

SECTION 087100

DOOR HARDWARE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes the following:
 - 1. Commercial door hardware for the following:
 - a. Swinging doors.
 - b. Sliding doors.
 - c. Folding doors.
 - d. Other doors to the extent indicated.
- B. Related Sections include the following:
- C. Division 8 Section "Steel Doors and Frames"
- D. Division 8 Section "Flush Wood Doors"
- E. Division 8 Section "Aluminum Entrances and Storefronts"
- F. Division 8 Section "Power Door Operators" for automatic door operators.

1.3 SUBMITTALS

- A. Product Data: Include installation details, material descriptions, dimensions of individual components and profiles, and finishes.
- B. Shop Drawings: Details of electrified door hardware, indicating the following:
- C. Wiring Diagrams: Detail wiring for power, signal, and control systems and differentiate between manufacturer-installed and field-installed wiring. Include the following:
 - 1. System schematic.
 - 2. Point-to-point wiring diagram.
 - 3. Riser diagram.
 - 4. Elevation of each door.
- D. Detail interface between electrified door hardware and access fire alarm, control, and security building control system.
- E. Samples for Initial Selection: Manufacturer's color charts consisting of units or sections of units showing the full range of colors, textures, and patterns available for each type of door hardware indicated.
- F. Samples will be returned to Contractor. Units that are acceptable and remain undamaged through submittal, review, and field comparison process

may, after final check of operation, be incorporated into the Work, within limitations of keying requirements.

- G. Door Hardware Schedule: Prepared by or under the supervision of supplier, detailing fabrication and assembly of door hardware, as well as procedures and diagrams. Coordinate the final Door Hardware Schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.
1. Format: Comply with scheduling sequence and vertical format in DHI's "Sequence and Format for the Hardware Schedule."
 2. Organization: Organize the Door Hardware Schedule into door hardware sets indicating complete designations of every item required for each door or opening.
 3. Organize door hardware sets in same order as in the Door Hardware Schedule at the end of Part 3.
 4. Content: Include the following information:
 - a. Type, style, function, size, label, hand, and finish of each door hardware item.
 - b. Manufacturer of each item.
 - c. Fastenings and other pertinent information.
 - d. Location of each door hardware set, cross-referenced to Drawings, both on floor plans and in door and frame schedule.
 - e. Explanation of abbreviations, symbols, and codes contained in schedule.
 - f. Mounting locations for door hardware.
 - g. Door and frame sizes and materials.
 - h. Description of each electrified door hardware function, including location, sequence of operation, and interface with other building control systems.
 - i. Sequence of Operation: Include description of component functions that occur in the following situations: authorized person wants to enter; authorized person wants to exit; unauthorized person wants to enter; unauthorized person wants to exit.
 5. Submittal Sequence: Submit the final Door Hardware Schedule at earliest possible date, particularly where approval of the Door Hardware Schedule must precede fabrication of other work that is critical in the Project construction schedule. Include Product Data, Samples, Shop Drawings of other work affected by door hardware, and other information essential to the coordinated review of the Door Hardware Schedule.
 6. Submittal Sequence: Submit initial draft of final schedule along with essential Product Data to facilitate the fabrication of other work that is critical in the Project construction schedule. Submit the final Door Hardware Schedule after Samples, Product Data, coordination with Shop Drawings of other work, delivery schedules, and similar information has been completed and accepted.
- H. Keying Schedule: Prepared by or under the supervision of supplier, detailing Owner's final keying instructions for locks. Include schematic keying diagram and index each key set to unique door designations.

- I. Product Certificates: Signed by manufacturers of electrified door hardware certifying that products furnished comply with requirements.
 - 1. Certify that door hardware approved for use on types and sizes of labeled fire doors complies with listed fire door assemblies.
- J. Qualification Data: For firms and persons specified in "Quality Assurance" Article.
 - 1. Include lists of completed projects with project names and addresses of architects and owners, and other information specified.
- K. Product Test Reports: Based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified testing agency, indicating current products comply with requirements.
- L. Maintenance Data: For each type of door hardware to include in maintenance manuals specified in Division 1.
- M. Warranties: Special warranties specified in this Section.

1.4 QUALITY ASSURANCE

- A. Installer Qualifications: An experienced installer who has completed door hardware similar in material, design, and extent to that indicated for this Project and whose work has resulted in construction with a record of successful in-service performance.
- B. Supplier Qualifications: Door hardware supplier with warehousing facilities in Project's vicinity and who is or employs a qualified Architectural Hardware Consultant, available during the course of the Work to consult with Contractor, Architect, and Owner about door hardware and keying.
 - 1. Electrified Door Hardware Supplier Qualifications: An experienced door hardware supplier who has completed projects with electrified door hardware similar in material, design, and extent to that indicated for this Project, whose work has resulted in construction with a record of successful in-service performance, and who is acceptable to manufacturer of primary materials.
 - a. Engineering Responsibility: Prepare data for electrified door hardware, including Shop Drawings, based on testing and engineering analysis of manufacturer's standard units in assemblies similar to those indicated for this Project.
 - 2. Scheduling Responsibility: Preparation of door hardware and keying schedules.
- C. Architectural Hardware Consultant Qualifications: A person who is currently certified by the Door and Hardware Institute as an Architectural Hardware Consultant and who is experienced in providing consulting services for door hardware installations that are comparable in material, design, and extent to that indicated for this Project.
 - 1. Electrified Door Hardware Qualifications: Experienced in providing consulting services for electrified door hardware installations.
- D. Source Limitations: Obtain each type and variety of door hardware from a single manufacturer, unless otherwise indicated.
 - 1. Provide electrified door hardware from same manufacturer as mechanical door hardware, unless otherwise indicated. Manufacturers that are

listed to perform electrical modifications, by a testing and inspecting agency acceptable to authorities having jurisdiction, are acceptable.

E. Regulatory Requirements: Comply with provisions of the following:

1. Where indicated to comply with accessibility requirements, comply with Americans with Disabilities Act (ADA), "Accessibility Guidelines for Buildings and Facilities (ADAAG)," ANSI A117.1, FED-STD-795, "Uniform Federal Accessibility Standards," as follows:
 - a. Handles, Pulls, Latches, Locks, and other Operating Devices: Shape that is easy to grasp with one hand and does not require tight grasping, tight pinching, or twisting of the wrist.
 - b. Door Closers: Comply with the following maximum opening-force requirements indicated:
 - 1) Interior Hinged Doors: 5 lbf applied perpendicular to door.
 - 2) Sliding or Folding Doors: 5 lbf applied parallel to door at latch.
 - 3) Fire Doors: Minimum opening force allowable by authorities having jurisdiction.
 - c. Thresholds: Not more than 1/2 inch high, Not more than 3/4 inch high for exterior sliding doors. Bevel raised thresholds with a slope of not more than 1:2.
2. NFPA 101: Comply with the following for means of egress doors:
3. Latches, Locks, and Exit Devices: Not more than 15 lbf to release the latch. Locks shall not require the use of a key, tool, or special knowledge for operation.
4. Delayed-Egress Locks: Lock releases within 15 seconds after applying a force not more than 15 lbf for not more than 3 seconds.
5. Door Closers: Not more than 30 lbf to set door in motion and not more than 15 lbf to open door to minimum required width.
6. Thresholds: Not more than 1/2 inch high.
7. Electrified Door Hardware: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction.

F. Fire-Rated Door Assemblies: Provide door hardware for assemblies complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire ratings indicated, based on testing according to NFPA 252.

1. Test Pressure: Test at atmospheric pressure.

G. Keying Conference: Conduct conference at Project site to comply with requirements in Division 1 Section "Project Meetings." Incorporate keying conference decisions into final keying schedule after reviewing door hardware keying system including, but not limited to, the following:

1. Function of building, flow of traffic, purpose of each area, degree of security required, and plans for future expansion.
2. Preliminary key system schematic diagram.
3. Requirements for key control system.
4. Address for delivery of keys.

- H. Preinstallation Conference: Conduct conference at Project site to comply with requirements in Division 1 Section "Project Meetings."
- I. All Electric Door Hardware shall be furnished and installed by the General Contractor. All Electric Door Hardware shall be wired by the Electrical Contractor. Both the Electrical & General Contractor shall meet and coordinate all work before proceeding.
- J. Preinstallation Conference: Conduct conference at Project site to comply with requirements in Division 1 Section "Project Meetings." Review methods and procedures related to electrified door hardware including, but not limited to, the following:
 - 1. Inspect and discuss electrical roughing-in and other preparatory work performed by other trades.
 - 2. Review sequence of operation for each type of electrified door hardware.
 - 3. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
 - 4. Review required testing, inspecting, and certifying procedures.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Inventory door hardware on receipt and provide secure lock-up for door hardware delivered to Project site.
- B. Tag each item with Door Number related to the final Approved Door Hardware Schedule, and include basic installation instructions with each item or package.
- C. Deliver keys to manufacturer of key control system, or Owner as Directed.
- D. Deliver keys to Owner by registered mail or overnight package service.

1.6 COORDINATION

- A. Coordinate layout and installation of recessed pivots and closers with floor construction. Cast anchoring inserts into concrete. Concrete, reinforcement, and formwork requirements are specified in Division 3 Section "Cast-in-Place Concrete."
- B. Templates: Obtain and distribute to the parties involved templates for doors, frames, and other work specified to be factory prepared for installing door hardware. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing door hardware to comply with indicated requirements.
- C. Electrical System Roughing-in: Coordinate layout and installation of electrified door hardware with connections to power supplies, fire alarm system and detection devices, access control system, security system, and building control system.

1.7 WARRANTY

- A. General Warranty: Special warranties specified in this Article shall not deprive Owner of other rights Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements of the Contract Documents.

