

DIVISION 8 - SECTION 08710 - FINISH HARDWARE

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and General Provisions of Contract, including General Conditions and Supplementary General Conditions and other Specification Sections, apply to this section.

1.02 DESCRIPTION OF THE WORK

- A. Work in this section is part of a combined project involving renovation to an existing building coupled with construction of a new addition and requires closely coordinated work sequences. The existing building will be occupied during the construction period and the contractor will be required to perform his work accordingly.
- B. Work in this section includes, but is not necessarily limited to,
 - 1. Modern door hardware
 - 2. Weatherstripping

1.03 RELATED SECTIONS

Division 8 - Section 08110 - Steel Doors and Frames

Division 8 - Section 08211 - Flush Wood Doors

Division 8 - Section 08410 - Aluminum Entrances and Storefronts

1.04 QUALITY ASSURANCE

- A. Supplier Qualifications: As outlined in the General Conditions, use a recognized architectural hardware supplier(s), with warehousing facilities in the Project's vicinity, that has a record of successful in-service performance for supplying door hardware similar in quantity, type and quality to that indicated for this project and that employs an experienced architectural hardware consultant who is available to the Architect at reasonable times during the course of the work for consultation.
- B. Single Source Responsibility: The Contractor shall obtain each type of hardware for all new construction (latch and locksets, hinges, closers, etc.) from a single manufacturer.
- C. Fire-Rated Openings: Provide door hardware for fire-rated openings that complies with NFPA Standard No. 80 and requirements of authorities having jurisdiction. Provide only items of door hardware that are listed and are identical to products tested by UL or other testing and inspecting organizations acceptable to authorities having jurisdiction for use on types and sizes of doors indicated in compliance with requirements of fire-rated door and door frame labels.

1.05 SUBMITTALS

- A. Product Data: Provide and submit, as outlined in the General Conditions, manufacturer's technical product data for each item of door hardware, installation instructions, maintenance of operating parts and finish and other information necessary to show compliance with requirements.
- B. Samples: Provide and submit samples for verification purposes of each type of hardware unit in finish indicated and tagged with full description for coordination with schedule. Submit samples prior to submission of final hardware schedule.
- C. Final hardware schedule coordinated with doors, frames and related work to ensure proper size, thickness, hand, function and finish of door hardware.
 - 1. Final Hardware Schedule Content: Based on hardware indicated, organize schedule into "hardware sets" indicating complete designations of every item required for each door opening. Include the following information:

- a. Type, style, function, size and finish of each hardware item
 - b. Name of manufacturer of each item
 - c. Fastenings and other pertinent information
 - d. Location of each hardware set cross referenced to drawings
 - e. Explanation of all abbreviations, symbols and codes
 - f. Mounting locations for hardware
 - g. Door and Frame sizes and materials
- D. Submittal Sequence: Provide and submit final schedule at earliest possible date, particularly where acceptance of hardware schedule must proceed fabrication of other work that is critical in the Project construction schedule. Include with schedule product data, samples, shop drawings and other work affected by door hardware and other information essential to the coordinated review of schedule.
- E. Templates for doors, frames and other work specified to be factory prepared for the installation of door hardware. Check shop drawings of other work to confirm that adequate provisions are made for locating and installing door hardware to comply with requirements.

1.06 DELIVERY, STORAGE AND HANDLING

- A. Deliver materials in original packages, containers or bundles bearing brand name and identification of manufacturer or supplier.
- B. Store materials inside under cover and keep dry and protected against contamination from weather, direct sunlight, surface contamination, corrosion, construction traffic and other causes.
- C. Tag each item or package separately with identification related to final hardware schedule, and include basic installation instructions with each item or package.
- D. Packaging of door hardware is the responsibility of the supplier. As material is received by hardware supplier from various manufacturers, sort and repackage in containers clearly marked with appropriate hardware set number to match set numbers of approved hardware schedule. Two or more identical sets may be packed in then same container.
- E. Provide secure lock-up for door hardware delivered to the Project, but not yet installed. Control handling and installation of hardware items that are not immediately replaceable so that completion of the work will not be delayed by hardware losses.

