

# MEPNN Supplier Scouting Opportunity Synopsis

## Section 1: General Information

Scouting Number	2025-138
Item to be Scouted	Door Hardware
Days to be scouted	15
Response Due By	05/16/2025
Description	Door hardware: Hinges, Locksets, Latch Set and Cylinder Types and associated Automatic Bolts, Coordinators, and Trim. Exit Device Types, Closers, Stops, and Kickplates.

## Section 2: Technical Information

Type of supplier being sought	Contract manufacturer
Reason	BABA
Describe the manufacturing processes (elaborate to provide as much detail as possible)	Premanufactured metal cast and assembled components.
Provide dimensions / size / tolerances / performance specifications for the item	See attached PDF specification for information.  For Hinges see 2.03 in specification. For Locksets, Latch Set and Cylinder Types and associated Automatic Bolts, Coordinators, and Trim see 2.04 in specification. For Exit Devices see 2.06 in specification. For Closers, Stops and Kickplates see 2.07, 2.08, and 2.09 respectively in the specification.
List required materials needed to make the product, including materials of product components	For Hinges see 2.03 in specification. For Locksets, Latch Set and Cylinder Types and associated Automatic Bolts, Coordinators, and Trim see 2.04 in specification. For Exit Devices see 2.06 in specification. For Closers, Stops and Kickplates see 2.07, 2.08, and 2.09 respectively in the specification.
Are there applicable certification requirements?	No
Are there applicable regulations?	No
Are there any other standards, requirements, etc.?	Yes
Details	ANSI A156 series NFPA 101 UL 305 See attached PDF specification for information.
Additional Technical Comments	Some hardware to be coordinated with security requirements and signage name plates in other specifications.

## Section 4: Business Information

Estimated potential business volume	1 unit/ lump sum per item listed.
Estimated target price / unit cost information (if unavailable explain)	- Hinges: \$20,000. - Locksets, Latch Set and Cylinder Types and associated Automatic Bolts, Coordinators, and Trim: \$35,000. - Exit Device Types: \$50,000. - Closers: \$20,000. - Stops: \$500. - Kickplates: \$2,000.
When is it needed by?	Project dependent over next 8 years.

Describe packaging requirements	Depending on product, palletized, boxed, and wrapped, per manufacturer.
Where will this item be shipped?	Clovis, NM

## Additional Comments

Is there other information you would like to include?

**SECTION 08 71 00**  
**DOOR HARDWARE**

**PART 1      GENERAL**

**1.01      REFERENCES**

A.    The following is a list of standards which may be referenced in this section:

1.    American National Standards Institute (ANSI):
  - a.    A156.1, Butts and Hinges.
  - b.    A156.2, Bored and Preamsembled Locks and Latches.
  - c.    A156.3, Exit Devices.
  - d.    A156.4, Door Controls – Closures.
  - e.    A156.5, Cylinders and Input Devices For Locks.
  - f.    A156.6, Architectural Door Trim.
  - g.    A156.7, Template Hinge Dimensions.
  - h.    A156.8, Door Controls - Overhead Stops and Holders.
  - i.    A156.12, Interconnected Locks and Latches.
  - j.    A156.13, Mortise Locks and Latches Series 1000.
  - k.    A156.16, Auxiliary Hardware.
  - l.    A156.18, Materials and Finishes.
  - m.    A156.21, Thresholds.
  - n.    A156.22, Door Gasketing and Edge Seal Systems
  - o.    A156.25, Electrified Locking Devices.
  - p.    A156.28, Recommended Practices for Keying Systems.
  - q.    A156.30, High Security Cylinders
  - r.    A156, Complete Set of 24 BHMA Standards A156 Series with Binders.
2.    Architectural Hardware Consultant (AHC): Door and Hardware Institute (DHI) Certification.
3.    Builders Hardware Manufacturer's Association (BHMA): Certified Products Directory.
4.    Intertek Testing Services (Warnock Hersey Listed):
5.    National Fire Protection Association (NFPA): 101, Life Safety Code
6.    UL:
  - a.    10C, Positive Pressure Testing.
  - b.    305, Safety Panic Hardware. UL – Building Materials Directory.
  - c.    437 Key Locks (Drill and Pick Resistant Key Cylinders).
7.    WH. Certification Listings.