- B. Special Warranty: Written warranty, executed by manufacturer agreeing to repair or replace components of door hardware that fail in materials or workmanship within specified warranty period. Failures include, but are not limited to, the following:
 - 1. Structural failures including excessive deflection, cracking, or breakage.
 - 2. Faulty operation of operators and door hardware.
 - 3. Deterioration of metals, metal finishes, and other materials beyond normal weathering.
- C. Warranty Period for Locksets: Three, (3) years from date of Substantial Completion, unless otherwise indicated.
- D. Warranty Period for Manual Closers: Ten, (10) years from date of Substantial Completion, unless otherwise indicated.
- E. Warranty Period for Exit Devices: Three, (3) years from date of Substantial Completion, unless otherwise indicated.

1.8 MAINTENANCE SERVICE

- A. Maintenance Tools and Instructions: Furnish a complete set of specialized tools and maintenance instructions as needed for Owner's continued adjustment, maintenance, and removal and replacement of door hardware.
- B. Maintenance Service: Beginning at Substantial Completion, provide six months' full maintenance by skilled employees of door hardware Installer. Include quarterly preventive maintenance, repair or replacement of worn or defective components, lubrication, cleaning, and adjusting as required for proper door hardware operation. Provide parts and supplies as used in the manufacture and installation of original products.
- C. Engage a factory authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain door hardware and door hardware finishes.

PART 2 - PRODUCTS

2.1 SCHEDULED DOOR HARDWARE

- A. General: Provide door hardware for each door to comply with requirements in this Section, door hardware sets indicated in door and frame schedule, and the Door Hardware Schedule at the end of Part 3.
 - 1. Door Hardware Sets: Provide quantity, item, size, finish or color indicated, and named manufacturer's products. Retain subparagraph below for electrified door hardware.
 - 2. Sequence of Operation: Provide electrified door hardware function, sequence of operation, and interface with other building control systems indicated.
- B. Designations: Requirements for design, grade, function, finish, size, and other distinctive qualities of each type of door hardware are indicated in the Door Hardware Schedule at the end of Part 3. Products are identified by using door hardware designations, as follows:
 - 1. Named Manufacturer's Products: Product designation and manufacturer are listed for each door hardware type required for the purpose of

establishing minimum requirements. Manufacturers' names are abbreviated in the Door Hardware Schedule.

2. References to BHMA Standards: Provide products complying with these standards and requirements for description, quality, and function.

2.2 HINGES

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following or approved equal:
 1. Butt Hinges:
 - a. Stanley Commercial Hardware
 2. Continuous Hinges:
 - a. Architectural Builders Hardware Mfg., Inc.
 - b. Stanley Commercial Hardware
- B. Standards: Comply with the following:
 1. Hinges ANSI/BHMA Standard A156.1 Grade 1
 2. Continuous Hinges ANSI/BHMA Standard A156.26 Grade 1
- C. Template Requirements: Except for hinges and pivots to be installed entirely (both leaves) into wood doors and frames, provide only template-produced units.
- D. Concealed bearings are made from engineered polymer material with PTFE and Aramid fiber; bearing is maintenance free, no oil, no grease.
- E. Butt hinges equipped with easily seated, non-rising pin. Hole in bottom of pin enables quick pin removal for ease of installation.
- F. Continuous hinge material to be 14 gauge, 304 stainless steel
- G. Continuous hinge steel pin to be .25 diameter, 304 stainless steel
- H. Continuous hinge exterior barrel diameter .438 (7/16)
- I. Continuous hinge knuckle to be 2", including split nylon bearing at each separation for a quiet, smooth, self-lubricating operation
- J. All hinges to carry Warnock Hersey Int. or UL for fire rated doors and frames up to 3 hours
- K. Continuous hinges to have Symmetrically templated hole pattern
- L. Continuous hinge to have a 10 year Warranty
- M. Hinge Weight: Unless otherwise indicated, provide the following:
 1. Supports weights up to 600lbs.
- N. Hinge Base Metal: Unless otherwise indicated, provide the following:
 1. Exterior Continuous Hinges: Stainless steel, with stainless-steel pin,
 2. Interior Continuous Hinges: Stainless steel, with stainless-steel pin.
 3. Continuous Hinges for Fire-Rated Assemblies: Stainless steel, with stainless-steel pin.
 4. Exterior Butt Hinges: Stainless Steel or Brass or Bronze
 5. Interior Butt Hinges: Steel or Brass or Bronze

- O. Hinge Options: Comply with the following where indicated in the Door Hardware Schedule or on Drawings:
 - 1. Hospital Tips: Slope ends of hinge barrel.
 - 2. Maximum Security Pin: Fix pin in hinge barrel after it is inserted.
 - 3. Nonremovable Pins: Provide set screw in hinge barrel that, when tightened into a groove in hinge pin, prevents removal of pin while door is closed; for the following applications:
 - a. Outswinging exterior doors.
 - b. Outswinging corridor doors with locks.
- P. Continuous-Geared Aluminum Hinges: Minimum 0.120-inch- thick, hinge leaves with minimum overall width of 4 inches; fabricated to full height of door and frame. Finish components after milling and drilling are complete. Fabricate hinges to template screw locations.
- Q. All geared hinges to be heavy-gauge aluminum alloy with solid support blocks of self-lubricating DELRIN.
- R. All geared hinges to meet Dynamic and static load test for compliance with ANSI A156.1, (BHMA) for 350,000 cycles at 15 cycles per minute.
- S. Fasteners: Comply with the following:
 - 1. Machine Screws: For metal doors and frames. Install into drilled and tapped holes.
 - 2. Wood Screws: For wood doors and frames.
 - 3. Threaded-to-the-Head Wood Screws: For fire-rated wood doors.
 - 4. Screws: Phillips flat-head screws; machine screws drilled and tapped holes for metal doors, wood screws for wood doors and frames. Finish screw heads to match surface of hinges.

2.3 LOCKS AND LATCHES

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - 1. Mechanical Locks and Latches:
 - a. Best Lock Corporation, VA Coatesville Standard, No Substitution
- B. Standards: Comply with the following:
 - 1. Bored Locks and Latches: BHMA A156.2.
 - 2. Electromagnetic Locks: BHMA A156.23.
- C. Bored Locks: ANSI A156.2, BHMA Series 4000, Grade 1, and is UL Listed.
- D. Certified Products: Provide door hardware listed in the following BHMA directories:
 - 1. Mechanical Locks and Latches: BHMA's "Directory of Certified Locks & Latches."
 - 2. Electromagnetic Locks: BHMA's "Directory of Certified Electromagnetic & Delayed Egress Locks."
- E. Lock Trim: Comply with the following:
 - 1. Lever: Cylindrical Locks & Latches, Zinc material with a minimum wall thickness of .060

2. Dummy Trim: Match lever lock trim and escutcheons.

F. Lock Functions: Function numbers and descriptions indicated in the Door Hardware Schedule comply with the following:

1. Bored Locks: BHMA A156.2.

G. Lock Throw: Comply with testing requirements for length of bolts to comply with labeled fire door requirements, and as follows:

1. Bored Locks: Minimum 9/16-inch latch bolt throw.

2. Deadbolts: Minimum 1-inch bolt throw.

H. Backset: 2-3/4 inches, unless otherwise indicated.

I. Cylindrical Locks & Latches to have solid shank with no opening for access to keyed lever keeper.

2.4 DOOR BOLTS

A. Manufacturers: Subject to compliance with requirements, provide products by one of the following or approved equal:

1. Flush Bolts:

a. Burns Manufacturing Company, Inc.

b. Triangle Brass Manufacturing Company, Inc.

c. Assa / Abloy Rockwood Manufacturing Company, Inc.

B. Standards: Comply with the following:

1. Automatic and Self-Latching Flush Bolts: BHMA A156.3.

2. Manual Flush Bolts: BHMA A156.16.

C. Flush Bolts: BHMA Grade 1, designed for mortising into door edge.

D. Bolt Throw: Comply with testing requirements for length of bolts to comply with labeled fire door requirements, and as follows:

1. Mortise Flush Bolts: Minimum 3/4-inch throw.

2.5 EXIT DEVICES

A. Manufacturers: Subject to compliance with requirements, provide products by one of the following or approved equal:

1. Precision Hardware, Inc.

2. Von Duprin, Inc.

B. Standard: BHMA A156.3.

1. BHMA Grade: Grade 1

C. Certified Products: Provide exit devices listed in BHMA's "Directory of Certified Exit Devices."

D. Panic Exit Devices: Listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for panic protection, based on testing according to UL 305.

E. Fire Exit Devices: Complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire and panic protection, based on testing according to UL 305 and NFPA 252.

- F. Warranty: Exit device to have published Five (5) Year Warranty.
- G. Exit device shall be "touch pad" type with a touch pad that shall extend a minimum of one half (1/2) of the door width.
- H. Exit device shall have a one-quarter (1/4) gap between the face of the door and the touch bar channel eliminating the need for shims or cutting away the glass molding.
- I. Exit device lock stile chassis shall be investment cast steel. Stamped steel units will not be accepted. All device latch bolts shall be stainless steel and shall be deadlocking type.
- J. Exit device strikes shall be adjustable type investment cast stainless steel.
- K. Exit device shall include sound reduction dampening for both depression and extension of the touch pad.
- L. Exit device end cap shall be all metal and secured with a bracket that interlocks both at the touch bar channel base and hinge side filler to prevent end cap "peel-back".
- M. All exposed surfaces of the exit device housing shall be no less than 14 gauge brass or bronze; or no less than 16 gauge stainless steel. Aluminum housing type exit devices are not acceptable.
- N. Dummy Push Bar: Nonfunctioning push bar matching functional push bar.
 - 1. Operation: Rigid
- O. Outside Trim: Lever, Lever with cylinder, Pull, Pull with cylinder, material and finish to match locksets, unless otherwise indicated.
 - 1. Match design for locksets and latchsets, unless otherwise indicated.

