

SECTION 08710 – DOOR HARDWARE

PART 1 - GENERAL

1.1 GENERAL REQUIREMENTS

- A. Any door shown on the drawings and not specifically referenced in the hardware sets shall be provided with identical hardware as specified on other similar openings and shall be included in the finish hardware suppliers bid.
- B. All doors that are fire rated shall be provided with fire rated hardware to comply with the local code requirements whether specified that way or not as a part of the hardware supplier's base bid.
- C. Hardware supplier shall notify the Architect in writing of any discrepancies no less than five (5) working days prior to the bid date that could result in hardware being supplied that is non-functional, that will not meet local codes, or any door that is not covered in this specification.

1.2 RELATED DOCUMENTS

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

1.3 SUMMARY

- A. This Section includes the following:
 - 1. Commercial door hardware for the following:
 - a. Swinging doors.
 - b. Other doors to the extent indicated.
- B. Related Sections include the following:
 - 1. Division 8 Section "Steel Doors and Frames" for astragals provided as part of a fire-rated labeled assembly and for door silencers provided as part of the frame.
 - 2. Division 8 Section "Flush Wood Doors" for astragals provided as part of a fire-rated labeled assembly.

1.4 SUBMITTALS

- A. Product Data: Include installation details, material descriptions, dimensions of individual components and profiles, and finishes.
- B. 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.
 - a. Organize door hardware sets in same order as in the Door Hardware Sets at the end of Part 3. Submittals that do not follow the same format and order as the Door Hardware Sets will be rejected and subject to resubmission.
 3. 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 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.
 4. 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.
- C. Keying Schedule: Prepared under the supervision of the Owner, separate schedule detailing final keying instructions for locksets and cylinders in writing. Include keying system explanation, door numbers, key set symbols, hardware set numbers and special instructions. Owner to approve submitted keying schedule prior to the ordering of permanent cylinders.
- D. Maintenance Data: For each type of door hardware to include in maintenance manuals specified in Division 1. Upon completion of construction and building turnover, furnish two (2) complete maintenance manuals to the owner. Manuals to include the following items:
1. Approved hardware schedule, catalog cuts and keying schedule.
 2. Hardware installation and adjustment instructions.
 3. Manufacturer's written warranty information.

1.5 QUALITY ASSURANCE

- A. Installer Qualifications: An experienced Installer who has completed standard hardware installations 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 or equivalent experience available during the course of the Work to consult with Contractor, Architect, and Owner about door hardware and keying. Supplier recognized by manufacturers to be a direct factory-authorized distributor of the specified hardware products.
1. 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 (AHC) 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.
- D. Source Limitations: Obtain each type and variety of aluminum, steel and wood door hardware from the same single source manufacturer and supplier, unless otherwise indicated.
- 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 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) Fire Doors: Minimum opening force allowable by authorities having jurisdiction.
 - c. Thresholds: Not more than 1/2 inch high. Bevel raised thresholds with a slope of not more than 1:2.
 - 2. NFPA 101: Comply with the following for means of egress doors:
 - a. 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.
 - b. Thresholds: Not more than 1/2 inch high.
 - 3. International Building Code (2003).
- 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 (neutral pressure at 40" above sill) or UL-10C.
 - 1. Test Pressure: Positive pressure labeling.
- G. Keying Conference: Conduct conference to comply with requirements in Division 1 Section "Project Meetings." Keying conference to incorporate the following criteria into the final keying schedule document:
 - 1. Function of building, purpose of each area and degree of security required.
 - 2. Plans for existing and future key system expansion.
 - 3. Requirements for key control system.
 - 4. Installation of permanent keys and cylinder cores.
 - 5. Address and requirements for delivery of keys.
- H. Pre-Installation Conference: Conduct conference at Project site attended by representatives of Door Hardware Manufacturers, Supplier, Installer, and Contractor to review proper hardware installation methods and the procedures for receiving and handling hardware. At completion of

installation, provide written certification that hardware items were applied according to conference recommendations and to finish hardware specifications.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. One complete shipment of door hardware as detailed in approved Door Hardware Schedule Shop Drawings to be inventoried on site and upon receipt of material be secure in lock-up room provided with shelving for door hardware.
- B. Tag each item or package separately with identification related to the final Door Hardware Schedule, and include basic installation instructions with each item or package.
- C. Deliver permanent keys and related accessories directly to Owner via registered mail or overnight package service. Instructions for delivery to the Owner shall be established at the "Keying Conference".