## 1.02 SUBMITTALS

### A. Action Submittals:

1. Product Data: Manufacturer's product data templates (PDT), and parts lists clearly marked for each hardware item. Include installation details, material descriptions, dimensions of individual components and profiles, and finishes.
2. Shop Drawings:
  - a. Finish Hardware Schedule:
    - 1) Format: Comply with Door and Hardware Institute.
    - 2) Furnish complete and detailed schedule, show product items, numbers, and finishes for hardware for each separate opening.
  - b. Indicate locations and mounting heights for each type of hardware and electrical characteristics and connection requirements.
  - c. Maintenance Materials: Provide listing and description of usage.

### B. Informational Submittals:

1. Operation and Maintenance Data as specified in Section 01 78 23, Operation and Maintenance Data. Submit data on operating hardware, lubrication requirements, and inspection procedures related to preventative maintenance.
2. Manufacturer's Field Service Report.
3. Certification of Hardware Consultant.
4. Copy of Special Guarantee.
5. Manufacturer's Certificate of Compliance, in accordance with Section 01 61 00, Common Product Requirements.
6. Certificate of compliance with the American Iron and Steel. See Section 01 33 00, Submittal Procedures.
7. Certificate of compliance with Build America, Buy America Act. See Section 01 33 00, Submittal Procedures.

## 1.03 QUALITY ASSURANCE

- ### A.
- Obtain each type and variety of door hardware from a single manufacturer to achieve standardization for appearance, maintenance, and replacement, unless otherwise indicated.

### B. Perform Work in accordance with the following requirements:

1. ANSI A156 series.
2. NFPA 101.
3. UL 305.

- C. Qualifications of Supplier: Recognized supplier of architectural finish hardware, with warehousing facilities, who has been furnishing hardware in vicinity of Project for not less than 5 years, and who is, or who employs, architectural hardware consultant.
- D. Qualifications of Architectural Hardware Consultant (AHC): Certified by Door and Hardware Institute.
- E. Products Requiring Electrical Connection: Listed and classified by UL, as suitable for purpose specified and indicated.

#### 1.04 DELIVERY, STORAGE, AND HANDLING

- A. Before delivery, package hardware items individually with necessary fasteners, instructions, and installation templates, when necessary; label and identify each package with door opening code to match hardware schedule.
- B. Protect finish hardware by cataloging and storing in a dry, secure area. Provide adequate shelving for unpacking, sorting, and staging all hardware items until installation is made.

#### 1.05 COORDINATION

- A. Coordinate Work with other directly affected sections involving manufacture or fabrication of internal reinforcement for door hardware and recessed items: Provide templates or actual hardware as required to ensure proper preparation of doors and frames.
- B. Sequence installation to accommodate required utility connections.
- C. Coordinate Owner's keying requirements during course of Work.
- D. Coordinate Work with the requirements of Section 28 13 00, Security Systems for power and wiring of components provided under this section.

#### 1.06 MAINTENANCE MATERIALS

- A. Furnish special wrenches, tools, and accessories applicable for each different and for each special hardware component.

## **PART 2      PRODUCTS**

### **2.01      COMPONENTS**

- A.    General Hardware Requirements: Where not specifically indicated, comply with applicable ANSI A156 standard for type of hardware required. Furnish each type of hardware with accessories as required for applications indicated and for complete, finished, operational doors.
  - 1.    Templates: Furnish templates or physical hardware items to door and frame manufacturers sufficiently in advance to avoid delay in Work.
  - 2.    Reinforcing Units: Furnished by door and frame manufacturers; coordinated by hardware supplier or hardware manufacturer.
  - 3.    Fasteners:
    - a.    Stainless steel unless otherwise recommended by hardware manufacturer.
    - b.    As required by hardware manufacturer to secure hardware.
  - 4.    Finish: ANSI A156.18; match hardware item being fastened.
  - 5.    Electrical Devices: Make provisions and coordinate requirements for electrical devices and connections for hardware.
  - 6.    Coordinate Work with the requirements of Section 28 31 00, Fire Alarm System for power and wiring of components provided under this Section.

