtains.
111323	Portable Dock Equipment	Built-in, scissors-type, single-leg, hydraulic dock lifts.

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Section No.	Section Title	Section Description
115313	Laboratory Fume Hoods	Hoods and hood stands, including work tops.

### DIVISION 13 - SPECIAL CONSTRUCTION

134713	Cathodic Protection	Passive corrosion protection for steel and iron pipes and tanks.
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### DIVISION 22 - PLUMBING

226713	Processed Water Piping for Laboratory and Healthcare Facilities	Pipe, fittings, and valves for reagent, deionized, distilled, and reverse osmosis water.
226719	Processed Water Equipment for Laboratory and Healthcare Facilities	Equipment for reagent, deionized, distilled, and reverse osmosis water.

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

U 233119.13	Shop-Fabricated HVAC Casings	Shop-fabricated, single- and double-wall casings used as equipment enclosures and plenums.
U 233119.16	Manufactured HVAC Casings	Factory-fabricated, double-wall casings used as equipment enclosures and plenums.

### DIVISION 26 - ELECTRICAL

260513	Medium-Voltage Cables	Cables, splices, terminations, connectors, and fault indicators for 2001 to 35,000 V.
260519	Low-Voltage Electrical Power Conductors and Cables	Building wires, cables, connectors, splices, and terminations rated 2000 V and less.
260523	Control-Voltage Electrical Power Cables	Optical-fiber, twisted pair, low-voltage control cabling; and control-circuit conductors.
260526	Grounding and Bonding for Electrical Systems	Methods and materials for grounding systems and equipment.
U 260529	Hangers and Supports for Electrical Systems	Hangers, supports, and concrete bases.
260533	Raceways and Boxes for Electrical Systems	Conduit; pull, junction, and outlet boxes; and electrical cabinets.
260536	Cable Trays for Electrical Systems	Ladder, trough, and single-rail types; steel, aluminum, stainless steel, and fiberglass.
260539	Underfloor Raceways for Electrical Systems	Ducts, boxes, fittings, and accessories.
260543	Underground Ducts and Raceways for Electrical Systems	Manholes, handholes, and underground ducts.
260544	Sleeves and Sleeve Seals for Electrical Raceways and Cabling	Sleeves and seals for penetrations through floors and walls.
U 260548.16	Seismic Controls for Electrical Systems	Seismic criteria and seismic restraints and supports.
260553	Identification for Electrical Systems	Labels, markers, tags, ties, tape, bands, and signs.
260573.13	Short-Circuit Studies	Fault-current and protective device short-circuit studies.
260573.16	Coordination Studies	Fault-current and protective device coordination studies.
260573.19	Arc-Flash Hazard Analysis	Fault-current and protective device arc-flash studies.
260913	Electrical Power Monitoring and Control	Remote and local monitoring, metering, and control of individual circuits.
U 260923	Lighting Control Devices	Time switches, photoelectric relays, occupancy sensors, and multipole lighting controls.
260933	Central Dimming Controls	Control network and stations, dimmer cabinets, and dimmers.
260936	Modular Dimming Controls	Wall-box multiscene and multipreset modular dimming controls.
260943.16	Addressable-Luminaire Lighting Controls	Controls based on digital addressable lighting interface (DALI) technology.
260943.23	Relay-Based Lighting Controls	Panels using relays for switching; panels networked BAS.

