

SECTION 00 0110 - TABLE OF CONTENTS

PROCUREMENT AND CONTRACTING REQUIREMENTS

Division 00 -- Procurement and Contracting Requirements

- 00 0101 - Project Title Page
- 00 0105 - Certifications Page
- 00 0110 - Table of Contents
- 00 1113 - Advertisement for Bids
- 00 2113 - Instructions to Bidders
- 00 2600 - Procurement Substitution Procedure
- 00 4100 - Bid Form
- 00 5000 - Contracting Forms and Supplements
- 00 7300 - Supplementary Conditions

SPECIFICATIONS

Division 01 -- General Requirements

- 01 1000 - Summary
- 01 2000 - Price and Payment Procedures
- 01 2100 - Allowances
- 01 2300 - Alternates
- 01 2500 - Substitution Procedures
- 01 3000 - Administrative Requirements
- 01 4000 - Quality Requirements
- 01 4533 - Code-Required Special Inspections and Procedures
- 01 5000 - Temporary Facilities and Controls
- 01 5813 - Temporary Project Signage
- 01 6000 - Product Requirements
- 01 6116 - Volatile Organic Compound (VOC) Content Restrictions
- 01 7000 - Execution and Closeout Requirements
- 01 7419 - Construction Waste Management and Disposal
- 01 7800 - Closeout Submittals

Division 02 -- Existing Conditions

- 02 4100 - Demolition

Division 03 -- Concrete

- 03 3000 - Cast-in-Place Concrete

Division 04 -- Masonry

- 04 2000 - Unit Masonry

Division 05 -- Metals

- 05 5000 - Metal Fabrications

Division 06 -- Wood, Plastics, and Composites

- 06 1000 - Rough Carpentry
- 06 4100 - Architectural Wood Casework
- 06 8316 - Fiberglass Reinforced Paneling

Division 07 -- Thermal and Moisture Protection

- 07 2100 - Thermal Insulation
- 07 2119 - Foamed-In-Place Insulation
- 07 2700 - Air Barriers

- 07 6200 - Sheet Metal Flashing and Trim
- 07 8400 - Firestopping
- 07 9200 - Joint Sealants

Division 08 -- Openings

- 08 1213 - Hollow Metal Frames
- 08 1416 - Flush Wood Doors
- 08 3100 - Access Doors and Panels
- 08 3400 - Sliding Doors
- 08 4126 - Glazed Interior Wall and Door Assemblies
- 08 4229 - Automatic Entrances
- 08 4313 - Aluminum-Framed Storefronts
- 08 7100 - Door Hardware
- 08 7105 - Hardware Groups
- 08 7113 - Power Door Operators
- 08 8000 - Glazing

Division 09 -- Finishes

- 09 2116 - Gypsum Board Assemblies
- 09 3000 - Tiling
- 09 5100 - Acoustical Ceilings
- 09 6500 - Resilient Flooring
- 09 6813 - Tile Carpeting
- 09 7200 - Wall Coverings
- 09 8430 - Sound-Absorbing Wall and Ceiling Units
- 09 9123 - Interior Painting

Division 10 -- Specialties

- 10 1100 - Visual Display Units
- 10 1423 - Panel Signage
- 10 2113.19 - Plastic Toilet Compartments
- 10 2600 - Wall and Door Protection
- 10 2800 - Toilet, Bath, and Laundry Accessories
- 10 4400 - Fire Protection Specialties
- 10 5617 - Wall Mounted Standards and Shelving
- 10 5723 - Closet and Utility Shelving

Division 12 -- Furnishings

- 12 2113 - Horizontal Louver Blinds
- 12 2400 - Window Shades
- 12 3600 - Countertops

Division 21 -- Fire Suppression

- 21 0060 - Fire Protection Demolition
- 21 0100 - Fire Protection General Requirements
- 21 0150 - Fire Protection Materials & Methods
- 21 0553 - Identification for Fire Suppression Piping and Equipment
- 21 0784 - Mechanical Firestopping
- 21 1100 - Facility Fire-Suppression Water-Service Piping
- 21 1300 - Fire-Suppression Sprinkler Systems

