

**SECTION 08 71 00 – HARDWARE****PART 1 – GENERAL****1.1 RELATED DOCUMENTS**

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

**1.2 WORK INCLUDED:**

- A. Furnish all items of Finish Hardware specified, scheduled, shown or required herein except those items specifically excluded from this section of the specification.
- B. Related Sections:
  - 1. Rough Carpentry
  - 2. Finish Carpentry
  - 3. Caulking and Sealant
  - 4. Hollow Metal Doors and Frames

**1.3 QUALITY ASSURANCE**

- A. Requirements of Regulatory Agencies:
  - 1. Furnish finish hardware to comply with the requirements of laws, codes, ordinances, and regulations of the governmental authorities having jurisdiction where such requirements exceed the requirements of the Specifications.
  - 2. Furnish finish hardware to comply with the requirements of the regulations for public building accommodations for physically handicapped persons of the governmental authority having jurisdiction and to comply with Americans with Disabilities Act.
  - 3. Provide hardware for fire-rated openings in compliance with NFPA 80 and state and local building code requirements. Provide only hardware that has been tested and listed by UL for types and sizes of doors required and complies with requirements of door and door frame labels.
  - 4. Where emergency exit devices are required on fire-rated doors that carry supplementary marking on the doors UL labels indicating "Fire Door to be equipped with Fire Exit Hardware" provide UL label on exit devices indicating "Fire Exit Hardware".

## B. Hardware Supplier:

1. Shall be an established firm dealing in contract builders' hardware. He must have adequate inventory, qualified personnel on staff and be located within 100 miles of the project. Only domestic manufacturers are acceptable and the distributor must be a factory-authorized dealer for all materials required. The supplier shall be or have in employment an Architectural Hardware Consultant. (AHC)

## C. Manufacturer:

1. Obtain each type of hardware (latch and locksets, hinges, closers, etc.) from a single manufacturer, although several may be indicated as offering products complying with requirements.
2. Provide electrified door hardware from same manufacturer as mechanical door hardware, unless otherwise indicated.

**1.4 SUBMITTALS:**

## A. Hardware Schedule

1. Submit proper number of Hardware Schedules to allow the Architect to retain two copies for his use, plus the number of copies required by the Contractor for his distribution and use. In any event, do not submit more than six copies.
2. Include the following:
  - a. Preface sheet listing category only and manufacturer's names of items being furnished as follows:

CATEGORY	SPECIFIED	SCHEDULED
Hinges	Manufacturer A	Manufacturer B
Lock sets	Manufacturer X	Manufacturer X
Kick Plates	Open	Manufacturer Z

3. Hardware Locations: Refer to Article 3.1 B.2 Locations.
4. Opening Description: Single or pair, number, room locations, hand, active leaf, degree of swing, size, door material, frame material, and UL listing.
5. Hardware Description: Quantity, category, product number, fasteners, and finish.

6. Headings that refer to the specified Hardware Set Numbers.
  7. Scheduling Sequence shown in Hardware Sets.
  8. Product data of each hardware item, and shop drawings where required, for special conditions and specialty hardware.
  9. Riser drawings, wiring drawings and system operation description.
  10. "Vertical" scheduling format only. "Horizontal" schedules will be returned "Not Approved."
  11. Typed Copy.
  12. Double-Spacing.
  13. 8-1/2 x 11 inch sheets
  14. U.S. Standard Finish symbols or BHMA Finish symbols.
  15. Generally, follow guidelines established in Door & Hardware Institute Handbook (DHI) Sequence and Format for the Hardware Schedule. Modified as above.
- B. Product Data:
1. Submit, in booklet form using supplier's schedule covers as binders. Product data of items of hardware listed in supplier's schedule.
  2. Submit product data concurrently with hardware schedule.
- C. Inspection Report:
1. Submit inspection report specified in 3.1.C.2. for locksets, exit devices, ADA special closers, door closers and all electrical hardware.
- D. Samples:
1. Prior to submittal of the final hardware schedule and prior to final ordering of finish hardware, submit one sample, if required, of each type of exposed hardware unit, finished as required and tagged with full description for coordination with schedule.

2. Samples will be returned to the supplier. Units, which are acceptable and remain undamaged through submittal, review and field comparison procedures may, after final check of operation, be used in the work, within limitations of keying coordination requirements.
- E. Key Schedule:
1. Submit detailed schedule indicating clearly how the Owner's final keying instructions have been followed.
  2. Submit as an integral part of finish hardware schedule or as a separate keying schedule.