1.07 WARRANTIES

- A. The hardware manufacturers shall provide full replacement warranty as listed below.
Replacement warranty shall not include any labor cost.
 - Surface Closers 10 years.
 - Exit Devices 3 years.
 - Locksets etc. 1 year
 - Balance of hardware 1 year

PART 2 - PRODUCTS

2.01 ACCEPTABLE MANUFACTURERS

- A. Manufacturer's Product Designations: The product designation and name of one manufacturer are listed on the Architectural Drawings for each hardware type required for the purpose of establishing minimum requirements. Provide either the product designated or a comparable product equal to or better than the specified item from the "Approved List of

Architectural Hardware of the State of New Jersey” obtainable from the New Jersey Division of Building and Construction.

- B. Abbreviations: For purposes of product designation the following abbreviations were used in the Door Schedule:

1. Hinges: PBB, Stanley, and McKinney.
2. Locksets: Schlage, Sargent, and Dorma.
3. Cylinders: (To match existing)
4. Door Closers: LCN, Dorma, and Sargent.
5. Exit Devices: Von Duprin, Corbin, and Dorma.
6. Door Stops: Rockwood, Trimco and Ives.
7. Overhead Stops: Dorma, Rixson and GJ.
8. Flush Bolts and Coordinators: Rockwood, Trimco and Ives.
9. Protection Plates: Rockwood, Trimco and Ives.

2.02 **MODERN HARDWARE - GENERAL**

- A. ANSI/BHMA designations used elsewhere in this section or in schedules to describe hardware items or to define quality or function are derived from the following standards. Provide products complying with these standards and requirements specified in this Section.

1. Butts and Hinges: ANSI/BHMA A 156.1
2. Bored and Preassembles Locks and Latches: ANSI/BHMA A 156.2
3. Exit Devices: ANSI/BHMA A 156.3
4. Door Controls - Closers: ANSI/BHMA A 156.4
5. Mortise Locks and Latches: ANSI/BHMA A 156.13
6. Materials and Finishes: ANSI/BHMA A 156.18

2.03 **MATERIALS AND FABRICATION**

- A. General: Hardware is not to be fabricated or templates issued by contractor prior to receipt of schedules approved by Architect and Owner.
- B. Manufacturer's Name Plate: Do not use manufacturers' products that have the manufacturer's name or trade name displayed in a visible location except in conjunction with required fire-rated labels and as otherwise acceptable to the Architect.
- C. Base Metals: Produce hardware units of basic metal and forming method indicated, using manufacturer's standard metal alloy, composition, temper and hardness, but in no case of lesser quality than specified for applicable hardware units for finish designations indicated.
- D. Fasteners: Provide hardware manufactured to conform to published templates, generally prepared for machine screw installation. Do not provide hardware that has been prepared for self-tapping sheet metal screws, except as specifically indicated.
- E. Furnish Screws for installation with each hardware item. Provide Phillips flat-head screws except as otherwise indicated. Finish exposed screws to match hardware finish or, if exposed in surfaces of other work, to match finish of this other work as closely as possible including "Prepared for Paint" surfaces to receive painted finish. Furnish three dozen extra of each size screw from all the manufacturer's.
- F. Provide concealed fasteners for hardware units that are exposed when door is closed except to the extent no standard units of type specified are available with concealed fasteners.

- G. Provide tools and maintenance instructions to the Board of Education pertaining to each type of hardware specified.

2.04 HINGES, BUTTS AND PIVOTS

- A. Templates: Except for hinges and pivots to be installed entirely into wood doors, provide only template-produced units.
- B. Sizes: Hinges shall be manufacturer's standard heavy weight 5 knuckle hinge 4-1/2" X 4-1/2" unless otherwise noted on the
- C. Screws: Provide Phillips flat-head screws complying with following requirements:
1. For steel doors and frames install machine screws into drilled and tapped holes.
 2. For wood doors install wood screws.
- D. Hinge Pins: Except as otherwise indicated, provide hinge pins as follows:
1. Out-Swing Exterior Doors: Nonremovable pins.
 2. Out-Swing Corridor Doors with Locks: Nonremovable pins.
 3. Interior Doors: Nonrising pins.
 4. Tips: Manufacturer's standard tip unless indicated otherwise on drawings.
- E. Number of Hinges: Provide number of hinges indicated but not less than 3 hinges per door leaf for doors 90 inches or less in height and one additional hinge for each 30 inches additional height.
1. Provide not less than four hinges per door leaf for doors greater than 3'-0" in width.