### **2.02      MANUFACTURERS (AND ABBREVIATIONS):**

- A.    Architectural Builders Hardware (ABH).
- B.    Allegion (ALL).
- C.    Best/Dorma-Kaba (BES).
- D.    Detex (DET).
- E.    Dorma-Kaba Group (DOR).
- F.    Hager Companies (HAG).
- G.    Ives/Allegion (IVE).
- H.    LCN/Allegion (LCN).
- I.    Medeco/ASSA ABLOY (MED).
- J.    National Guard Products (NGP).
- K.    Norton/ASSA ABLOY.

- L. Precision Hardware/Dorma-Kaba (PHI).
- M. Rixson/ASSA ABLOY (RIX).
- N. Rockwood/ASSA ABLOY (ROC).
- O. Sargent/ASSA ABLOY.
- P. Schlage/Allegion (SCH).
- Q. Trimco (TRI).
- R. Von Duprin/Allegion (VON).

## 2.03 BUTT HINGES

- A. ANSI A156.1, full mortise type, template type, ANSI A156.7, complying with following general requirements unless otherwise scheduled.
- B. Quantity per Door Leaf (Minimum):

<b>Door Height</b>	<b>Hinges</b>
Up to 5'-0"	1 pair
5'-1" to 7'-7"	1-1/2 pair
7'-8" to 10'-0"	2 pairs
10'-1" to 12'-6"	2-1/2 pairs

- C. Hinge Height (Minimum):

<b>Door Width</b>	<b>Hinge Height</b>
Up to 3'-0"	4-1/2"
3'-1" to 4'-0"	5"
Over 4'-0"	6"

- D. Width: Minimum for clearance of trim and 180-degree swing.
- E. Pins: Furnish hinges with non-removeable pin (NPR) at exterior doors and non-rising pins at interior doors.
- F. Tips: Flat button tips with matching plug.
- G. Joint Tolerance: 0.012 inch maximum, gauged in CLOSED position.
- H. Finish: Satin stainless steel No. 630.

I. Hinge Types and Manufacturers:

1. Stanley.
2. Mc Kinney.
3. Lawrence.

No.	Type Description	Stanley	Mc-Kinney	Lawrence	BHMA
H1	Regular weight, two ball-races, full mortise, stainless steel	FBF191-32D	TB2314	BB4101-32D	A5112
EH1	Electric Power Transfer Hinge	CECB179-12C	T4A3795-CC6-18	-	-
EH2	Electrical Power Transfer	EPT-12C	-	EPT-10	-

2.04 LOCKSETS, AUTOMATIC BOLTS, AND LATCH SETS

A. Locksets: Furnish locksets compatible with specified cylinders. Typical 2-3/4-inch backset. Furnish standard strikes with extended lips to protect trim from being marred by latch bolt verify type of cutouts provided in metal frames.

- a. Mortise Locksets: ANSI A156.13 and UL 437, Series 1000, Grade 1 unless otherwise indicated.
- b. Electromechanical Locksets: ANSI A156.25, Grade 1 unless otherwise indicated.
- c. Materials: Brass or stainless steel.
- d. Trim: ANSI A156.3, wrought or forged lever handles and roses. Handle return to door face not more than 1/2-inch.
- e. Core Cylinders: ANSI A156.28 Recommended practices for mechanical keying systems, ANSI A156.5, Grade 1, 7-pin type removable cylinders.
- f. Latchbolt Throw: 3/4 inch minimum.
- g. Lever Backset: 2-3/4 inches.
- h. ANSI A156.3, wrought or forged lever handles and roses. Handle return to door face not more than 1/2 inch.
- i. Manufacturers and Products:
  - 1) Sargent; LNJ.
  - 2) Schlage; 03.
  - 3) Best; 3H Fairbanks.
- j. Finish: Satin stainless steel No. 630.