## **1.5 PRODUCT DELIVERY, STORAGE, AND HANDLING**

- A. Label each item of hardware with the appropriate door number and Hardware Schedule heading number, and deliver to the installer so designated by the contractor.

## **1.6 WARRANTIES**

- A. Exit devices shall carry manufacturer's 3-year warranty against manufacturing defects and workmanship.
- B. Continuous gear hinges shall carry manufacturer's guarantee to be free from defects in material and workmanship.
- C. Balance of items shall carry a manufacturer's 1-year warranty against manufacturing defects and workmanship.
- D. During the warranty period, replace defective work, including labor, materials and other costs incidental to the work. Inspect the work within 24 hours after receipt of notice from the Owner. Replace work found to be defective as defined in the Contract Documents.

## **PART 2 – PRODUCT**

### **2.1 MANUFACTURER**

Furnish each category with the products of only one manufacturer unless specified otherwise; this requirement is mandatory whether various manufacturers are listed or not.

- A. Substitutions as per Section 01 25 00.

**2.2 PRODUCTS**

Provide the products of manufacturer designated or if more than one manufacturer is listed, the comparable product of one of the other manufacturers listed.

Hinges:

1. Unless specified otherwise in sets furnish hinges of class and size as follows:
  2. Furnish class 5BB1 and size 4-1/2 x 4-1/2 inches.
  3. Numbers used are Ives (IVE).
    - a. Equal products from any B.H.M.A. member will also be acceptable.
- E. Continuous Hinges: Furnish door height less one inch. Products listed in sets are Ives (IVE).
  1. Ives
  2. McKinney
  3. Pemko
- F. Locksets and Latchsets – Common Area Cylindrical Type:
  1. Function numbers listed are Schlage (SCH); ND series with Sparta (SPA) lever trim.
  2. Provide 2-3/4 inch backset.
  3. Provide strikes with extended lips where required to protect trim from being marred by latch bolt. Provide strike lips that do not project more than 1/8" beyond doorframe trim at single doors and have 7/8" lip to center at pairs of 1-3/4" doors. Provide wrought box strikes on all locks and latches.
- G. Locksets and Latchsets – Unit Tubular Type:
  1. Function numbers listed are Schlage (SCH); F series with Jazz (JAZ) lever trim.
  2. Provide 2-3/4 inch backset, unless 2-3/8 inch is required by the door or frame detail, or noted otherwise.
  3. Provide strikes with extended lips where required to protect trim from being marred by latch bolt. Provide strike lips that do not project more than 1/8" beyond doorframe trim at single doors and have 7/8" lip to center at pairs of 1-3/4" doors. Provide wrought box strikes on all locks and latches.

## H. Exit Devices

1. All exit devices shall meet ANSI A156.3, 1994, Grade 1 test standards.
2. Products listed in sets are Von Duprin (VON) 35A & 98 series.
3. Provide electrified options as specified.
4. Provide exit devices with optional trim designs to match other lever and pull designs used on the project.

## I. Push and Pull Hardware:

1. Push Plates: Plain design, wrought, 6 x 16 x 0.050 inches, square corners, beveled edges. If stile widths will not accept 6 inches, furnish stile width less 2 inches.
2. Push-Pull Sets: One inch round rod; Push: Straight push bar; Pull: 90 degree offset, 12 inch centers. Attach top post of pull back-to-back with latch stile end of push bar.
3. Offset Pulls: One inch round rod, 90 degree offset, 12 inch centers.
4. Pull Plates: Plain design with wrought plate 4 x 16 x 0.050 inches, square corners, beveled edges: 1 inch round rod, straight grip with 10 inch centers.
5. Manufacturer: Provide push and pull hardware from any member of B.H.M.A.

## J. Surface Closers:

1. Refer to door and frame details and furnish accessories such as drop plates, panel adapters, spacers and supports as required to correctly install door closers. State degree of door swing in the hardware schedule.
2. Products listed in sets are LCN (LCN) 4000 series.

## K. Low-Energy Door Operators:

1. Refer to door and frame details and furnish accessories such as drop plates, panel adapters, spacers and supports as required to correctly install door closers. State degree of door swing in the hardware schedule.
2. Products listed in sets are LCN (LCN) 4640 series.

## L. Protection Plates

1. Numbers used are Ives (IVE).

- a. Equal products from any B.H.M.A. member will also be acceptable.