2.05 LOCK CYLINDERS AND KEYING

- A. General - Locksets: All specified locksets shall be 2-Piece Mechanical Anti-Friction Latch Bolt with 3/4" throw. Dead bolts shall have 1" throw with hardened steel insert or stainless steel.
1. All mortise locks and latches listed in the Approved List of Architectural Hardware are to be furnished with armor fronts, wrought box strikes and screw less knobs, or levers where required by barrier free design regulations, latest edition. All locks to be beveled 1/8" in 2". All cylinders are to be furnished in the proper length and with cam to suit function. Cylinder collars are to be provided as required. All cylinder locks are to be furnished with wrought brass, bronze or stainless steel box strikes.
- B. Standard System: Except as otherwise indicated, provide new master key system for Project.
- C. Review the keying system with Board of Education and provide the type required (master, grandmaster or great-grandmaster), either new or integrated with Board of Education's existing system.
- D. Equip locks with manufacturer's standard 6-pin tumbler cylinders. Construct lock cylinder parts from brass or bronze, stainless steel or nickel silver.
- E. No keys shall be packed in boxes or with any cylinder. Provide cabinet with each key tagged and identified along with key blanks, prepaid, to the Owner at an address provided by the Architect.
- F. Comply with Owner's instructions for master keying and provide four (4) change keys for each lock that is not designated to be keyed alike with a group of related locks.
- G. Keys: All cut keys to be large bow void of any manufacturer's identification, stamped on one side with **KEARNY BOARD OF EDUCATION PROPERTY - DO NOT DUPLICATE** in letters 5/32" to 3/16" high.

1. Key Material: Provide keys of nickel silver only.
 2. Key Quantity: Furnish 4 change keys for each lock, 5 master keys for each master system and 5 grandmaster keys for each grandmaster system. Furnish three dozen key blanks, large bow void of any manufacturer's identification, stamped as specified for cut key, but without code numbers.
- H. Mounting Heights: Mount Locksets (mortise and cylindrical) at 40-5/16" floor to center line of strike.

2.06 CLOSERS AND DOOR CONTROL DEVICES

- A. Size of Units: Except as otherwise specifically indicated, comply with manufacturer's recommendations for size of door control units depending on size of door, exposure to weather and anticipated frequency of use.
- B. Overhead Closers: All surface closers used on wood doors are to be through bolted with sex nuts and bolts. Where specified, closers are to be furnished with correct degree of hold open. All closers shall be full range Barrier-Free where applicable.
- C. Hold Open Devices: All overhead holders and stops are to be furnished with the correct degree of hold open and/or stop. Automatic hold-open shall be at 105 degrees as selected.
 1. Provide positive dead stop at the opening angle standard with manufacturer for the hold-open angle selected.

2.07 EXIT DEVICES

- A. 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.
- B. Outside Trim: Match material and finish of outside locksets to other locksets and latchsets provided on the project.

2.08 REMOVABLE MULLIONS

- A. Removable Mullions - Fire Exits: 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.
- B. Removable Mullions - Double Doors - Non-Fire Exit: Provide removable mullions/ astragals which are compatible with the door and hardware being supplied or as specified in the Door Schedule.
- C. Keying: Key removable mullions same as door hardware lockset cylinders for which removable mullion is to be used. Cylinders shall be removable.

2.09 KICK PLATES AND DOOR PROTECTION UNITS

- A. Fabricate protection plates not more than 1-1/2" less than door width on hinge side and not more than 1/2" less than door width on pull side by height indicated on Door Schedule or on the drawings or interior elevations.
- B. Fasteners: Provide manufacturer's standard fasteners for trim units. Use concealed fasteners unless manufacturer specifically recommends exposed fasteners. Use either machine screws or self tapping screws for exposed fasteners.
- C. Metal plates shall be brass, 0.050" (18 gauge) thick

- D. Kick plates shall be 8" high, mop plates 4" high and full width of door less allowances for stops and a 1/2" border at each side unless otherwise shown on the drawings. Plates shall not be more than 1/4" from bottom of door.