B. Automatic Bolts and Trim: Furnish as indicated in hardware groups, with accessories as required for complete operational door installations.

1. Automatic Bolts: ANSI A156.16 Grade 1 top and bottom flush bolts, with dust-proof floor strike, unless otherwise indicated.

- C. Latch Sets: Match locksets. Typical 2-3/4-inch backset. Furnish standard strikes with extended lips to protect trim from being marred by latch bolt verify type of cutouts provided in metal frames.
1. Mortise Latch Sets: ANSI A156.13, Series 1000, Grade 1 unless otherwise indicated.
  2. Bored (Cylindrical) Latch Sets: ANSI A156.2, Series 4000, Grade 1 unless otherwise indicated.
- D. Locks and Latches: Match existing in manufacturer, design, finish, and keying.
- E. Lockset, Latch Set, and Cylinder Types and Manufacturers:
1. Schlage.
  2. Best Lock Corporation.
  3. Sargent Manufacturing.
- F. Automatic Bolts, Coordinators and Trim Manufacturers:
1. Rockwood Manufacturing.
  2. Ives.
  3. Trimco.

No.	Type Description	Best	Sargent	Schlage	BHMA
L1	Mortise entrance lock with lever handle	45H7TA3H	8245-LNJ	L9456P-03	F12, F13
L5	Mortise privacy lock with lever handle	45H7L3H	8265-LNJ	L9040-03	F19, F22
L16	Lock by exit device manufacturer; furnish cylinders for keying to other locks as required	45HW-DEU-RQE	8271-24VDC-REX	1/lv9494EL-24VDC-REX	-

- G. Keying:
1. Lock Cylinders: Operate by master key system that allows for future expansion.
  2. Keys: Nickel silver. Stamp keys with "DO NOT DUPLICATE".
    - a. Two per lock; tag with schedule information.
    - b. Master Keys: Four; send by registered mail to Owner.

## 2.05 CONSTRUCTION KEY SYSTEM

- A. Assemble permanent cylinders with construction inserts and ship with all lock sets.
- B. Change Keys: Pack in separately identified envelopes and ship.
- C. Construction Keys: Pack in cartons marked “packing list” and ship.
- D. Construction Insert Extractor Keys and Master Keys: Ship by registered mail to Owner.
- E. On completion of job, deliver construction keys to Owner.

## 2.06 EXIT DEVICES

- A. ANSI A156.3, Grade 1 rim type, with push pad, unless otherwise indicated. Furnish standard strikes with extended lips to protect trim from being marred by latch bolt verify type of cutouts provided in metal frames, with dust-proof floor strikes.
  - 1. Types: Suitable for doors requiring exit devices.
  - 2. Coordinators: Furnish overhead type at pairs of doors.
- B. Key Lockable, Removable Mullion: Steel construction, by exit device manufacturer.
- C. Power Supplies for Electrified Hardware:
  - 1. For doors scheduled to receive Exit Devices with electric latch retraction (ELR) provide Von Duprin/Schlage model PS-904 power supply.
  - 2. Coordinate electrical requirements for scheduled pneumatic hardware with Work of Division 26, Electrical.
  - 3. Other low voltage power for electrified door hardware provided by security system supplier.
- D. Trim: Levers: Sargent ETJ; Von Duprin 03.
- E. Finish:
  - 1. Exit Device: Satin chromium-plated No. 626.
  - 2. Removable Mullion: Steel with prime coat.
- F. Exit Device Types and Manufacturers:
  - 1. Von Duprin Inc.
  - 2. Sargent Manufacturing.

- G. Door Contacts and Power Supplies: Provide by Section 28 13 00, Security Systems supplier.