Division 22 -- Plumbing

- 22 0060 – Plumbing and Piping Demolition
- 22 0100 - Plumbing General Requirements
- 22 0150 - Plumbing and Piping Materials & Methods
- 22 0519 - Meters and Gauges for Plumbing Piping
- 22 0523 - General-Duty Valves for Plumbing Piping
- 22 0553 - Identification for Plumbing Piping and Equipment
- 22 0719 - Plumbing Piping Insulation
- 22 0784 - Mechanical Firestopping
- 22 1005 - Plumbing Piping
- 22 1006 - Plumbing Piping Specialties
- 22 4000 - Plumbing Fixtures

Division 23 -- Heating, Ventilating, and Air-Conditioning (HVAC)

- 23 0060 – Mechanical Demolition
- 23 0100 - Mechanical General Requirements
- 23 0150 - Mechanical Materials & Methods
- 23 0513 - Common Motor Requirements for HVAC Equipment
- 23 0523 - General-Duty Valves for HVAC Piping
- 23 0553 - Identification for HVAC Piping and Equipment
- 23 0593 - Testing, Adjusting, and Balancing for HVAC
- 23 0713 - Duct Insulation
- 23 0719 - HVAC Piping Insulation
- 23 0784 - Mechanical Firestopping
- 23 0913 - Instruments and Control Elements
- 23 0923 - Direct-Digital Control System for HVAC
- 23 2113 - Hydronic Piping
- 23 2114 - Hydronic Specialties
- 23 2500 - HVAC Water Treatment
- 23 3100 - HVAC Ducts and Casings
- 23 3300 - Air Duct Accessories
- 23 3423 - HVAC Power Ventilators and Exhaust Systems
- 23 3600 - Air Terminal Units
- 23 3700 - Air Outlets and Inlets
- 23 7313 - Modular Indoor Central-Station Air-Handling Units
- 23 8200 - Convection Heating and Cooling Units
- 23 8300 - Radiant Heating and Cooling Units

Division 26 -- Electrical

- 26 0000 - Electrical General Requirements
- 26 0100 - Electrical Systems Close Out Documentation
- 26 0500 - Common Work Results for Electrical
- 26 0519 - Low-Voltage Electrical Power Conductors and Cables
- 26 0526 - Grounding and Bonding for Electrical Systems
- 26 0533.13 - Conduit for Electrical Systems
- 26 0533.16 - Boxes for Electrical Systems
- 26 0553 - Identification for Electrical Systems
- 26 0923 - Lighting Control Devices

- 26 2416 - Panelboards
- 26 2726 - Wiring Devices
- 26 2813 - Fuses
- 26 2816.16 - Enclosed Switches
- 26 2913 - Enclosed Controllers
- 26 3600 - Transfer Switches
- 26 4300 - Surge Protective Devices
- 26 5100 - Interior Lighting
- 26 5600 - Exterior Lighting

Division 27 -- Communications

- 27 0000 - Structured Cabling General Requirements
- 27 0100 - Structured Cabling Close Out Documentation
- 27 0500 - Common Work Results for Structured Cabling
- 27 0528 - Pathways for Communication Systems
- 27 1000 - Structured Cabling
- 27 3000 - Elevator Landing Two-Way Communication System
- 27 5118 - Sound Masking Systems

Division 28 -- Electronic Safety and Security

- 28 0000 - Electronic Safety and Security General Requirements
- 28 0100 - Electronic Safety and Security Systems Close Out Documentation
- 28 0500 - Common Work Results for Electronic Safety and Security Systems
- 289 3116 - Fire Alarm and Detection System Extensions

END OF SECTION

SECTION 08 7113 - POWER DOOR OPERATORS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Operators for swinging doors.
- B. Controllers, actuators, and safety devices.

1.02 RELATED REQUIREMENTS

- A. Section 08 7100 - Door Hardware: Balance of door hardware.

1.03 REFERENCE STANDARDS

- A. AAMA 611 - Voluntary Specification for Anodized Architectural Aluminum; 2014 (2015 Errata).
- B. ADA Standards - Americans with Disabilities Act (ADA) Standards for Accessible Design; 2010.
- C. BHMA A156.10 - Power Operated Pedestrian Doors; 2024.
- D. BHMA A156.19 - Power Assist and Low Energy Power Operated Swinging Doors; 2019.
- E. ITS (DIR) - Directory of Listed Products; current edition.
- F. NFPA 70 - National Electrical Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.
- G. NFPA 101 - Life Safety Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.
- H. UL (DIR) - Online Certifications Directory; Current Edition.