2.10 WEATHERSTRIPPING AND SEALS

- A. General: Provide continuous weatherstripping on exterior doors as indicated on the Door Schedule. Provide noncorrosive fasteners for exterior applications and as elsewhere indicated.
- B. Weatherstripping at Jamb and Heads: Provide bumper-type resilient insert and metal retainer strips, surface applied unless shown as mortised or semi-mortised, and of extruded bronze (brass), finish to match frames, 0.050" minimum thickness of main walls and flanges.
- C. Weatherstripping at Door Bottoms: Provide threshold consisting of flexible vinyl wiper or sweep seal strip.

2.11 THRESHOLDS AND DOOR SILENCERS

- A. Provide thresholds and silencers as specified in Door Schedule.

2.12 FLUSH BOLTS AND COORDINATORS

- A. Manual Flush Bolts shall be Trimco W3917/W3913 series, furnish 3910 dustproof strikes for all bottom bolts.
- B. Self Latching Flush Bolts shall be Trimco 3820/3825 series, furnish 3910 dustproof strikes for all bottom bolts. Furnish wear plates as required.
- C. Automatic Flush Bolts shall be Trimco 3810/3815 series, furnish 3910 dustproof strikes for all bottom bolts. Furnish wear plates as required.
- D. Coordinators shall be Trimco 3900 series. Furnish all fillers, mounting brackets, carry bars and special cutouts for use with exit devices, as required.
- E. All flush bolts and coordinators shall be the products of one manufacturer.

2.132 HARDWARE FINISHES

- A. New Hardware: Finish on new hardware shall be as indicated on Door Schedule. Designations used in Door Schedule shall comply with ANSI/BHMA A 156.18, "Materials and Finishes" including coordination with the traditional U.S. finishes shown by certain manufacturers for their products. Designations used on Door Schedule are the industry-recognized standard commercial finishes, except as otherwise noted.
- B. Protect mechanical finishes on exposed surfaces from damage during transit, storage and after installation. Contractor shall be responsible for replacing all damaged hardware at Contractor's expense.

PART 3 - EXECUTION

3.01 INSTALLATION

- A. Mount hardware units at heights indicated in the following applicable publications to comply with governing regulations, except as directed by Architect.
 - 1. "Recommended Location for Builders Hardware for Standard Steel Doors and Frames" by the Door and Hardware Institute.
 - 2. NWWDA Industry Standard I.S.1.7, "Hardware Locations for Wood Flush Doors".
- B. Install each hardware item in compliance with the manufacturer's instructions and recommendations. Where cutting and fitting is required to install hardware onto or into surfaces that are to be painted or finished in another way, coordinated removal, storage and reinstallation or application of surface protection with finishing work specified in Division 9 -

Section 09900 - Painting. Do not install surface mounted items until finishes have been completed on the substrates involved.

- C. Set units level, plumb and true to line and location. Adjust and reinforce doors and frames as necessary for proper installation and operation.
- D. Drill and countersink units that are not factory prepared for anchorage fasteners. Space fasteners and anchors in accordance with industry standards.
- E. Set thresholds at exterior doors level and plumb with bottom of door.
- F. Weatherstripping and Seals: Comply with manufacturer's instructions and recommendations to the extent installation requirements are not otherwise indicated.

3.02 ADJUSTING, CLEANING AND DEMONSTRATING

- A. Adjust and check each operating item of hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate freely and smoothly or as intended for the application made.
 - 1. Where door hardware is installed more than one month prior to Final Acceptance, return one week prior to Final Acceptance and make final check and adjustment of all hardware items. Clean operating items as necessary to restore proper function and finish of hardware and doors. Adjust door control devices to compensate for final operation of heating, cooling and ventilation equipment.
- B. Clean adjacent surfaces soiled by hardware installation.
- C. Instruct Owner's personnel in the proper adjustment and maintenance of hardware and hardware finishes, during the final adjustment of hardware.