2.6 CYLINDERS AND KEYING

- A. The local Best Access System service center shall furnish new master keys and cores directly to owner. All costs for cores, keys and master keying for this project are part of this bid package. All costs to install cores after construction if required are part of this bid package with hardware supplier installing cores on site. All costs for on site owner training (minimum 8-hours) if required by owner is included in this bid package.
- B. Manufacturers: Subject to compliance with requirements, provide products by one of the following or approved equal:
 - 1. Cylinders:
 - a. Best Lock Corporation, VA Coatesville Standard, No Substitution
 - b. All cylinders shall be Best Patented Cormax, 7-pin interchangeable cores.
- C. Standards: Comply with the following:
 - 1. Cylinders: BHMA A156.5.
- D. Cylinder Grade: BHMA Grade 1, Cylinders: Manufacturer's standard tumbler type, constructed from brass or bronze, stainless steel, or nickel silver, and complying with the following:
 - 1. Number of Pins: Seven.
 - 2. Mortise Type: Threaded cylinders with rings and straight- or clover-type cam.

3. Rim Type: Cylinders with back plate, flat-type vertical or horizontal tailpiece, and raised trim ring.
4. Bored-Lock Type: Cylinders with tailpieces to suit locks.
- E. Permanent Cores: Manufacturer's standard; finish face to match lockset; complying with the following:
 1. Removable Cores: Core insert, removable by use of a special key, and for use with only the core manufacturer's locksets.
- F. Construction Keying: Comply with the following:
 1. Construction Cores: Provide Brass construction cores in all locksets and cylinders that are replaceable by permanent cores.
 - a. Replace Brass construction cores with permanent cores, as indicated in keying schedule
- G. Keying System: Unless otherwise indicated, provide a factory-registered keying system complying with the following requirements:
 1. No Master Key System: Cylinders are operated by change keys only.
 2. Master Key System: Cylinders are operated by a change key and a master key.
 3. Grand Master Key System: Cylinders are operated by a change key, a master key, and a grand master key.
 4. Great-Grand Master Key System: Cylinders are operated by a change key, a master key, a grand master key, and a great-grand master key.
 5. Existing System: Master key or grand master key locks to Owner's existing system.
 6. Keyed Alike: Key all cylinders to the same change key.
- H. Keys: Provide nickel-silver keys complying with the following:
 1. Stamping: Permanently inscribe each key with a visual key control number and include the following notation:
 - a. Notation: **"DO NOT DUPLICATE."**
 2. Quantity: In addition to one extra blank key for each lock, provide the following:
 - a. Cylinder Change Keys: Three.
 - b. Master Keys: Five.
 - c. Grand Master Keys: Five.
 - d. Great-Grand Master Keys: Five.
 - e. Control Keys: Five
 - f. Construction Master Keys: Ten
 - g. Construction Core Control Keys: Five

2.7 STRIKES

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following or approved equal:
 1. Electric Strikes:
 - a. Security Door Controls Inc.

- b. Folger Adam Security Inc.
- B. Standards: Comply with the following:
 - 1. Strikes for Bored Locks and Latches: BHMA A156.2.
 - 2. Strikes for Mortise Locks and Latches: BHMA A156.13.
 - 3. Strikes for Interconnected Locks and Latches: BHMA A156.12.
 - 4. Strikes for Auxiliary Deadlocks: BHMA A156.5.
 - 5. Dustproof Strikes: BHMA A156.16.
 - 6. Electric Strikes: BHMA A156.5.
- C. Strikes: Provide manufacturer's standard strike with strike box for each latch or lock bolt, with curved lip extended to protect frame, finished to match door hardware set, unless otherwise indicated, and as follows:
 - 1. Flat-Lip Strikes: For locks with three-piece antifriction latch bolts, as recommended by manufacturer.
 - 2. Extra-Long-Lip Strikes: For locks used on frames with applied wood casing trim.
 - 3. Aluminum-Frame Strike Box: Provide manufacturer's special strike box fabricated for aluminum framing.
- D. Dustproof Strikes: BHMA Grade 1
- E. Electric Strikes: BHMA Grade 1

2.8 OPERATING TRIM

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following or approved equal:
 - 1. Burns Manufacturing Company, Inc.
 - 2. Stanley Commercial Hardware
- B. Standard: Comply with BHMA A156.6.
- C. Materials: Fabricate from aluminum, brass, bronze, stainless steel, unless otherwise indicated.

2.9 ACCESSORIES FOR PAIRS OF DOORS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - 1. Coordinators:
 - a. Burns Manufacturing Company, Inc.
 - b. Triangle Brass Manufacturing Company, Inc.
 - 2. Removable Mullions:
 - a. Precision Hardware, Inc.
 - b. Von Duprin, Inc.
 - 3. Astragals:
 - a. Stanley Commercial Hardware
 - b. Architectural Builders Hardware, Inc.
- B. Standards: Comply with the following:

1. Coordinators: BHMA A156.3.

2. Removable Mullions: BHMA A156.3.

- C. Fire-Exit Removable Mullions: Provide removable mullions for use with fire exit devices complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire and panic protection, based on testing according to UL 305 and NFPA 252. Mullions shall be used only with exit devices for which they have been tested.

2.10 CLOSERS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following or approved equal:

1. Surface-Mounted Closers:

a. Stanley Commercial Hardware

- B. Standards: Comply with the following:

1. Closers: BHMA A156.4.

- C. Surface Closers: BHMA Grade 1

- D. Certified Products: Provide door closers listed in BHMA's "Directory of Certified Door Closers."

- E. Size of Units: Unless otherwise indicated, comply with manufacturer's written recommendations for size of door closers depending on size of door, exposure to weather, and anticipated frequency of use. Provide factory-sized closers, adjustable to meet field conditions and requirements for opening force.

2.11 PROTECTIVE TRIM UNITS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following or approved equal:

1. Metal Protective Trim Units:

a. Burns Manufacturing Company, Inc.

b. Triangle Brass Manufacturing Company, Inc.

- B. Standard: Comply with BHMA A156.6.

- C. Materials: Fabricate protection plates from the following:

1. Stainless Steel: 0.050 inch thick; beveled 4 sides.

- D. Fasteners: Provide manufacturer's standard exposed fasteners for door trim units consisting of either machine or self-tapping screws.

- E. Furnish protection plates sized 2" less than door width on push side and 1" less than door width on pull side, by height specified in Door Hardware Schedule.

2.12 STOPS AND HOLDERS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following or approved equal:

1. Architectural Builders Hardware Mfg., Inc.

2. Triangle Brass Manufacturing Company, Inc.

B. Standards: Comply with the following:

1. Stops and Bumpers: BHMA A156.16.
2. Mechanical Door Holders: BHMA A156.16.
3. Electromagnetic Door Holders: BHMA A156.15.
4. Combination Overhead Holders and Stops: BHMA A156.8.
5. Door Silencers: BHMA A156.16.

C. Stops and Bumpers: BHMA Grade 1

D. Mechanical Door Holders: BHMA Grade 1

E. Combination Overhead Stops and Holders: BHMA Grade 1

F. Electromagnetic Door Holders for Labeled Fire Door Assemblies: Coordinate with fire detectors and interface with fire alarm system.

G. Silencers for Metal Door Frames: BHMA Grade 1; neoprene or rubber, minimum diameter 1/2 inch; fabricated for drilled-in application to frame.

2.13 DOOR GASKETING

A. Manufacturers: Subject to compliance with requirements, provide products by one of the following or approved equal:

1. Door Gasketing:

- a. Reese Manufacturing Co., Inc.
- b. National Guard Products, Inc.

2. Door Bottoms:

- a. Reese Manufacturing Co., Inc.
- b. National Guard Products

B. Standard: Comply with BHMA A156.22.

C. General: Provide continuous weather-strip gasketing on exterior doors and provide smoke, light, or sound gasketing on interior doors where indicated or scheduled. Provide noncorrosive fasteners for exterior applications and elsewhere as indicated.

1. Perimeter Gasketing: Apply to head and jamb, forming seal between door and frame.
2. Meeting Stile Gasketing: Fasten to meeting stiles, forming seal when doors are closed.
3. Door Bottoms: Apply to bottom of door, forming seal with threshold when door is closed.

D. Air Leakage: Not to exceed 0.50 cfm per foot of crack length for gasketing other than for smoke control, as tested according to ASTM E 283.

E. Smoke-Labeled Gasketing: Assemblies complying with NFPA 105 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for smoke-control ratings indicated, based on testing according to UL 1784.

1. Provide smoke-labeled gasketing on 20-minute-rated doors and on smoke-labeled doors.

- F. Fire-Labeled Gasketing: Assemblies complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire ratings indicated, based on testing according to UL 10B or NFPA 252.
- G. Sound-Rated Gasketing: Assemblies that are listed and labeled by a testing and inspecting agency, for sound ratings indicated, based on testing according to ASTM E 1408.
- H. Replaceable Seal Strips: Provide only those units where resilient or flexible seal strips are easily replaceable and readily available from stocks maintained by manufacturer.
- I. Gasketing Materials: Comply with ASTM D 2000 and AAMA 701/702.

2.14 THRESHOLDS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following or approved equal:
 - a. Reese Manufacturing Co., Inc.
 - 2. National Guard Products, Inc.
- B. Standard: Comply with BHMA A156.21.