No.	Type Description	Sargent	VonDuprin	BHM A
X1	Rim type	8813ETJ	99L	Type 1 08
X10	Rim type, latch function	8815ETJ	99L-BE	Type 1
EX1	Electric Exit Device (Rim type)	8875-24VDC-REX	EL99L-24VDC-REX	-

## 2.07 CLOSERS

- A. ANSI A156.4, Grade 1.
- B. Surface mounted closers, full rack and pinion type with steel spring and non-freezing hydraulic fluid. Size closers in accordance with manufacturer's standards.
- Adjustability: Furnish controls for regulating closing, latching, speeds, and back checking.
  - Arms: Heavy duty forged steel; type as scheduled.
  - Closer Body: One-piece, die cast aluminum silicon alloy.
  - Location:
    - General: Mount closers on inside of exterior doors and room side of interior doors typical; mount on pull side of other doors.
    - Mount regular arm closers on pull side of doors. Mount parallel arm closers on push side of doors and where doors swing full 180 degrees. On pair of doors provide closer on active leaf only, unless scheduled otherwise.
  - Doorstops:
    - Provide Stop Arm CNS (Cush-N-Stop, or equivalent) closers on all doors with exit devices.
    - Provide Stop Arm CNS (Cush-N-Stop, or equivalent) closers on all doors when the closer is on the push side of the door/ non-visible side to the public.
    - Provide Concealed Overhead Stops when the closer is on the pull side of the door/ non-visible side to the public.
  - Overhead Holders: Furnish with accessories as required for complete operational installation.
    - Manual Door Holders and Overhead Stops: ANSI A156.8, Grade 1 types as specified.
  - Accessories: Provide brackets, mounting devices, full size metal covers, and other features necessary for the particular application.

8. Operating Pressure: Maximum operating pressure as follows:
  - a. Interior Doors: Maximum 5 force pounds (22.2 N).
  - b. Exterior Doors: not more than a 30-pound (133 N) force to be set in motion and shall move to a full-open position when subjected to not more than a 15-pound (67 N) force.
- C. Finish: Manufacturer's standard painted or powder coated finish in color selected by Architect from manufacturer's standard color range.
- D. Types and Manufacturers:
  1. LCN Closers.
  2. Sargent.

No.	Type/Description	LCN	Sargent	BHMA
C1	Regular arm	4010 Series	351 Series	C02011
C6	Parallel arm with integral stop and hold-open	4110H Cush-N-Stop Series	351-PSH Series	C02061

## 2.08 STOPS

- A. ANSI A156.16.
- B. Machine Screws: In threaded anchors at concrete or masonry.
- C. Self-Tapping Screws: At stud partitions, wood, or metal mountings.
- D. Metal Risers: For mounting at carpet floors.
- E. Finish: Satin chromium-plated No. 626.
- F. Types and Manufacturers for Each Leaf.

No.	Type Description	BBW or GJ	Baldwin
S1	Floor stop	FS444	4510

## 2.09 KICKPLATES

- A. Solid metal, not plated with non-ferrous fasteners. Bevel four edges and smooth surface.
- B. Width of door leaf less than 2 inches at single leaf and less than 1 inch at pairs.
- C. Finish: Satin stainless steel No. 630.

- D. Types and Manufacturers: Builders Brass Works, Baldwin, Rockwood, or Cipco as follows:

1. K1: 10 inches high by 0.125 inch thick.

## 2.10 THRESHOLDS

- A. Thresholds: ANSI A156.21, extruded aluminum with minimum thickness of 0.125 inch, one-piece full width of opening; fit tight to frame at door jamb. Maximum 1/2-inch height.
- B. Provide with stainless steel machine screws in threaded expansion anchors at concrete.
- C. Finish: Dark bronze anodized aluminum, unless indicated otherwise.
- D. Types and Manufacturers: Reese.

No.	Type Description	Reese
T2	Saddle (serrated, 4" x 1/4")	S404D

## 2.11 WEATHERSTRIP

- A. ANSI 156.22; furnish continuous weatherstripping with noncorrosive fasteners at top and sides of exterior doors and other doors as scheduled. Air leakage of weatherstripped doors not to exceed 1.25 cubic feet per minute of air per square foot of door area when tested in accordance with ASTM E283.
- B. Overhead Rain Drips: Extruded aluminum, 3 inches deep by 1-inch high by 0.08-inch thick; align with bottom of door frame rabbet; finish as scheduled.
- C. Finish: Dark bronze anodized aluminum, unless indicated otherwise.
- D. Seal Types and Manufacturers: Reese.