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Section No.	Section Title	Section Description
U 261116.11	Secondary Unit Substations with Switchgear Secondary	Indoor and outdoor units, with metal-clad and metal-enclosed switchgear primary, m-v transformers, metal-clad switchgear secondary sections.
U 261116.12	Secondary Unit Substations with Switchboards Secondary	Indoor and outdoor units; with metal-enclosed switchgear-m-v transformers, metal-enclosed switchboard secondary.
U 261116.13	Secondary Unit Substations with Motor Control Center Secondary	Indoor and outdoor units; with m-v transformers, and motor-control center secondary.
U 261213	Liquid-Filled, Medium-Voltage Transformers	MV, substation transformers, with primary and secondary bushings within or without air-terminal enclosures.
U 261216	Dry-Type, Medium-Voltage Transformers	MV transformers with primary and secondary bushings within or without air-terminal enclosures.
U 261219	Pad-Mounted, Liquid-Filled, Medium-Voltage Transformers	Liquid-filled, MV transformers, with primary and secondary bushings within or without air-terminal enclosures.
U 261323	Medium-Voltage, Metal-Enclosed Switchgear	Indoor and outdoor, MV, metal-enclosed switchgear rated more than 1000 V through 38,000 V.
U 261326	Medium-Voltage, Metal-Clad Switchgear	Indoor and outdoor, MV, metal-clad switchgear rated more than 1000 V through 38,000 V.
U 261329	Medium-Voltage, Pad-Mounted Switchgear	Indoor and outdoor, dead front, remotely controlled insulated vacuum load and fault interrupting switchgear rated to 25,000 V.
U 262213	Low-Voltage Distribution Transformers	Single- and three-phase distribution dry-type rated 600 V or less and up to 1500 Kva.
U 262216	Low-Voltage Buck-Boost Transformers	Buck-boost dry-type transformers.
U 262300	Low-Voltage Switchgear	Metal-enclosed, circuit-breaker type; 1000V and less.
U 262313	Paralleling Low-Voltage Switchgear	Low-voltage type, 1000V and less; medium-voltage type, 5 to 15 kV; for multiple generator operation.
U 262413	Switchboards	Service and distribution switchboards, 600 V and less.
U 262416	Panelboards	Distribution, branch circuit, and surge-suppression panel boards and load centers.
262416.16	Electronically Operated Circuit-Breaker Panelboards	Manual and programmable panelboards with electronically operated circuit breakers using low-voltage or digital control circuits to control equipment.
U 262419	Motor-Control Centers	Full-reduced-voltage; for constant-, variable-, and multiple-speed motors; 600 V.
U 262500	Enclosed Bus Assemblies	Plug in & feeder (600 V or less).
262713	Electricity Metering	Energy and demand metering by utility and Owner.
262726	Wiring Devices	Switches, receptacles, lighting-control devices, and plates.
U 262733	Power Distribution Units	Voltage regulators, static electronic voltage regulators, and power distribution units.
U 262743	Electric-Vehicle Service Equipment - AC Level 1 and Level 2	Charging equipment for AC Level 1 and 2.
U 262746	Electric Vehicle Service Equipment - DC Level 1 and Level 2	Charging equipment for DC Level 1 and 2.
262813	Fuses	Cartridge type (600 V and less); plug type (125 V and less); fuse adapters; spare-fuse cabinet.
262816	Enclosed Switches and Circuit Breakers	Fusible, nonfusible, receptacle, shunt trip, and molded-case switches; molded-case circuit breakers; enclosures.
U 262913.03	Manual and Magnetic Motor Controllers	Manual, reduced- and full-voltage start magnetic motor controllers.
U 262913.06	Soft-Start Motor Controllers	Reduced-voltage start motor controllers.
U 262923	Variable-Frequency Motor Controllers	Solid-state, pulse-width modulated, constant- and variable-torque; VFCs; rated 600 V and less.
U 262933	Controllers for Fire-Pump Drivers	Full- and limited-service, electric-driver controllers; and diesel-driver controllers.
263100	Photovoltaic Collectors	Photovoltaic laminates, modules, charge controllers, inverters, and mounting structures.