M. Overhead Holders and Stops:

1. Type, function, fasteners, and quantities of fasteners must be the same as Glynn-Johnson (GLY) specified.
2. Size: Per manufacturer's sizing chart.
  - a. Architectural Builders Hardware
  - b. Glynn-Johnson
  - c. Rixson

N. Bumpers:

1. BHMA L02101. Wrought, forged, or cast, approximately 2-1/2 inch diameter, concave rubber center, concealed fasteners.

O. Wall Stops:

1. Furnish with pictorial installation instructions illustrating downward slope of diagonal side.
1. Products listed in sets are Ives WS series.
  - a. Equal product from any B.H.M.A. member will also be acceptable.

P. Thresholds:

1. 1/2" high - 5" wide. Cope at jambs.
2. Furnish full wall opening width when frames are recessed.
3. Cope in front of mullions if thresholds project beyond door faces.
4. Furnish with non-ferrous Stainless Steel Screws and Lead Anchors.
  - a. Zero as listed in sets
  - b. Equal of Hager, Pemko, Reese & National Guard (NGP)

Q. Door Sweeps:

1. Surface Sweeps:
  - a. Zero as listed in sets
  - b. Equal by National Guard, Pemko or Reese

R. Weather-stripping:

1. Apply to head and jamb stops.
2. Solid Bar stock all sides
  - a. Zero as listed in sets
  - b. Equal by National Guard (NGP), Pemko or Reese

S. Smoke and Draft Control Seals: (Use this section for hollow-metal 'S' labeled doors.)

1. Gaskets must comply with UBC7.2 (1997) Part 2, UL1784 (1995), and NFPA 105 (1999) for use on all 'S' labeled wood and hollow-metal Positive Pressure door assemblies.
  2. Products listed in sets are Zero
    - a. Pemko
    - b. Reese
    - c. National Guard
- T. Miscellaneous:
1. Furnish items not categorized in the above descriptions but specified by manufacturer's names in Hardware Sets.
- U. Fasteners:
1. Furnish fasteners of the proper type, size, quantity and finish. Use machine screws and expansion shields for attaching hardware to concrete or masonry, and wall grip inserts at hollow wall construction. Supply sex bolts for closers at lead-lined or UL listed wood doors only. Supply sex bolts when UL listing of wood doors requires them. Furnish machine screws for attachment to reinforced hollow metal doors and frames and reinforced aluminum doors and frames. Furnish full thread wood screws for attachment to solid wood doors and frames. "TEK" type screws are not acceptable.

### **2.3 FINISHES:**

- A. Generally, Brush Satin Nickel. Furnish finish for each item as indicated in sets.

### **2.4 TEMPLATES AND HARDWARE LOCATION:**

- A. Furnish hardware made to template. Supply required templates and hardware locations to the door and frame manufacturers.
- B. Furnish metal template to frame/door supplier for continuous hinge.
- C. Refer to Article 3.1 B.2, Locations, and coordinate with templates.

### **2.5 CYLINDERS KEY CONTROL AND KEYING:**

- A. This supplier shall meet with Architect and Owner to finalize keying requirements and obtain keying instructions in writing.
  1. Supplier shall include the cost of this service in his proposal.



- B. Provide a cylinder for all hardware components capable of being locked.
- C. Provide cylinders factory master and grand master keyed to a the existing Schlage Primus standard core grand master key system with "CE" Obverse keyway according to Owner's instructions. Provide two change keys for each cylinder, two master keys, one permanent control key, two construction master keys and one construction control key.
- D. Furnish visual key control - stamp key bows only with key set symbol.
- E. At the request of the Architect deliver to the Owners Representative the following:
  - 1. Grand Master Keys
  - 2. Master Keys
  - 3. Copy of Finish Hardware Schedule

### **PART 3 – EXECUTION**

#### **3.1 INSTALLATION**

- A. General:
  - 1. Install hardware according to manufacturers' installations and to manufacturers template dimensions. Attach all items of finish hardware to doors, frames, walls, etc. with fasteners furnished and required by the manufacture of the item.
  - 2. Reinforced hollow metal doors and frames and reinforced aluminum door and frames: drilled and tapped machine screws.
  - 3. Solid wood doors and frames: full thread wood screws. Drill pilot holes before inserting screws.
  - 4. Install weather-strip gasket prior to parallel arm closer bracket, rim exit device or any stop mounted hardware. Gasket to provide a continuous seal around perimeter of door opening. Allow for gasket when installing finish hardware. Door closers will require special templating. Exit devices will require adjustment in backset.
- B. Locations:
  - 1. Dimensions are from finish floor to center line of items.
  - 2. Include this list in Hardware Schedule.