No.	Type Description	Reese
W1	Rubber or vinyl bulb at jambs and head, and at meeting stiles of pairs	797B
	Door shoe	DB596DF
	Rain drip	R201D
W6	Rubber or vinyl bulb at jambs and head, and at meeting stiles of pairs	797B

No.	Type Description	Reese
	Automatic door bottom	320D

## 2.12 MISCELLANEOUS ITEMS

- A. Provide as indicated in Door and Hardware Schedule:

M1	Nameplate as specified in Section 10 14 00, Signage, in text noted in Door and Hardware Schedule
M2	Nameplate and barrier-free pictorial symbol as specified in Section 10 14 00, Signage, in text noted in Door and Hardware Schedule
M8	Card reader required, refer to Section 28 13 00, Security

## 2.13 SILENCERS

- A. ANSI A156.16, Type L03011.
- B. At metal frame of each hinged door that does not have seals scheduled.
- C. Three at single leaves and two at pairs.

## 2.14 TEMPLATES

- A. Fabricate to template hardware applied to metal doors and frames.
- B. Ensure that required templates are furnished to various manufacturers for fabrication purposes.
- C. Templates: Make available not more than 10 days after receipt of approved Hardware Schedule.

## 2.15 EXIT

- A. Exit Doors: Always openable from inside by simple turn of lever handle or push on panic bar without use of key or any special knowledge or effort, to include each leaf of door pairs.

# PART 3 EXECUTION

## 3.01 EXAMINATION

- A. Verify doors and frames are ready to receive door hardware and dimensions are as indicated on shop drawings or instructed by manufacturer.

- B. Verify electric power is available to power operated devices and is of correct characteristics.

### 3.02 INSTALLATION

- A. In accordance with manufacturer's written instructions.
- B. Make Work neat and secure, develop full strength of components, and provide proper function.
- C. Coordinate mounting heights with door and frame manufacturers. Use templates provided by hardware item manufacturer.
- D. Mounting Heights From Finished Floor (FFF) to Center Line of Hardware Item: Comply with manufacturer recommendations and applicable codes where not otherwise indicated.
  - 1. Locksets: 38 inch.
  - 2. Push/Pulls: 42 inch.
  - 3. Dead Locks: 44 inch.
  - 4. Push Pad Type Exit Devices: 42 inch.
  - 5. Cross Bar Type Exit Devices: 38 inch.
  - 6. Top Hinge: Jamb manufacturer's standard, but not greater than 10 inches from head of frame to center line of hinge.
  - 7. Bottom Hinge: Jamb manufacturer's standard, but not greater than 12-1/2 inches from floor to center line of hinge.
  - 8. Intermediate Hinges: Equally spaced between top and bottom hinges and from each other.
  - 9. Hinge Mortise on Door Leaf: 1/4 inch to 5/16 inch from stop side of door.
- E. Make all work neat and secure, developing full strength of components and providing proper function. Prevent marring, scratching, or otherwise damaging adjacent finishes during the installation of hardware.
- F. Do all fitting, dismantling, and reinstalling of finish hardware required for finish painting work. Use strippable coating, removable tape, and other means to protect and prevent staining of hardware during construction. Remove protective measures and install permanent lock cylinders before final cleaning.
- G. Install latch bolts to engage in strikes automatically. In no case shall additional manual pressure be required to engage latch bolt in strike.
- H. Prevent marring, scratching, or otherwise damaging adjacent finishes during hardware installation.