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Section No.	Section Title	Section Description
U 263213.13	Diesel Emergency Engine Generators	Diesel-driven emergency and standby generators.
U 263213.14	Diesel Engine Generators	Diesel-driven non-emergency (prime and industrial) generators.
U 263213.16	Gaseous Emergency Engine Generators	Natural gas and liquified petroleum (LP)-driven emergency and standby generators.
U 263213.17	Gaseous Engine Generators	Natural gas and liquified petroleum (LP)-driven non-emergency (prime and industrial) engine generators.
U 263213.19	Bi-Fuel Emergency Engine Generators	Diesel start, natural gas powered emergency and standby generators.
U 263213.20	Bi-Fuel Engine Generators	Diesel start, natural gas powered prime and industrial engine generators.
263223.13	Horizontal-Axis Wind Turbines	Horizontal-axis, small-scale wind turbines.
263223.16	Vertical-Axis Wind Turbines	Vertical-axis, small-scale wind turbines.
U 263323.11	Central Battery Equipment for Emergency Lighting	Central battery equipment for standby power to emergency lighting circuits.
U 263343	Battery Chargers	Battery chargers used to automatically control and maintain the charge on emergency engine generator start batteries.
U 263353	Static Uninterruptible Power Supply	3-phase, on-line, double conversion units rated 5 to 750 kVA for systems (600 V and less).
263533	Power Factor Correction Equipment	Capacitors and automatic power-factor correction units for 600 V and less.
U 263600	Transfer Switches	Automatic, nonautomatic, and bypass/isolation.
264113	Lightning Protection for Structures	Protection for buildings and site components.
264313	Surge Protection for Low-Voltage Electrical Power Circuits	Field-mounted surge protective devices (SPDs) 1000-V and less.
265113	Incandescent Interior Lighting	Interior incandescent luminaires and lamps.
265116	Fluorescent Interior Lighting	Interior fluorescent cove, down, flood, wall, linear and track lighting.
265119	Led Interior Lighting	Interior chandelier, cove, down, flood, highbay/lowbay/industrial, wall mount, linear, step and track LED lighting systems.
265123	Hid Interior Lighting	Interior highbay, lowbay and industrial HID fixtures.
265213	Emergency and Exit Lighting	Emergency lighting, except for combination LED sign/halogen fixtures.
U 265561	Theatrical Lighting	Dimmer racks; control console and devices; distribution components; lighting fixtures.
U 265613	Lighting Poles and Standards	Standards and lowering devices for suspension of lighting fixtures and other accessories.
265617	Fluorescent Exterior Lighting	Exterior fluorescent luminaires, including bollards, boarder, canopy, and decorative post top lighting.
265619	Led Exterior Lighting	Exterior LED luminaires, including bollards, boarder, canopy, and decorative post top lighting.
265621	Hid Exterior Lighting	Exterior HID luminaires, including area and site, bollards, boarder, canopy, decorative post top, and roadway lighting.
U 265668	Exterior Athletic Lighting	Outdoor lighting for sports fields.

### DIVISION 27 - COMMUNICATIONS

270526	Grounding and Bonding for Communications Systems	Grounding for communications systems and equipment; for reliable signal reference.
270528	Pathways for Communications Systems	Conduits, wireways, surface pathways, boxes and enclosures, and handholes and boxes.
270529	Hangers and Supports for Communications Systems	Hangers, supports, and concrete bases.
270536	Cable Trays for Communications Systems	Ladder, trough wire basket, and single-rail type; steel, aluminum, stainless steel, and fiberglass.