2.15 FABRICATION

- A. Manufacturer's Nameplate: Do not provide manufacturers' products that have manufacturer's name or trade name displayed in a visible location (omit removable nameplates) except in conjunction with required fire-rated labels and as otherwise approved by Architect.
 - 1. Manufacturer's identification will be permitted on rim of lock cylinders only.
- B. Base Metals: Produce door hardware units of base metal, fabricated by forming method indicated, using manufacturer's standard metal alloy, composition, temper, and hardness. Furnish metals of a quality equal to or greater than that of specified door hardware units and BHMA A156.18 for finishes. Do not furnish manufacturer's standard materials or forming methods if different from specified standard.
- C. Fasteners: Provide door hardware manufactured to comply with published templates generally prepared for machine, wood, and sheet metal screws. Provide screws according to commercially recognized industry standards for application intended. Provide Phillips flat-head screws with finished heads to match surface of door hardware, unless otherwise indicated.
 - 1. Concealed Fasteners: For door hardware units that are exposed when door is closed, except for units already specified with concealed fasteners. Do not use through bolts for installation where bolt head or nut on opposite face is exposed unless it is the only means of securely attaching the door hardware. Where through bolts are used on hollow door and frame construction, provide sleeves for each through bolt.
 - 2. Steel Machine or Wood Screws: For the following fire-rated applications:
 - a. Mortise hinges to doors.
 - b. Strike plates to frames.
 - c. Closers to doors and frames.

3. Steel Through Bolts: For the following fire-rated applications, unless door blocking is provided:
 - a. Surface hinges to doors.
 - b. Closers to doors and frames.
 - c. Surface-mounted exit devices.
4. Spacers or Sex Bolts: For through bolting of hollow metal doors.
5. Fasteners for Wood Doors: Comply with requirements of DHI WDHS.2, "Recommended Fasteners for Wood Doors."

2.16 FINISHES

- A. Standard: Comply with BHMA A156.18.
- B. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.
- C. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable if they are within one-half of the range of approved Samples. Noticeable variations in the same piece are not acceptable. Variations in appearance of other components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.
- D. BHMA Designations: Comply with base material and finish requirements indicated by the following:
 1. BHMA 600: Primed for painting, over steel base metal.
 2. BHMA 626: Satin chromium plated over nickel, over brass or bronze base metal.
 3. BHMA 628: Satin aluminum, clear anodized, over aluminum base metal.
 4. BHMA 630: Satin stainless steel, over stainless steel base metal.
 5. BHMA 652: Satin chromium plated over nickel, over steel base metal.
 6. BHMA 689: Aluminum painted, over any base metal.
 7. BMHA 633: Satin Brass, over steel base metal.
 8. BMHA 606: Satin Brass, over any base metal

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine doors and frames, with Installer present, for compliance with requirements for installation tolerances, labeled fire door assembly construction, wall and floor construction, and other conditions affecting performance.
- B. Examine roughing-in for electrical power systems to verify actual locations of wiring connections before electrified door hardware installation.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Steel Doors and Frames: Comply with DHI A115 series.

1. Surface-Applied Door Hardware: Drill and tap doors and frames according to SDI 107.

B. Wood Doors: Comply with DHI A115-W series.

3.3 INSTALLATION

- A. Mounting Heights: Mount door hardware units at heights indicated in following applicable publications, unless specifically indicated or required to comply with governing regulations:
 1. Standard Steel Doors and Frames: DHI's "Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames."
 2. Custom Steel Doors and Frames: DHI's "Recommended Locations for Builders' Hardware for Custom Steel Doors and Frames."
 3. Wood Doors: DHI WDHS.3, "Recommended Locations for Architectural Hardware for Wood Flush Doors."
- B. Install each door hardware item to comply with manufacturer's written instructions. Where cutting and fitting are required to install door hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation of surface protective trim units with finishing work specified in Division 9 Sections. Do not install surface-mounted items until finishes have been completed on substrates involved.
 1. Set units level, plumb, and true to line and location. Adjust and reinforce attachment substrates as necessary for proper installation and operation.
 2. Drill and countersink units that are not factory prepared for anchorage fasteners. Space fasteners and anchors according to industry standards.
- C. Key Control System: Place keys on markers and hooks in key control system cabinet, as determined by final keying schedule. Supply key cabinet with 25% expansion. Factory install keys in cabinet or in field with owner's representative. Key cabinet to be supplied with a "Complete System" equal to the Telkee System.
- D. Boxed Power Supplies: Locate power supplies as indicated or, if not indicated, above accessible ceilings, in equipment room. Verify location with Architect.
 1. Configuration: Provide one power supply for each door opening.
 2. Configuration: Provide the least number of power supplies required to adequately serve doors with electrified door hardware.
- E. Thresholds: Set thresholds for exterior and acoustical doors in full bed of sealant complying with requirements specified in Division 7 Section "Joint Sealants."

3.4 FIELD QUALITY CONTROL

- A. Independent Architectural Hardware Consultant: Owner or Architect will engage a qualified independent Architectural Hardware Consultant to perform inspections and to prepare inspection reports.
 1. Independent Architectural Hardware Consultant will inspect door hardware and state in each report whether installed work complies with or deviates from requirements, including whether door hardware is properly installed and adjusted.

3.5 ADJUSTING

- A. Initial Adjustment: Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.
 - 1. Spring Hinges: Adjust to achieve positive latching when door is allowed to close freely from an open position of 30 degrees.
 - 2. Electric Strikes: Adjust horizontal and vertical alignment of keeper to properly engage lock bolt.
 - 3. Door Closers: Adjust sweep period so that, from an open position of 70 degrees, the door will take at least 3 seconds to move to a point 3 inches from the latch, measured to the leading edge of the door.
- B. Six-Month Adjustment: Approximately six months after date of Substantial Completion, Installer shall perform the following:
 - 1. Examine and readjust each item of door hardware as necessary to ensure function of doors, door hardware, and electrified door hardware.
 - 2. Consult with and instruct Owner's personnel on recommended maintenance procedures.
 - 3. Replace door hardware items that have deteriorated or failed due to faulty design, materials, or installation of door hardware units.

3.6 CLEANING AND PROTECTION

- A. Clean adjacent surfaces soiled by door hardware installation.
- B. Clean operating items as necessary to restore proper function and finish.
- C. Provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of Substantial Completion.

3.7 DEMONSTRATION

- A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain door hardware and door hardware finishes.

3.8 DOOR HARDWARE SCHEDULE

Hardware Set #: 0001 - PRS DRS HMD & HMF EXTERIOR
E119

Opening to Have:

Qty	Description	Finish	Mfg
2	CONTINUOUS HINGE A110HDC x FULL HEIGHT	628	ABH
3	MORTISE CYLINDER [IC] 1E74 x C4 x RP3 x ABC x CORMAX	626	BEST
1	SVR EXIT DEVICE 2201CD x EXIT ONLY	630	PRECISION
1	MORTISE EXIT DEVICE 2303CD x M4903D x S984	630	PRECISION
2	MOUNTING BRACKET 72AB / 72C AS REQ	600	BURNS
1	COORDINATOR 7600 x FILLER BAR	600	BURNS
2	DOOR CLOSER D-4550 x HCS x SRI	689	STANLEY
2	KICK PLATE 16" x 1" LDW .050 B4E x CSK	630	BURNS
1	TEAR DROP SEAL 797B x HEAD & JAMBS	BLK	REESE
2	MEETING STILE SEALS 103C x FULL HEIGHT	628	REESE
1	RAIN DRIP R201A x FULL WIDTH + 4"	628	REESE

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1 THRESHOLD S483APR x SRS x FHSL x FULL WIDTH	628	REESE
2 DOOR SWEEP 772A x FULL WIDTH	628	REESE

Hardware Set #: 0002 - PRS DRS ALUM DRS & ALUM FR EXTERIOR
 E134

Opening to Have:

Qty Description	Finish	Mfg
2 CONTINUOUS HINGE A110HDC x FULL HEIGHT	628	ABH
2 MORTISE CYLINDER [IC] 1E74 x C4 x RP3 x ABC x CORMAX	626	BEST
2 RIM CYLINDER [IC] 1E72 x RP x ABC x CORMAX	626	BEST
1 RIM EXIT DEVICE 2101CD x EXIT ONLY	630	PRECISION
1 RIM EXIT DEVICE 2103CD x CA-03 x S301	630	PRECISION
1 REMOVABLE MULLION KR822 x ST989 x MCS822	689	PRECISION
2 DOOR PULL M36D x 12" CTC x TYPE-1HD TB	630	BURNS
2 DOOR CLOSER D-4550 x HCS x SRI	689	STANLEY
2 SPACER BLOCK P45HD-110 (HD ARMS)	689	STANLEY
2 MOUNTING PLATE P45-180D (PA MOUNT)	689	STANLEY
2 ANGLE BRACKET SHOE P45HD-112	689	STANLEY
1 THRESHOLD S483APR x SRS x FHSL x FULL WIDTH	628	REESE
2 DOOR BOTTOM SWEEP (CONCEALED) BY ALUMINUM DOOR SUPPLIER		
1 JAMB SEALS BY ALUMINUM FRAME SUPPLIER		

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Hardware Set #: 0002.1 - PRS DRS ALUM DRS & ALUM FR EXTERIOR
E107

Opening to Have:

Qty	Description	Finish	Mfg
2	CONTINUOUS HINGE A110HDC x FULL HEIGHT	628	ABH
2	MORTISE CYLINDER [IC] 1E74 x C4 x RP3 x ABC x CORMAX	626	BEST
1	RIM CYLINDER [IC] 1E72 x RP x ABC x CORMAX	626	BEST
2	POWER TRANSFER PT1000	628	ABH
2	DOOR PULL M36D x 12" CTC x TYPE-1HD TB	630	BURNS
1	POWER SUPPLY ELR-152	600	PRECISION
1	CVR EXIT DEVICE ELR-2803CD x CO3	630	PRECISION
1	CVR EXIT DEVICE ELR-2803CD x EXIT ONLY	630	PRECISION
1	BOLLARD POST CL2248 x ANCHOR AS REQ	628	STANLEY
2	AUTOMATIC OPERATOR 8R-D-4990 x PS490 x PUSH SIDE MOUNT	628	STANLEY
2	WALL ACTUATORS CL4163 x 4-1/2" x HARDWIRED	630	STANLEY
2	O/H SURFACE STOP N9000 x ADJ x STOP	630	ABH
2	PASSIVE INFRARED MD31D-W x 24VDC x SPDT	714	SDC
1	THRESHOLD S483APR x SRS x FHSL x FULL WIDTH	628	REESE
2	DOOR BOTTOM SWEEP (CONCEALED) BY ALUMINUM DOOR SUPPLIER		
1	JAMB SEALS BY ALUMINUM FRAME SUPPLIER		

Hardware Set #: 0003 - SGL DRS HMD & HMF EXTERIOR
E136

Opening to Have:

Qty	Description	Finish	Mfg
1	CONTINUOUS HINGE A110HDC x FULL HEIGHT	628	ABH
1	MORTISE CYLINDER [IC] 1E74 x C4 x RP3 x ABC x CORMAX	626	BEST
1	RIM CYLINDER [IC] 1E72 x RP x ABC x CORMAX	626	BEST
1	POWER TRANSFER PT1000	628	ABH
1	POWER SUPPLY ELR-151	600	PRECISION
1	RIM EXIT DEVICE ELR-2103CD x 4903D	630	PRECISION
1	BOLLARD POST CL2248 x ANCHOR AS REQ	628	STANLEY
1	AUTOMATIC OPERATOR 8R-D-4990 x PS490 x PUSH SIDE MOUNT	628	STANLEY
2	WALL ACTUATORS CL4163 x 4-1/2" x HARDWIRED	630	STANLEY
1	KICK PLATE 16" x 2" LDW .050 B4E x CSK	630	BURNS
2	PASSIVE INFRARED MD31D-W x 24VDC x SPDT	714	SDC
1	TEAR DROP SEAL 797B x HEAD & JAMBS	BLK	REESE
1	RAIN DRIP R201A x FULL WIDTH + 4"	628	REESE
1	THRESHOLD S483APR x SRS x FHSL x FULL WIDTH	628	REESE
1	DOOR SWEEP 772A x FULL WIDTH	628	REESE

Hardware Set #: 0004 - SGL DRS WD & HMF
106A 106B 601A 605A

Opening to Have:

Qty	Description	Finish	Mfg
3	HINGE CB168 4.5 x 4.5	652	STANLEY
1	DEADBOLT (CLASSROOM) 48H7-R x ABC x CORMAX	626	BEST
1	PUSH PLATE 56 6" x 16" .050 x B4E	630	BURNS
1	PULL PLATE 5426C 4" x 16" x 10" CTC x T/B	630	BURNS
1	DOOR CLOSER D-4551 x REG	689	STANLEY
1	KICK PLATE 10" x 2" LDW .050 B4E x CSK	630	BURNS
1	MOP PLATE 6" x 1" LDW .050 B4E x CSK	630	BURNS

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1 WALL STOP 575
3 SILENCERS 500

630 BURNS
GRAY BURNS

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Hardware Set #: 0005 - SGL DRS WD & HMF
403 404 601C 605B 802A

Opening to Have:

Qty	Description	Finish	Mfg
3	HINGE CB168 4.5 x 4.5	652	STANLEY
1	PRIVACY LOCKSET 93K0-L-15D-S3	626	BEST
1	KICK PLATE 10" x 2" LDW .050 B4E x CSK	630	BURNS
1	MOP PLATE 6" x 1" LDW .050 B4E x CSK	630	BURNS
1	WALL STOP 575	630	BURNS
3	SILENCERS 500	GRAY	BURNS

Hardware Set #: 0006 - SGL DRS WD & HMF
604C

Opening to Have:

Qty	Description	Finish	Mfg
3	HINGE CB168 4.5 x 4.5	652	STANLEY
1	PRIVACY LOCKSET 93K0-L-15D-S3	626	BEST
1	KICK PLATE 10" x 2" LDW .050 B4E x CSK	630	BURNS
1	MOP PLATE 6" x 1" LDW .050 B4E x CSK	630	BURNS
1	O/H CONCEALED STOP 4024 x STOP (36" TO 48" DR)	630	ABH
3	SILENCERS 500	GRAY	BURNS

Hardware Set #: 0007 - SGL DRS WD & HMF
102 103 104 109 111 112 113 115 116 117 118 128
302 401 405 406 407 408 409 411 503A 604 604B

Opening to Have:

Qty	Description	Finish	Mfg
3	HINGE CB168 4.5 x 4.5	652	STANLEY
1	ENTRANCE LOCKSET 93K7-AB-15D-S3 x ABC x CORMAX	626	BEST
1	KICK PLATE 10" x 2" LDW .050 B4E x CSK	630	BURNS
1	MOP PLATE 6" x 1" LDW .050 B4E x CSK	630	BURNS
1	WALL STOP 575	630	BURNS
3	SILENCERS 500	GRAY	BURNS

Hardware Set #: 0008 - SGL DRS HMD & HMF LABEL
100A 100B

Opening to Have:

Qty	Description	Finish	Mfg
3	HINGE CB168 4.5 x 4.5 x NRP	652	STANLEY
1	RIM CYLINDER [IC] 1E72 x RP x ABC x CORMAX	626	BEST
1	POWER TRANSFER PT1000	628	ABH
1	POWER SUPPLY ELR-151	600	PRECISION
1	RIM EXIT DEVICE ELR-FL2103 x 4903D	630	PRECISION
1	AUTOMATIC OPERATOR 8R-D-4990 x PS490 x PUSH SIDE MOUNT	628	STANLEY
2	WALL ACTUATORS CL4163 x 4-1/2" x HARDWIRED	630	STANLEY
1	KICK PLATE 16" x 1" LDW .050 B4E x CSK	630	BURNS
1	MOP PLATE 6" x 1" LDW .050 B4E x CSK	630	BURNS
1	O/H SURFACE STOP 9000 x ADJ x STOP	630	ABH
2	PASSIVE INFRARED MD31D-W x 24VDC x SPDT	714	SDC

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1 TEAR DROP SEAL 797B x HEAD & JAMBS

BLK REESE

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Hardware Set #: 0009 - PRS DRS WD & HMF
101

Opening to Have:

Qty	Description	Finish	Mfg
6	HINGE CB168 4.5 x 4.5	652	STANLEY
1	DUST PROOF STRIKE 545	626	BURNS
2	FLUSH BOLT 590 1" x 6-3/4" x 12"	626	BURNS
1	CLASSROOM LOCKSET 93K7-R-15D-S3-7/8 x ABC x CORMAX	626	BEST
1	DUMMY TRIM 93K0-1DT-15D	626	BEST
1	ASTRAGAL 548TB x BEVEL EDGE x FULL HEIGHT	630	ABH
2	DOOR CLOSER D-4551 x REG x H	689	STANLEY
1	DOOR TO SWING 180'		
2	KICK PLATE 10" x 1" LDW .050 B4E x CSK	630	BURNS
2	MOP PLATE 6" x 1" LDW .050 B4E x CSK	630	BURNS
1	O/H CONCEALED STOP 4024 x STOP (36" TO 48" DR)	630	ABH
1	WALL STOP 575	630	BURNS
2	SILENCERS 500	GRAY	BURNS

Hardware Set #: 0010 - SGL DRS WD & HMF
000 105

Opening to Have:

Qty	Description	Finish	Mfg
3	HINGE CB168 4.5 x 4.5	652	STANLEY
1	STOREROOM LOCKSET 93K7-D-15D-S3 x ABC x CORMAX	626	BEST
1	DOOR CLOSER D-4551 x REG	689	STANLEY
1	KICK PLATE 10" x 2" LDW .050 B4E x CSK	630	BURNS
1	MOP PLATE 6" x 1" LDW .050 B4E x CSK	630	BURNS
1	WALL STOP 575	630	BURNS
3	SILENCERS 500	GRAY	BURNS

Hardware Set #: 0011 - PRS DRS ALUM DRS & ALUM FR
107

Opening to Have:

Qty	Description	Finish	Mfg
2	CONTINUOUS HINGE A110HDC x FULL HEIGHT	628	ABH
2	PUSH / PULL BAR M422 x M36D x (2) T-1HD x (1) T-5HD	630	BURNS
2	AUTOMATIC OPERATOR 8R-D-4990 x PS490 x PUSH SIDE MOUNT	628	STANLEY
2	WALL ACTUATORS CL4163 x 4-1/2" x HARDWIRED	630	STANLEY
2	PASSIVE INFRARED MD31D-W x 24VDC x SPDT	714	SDC

Hardware Set #: 0012 - PRS DRS WD & HMF (DOUBLE EGRESS)
110

Opening to Have:

Qty	Description	Finish	Mfg
6	HINGE CB168 4.5 x 4.5	652	STANLEY
2	MORTISE CYLINDER [IC] 1E74 x C4 x RP3 x ABC x CORMAX	626	BEST
2	EXIT DEVICE TO BE LESS BOTTOM ROD		PRECISION
2	SVR EXIT DEVICE 2201CD x EXIT ONLY	630	PRECISION
2	DOOR CLOSER D-4550 x EDA	689	STANLEY

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4 KICK PLATE 16" x 1" LDW .050 B4E x CSK
2 SILENCERS 500

630 BURNS
GRAY BURNS

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Hardware Set #: 0013 - PRS DRS WD & HMF
119