- I. Latchbolts:
  - 1. Install to engage in strikes automatically, whether activated by closers or manually.
  - 2. In no case shall additional manual pressure be required to engage latchbolt in strike.
- J. Stops and Holders: Set to allow doors to open as far as possible.
- K. Wall Mounted Hardware: Install over solid structural backing or solid blocking in hollow walls. Provide machine screws set in expansion shields for fastening hardware to solid concrete and masonry surfaces. Provide toggle bolts where required for fastening to hollow core construction.
- L. Thresholds:
  - 1. Cope ends neatly to profile of jamb.
  - 2. Set in full bed of sealant and seal ends to jambs. Anchor to floor with countersunk fasteners. Provide isolation between aluminum and concrete surfaces.
- M. Hardware: Adjust for easy, noise-free operation.
- N. Replace damaged hardware items.

### 3.03 MOUNTING DIMENSIONS

- A. Standard Door Hardware Locations: As recommended and published by Door and Hardware Institute, except as noted or detailed otherwise.
- B. Door Silencers: Install 3 inches from top and bottom of jamb and 1 inch above strike at single doors, and 3 inches from edges of doors in head for pairs of doors.
- C. Provide manufacturer's services necessary to provide Manufacturer's Certificate of Proper Installation per Section 01 43 33, Manufacturers' Field Services.

### 3.04 FIELD QUALITY CONTROL

- A. Primary Hardware Manufacturer's Representatives inspect installation and certify hardware and installation has been furnished and installed in accordance with manufacturer's instructions and as specified. Submit notice of testing 15 days before scheduled to allow witnessing of testing by Engineer. Adjust hinges, locks, latches, bolts, holders, closers, and other items to operate properly. Demonstrate that permanent keys operate respective locks. Correct, repair, and finish, errors in cutting and fitting and damage to adjoining work.

### 3.05 ADJUSTING

- A. Adjust hardware for smooth operation.

### 3.06 PROTECTION

- A. Cover and protect exposed surfaces of hardware during installation and until Substantial Completion.
- B. Fit, dismantle, and reinstall finish hardware as required for finish painting work. Use strippable coating, removable tape, and other means to protect and prevent staining of hardware during construction. Remove protective measures and install permanent lock cylinders before final cleaning.
- C. Protect and prevent staining of hardware during construction in accordance with manufacturer's recommendations.
- D. Remove protective measures and permanent lock cylinders installed prior to final cleaning.

### 3.07 DOOR AND HARDWARE SCHEDULE

- A. Door and Hardware Schedule on the Drawings is guide to functional requirements of each opening.
- B. Provide finish hardware as scheduled. Sizes omitted shall be as recommended by Door Hardware Consultant.

### 3.08 HARDWARE SETS

HDW-1:	Item	Type
IP20104A IP15103A CP20105A CT29101A	Double entrance door with removable mullion.	
	3 Pair butts	H1
	2 Electrified hinge	EH2
	2 Electric Exit Devices (Rim type, with removable mullion)	EX1 / L16
	2 Closers (Parallel Arm with integral stop and hold-open)	C6
	2 Metal kickplates	K1
	1 Threshold	T2

	1 Set weatherstrip	W1
	2 Door position switches (Intrusion switches) required	See security Section 28 13 00
	Centralized Power Supply	See security Section 28 13 00
	1 Nameplate	M1
<b>HDW-2:</b>	<b>Item</b>	<b>Type</b>
IP20101B IP20101C IP20101D	Single entrance door. Coordinate components with sound retardant door manufacturer. Scheduled items below can be modified to maintain required STC design value. See Section 08 11 00 for STC values.	
	1-1/2 Pair butts	H1
	1 Electrified hinge	EH2
	1 Electric Exit Device (Rim type)	EX1/ L16
	1 Closer (Parallel arm with integral stop and hold-open)	C6
	1 Metal kickplate	K1
	1 Threshold	T2
	1 Set weatherstrip	W1
	1 Card reader required	M8
	1 Door position switch (Intrusion switch) required	See security Section 28 13 00
	Centralized Power Supply	See security Section 28 13 00
IP20101B Only	1 Name plate	M1