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Section No.	Section Title	Section Description
270543	Underground Pathways and Structures for Communication Systems	Ducts, pathways, handholes, manholes, and accessories for OSP and CO-OSP.
270544	Sleeves and Sleeve Seals for Communications Pathways and Cabling	Sleeves and seals for penetrations through floors and walls.
U 270548.16	Seismic Controls for Communications Systems	Seismic criteria and seismic restraints and supports.
270553	Identification for Communications Systems	Labels, markers, tags, ties, tape, bands, and signs.
271100	Communications Equipment Room Fittings	Telecommunications backboards, boxes, and enclosures
271116	Communications Racks, Frames, and Enclosures	19- and 23-inch wide and OpenRack compliant IT racks.
U 271313	Communications Copper Backbone Cabling	Copper backbone cables, connecting hardware, and cable identification systems.
271323	Communications Optical Fiber Backbone Cabling	Optical fiber backbone cables, connecting hardware, and cable identification systems.
271333	Communications Coaxial Backbone Cabling	Coaxial backbone communications cabling and fittings.
271513	Communications Copper Horizontal Cabling	Copper horizontal cables, connecting hardware, and cable identification systems.
271523	Communications Optical Fiber Horizontal Cabling	Optical fiber horizontal cables, connecting hardware, and cable identification systems.
271533	Communications Coaxial Horizontal Cabling	Coaxial horizontal communications cabling and fittings.
271611	Communications Hybrid Cabling	Combined copper and fiber optic cabling.
U 274133	Master Antenna Television System	MATV with options for off-air antennas, CATV, or broadcast satellite service.
275116	Public Address Systems	Amplifiers, speakers, and microphones.
275119.11	Sound Masking Systems	Electronic noise generators, amplifiers, speakers, and controls.
275123.20	Commercial Intercommunications and Program Systems	Manually and Microprocessor-switched intercommunications and program systems.
275123.31	Residential Intercommunications and Access Control Systems	Manually and microprocessor-switched intercommunications and access control.
275123.50	Educational Intercommunications and Program Systems	Manually and microprocessor-switched systems.
275223	Nurse Call/Code Blue Systems	Visual/tone; and microprocessor-based, addressable, audiovisual/voice system.
275313	Clock Systems	Master and secondary clocks and signal devices; interface with intercom and public address systems.

### DIVISION 28 - ELECTRONIC SAFETY AND SECURITY

U 281300	Access Control Software and Database Management	Computer controlled, with interface to other facility management systems.
U 281500	Access Control Hardware Devices	Push buttons, card readers, and other security hardware.
U 282000	Video Surveillance	Cameras, data transmission wiring, monitors, and control equipment.
U 283100	Intrusion Detection	Detection devices, controls, and alarms.
U 283121	Area and Perimeter Intrusion Detection	Detection devices, controls, and alarms on the site perimeter.
U 284400	Refrigerant Detection and Alarm	Monitors, alarms, breathing apparatus, and ventilation equipment interlocks.
U 284621.11	Addressable Fire-Alarm Systems	Systems with addressable initiating devices and conventional or addressable notification appliances.
U 284621.13	Conventional Fire-Alarm Systems	Small systems for buildings relying on zoned fire-alarm concept.
U 284700	Mass Notification Systems	Mass notification systems for single buildings, multiple buildings on a small campus, arenas, athletic or entertainment fields, or other local-area facilities.
U 285211	Detention Monitoring and Control Systems	Monitoring and control of doors, gates, and related items for detention facilities.

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Section No.	Section Title	Section Description
<b>DIVISION 31 - EARTHWORK</b>		
311000	Site Clearing	Clearing, grubbing, vegetation protection, stripping and stockpiling topsoil and rock, and disconnecting utilities.
312000	Earth Moving	Excavating, filling and backfilling, compacting, and grading.
<b>DIVISION 32 - EXTERIOR IMPROVEMENTS</b>		
U 321216	Asphalt Paving	Paving, overlays, surface treatments, asphalt curbs, asphalt traffic-calming devices, cold milling, and hot-mix patching.
U 321223	Imprinted Asphalt	Embossing patterns in new or existing asphalt pavement.
321313	Concrete Paving	Concrete curbs and gutters, walks, driveways, parking lots, and miscellaneous paving.
U 321713	Parking Bumpers	Wheel stops applied to asphalt or concrete pavement.
U 321716	Manufactured Traffic-Calming Devices	Preformed rubber or plastic traffic-calming devices applied to asphalt or concrete pavement.
U 321723	Pavement Markings	Painted markings applied to asphalt or concrete pavement.
323113	Chain Link Fences and Gates	Standard chain-link fencing systems with swing or horizontal-slide gates and gate operators.
<b>DIVISION 33 - UTILITIES</b>		
331113	Potable Water Supply Wells	Drilled and driven wells and well pumps.
337149.13	Overhead Medium-Voltage Wiring	Medium and secondary voltage (up to 35 kV).
337753	Medium-Voltage Utility Reclosers	Overhead, automatic circuit reclosers.

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