Opening to Have:

Qty	Description	Finish	Mfg
6	HINGE CB168 4.5 x 4.5	652	STANLEY
1	AUTOMATIC FLUSH BOLTS 7949WD x TOP ONLY	630	BURNS
1	CLASSROOM LOCKSET 93K7-R-15D-S3-7/8 x ABC x CORMAX	626	BEST
1	DUMMY TRIM 93K0-1DT-15D	626	BEST
1	ASTRAGAL 548TB x BEVEL EDGE x FULL HEIGHT	630	ABH
1	COORDINATOR 7600 x FILLER BAR	600	BURNS
2	DOOR CLOSER D-4551 x REG	689	STANLEY
2	KICK PLATE 10" x 1" LDW .050 B4E x CSK	630	BURNS
2	MOP PLATE 6" x 1" LDW .050 B4E x CSK	630	BURNS
2	SILENCERS 500	GRAY	BURNS

Hardware Set #: 0014 - SGL DRS WD & HMF LABEL
121

Opening to Have:

Qty	Description	Finish	Mfg
3	HINGE CB168 4.5 x 4.5 x NRP	652	STANLEY
1	STOREROOM LOCKSET 93K7-D-15D-S3 x ABC x CORMAX	626	BEST
1	DOOR CLOSER D-4550 x CS	689	STANLEY
1	KICK PLATE 16" x 2" LDW .050 B4E x CSK	630	BURNS
1	MOP PLATE 6" x 1" LDW .050 B4E x CSK	630	BURNS
1	TEAR DROP SEAL 797B x HEAD & JAMBS	BLK	REESE

Hardware Set #: 0015 - SGL DRS WD & HMF
122 301

Opening to Have:

Qty	Description	Finish	Mfg
3	HINGE CB168 4.5 x 4.5	652	STANLEY
1	CLASSROOM LOCKSET 93K7-R-15D-S3 x ABC x CORMAX	626	BEST
1	DOOR CLOSER D-4551 x REG	689	STANLEY
1	KICK PLATE 10" x 2" LDW .050 B4E x CSK	630	BURNS
1	MOP PLATE 6" x 1" LDW .050 B4E x CSK	630	BURNS
1	WALL STOP 575	630	BURNS
3	SILENCERS 500	GRAY	BURNS

Hardware Set #: 0016 - SGL DRS WD & HMF
123

Opening to Have:

Qty	Description	Finish	Mfg
3	HINGE CB168 4.5 x 4.5 x NRP	652	STANLEY
1	STOREROOM LOCKSET 93K7-D-15D-S3 x ABC x CORMAX	626	BEST
1	ARMOR PLATE 34" x 2" LDW .050 B4E x CSK	630	BURNS
1	MOP PLATE 6" x 1" LDW .050 B4E x CSK	630	BURNS
1	WALL STOP 575	630	BURNS
3	SILENCERS 500	GRAY	BURNS

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Hardware Set #: 0017 - SGL DRS WD & HMF LABEL
124A 701A

Opening to Have:

Qty Description	Finish	Mfg
3 HINGE CB168 4.5 x 4.5	652	STANLEY
1 STOREROOM LOCKSET 93K7-D-15D-S3 x ABC x CORMAX	626	BEST
1 DOOR CLOSER D-4551 x REG	689	STANLEY
1 KICK PLATE 16" x 2" LDW .050 B4E x CSK	630	BURNS
1 MOP PLATE 6" x 1" LDW .050 B4E x CSK	630	BURNS
1 O/H SURFACE STOP 4424 x STOP (36" TO 48" DR)	630	ABH
1 TEAR DROP SEAL 797B x HEAD & JAMBS	BLK	REESE

Hardware Set #: 0018 - SGL DRS WD & HMF
126 701B

Opening to Have:

Qty Description	Finish	Mfg
3 HINGE CB168 4.5 x 4.5	652	STANLEY
1 STOREROOM LOCKSET 93K7-D-15D-S3 x ABC x CORMAX	626	BEST
1 KICK PLATE 16" x 2" LDW .050 B4E x CSK	630	BURNS
1 MOP PLATE 6" x 1" LDW .050 B4E x CSK	630	BURNS
1 WALL STOP 575	630	BURNS
3 SILENCERS 500	GRAY	BURNS

Hardware Set #: 0019 - SGL DRS WD & HMF
127 204 703 805

Opening to Have:

Qty Description	Finish	Mfg
3 HINGE CB168 4.5 x 4.5	652	STANLEY
1 ENTRANCE LOCKSET 93K7-AB-15D-S3 x ABC x CORMAX	626	BEST
1 KICK PLATE 10" x 2" LDW .050 B4E x CSK	630	BURNS
1 MOP PLATE 6" x 1" LDW .050 B4E x CSK	630	BURNS
1 O/H CONCEALED STOP 4024 x STOP (36" TO 48" DR)	630	ABH
3 SILENCERS 500	GRAY	BURNS

Hardware Set #: 0020 - PRS DRS WD & HMF
129

Opening to Have:

Qty Description	Finish	Mfg
6 HINGE CB168 4.5 x 4.5	652	STANLEY
1 DUST PROOF STRIKE 545	626	BURNS
2 FLUSH BOLT 590 1" x 6-3/4" x 12"	626	BURNS
1 CLASSROOM LOCKSET 93K7-R-15D-S3-7/8 x ABC x CORMAX	626	BEST
1 DUMMY TRIM 93K0-1DT-15D	626	BEST
2 KICK PLATE 10" x 1" LDW .050 B4E x CSK	630	BURNS
2 MOP PLATE 6" x 1" LDW .050 B4E x CSK	630	BURNS
2 WALL STOP 575	630	BURNS
2 SILENCERS 500	GRAY	BURNS

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Coatesville, PA 19320

January 22, 2014
Issued for Bid
Project No. 542-COI-203

Hardware Set #: 0021 - SGL DRS WD & HMF LABEL
131

Opening to Have:

Qty Description	Finish	Mfg
3 HINGE CBI68 5 x 4.5	652	STANLEY
1 STOREROOM LOCKSET 93K7-D-15D-S3 x ABC x CORMAX	626	BEST
1 DOOR CLOSER D-4551 x REG	689	STANLEY
1 KICK PLATE 16" x 2" LDW .050 B4E x CSK	630	BURNS
1 MOP PLATE 6" x 1" LDW .050 B4E x CSK	630	BURNS
1 TEAR DROP SEAL 797B x HEAD & JAMBS	BLK	REESE

Hardware Set #: 0022 - SGL DRS WD & HMF LABEL
114 416B 416C 804

Opening to Have:

Qty Description	Finish	Mfg
3 HINGE CBI68 5 x 4.5	652	STANLEY
1 STOREROOM LOCKSET 93K7-D-15D-S3 x ABC x CORMAX	626	BEST
1 DOOR CLOSER D-4551 x REG	689	STANLEY
1 KICK PLATE 16" x 2" LDW .050 B4E x CSK	630	BURNS
1 MOP PLATE 6" x 1" LDW .050 B4E x CSK	630	BURNS
1 WALL STOP 575	630	BURNS
1 TEAR DROP SEAL 797B x HEAD & JAMBS	BLK	REESE

Hardware Set #: 0023 - PRS DRS WD & HMF
133A

Opening to Have:

Qty Description	Finish	Mfg
6 HINGE CBI68 4.5 x 4.5 x NRP	652	STANLEY
1 FLUSH BOLT 590 1" x 6-3/4" x 12" x TOP ONLY	626	BURNS
1 CLASSROOM LOCKSET 93K7-R-15D-S3-7/8 x ABC x CORMAX	626	BEST
1 DUMMY TRIM 93K0-1DT-15D	626	BEST
2 KICK PLATE 10" x 1" LDW .050 B4E x CSK	630	BURNS
2 MOP PLATE 6" x 1" LDW .050 B4E x CSK	630	BURNS
2 O/H CONCEALED STOP 4014 x HO (36" TO 48" DR)	630	ABH
2 SILENCERS 500	GRAY	BURNS

Hardware Set #: 0024 - PRS DRS ALUM DRS & ALUM FR
134

Opening to Have:

Qty Description	Finish	Mfg
2 CONTINUOUS HINGE A110HDC x FULL HEIGHT	628	ABH
2 MORTISE CYLINDER [IC] 1E74 x C4 x RP3 x ABC x CORMAX	626	BEST
1 RIM CYLINDER [IC] 1E72 x RP x ABC x CORMAX	626	BEST
2 EXIT DEVICE TO BE LESS BOTTOM ROD		PRECISION
1 SVR EXIT DEVICE 2201CD x EXIT ONLY	630	PRECISION
1 SVR EXIT DEVICE 2203CD x CA-03	630	PRECISION
2 DOOR PULL M36D x 12" CTC x TYPE-1HD TB	630	BURNS
2 DOOR CLOSER D-4550 x H-EDA	689	STANLEY
2 SPACER BLOCK P45HD-110 (HD ARMS)	689	STANLEY

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2 MOUNTING PLATE P45-180D (PA MOUNT)	689	STANLEY
2 ANGLE BRACKET SHOE P45HD-112	689	STANLEY
2 WALL STOP 575	630	BURNS

Hardware Set #: 0025 - PRS DRS WD & HMF
136 600B

Opening to Have:

Qty Description	Finish	Mfg
6 HINGE CB168 5 x 4.5 x NRP	652	STANLEY
2 MORTISE CYLINDER [IC] 1E74 x C4 x RP3 x ABC x CORMAX	626	BEST
1 RIM CYLINDER [IC] 1E72 x RP x ABC x CORMAX	626	BEST
2 EXIT DEVICE TO BE LESS BOTTOM ROD		PRECISION
1 SVR EXIT DEVICE 2202CD x 4902D	630	PRECISION
1 SVR EXIT DEVICE 2208CD x V4908D	630	PRECISION
2 DOOR CLOSER D-4550 x H-EDA	689	STANLEY
2 KICK PLATE 16" x 1" LDW .050 B4E x CSK	630	BURNS
2 MOP PLATE 6" x 1" LDW .050 B4E x CSK	630	BURNS
2 WALL STOP 575	630	BURNS
2 SILENCERS 500	GRAY	BURNS

Hardware Set #: 0026 - SGL DRS WD & HMF
201

Opening to Have:

Qty Description	Finish	Mfg
3 HINGE CB168 5 x 4.5	652	STANLEY
1 CLASSROOM LOCKSET 93K7-R-15D-S3 x ABC x CORMAX	626	BEST
1 DOOR CLOSER D-4551 x REG	689	STANLEY
1 KICK PLATE 10" x 2" LDW .050 B4E x CSK	630	BURNS
1 MOP PLATE 6" x 1" LDW .050 B4E x CSK	630	BURNS
1 WALL STOP 575	630	BURNS
3 SILENCERS 500	GRAY	BURNS

Hardware Set #: 0027 - SGL DRS WD & HMF
304

Opening to Have:

Qty Description	Finish	Mfg
3 HINGE CB168 4.5 x 4.5	652	STANLEY
1 PASSAGE LATCHSET 93K0-N-15D-S3	626	BEST
1 KICK PLATE 10" x 2" LDW .050 B4E x CSK	630	BURNS
1 MOP PLATE 6" x 1" LDW .050 B4E x CSK	630	BURNS
1 WALL STOP 575	630	BURNS
3 SILENCERS 500	GRAY	BURNS

Hardware Set #: 0028 - SGL DRS WD & HMF (POCKET DOOR)
303

Opening to Have:

Qty Description	Finish	Mfg
1 POCKET DOOR HARDWARE PDF250N-00	628	STANLEY
1 POCKET DOOR PULL PD250-61	605	STANLEY

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Hardware Set #: 0029 - SGL DRS WD & HMF
402

Opening to Have:

Qty	Description	Finish	Mfg
3	HINGE CB168 4.5 x 4.5	652	STANLEY
1	STOREROOM LOCKSET 93K7-D-15D-S3 x ABC x CORMAX	626	BEST
1	DOOR CLOSER D-4551 x REG	689	STANLEY
1	KICK PLATE 10" x 2" LDW .050 B4E x CSK	630	BURNS
1	MOP PLATE 6" x 1" LDW .050 B4E x CSK	630	BURNS
1	WALL STOP 575	630	BURNS
1	REMOTE DOOR CONTROL 15-2 x SPDT x MOMENTARY	714	SDC
1	POWER SUPPLY 602RF x 1-AMP x 12/24VDC	600	SDC
1	ELECTRIC STRIKE 51-A x 24VDC	630	SDC
3	SILENCERS 500	GRAY	BURNS

Hardware Set #: 0030 - SGL DRS ALUM DRS & ALUM FR
415

Opening to Have:

Qty	Description	Finish	Mfg
3	HINGE CB168 4.5 x 4.5 x NRP	652	STANLEY
1	STOREROOM LOCKSET 93K7-D-15D-S3 x ABC x CORMAX	626	BEST
1	DOOR CLOSER D-4550 x CS	689	STANLEY
1	SPACER BLOCK P45HD-110 (HD ARMS)	689	STANLEY
1	MOUNTING PLATE P45-180D (PA MOUNT)	689	STANLEY
1	ANGLE BRACKET SHOE P45HD-112	689	STANLEY
1	REMOTE DOOR CONTROL 15-2 x SPDT x MOMENTARY	714	SDC
1	POWER SUPPLY 602RF x 1-AMP x 12/24VDC	600	SDC
1	ELECTRIC STRIKE 51-A x 24VDC	630	SDC

Hardware Set #: 0031 - SGL DRS WD & HMF (DUTCH DOOR)
416

Opening to Have:

Qty	Description	Finish	Mfg
4	HINGE CB168 4.5 x 4.5	652	STANLEY
1	CLASSROOM LOCKSET 93K7-R-15D-S3 x ABC x CORMAX	626	BEST
1	DOOR TO SWING 180'		STANLEY
1	DOOR CLOSER D-4551 x REG x H	689	STANLEY
1	DUTCH DOOR BOLT 0594 x 4-1/2"	626	BURNS
1	KICK PLATE 10" x 2" LDW .050 B4E x CSK	630	BURNS
1	MOP PLATE 6" x 1" LDW .050 B4E x CSK	630	BURNS
1	WALL STOP 575	630	BURNS
3	SILENCERS 500	GRAY	BURNS

Hardware Set #: 0032 - SGL DRS WD & HMF LABEL
416A

Opening to Have:

Qty	Description	Finish	Mfg
3	HINGE CB168 4.5 x 4.5	652	STANLEY
1	STOREROOM LOCKSET 93K7-D-15D-S3 x ABC x CORMAX	626	BEST

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1 DOOR TO SWING 180'		STANLEY
1 DOOR CLOSER D-4551 x REG	689	STANLEY
1 KICK PLATE 16" x 2" LDW .050 B4E x CSK	630	BURNS
1 MOP PLATE 6" x 1" LDW .050 B4E x CSK	630	BURNS
1 TEAR DROP SEAL 797B x HEAD & JAMBS	BLK	REESE

Hardware Set #: 0033 - PRS DRS WD & HMF
600A

Opening to Have:

Qty Description	Finish	Mfg
6 HINGE CB168 5 x 4.5	652	STANLEY
2 MORTISE CYLINDER [IC] 1E74 x C4 x RP3 x ABC x CORMAX	626	BEST
1 RIM CYLINDER [IC] 1E72 x RP x ABC x CORMAX	626	BEST
1 POWER TRANSFER PT1000	628	ABH
2 EXIT DEVICE TO BE LESS BOTTOM ROD		PRECISION
1 SVR EXIT DEVICE 2202CD x 4902D	630	PRECISION
1 POWER SUPPLY ELR-151	600	PRECISION
1 SVR EXIT DEVICE ELR-2203CD x 4903D	630	PRECISION
2 DOOR CLOSER D-4550 x CS	689	STANLEY
2 KICK PLATE 16" x 1" LDW .050 B4E x CSK	630	BURNS
2 MOP PLATE 6" x 1" LDW .050 B4E x CSK	630	BURNS
2 WALL STOP 575	630	BURNS
2 SILENCERS 500	GRAY	BURNS
1 CARD READER BY SECURITY CONTRACTOR		

Hardware Set #: 0034 - SGL DRS HMD & HMF
142

Opening to Have:

Qty Description	Finish	Mfg
3 HINGE CB168 4.5 x 4.5 x NRP	652	STANLEY
1 MORTISE CYLINDER [IC] 1E74 x C4 x RP3 x ABC x CORMAX	626	BEST
1 RIM CYLINDER [IC] 1E72 x RP x ABC x CORMAX	626	BEST
1 RIM EXIT DEVICE 2103CD x 4903D x S301	630	PRECISION
1 DOOR CLOSER D-4550 x EDA	689	STANLEY
1 KICK PLATE 16" x 2" LDW .050 B4E x CSK	630	BURNS
1 MOP PLATE 6" x 1" LDW .050 B4E x CSK	630	BURNS
1 WALL STOP 575	630	BURNS
3 SILENCERS 500	GRAY	BURNS

Hardware Set #: 0035 - SGL DRS WD & HMF LABEL
602

Opening to Have:

Qty Description	Finish	Mfg
3 HINGE CB168 4.5 x 4.5	652	STANLEY
1 CLASSROOM LOCKSET 93K7-R-15D-S3 x ABC x CORMAX	626	BEST
1 DOOR CLOSER D-4551 x REG	689	STANLEY
1 KICK PLATE 16" x 2" LDW .050 B4E x CSK	630	BURNS
1 MOP PLATE 6" x 1" LDW .050 B4E x CSK	630	BURNS
1 WALL STOP 575	630	BURNS
1 TEAR DROP SEAL 797B x HEAD & JAMBS	BLK	REESE

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Hardware Set #: 0036 - SGL DRS WD & HMF
603

Opening to Have:

Qty	Description	Finish	Mfg
3	HINGE CB168 4.5 x 4.5 x NRP	652	STANLEY
1	MORTISE CYLINDER [IC] 1E74 x C4 x RP3 x ABC x CORMAX	626	BEST
1	RIM CYLINDER [IC] 1E72 x RP x ABC x CORMAX	626	BEST
1	RIM EXIT DEVICE 2103CD x 4903D x S301	630	PRECISION
1	DOOR CLOSER D-4550 x TCS	689	STANLEY
1	KICK PLATE 16" x 2" LDW .050 B4E x CSK	630	BURNS
1	MOP PLATE 6" x 1" LDW .050 B4E x CSK	630	BURNS
1	WALL STOP 575	630	BURNS
3	SILENCERS 500	GRAY	BURNS

Hardware Set #: 0037 - SGL DRS WD & HMF
604A 802B

Opening to Have:

Qty	Description	Finish	Mfg
3	HINGE CB168 4.5 x 4.5 x NRP	652	STANLEY
1	STOREROOM LOCKSET 93K7-D-15D-S3 x ABC x CORMAX	626	BEST
1	KICK PLATE 16" x 2" LDW .050 B4E x CSK	630	BURNS
1	MOP PLATE 6" x 1" LDW .050 B4E x CSK	630	BURNS
1	O/H CONCEALED STOP 4014 x HO (36" TO 48" DR)	630	ABH
3	SILENCERS 500	GRAY	BURNS