<b>HDW-3:</b>	<b>Item</b>	<b>Type</b>
IP15101A IP20106A CP20101B CP20101C CP20101D CP20103B CP20106A	Single entrance door.	
	1-1/2 Pair butts	H1
	1 Electrified hinge	EH2
	1 Electric Exit Device (Rim type)	EX1/ L16
	1 Closer (Parallel arm with integral stop and hold-open)	C6
	1 Metal kickplate	K1
	1 Threshold	T2
	1 Set weatherstrip	W1
	1 Card reader required	M8
	1 Door position switch (Intrusion switch) required	See security Section 28 13 00
	Centralized Power Supply	See security Section 28 13 00
IP15101A and CP20101B Only	1 Nameplate	M1
<b>HDW-4:</b>	<b>Item</b>	<b>Type</b>
IP15102A	Single entrance door.	
	1-1/2 Pair butts	H1
	1 Mortise Entrance lock	L1
	1 Closer (Parallel arm with integral stop and hold-open)	C6
	1 Threshold	T2
	1 Set weatherstrip	W1
	1 Door position switch (Intrusion switch) required	See security Section 28 13 00
	1 Nameplate	M1

<b>HDW-5:</b>	<b>Item</b>	<b>Type</b>
IP20102A CP20102A	Restroom door.	
	1-1/2 Pair butts	H1
	1 Privacy lock	L5
	1 Closer	C1
	1 floor stop	S1
	1 Nameplate	M2
<b>HDW-6:</b>	<b>Item</b>	<b>Type</b>
IP20103A IP20105C CP20103C CP20104A	Connecting interior door. Coordinate components with sound retardant door manufacturer. Scheduled items below can be modified to maintain required STC design value. See Section 08 11 00 for STC values.	
	1-1/2 Pair butts	H1
	1 Electrified hinge	EH2
	1 Electric Exit Device (Rim type)	EX1/ L16
	1 Closer (Parallel arm with integral stop and hold-open)	C6
	1 Metal kickplate	K1
	1 Threshold	T2
	1 Set weatherstrip	W6
	1 Card reader required	M8
	1 Door position switch (Intrusion switch) required	See security Section 28 13 00
	Centralized Power Supply	See security Section 28 13 00
	2 Nameplates	M1

<b>HDW-7:</b>	<b>Item</b>	<b>Type</b>
IP20103B IP20106B CP10104B CP20106B	Connecting interior door.	
	1-1/2 Pair butts	H1
	1 Exit Device	X10
	1 Closer (Parallel arm with integral stop and hold-open)	C6
	1 Metal kickplate	K1
<b>HDW-8:</b>	<b>Item</b>	<b>Type</b>
IP20G01	Exterior gate. All hardware by Sound Barrier manufacturer – see specification Section 32 35 16.	
<b>HDW-9:</b>	<b>Item</b>	<b>Type</b>
IP20105B	Connecting interior door. Coordinate components with sound retardant door manufacturer. Scheduled items below can be modified to maintain required STC design value. See Section 08 11 00 for STC values.	
	1-1/2 Pair butts	H1
	1 Exit Device	X1 / L16
	1 Closer (Parallel arm with integral stop and hold-open)	C6
	1 Metal kickplate	K1
	1 Threshold	T2
	1 Set weatherstrip	W6
	1 Door position switch (Intrusion switch) required	See security Section 28 13 00
	Centralized Power Supply	See security Section 28 13 00
	2 Nameplates	M1

<b>HDW-10:</b>	<b>Item</b>	<b>Type</b>
IP20101A IP20105A CP20101A CP20103A	Overhead coiling door.	
	All hardware by door manufacturer except cylinder.	
	Door position switch (Intrusion switch) required	See security Section 28 13 00
<b>HDW-11:</b>	<b>Item</b>	<b>Type</b>
CT27101A CT27102A	Double entrance door.	
	1 Electrified Hinge	EH1
	1 Electric Mortise lock	EX1, L16
	2 Door position switches (Intrusion switches) required.	See security Section 28 13 00
	Centralized Power Supply	See security Section 28 13 00
	1 Nameplate	M1
	Balance of Hardware	See Section 13 34 20

**END OF SECTION**