PART 4 - HARDWARE STS

1. HARDWARE SET 'A' - CLASSROOMS

Each to have:

3	Hinges	PBB 4-1/2" x 4-1/2" standard weight x US26D
1	Classroom Lock	Schlage L9070 x 06A x US26D
1	Masterkeyed Cylinder	(to match existing) x US26D
1	Door Closer	LCN 4041 series x Alum

(Closers shall be installed so that closer bodies are positioned on room side of doors to and from corridors, i.e., in-swing doors shall be regular arm. Out-swing doors shall have a parallel arm.

1	Overhead Stop	For Steel Doors - Dorma 710S series US32D
1	Door Stop	Trimco 1270WV Wall Type Series or Trimco W1211 Floor Type Series as the condition warrants
2	Kick Plate	Trimco 8" high x 2" less door width x .050 thick
3	Silencers	Trimco 1229A

The following doors shall receive the above hardware set:

North Building: 124; 127; 128; 128A; 129; 130; 130B; 131; 133; 134; 207; 209; 210; 211; 212; 219; 220; 221; 222A; 306; 309; 310; 313; 314; 319; 402; 404; 405; 406; 407; 408; 418

South Building: S-313; S-314

2. HARDWARE SET 'B' - PREP ROOMS

Each to have:

- | | | |
|---|----------------------|---|
| 3 | Hinges | PBB 4-1/2" x 4-1/2" standard weight x US26D |
| 1 | Classroom Lock | Schlage L9070 x 06A x US26D |
| 1 | Masterkeyed Cylinder | (to match existing) x US26D |
| 1 | Door Stop | Trimco 1270WV Wall Type Series or Trimco W1211 Floor
Type Series as the condition warrants |
| 2 | Mop Plate | Trimco 6" high x 2" less door width x .050 thick |
| 3 | Silencers | Trimco 1229A |

The following doors shall receive the above hardware set:

North Building: 113; 130A; 117; 117A; 223; 401; 414; 417;

3. HARDWARE SET 'C' - OFFICES

Each to have:

- | | | |
|---|----------------------|---|
| 3 | Hinges | PBB 4-1/2" x 4-1/2" standard weight x US26D |
| 1 | Office Lock | Schlage L9050 x 06A x US26D |
| 1 | Masterkeyed Cylinder | (to match existing) x US26D |
| 1 | Door Closer | LCN 4041 series x Alum

(Closers shall be installed so that closer bodies are positioned on room side of doors to and from corridors, i.e., in-swing doors shall be regular arm. Out-swing doors shall have a parallel arm. |
| 1 | Door Stop | Trimco 1270WV Wall Type Series or Trimco W1211 Floor
Type Series as the condition warrants |
| 3 | Silencers | Trimco 1229A |

The following doors shall receive the above hardware set:

North Building: 002; 110; 111; 112; 120; 208; 213; 215; 216; 217; 218; 307; 308; 311; 312; 315; 316; 320; 321; 322; 323; 324; 403; 411; 412; 419

South Building: S-213; S-214; S-303; S-304; S-305; S-306; S-308; S-309; S-310; S-313;
S-314

4. HARDWARE SET 'D' - TOILET ROOMS

Each to have:

- | | | |
|---|----------------------|--|
| 3 | Hinges | PBB 4-1/2" x 4-1/2" standard weight x US26D |
| 1 | Privacy Lock | Schlage L9040 x 06A x US26D |
| 1 | Masterkeyed Cylinder | (to match existing) x US26D |
| 1 | Door Closer | LCN 4041 series x Alum

(Closers shall be installed so that closer bodies are positioned on room side of doors to and from corridors, i.e., in-swing doors shall be regular arm. |
| 1 | Door Stop | Trimco 1270WV Wall Type Series or Trimco W1211 Floor |

Type Series as the condition warrants

- 2 Mop Plate Trimco 6" high x 2" less door width x .050 thick
- 3 Silencers Trimco 1229A

The following doors shall receive the above hardware set:

North Building: 003; 126A; 126B; 214; 222; 317; 318; 409; 410

5. HARDWARE SET 'E' - SINGLE DOOR - STANDARD SIZE

Each to have:

- 3 Hinges PBB 4-1/2" x 4-1/2" standard weight x US26D
- 1 Storage Room Lock Schlage L9080 x 06A x US26D
- 1 Masterkeyed Cylinder (to match existing) x US26D
- 1 Door Stop Trimco 1270WV Wall Type Series or Trimco W1211 Floor
Type Series as the condition warrants
- 2 Mop Plate Trimco 6" high x 2" less door width x .050 thick
- 3 Silencers Trimco 1229A

The following doors shall receive the above hardware set:

North Building: 110; 115; 116; 118; 119; 120B; 121; 121A; 125; 125A; 413; 415; 502; 505

South Building: S-307; S-311; S-315

6. HARDWARE SET 'E-1' - SINGLE DOOR - EXTRA WIDE

Each to have:

- 3 Hinges PBB 5" x 5" heavy weight x US26D
- 1 Storage Room Lock Schlage L9080 x 06A x US26D
- 1 Masterkeyed Cylinder (to match existing) x US26D
- 1 Door Stop Trimco 1270WV Wall Type Series or Trimco W1211 Floor
Type Series as the condition warrants
- 2 Mop Plate Trimco 6" high x 2" less door width x .050 thick
- 3 Silencers Trimco 1229A

The following doors shall receive the above hardware set:

North Building: 120A; 126

7. HARDWARE SET 'F' - SINGLE DOOR - INTERIOR - W/ EXIT DEVICES

Each to have:

- 1 Continuous Hinges Zero 910DBAA
- 1 Exit Devices Von Duprin CD35ANLOP x US32D
- 1 Masterkeyed Cylinder (to match existing) x US26D
- 1 Door Closer LCN 4041 series x Alum
- 1 Overhead Stop Dorma 710S series for interior hollow metal; Dorma 700S

Series for wood doors x US26D

- 3 Silencers Trimco 1229A

The following doors shall receive the above hardware set:

North Building: 501; 506; 603; 604

8. HARDWARE SET 'G' - SINGLE DOOR - EXTERIOR

Each to have:

- 1 Continuous Hinges Zero 910DBAA
- 1 Storage Room Lock Schlage L9080 x 06A x US26D
- 1 Masterkeyed Cylinder (to match existing) x US26D
- 1 Door Closer LCN 4041 series x Alum
- 1 Overhead Stop Dorma 710S series for hollow metal;
- 1 Kick Plate Trimco 8" high x 2" less door width x .050 thick
- 1 Set Seals Zero 870AA @ jambs and head
- 1 Door Bottom Zero 364A
- 3 Slencers Trimcon1229A

The following doors shall receive the above hardware set:

North Building: 001; 114; 503; 504; 507; 508; 509; 512

South Building: S-102

9. HARDWARE SET 'H' - SINGLE DOOR - EXTERIOR W/EXIT DEVICE

Each to have:

- 1 Continuous Hinges Zero 910DBAA
- 1 Exit Devices Von Duprin CD35ANLOP x US32D
- 1 Masterkeyed Cylinder (to match existing) x US26D
- 1 Door Closer LCN 4041 series x Alum
- 1 Overhead Stop Dorma 710S series for interior hollow metal;
- 1 Set Seals Zero 870AA @ jambs and head
- 1 Door Bottom Zero 364A
- 3 Slencers Trimcon1229A

The following doors shall receive the above hardware set:

North Building: 105A; 106A; 204

South Building: S-102 (one single door on each side of one double door)

10. HARDWARE SET 'H-1' - TRIPLE SINGLE DOOR - EXTERIOR W/EXIT DEVICE

Each to have:

- 3 Continuous Hinges Zero 910DBAA
- 3 Exit Devices Von Duprin CD35ANLOP x US32D
- 3 Masterkeyed Cylinder (to match existing) x US26D

- | | | |
|---|---------------|--|
| 3 | Door Closer | LCN 4041 series x Alum |
| 3 | Overhead Stop | Dorma 710S series for interior hollow metal; |
| 3 | Set Seals | Zero 870AA @ jambs and head |
| 3 | Door Bottom | Zero 364A |
| 9 | Slencers | Trimcon1229A |

The following doors shall receive the above hardware set:

North Building: 102; 103; 202; 301

South Building: S-207; S-208; S-208; S-209; S-210; S-211; S-212; S-301

11. HARDWARE SET 'I' - DOUBLE DOOR - INTERIOR

Each to have:

- | | | |
|---|------------------------|---|
| 6 | Hinges | PBB 4-1/2" x 4-1/2" standard weight x US26D |
| 1 | Storage Room Lock | Schlage L9080 x 06A x US26D |
| 1 | Masterkeyed Cylinder | (to match existing) x US26D |
| 1 | Door Stop | Trimco 1270WV Wall Type Series - Where wall stops
Stops will not function properly, use Trimco W1211 Floor
Type Servies |
| 1 | Set Manual Flush Bolts | Trimco W3917/W3913 series, |

The following doors shall receive the above hardware set:

North Building: 416

South Building: S-311

12. HARDWARE SET 'J' - DOUBLE DOOR - INTERIOR - EXIT

Each to have:

- | | | |
|---|----------------------|--|
| 2 | Continuous Hinges | Zero 910DBAA |
| 2 | Exit Devices | Von Duprin 35AEO x US32D |
| 1 | Masterkeyed Cylinder | (to match existing) x US26D |
| 2 | Door Closer | LCN 4041 series x Alum |
| 2 | Overhead Stop | Dorma 710S series for interior hollow metal; |
| 1 | Removable Mullion | Von Duprin 5654 x Alum |
| 1 | Set Seals | Zero 870AA @ jambs and head |
| 2 | Door Bottom | Zero S198A |
| 2 | Silencers | Trimcon1229A |

The following rooms shall receive the above hardware set:

North Building: 109; 122; 134B; 134C; 203; 510; 511

13. HARDWARE SET 'K' - DOUBLE DOOR - EXTERIOR

Each to have:

2	Continuous Hinges	Zero 910DBAA
2	Exit Devices	Von Duprin 35AEO x US32D
1	Masterkeyed Cylinder	(to match existing) x US26D
2	Door Closer	LCN 4041 series x Alum
2	Overhead Stop	Dorma 710S series for interior hollow metal;
1	Removable Mullion	Von Duprin 5654 x Alum
1	Set Seals	Zero 870AA @ jambs and head
2	Door Bottom	Zero S198A
2	Silencers	Trimcon1229A

The following rooms shall receive the above hardware set:

North Building: 104; 108

14. HARDWARE SET 'L' - DOUBLE DOOR - EXTERIOR - EXIT

Each to have:

2	Continuous Hinges	Zero 910DBAA
2	Exit Devices	Von Duprin 35AEO x US32D
1	Masterkeyed Cylinder	(to match existing) x US26D
2	Door Closer / Stop	LCN 4041 CUSH series x Alum
1	Removable Mullion	Von Duprin 5654 x Alum
1	Set Seals	Zero 870AA @ jambs and head
2	Door Bottom	Zero S198A
2	Silencers	Trimcon1229A

The following rooms shall receive the above hardware set:

North Building: 101; 107; 201; 205; 206; 302; 305

South Building: S-101; S-201; S-202; S-203; S-204; S-205; S-206

15. HARDWARE SET 'M' - DOUBLE DOOR - MONUMENTAL - EXIT

Each to have:

2	Continuous Hinges	Restore Existing Hinges
2	Exit Devices	Von Duprin CD35AEO x US32D
2	Masterkeyed Cylinder	Replace existing cylinder with new to match
1	Exit Devices	Von Duprin CD35AEO x US32D
1	Exit Device	Von Duprin CD35ANLOP x US32D
2	Door Closer/Stop	Restore existing closers
2	Offset Pulls	Restore Existing Pulls
2	set Weatherstripping	Remove existing weatherstripping and install new
1	Saddle	Existing to remain - Repair as necessary

The following rooms shall receive the above hardware set:

North Building: 302; 303; 304

16. HARDWARE SET 'N' - DOUBLE DOOR - INTERIOR - VESTIBULE - EXIT

Each to have:

- | | | |
|---|-------------------|--|
| 2 | Continuous Hinges | Restore Existing Hinges |
| 2 | sets Push & Pull | Restore existing push and pull hardware |
| 2 | Door Closers | Restore existing closers |
| 1 | Saddle | Existing to remain - Repair as necessary |

The following rooms shall receive the above hardware set:

North Building: 302A; 303A; 304A

END OF SECTION 08710