<u>CATEGORY</u>	<u>DIMENSION</u>
Hinges	Door Manufacturer's Standard
Flush Bolt Levers	72" and 12"
Levers	Door Manufacturer's Standard
Exit Device Touchbar	Per Architectural Elevations
Push Plates	52"
Pull Plates	42"
Roller Latch	At Head
Offset Pulls	Suitable for Exit Devices
Wall Stops	At Head

C. Final Adjustment:

1. Provide the services of a representative to inspect material furnished and its installation and adjustment, to make final hardware adjustment, and to instruct the Owner's personnel in adjustment, care and maintenance of hardware.
  
2. Locksets, closers and exit devices shall be inspected by the factory representative and adjusted after installation and after the HVAC system is in operation, to insure correct installation and proper adjustment in operation. The manufacturer's representative shall prepare a written report stating compliance, and also recording locations and kinds of noncompliance. The original report shall be forwarded to the Architect with copies to the Contractor, hardware distributor, hardware installer and building owner.

**3.2 HARDWARE SETS:**

Hardware Group No. 01

For use on Door #(s):

124C                      139E                      139G

Provide each SGL door(s) with the following:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
-		HARDWARE BY MANUFACTURER		

## Hardware Group No. 02

For use on Door #(s):

118                      119                      121A                      124A

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	CLASSROOM LOCK	ND70P6D SPA	626	SCH
1	EA	WALL STOP/HOLDER	WS40	626	IVE
3	EA	SILENCER	SR64	GRY	IVE

## Hardware Group No. 03

For use on Door #(s):

116                      124D

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	CLASSROOM LOCK	ND70P6D SPA	626	SCH
1	EA	SURFACE CLOSER	4011	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP/HOLDER	WS40	626	IVE
3	EA	SILENCER	SR64	GRY	IVE

## Hardware Group No. 04

For use on Door #(s):

139B

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	PANIC HARDWARE	98-L-BE-17	626	VON
1	EA	SURFACE CLOSER	4111 EDA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS33/WS33X (AS REQ'D)	626	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER

## Hardware Group No. 05

For use on Door #(s):

139A

Provide each PR door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
2	EA	PANIC HARDWARE	9827-L-BE-LBR-17	626	VON
2	EA	SURFACE CLOSER	4111 EDA	689	LCN
2	EA	KICK PLATE	8400 10" X 1" LDW B-CS	630	IVE
2	EA	WALL STOP	WS33/WS33X (AS REQ'D)	626	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER

## Hardware Group No. 06

For use on Door #(s):

115

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	PRIVACY LOCK	ND40S SPA	626	SCH
1	EA	SURFACE CLOSER	4011	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS33/WS33X (AS REQ'D)	626	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER

## Hardware Group No. 07

For use on Door #(s):

120                      121B                      122B

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	PASSAGE SET	ND10S SPA	626	SCH
1	EA	OH STOP	450S	652	GLY

## Hardware Group No. 08

For use on Door #(s):

124B

Provide each PR door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
2	EA	ROLLER CATCH	335	626	IVE
2	EA	SINGLE DUMMY TRIM	ND170 SPA	626	SCH
2	EA	OH STOP	450S	652	GLY
2	EA	SILENCER	SR64	GRY	IVE

## Hardware Group No. 09

For use on Door #(s):

122A                      123

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	PASSAGE SET	ND10S SPA	626	SCH
1	EA	WALL STOP	WS33/WS33X (AS REQ'D)	626	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER

## Hardware Group No. 10

For use on Door #(s):

139C                      139D

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	PASSAGE SET	ND10S SPA	626	SCH
1	EA	SGL CYL DEADBOLT	B560P	626	SCH
1	EA	OH STOP	450S	652	GLY
1	EA	GASKETING	488SBK PSA	BK	ZER

## Hardware Group No. 11

For use on Door #(s):

226B

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	PASSAGE SET	ND10S SPA	626	SCH
1	EA	SGL CYL DEADBOLT	B560P	626	SCH
1	EA	WALL STOP	WS33/WS33X (AS REQ'D)	626	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER

## Hardware Group No. 12

For use on Door #(s):

106A                      226A

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	STOREROOM LOCK	ND80P6D SPA	626	SCH
1	EA	OH STOP	450S	652	GLY
1	EA	SURFACE CLOSER	4011	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER

## Hardware Group No. 13

For use on Door #(s):