1.04 SUBMITTALS

- A. See Section 01 3000 - Administrative Requirements for submittal procedures.
- B. Shop Drawings:
 - 1. Indicate layout and dimensions; head, jamb, and sill conditions; elevations; components, anchorage, recesses, materials, and finishes, electrical characteristics and connection requirements.
 - 2. Identify installation tolerances required, assembly conditions, routing of service lines and conduit, and locations of operating components and boxes.
- C. Product Data: Provide data on system components, sizes, features, and finishes.
- D. Maintenance Data: Include manufacturer's parts list and maintenance instructions for each type of hardware and operating component.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Operators for Swinging Doors:
 - 1. dormakaba; ED100 Series: www.dormakaba.com/#sle.
 - 2. LCN, an Allegion brand; 4642: www.allegion.com/us/#sle.
 - 3. NABCO Entrances Inc; GT 710 Low Energy (ADA) Automatic Door: www.nabcoentrances.com/#sle.
 - 4. Substitutions: See Section 01 6000 - Product Requirements.

2.02 POWER DOOR OPERATORS - GENERAL

- A. Electrically Operated or Controlled Hardware: Provide necessary power supplies, relays, and interfaces as required for proper operation; provide wiring between control components and to building power connection in compliance with NFPA 70.
- B. Comply with ADA Standards for egress requirements.
- C. Comply with NFPA 101 and requirements of authorities having jurisdiction; provide units selected for actual door weight and for light pedestrian traffic unless otherwise indicated.
- D. Exterior and Vestibule Doors: Provide equipment suitable for ambient operating temperature range of minus 20 to plus 140 degrees F (minus 29 to plus 60 degrees C).
- E. Exterior Doors: Provide units capable of operating, closing, and holding doors closed under positive and negative differential pressure; if necessary, provide power closing.
- F. Fire Door Operators: In addition to other requirements, provide equipment ITS (DIR) or UL (DIR) listed as a fire door operator with automatic closer.
- G. System Integration: Integrate operator functionality with other systems as required for a complete working installation.
 - 1. Provide time delay relay to signal automatic door operator to activate only after electric lock system is released.
 - 2. Provide fire alarm interface configurable to safely open or close doors on signal from fire alarm system.
 - 3. Provide controller output signals at the door closed or door open positions to facilitate interaction with security and access control systems.

2.03 OPERATORS FOR SWINGING DOORS

- A. Door Operator: Pneumatic/Hydraulic.
 - 1. Applications: Include operators for single and double doors.
 - 2. Pneumatic/Hydraulic Operators: Low voltage control system, pneumatic activation to hydraulic device for opening and closing.
 - 3. Speed Control: Variable, field-adjustable opening and closing cycles.
 - 4. Functionality: Full-power open, spring close operation.
 - a. Low-Energy Power Operators: Comply with BHMA A156.19; operator activated by pushing or pulling the door or by manual actuator, not a sensor; safeties not required.
 - 5. Mounting: Surface mounted overhead.
 - 6. Power Supply Units: Self-contained, electrically operated, and independent of door operator.
 - 7. Actuators: See Section 08 7100.
 - 8. Hold Open: Toggle switch at inside head of doors; deactivate hold-open on activation of fire alarm system, see Section 28 4600.

2.04 CONTROLLERS, ACTUATORS, AND SAFETY DEVICES

- A. Controllers: Manufacturer's standard for products specified.
- B. Safety Devices: Manufacturer's standard units recommended for project applications and conditions.
 - 1. Comply with BHMA A156.10 for actuator and safety types and zones.

2.05 FINISHES

- A. Aluminum Finishes: Manufacturer's standard.
 - 1. Class I Natural Anodized Finish: Clear anodic coating; AAMA 611 AA-M12C22A41, minimum dry film thickness (DFT) of 0.7 mil, 0.0007 inch (0.018 mm).

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that surfaces are ready to receive work and dimensions are as indicated on shop drawings.
- B. Verify that electric power is available, in the correct location, and of the correct characteristics.

3.02 INSTALLATION

- A. Install equipment in accordance with manufacturer's instructions.

3.03 ADJUSTING

- A. Adjust door equipment for correct function and smooth operation.

END OF SECTION

This page intentionally left blank