Hardware Set #: 0038 - PRS DRS WD & HMF
701

Opening to Have:

Qty	Description	Finish	Mfg
6	HINGE CB168 4.5 x 4.5	652	STANLEY
1	FLUSH BOLT 590 1" x 6-3/4" x 12" x TOP ONLY	626	BURNS
1	CLASSROOM LOCKSET 93K7-R-15D-S3-7/8 x ABC x CORMAX	626	BEST
1	DUMMY TRIM 93K0-1DT-15D	626	BEST
1	ASTRAGAL 548TB x BEVEL EDGE x FULL HEIGHT	630	ABH
2	DOOR CLOSER D-4551 x REG x H	689	STANLEY
2	KICK PLATE 10" x 1" LDW .050 B4E x CSK	630	BURNS
2	MOP PLATE 6" x 1" LDW .050 B4E x CSK	630	BURNS
2	O/H CONCEALED STOP 4024 x STOP (36" TO 48" DR)	630	ABH
2	SILENCERS 500	GRAY	BURNS

Hardware Set #: 0039 - SGL DRS WD & HMF LABEL
702

Opening to Have:

Qty	Description	Finish	Mfg
3	HINGE CB168 5 x 4.5 x NRP	652	STANLEY
1	CLASSROOM LOCKSET 93K7-R-15D-S3 x ABC x CORMAX	626	BEST
1	DOOR CLOSER D-4550 x CS	689	STANLEY
1	KICK PLATE 16" x 2" LDW .050 B4E x CSK	630	BURNS
1	MOP PLATE 6" x 1" LDW .050 B4E x CSK	630	BURNS

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1 TEAR DROP SEAL 797B x HEAD & JAMBS

BLK REESE

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Hardware Set #: 0040 - SGL DRS WD & HMF
801

Opening to Have:

Qty Description	Finish	Mfg
3 HINGE CB168 5 x 4.5	652	STANLEY
1 CLASSROOM LOCKSET 93K7-R-15D-S3 x ABC x CORMAX	626	BEST
1 DOOR CLOSER D-4551 x REG	689	STANLEY
1 KICK PLATE 10" x 2" LDW .050 B4E x CSK	630	BURNS
1 MOP PLATE 6" x 1" LDW .050 B4E x CSK	630	BURNS
1 O/H CONCEALED STOP 4014 x HO (36" TO 48" DR)	630	ABH
3 SILENCERS 500	GRAY	BURNS

Hardware Set #: 0041 - PRS DRS WD & HMF (TEMPORARY DOORS)
T1

Opening to Have:

Qty Description	Finish	Mfg
6 HINGE CB168 4.5 x 4.5 x NRP	652	STANLEY
1 FLUSH BOLT 590 1" x 6-3/4" x 12" x TOP ONLY	626	BURNS
1 CLASSROOM LOCKSET 93K7-R-15D-S3-7/8 x ABC x CORMAX	626	BEST
2 DOOR CLOSER D-4550 x HCS	689	STANLEY
2 WALL STOP 575	630	BURNS
2 SILENCERS 500	GRAY	BURNS

Hardware Set #: 0042 - SGL DRS WD & HMF
122A

Opening to Have:

Qty Description	Finish	Mfg
3 HINGE CB168 4.5 x 4.5 x NRP	652	STANLEY
1 PRIVACY LOCKSET 93K0-L-15D-S3	626	BEST
1 DOOR CLOSER D-4550 x CS	689	STANLEY
1 KICK PLATE 10" x 2" LDW .050 B4E x CSK	630	BURNS
1 MOP PLATE 6" x 1" LDW .050 B4E x CSK	630	BURNS
3 SILENCERS 500	GRAY	BURNS

Hardware Set #: 0043 - SGL DRS WD & HMF LABEL
124B 125 703A 703B

Opening to Have:

Qty Description	Finish	Mfg
3 HINGE CB168 4.5 x 4.5	652	STANLEY
1 STOREROOM LOCKSET 93K7-D-15D-S3 x ABC x CORMAX	626	BEST
1 DOOR CLOSER D-4551 x REG	689	STANLEY
1 KICK PLATE 16" x 2" LDW .050 B4E x CSK	630	BURNS
1 MOP PLATE 6" x 1" LDW .050 B4E x CSK	630	BURNS
1 WALL STOP 575	630	BURNS
1 TEAR DROP SEAL 797B x HEAD & JAMBS	BLK	REESE

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Hardware Set #: 0044 - PRS DRS WD & HMF
501

Opening to Have:

Qty Description	Finish	Mfg
6 HINGE CB168 5 x 4.5 x NRP	652	STANLEY
2 MORTISE CYLINDER [IC] 1E74 x C4 x RP3 x ABC x CORMAX	626	BEST
1 RIM CYLINDER [IC] 1E72 x RP x ABC x CORMAX	626	BEST
1 POWER TRANSFER PT1000	628	ABH
2 EXIT DEVICE TO BE LESS BOTTOM ROD		PRECISION
1 SVR EXIT DEVICE 2202CD x 4902D	630	PRECISION
1 POWER SUPPLY ELR-151	600	PRECISION
1 SVR EXIT DEVICE ELR-2203CD x 4903D	630	PRECISION
2 DOOR CLOSER D-4550 x H-EDA	689	STANLEY
2 KICK PLATE 16" x 1" LDW .050 B4E x CSK	630	BURNS
2 MOP PLATE 6" x 1" LDW .050 B4E x CSK	630	BURNS
2 WALL STOP 575	630	BURNS
2 SILENCERS 500	GRAY	BURNS
1 CARD READER BY SECURITY CONTRACTOR		

Hardware Set #: 0045 - SGL DRS WD & HMF
203

Opening to Have:

Qty Description	Finish	Mfg
3 HINGE CB168 5 x 4.5	652	STANLEY
1 PASSAGE LATCHSET 93K0-N-15D-S3	626	BEST
1 KICK PLATE 10" x 2" LDW .050 B4E x CSK	630	BURNS
1 MOP PLATE 6" x 1" LDW .050 B4E x CSK	630	BURNS
1 WALL STOP 575	630	BURNS
3 SILENCERS 500	GRAY	BURNS

Hardware Set #: 0046 - SGL DRS WD & HMF
402B

Opening to Have:

Qty Description	Finish	Mfg
3 HINGE CB168 5 x 4.5 x NRP	652	STANLEY
1 CLASSROOM LOCKSET 93K7-R-14C-S3 x ABC x CORMAX	626	BEST
1 DOOR TO SWING 180'		STANLEY
1 DOOR CLOSER D-4550 x H-EDA	689	STANLEY
1 KICK PLATE 10" x 2" LDW .050 B4E x CSK	630	BURNS
1 MOP PLATE 6" x 1" LDW .050 B4E x CSK	630	BURNS
3 SILENCERS 500	GRAY	BURNS

Hardware Set #: 0047 - SGL DRS WD & HMF
503B

Opening to Have:

Qty Description	Finish	Mfg
3 HINGE CB168 4.5 x 4.5	652	STANLEY
1 ENTRANCE LOCKSET 93K7-AB-15D-S3 x ABC x CORMAX	626	BEST
1 DOOR CLOSER D-4551 x REG	689	STANLEY

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1 KICK PLATE 10" x 2" LDW .050 B4E x CSK	630	BURNS
1 MOP PLATE 6" x 1" LDW .050 B4E x CSK	630	BURNS
1 WALL STOP 575	630	BURNS
3 SILENCERS 500	GRAY	BURNS

Hardware Set #: 0048 - SGL DRS ALUM DRS & ALUM FR EXTERIOR
606A

Opening to Have:

Qty	Description	Finish	Mfg
1	CONTINUOUS HINGE A110HDC x FULL HEIGHT	628	ABH
1	MORTISE CYLINDER [IC] 1E74 x C4 x RP3 x ABC x CORMAX	626	BEST
1	RIM CYLINDER [IC] 1E72 x RP x ABC x CORMAX	626	BEST
1	RIM EXIT DEVICE 2103CD x 4903D x S301	630	PRECISION
1	DOOR CLOSER D-4550 x HCS x SRI	689	STANLEY
1	SPACER BLOCK P45HD-110 (HD ARMS)	689	STANLEY
1	MOUNTING PLATE P45-180D (PA MOUNT)	689	STANLEY
1	ANGLE BRACKET SHOE P45HD-112	689	STANLEY
1	RAIN DRIP R201A x FULL WIDTH + 4"	628	REESE
1	THRESHOLD S483APR x SRS x FHSL x FULL WIDTH	628	REESE
1	DOOR BOTTOM SWEEP (CONCEALED) BY ALUMINUM DOOR SUPPLIER		

Hardware Set #: 0049 - SGL DRS ALUM DRS & ALUM FR
606B

Opening to Have:

Qty	Description	Finish	Mfg
1	CONTINUOUS HINGE A110HDC x FULL HEIGHT	628	ABH
1	MORTISE CYLINDER [IC] 1E74 x C4 x RP3 x ABC x CORMAX	626	BEST
1	RIM CYLINDER [IC] 1E72 x RP x ABC x CORMAX	626	BEST
1	RIM EXIT DEVICE 2103CD x 4903D x S301	630	PRECISION
1	DOOR CLOSER D-4550 x HCS x SRI	689	STANLEY
1	SPACER BLOCK P45HD-110 (HD ARMS)	689	STANLEY
1	MOUNTING PLATE P45-180D (PA MOUNT)	689	STANLEY
1	ANGLE BRACKET SHOE P45HD-112	689	STANLEY
1	THRESHOLD S483APR x SRS x FHSL x FULL WIDTH	628	REESE
1	DOOR BOTTOM SWEEP (CONCEALED) BY ALUMINUM DOOR SUPPLIER		

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