233                      234

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	CLASSROOM LOCK	ND70P6D SPA	626	SCH
1	EA	SURFACE CLOSER	4111 SCUSH	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER

Hardware Group No. 14

For use on Door #(s):  
223

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	STOREROOM LOCK	ND80P6D SPA	626	SCH
1	EA	SURFACE CLOSER	4011	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS33/WS33X (AS REQ'D)	626	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER

Hardware Group No. 15

For use on Door #(s):

101B

Provide each PR door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	CONT. HINGE	112XY	628	IVE
1	EA	REMOVABLE MULLION	5654	628	VON
1	EA	PANIC HARDWARE	33A-EO	626	VON
1	EA	PANIC HARDWARE	33A-NL-OP-388	626	VON
1	EA	RIM CYLINDER	(MATCH OWNERS PREFERENCES)	626	SCH
2	EA	90 DEG OFFSET PULL	8190EZHD 12" O	630- 316	IVE
1	EA	OH STOP	100S	630	GLY
1	EA	OH STOP	100SE	630	GLY
1	EA	SURFACE CLOSER	4021	689	LCN
1	EA	SURF. AUTO OPERATOR	4642 WMS	✎ 689	LCN
1	EA	MOUNTING PLATE	4020-18G (IF REQ'D)	689	LCN
2	EA	ACTUATOR, WALL MOUNT	8310-853T	630	LCN
1	EA	BOLLARD POST (AS REQ'D)	8310-866	AL	LCN
2	EA	SURFACE MOUNT BOX	8310-867S	✎ 689	LCN
1		-	WEATHERSTRIP BY DOOR/FRAME MANUFACTURER		

BUSINESS HOURS - DOOR NORMALLY CLOSED AND UNLOCKED. WHEN THE PANIC DEVICE LATCH IS DOGGED DOWN (IN THE RETRACTED POSITION) THE EXTERIOR ACTUATOR BUTTON WILL BECOME ENABLED. PUSHING EITHER ENABLED ACTUATOR BUTTON WILL CAUSE THE AUTOMATIC OPERATOR TO MOMENTARILY OPEN THE DOOR. FREE EGRESS AT ALL TIMES.

AFTER HOURS - DOOR NORMALLY CLOSED AND LOCKED. WHEN THE PANIC DEVICE LATCH IS EXTENDED (UNDOGGED) THE ACTUATOR BUTTON WILL NOT WORK TO OPEN THE DOORS. FREE EGRESS AT ALL TIMES.

COORDINATE SYSTEM OPERATION AND COMPONENT LOCATIONS WITH THE OWNER, THE ARCHITECT, AND ALL RELATED TRADES.

Hardware Group No. 16

For use on Door #(s):

101A

Provide each PR door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	CONT. HINGE	112XY	628	IVE
2	EA	DUMMY PUSH BAR	350	626	VON
2	EA	90 DEG OFFSET PULL	8190EZHD 12" O	630- 316	IVE
1	EA	OH STOP	100S	630	GLY
1	EA	OH STOP	100SE	630	GLY
1	EA	SURFACE CLOSER	4021	689	LCN
1	EA	SURF. AUTO OPERATOR	4642 WMS	✎ 689	LCN
1	EA	MOUNTING PLATE	4020-18G (IF REQ'D)	689	LCN
1	EA	WEATHER RING	8310-801	PLA	LCN
2	EA	ACTUATOR, WALL MOUNT	8310-853T	630	LCN
1	EA	BOLLARD POST (AS REQ'D)	8310-866	AL	LCN
2	EA	SURFACE MOUNT BOX	8310-867S	✎ 689	LCN
2	EA	DOOR SWEEP	39A	A	ZER
1	EA	THRESHOLD	655A-223	A	ZER
1		-	WEATHERSTRIP BY DOOR/FRAME MANUFACTURER		

THE INTERIOR AND EXTERIOR ACTUATOR BUTTON IS ENABLED AT ALL TIMES. PUSHING EITHER ACTUATOR BUTTON WILL CAUSE THE AUTOMATIC OPERATOR TO MOMENTARILY OPEN THE DOOR. FREE INGRESS/EGRESS AT ALL TIMES.

COORDINATE SYSTEM OPERATION AND COMPONENT LOCATIONS WITH THE OWNER, THE ARCHITECT, AND ALL RELATED TRADES.

Hardware Group No. 17

For use on Door #(s):

138

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	CLASSROOM LOCK	ND70P6D SPA	626	SCH
1	EA	SURFACE CLOSER	4011	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS33/WS33X (AS REQ'D)	626	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER



## Hardware Group No. 18

For use on Door #(s):

137

Provide each PR door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6	EA	HINGE	5BB1 4.5 X 4.5 NRP	652	IVE
1	SET	AUTO FLUSH BOLT	FB31P/FB41P (AS REQ'D)	630	IVE
1	EA	DUST PROOF STRIKE	DP2	626	IVE
1	EA	CLASSROOM LOCK	ND70P6D SPA	626	SCH
1	EA	OH STOP	450S	652	GLY
2	EA	KICK PLATE	8400 10" X 1" LDW B-CS	630	IVE
1	EA	WALL STOP	WS33/WS33X (AS REQ'D)	626	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER
1	EA	WEATHERSTRIPPING	8217SBK PSA	BK	ZER

## Hardware Group No. 19

For use on Door #(s):

108A            131A            206            219

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5	630	IVE
1	EA	FIRE EXIT HARDWARE	98-L-BE-F-17	626	VON
1	EA	SURFACE CLOSER	4011	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS33/WS33X (AS REQ'D)	626	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER

## Hardware Group No. 20

For use on Door #(s):

108B            131B

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	224XY	628	IVE
1	EA	PANIC HARDWARE	33A-NL	626	VON
1	EA	RIM CYLINDER	(MATCH OWNERS PREFERENCES)	626	SCH
1	EA	SURFACE CLOSER	4111 SCUSH	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	GASKETING	429AA-S	AA	ZER
1	EA	DOOR SWEEP	39A	A	ZER
1	EA	THRESHOLD	655A-223	A	ZER

## Hardware Group No. 21

For use on Door #(s):

106B

Provide each PR door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	CONT. HINGE	224XY	628	IVE
1	SET	AUTO FLUSH BOLT	FB31P/FB41P (AS REQ'D)	630	IVE
1	EA	STOREROOM LOCK	ND80P6D SPA	626	SCH
1	EA	COORDINATOR	COR X FL (MB AS REQ'D)	628	IVE
2	EA	SURFACE CLOSER	4111 SCUSH	689	LCN
2	EA	KICK PLATE	8400 10" X 1" LDW B-CS	630	IVE
1	EA	GASKETING	429AA-S	AA	ZER
2	EA	DOOR SWEEP	39A	A	ZER
2	EA	MEETING SEAL	8192AA	AA	ZER
1	EA	THRESHOLD	655A-223	A	ZER

## Hardware Group No. 22

For use on Door #(s):

109                      133

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5	630	IVE
1	EA	STOREROOM LOCK	ND80P6D SPA	626	SCH
1	EA	SURFACE CLOSER	4011	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS33/WS33X (AS REQ'D)	626	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER

## Hardware Group No. U1

For use on Door #(s):

1

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	PASSAGE SET	F10 JAZ	626	SCH
1	EA	SGL CYL DEADBOLT	B560 (CYL AS REQ'D)	626	SCH
1	EA	SURFACE CLOSER	1450 REG OR PA AS REQ	689	LCN
1	EA	DOOR STOP	61/72 (AS REQ'D)	626	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER
1	EA	DOOR SHOE	111AA	AA	ZER
1	EA	THRESHOLD	655A-223	A	ZER
1	EA	KNOCKER W/VIEWER	02-3125 U700	626	IVE
1	EA	VIEWER (PROVIDE ONLY AT ACCESSIBLE UNITS)	U700	626	IVE

## Hardware Group No. U2

For use on Door #(s):

2                    5                    7

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	PASSAGE SET	F10 JAZ	626	SCH
1	EA	DOOR STOP	61/72 (AS REQ'D)	626	IVE

## Hardware Group No. U3

For use on Door #(s):

3

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	PRIVACY LOCK	F40 JAZ	626	SCH
1	EA	DOOR STOP	61/72 (AS REQ'D)	626	IVE

## Hardware Group No. U4

For use on Door #(s):

4

Provide each PR door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6	EA	HINGE	3PB1 4.5 X 4.5	652	IVE
2	EA	ROLLER CATCH	335	626	IVE
2	EA	SINGLE DUMMY TRIM	F170 JAZ	626	SCH
2	EA	DOOR STOP	61/72 (AS REQ'D)	626	IVE

## Hardware Group No. U5

For use on Door #(s):

6

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	SGL CYL DEADBOLT	B560P	626	SCH
1	EA	DOOR STOP	61/72 (AS REQ'D)	626	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER

END OF SECTION 08 71 00