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. Warranty Period: One year from date of Substantial Completion, unless otherwise indicated.
- C. Special Warranty Periods:
 - 1. Five years for bored latches and locksets.
 - 2. Five years for exit devices.
 - 3. Ten years for manual door closers.

PART 2 - PRODUCTS

2.1 SCHEDULED DOOR HARDWARE

- A. General: Provide door hardware for each door to comply with requirements in this Section and the Door Hardware Schedule at the end of Part 3.
 - 1. Door Hardware Sets: Provide quantity, item, size, finish or color indicated for named products listed in Hardware Sets.
 - 2. Sequence of Operation: Provide electrified and access control 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 requirements. Manufacturers' names are abbreviated in the Door Hardware Schedule.

2.2 HINGES AND PIVOTS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
1. Hinges:
 - a. Hager Companies (HA).
 - b. McKinney Products (MC).
 - c. Stanley Hardware (ST).
- B. Standards: BHMA Certified products complying with the following:
1. Butts and Hinges: BHMA A156.1.
 2. Template Hinge Dimensions: BHMA A156.7.
- C. Quantity: Provide the following, unless otherwise indicated:
1. Three Hinges: For doors with heights 61 to 90 inches.
 2. Four Hinges: For doors with heights 91 to 120 inches.
- D. Hinge Weight and Base Material: Unless otherwise indicated, provide the following:
1. Exterior Doors: Heavy weight, non-ferrous, ball bearing hinges.
 2. Interior Doors: Heavy weight, ball bearing hinges unless Hardware Sets indicate standard weight.
- E. Hinge Options: Comply with the following where indicated in the Door Hardware Schedule or on Drawings:
1. Non-removable 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. Out-swinging exterior doors.

2.3 DOOR BOLTS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
1. Flush Bolts:
 - a. McKinney Products (MC).
 - b. Rockwood Manufacturing (RO).
 - c. Trimco Manufacturing (TR).
- B. Standards: Comply with the following:
1. Manual Flush Bolts: BHMA A156.16.
- C. Surface Bolts and Flush Bolts: BHMA Certified Grade 1.
- D. Provide bolts with top rod of sufficient length to allow bolt location approximately six feet from the floor regardless if detailed as such in hardware sets. Furnish dust proof strikes for bottom

bolts. Surface bolts to be 8" in length, unless otherwise noted and U.L. listed for labeled fire doors.

- E. 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.

2.4 LOCKS AND LATCHES

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - 1. Mechanical Bored Locks and Latches:
 - a. Corbin Russwin Hardware (CR) - CL3300 Series.
 - b. Sargent Manufacturing (SA) - 10-Line Series.
 - c. Schlage (SC) – ND Series
 - 2. Pocket Door Deadlock:
 - a. Adams Rite (AR) – 5017 x 4016 Cylinder.
 - 3. Auxiliary Cylindrical Deadbolts:
 - a. Corbin Russwin Hardware (CR) - DL3000 Series.
 - b. Sargent Manufacturing (SA) - 480 Series.
 - c. Schlage (SC) – B600 Series
- B. Standards: Comply with the following:
 - 1. Bored Locks and Latches: BHMA A156.2.
 - 2. Auxiliary Locks: BHMA A156.5.
- C. Bored Locks: BHMA Certified Grade 1, Series 4000.
- D. Auxiliary Locks: BHMA Certified Grade 1.
- E. Lock Functions: Function numbers and descriptions indicated in the Door Hardware Schedule comply with the following:
 - 1. Bored Locks: BHMA A156.2.
- F. Lock Throw: Comply with testing requirements for length of bolts to comply with labeled fire door requirements, and as follows:
 - 1. Bored Locks: Minimum 1/2-inch latchbolt throw.
 - 2. Deadbolts: Minimum 1-inch bolt throw.
- G. Backset: 2-3/4 inches unless otherwise indicated.

2.5 CYLINDERS AND KEYING

- A. Provide cylinders keyed to the existing master key system as outlined by the owner and Architect during the keying conference.
- B. Standards: Comply with the following:
 - 1. Cylinders: BHMA A156.5.
- C. Cylinder Grade: BHMA Certified Grade 1.
- D. Construction Keying: Comply with the following:
 - 1. Construction Master keying: Provide temporary construction master keyed cylinders as required to maintain adequate security during the construction period. Provide construction master keys in quantity as required by project Contractor.
- E. Keying System: Unless otherwise indicated, provide for a keying system complying with the following requirements:
 - 1. Master Key System: Cylinders are factory keyed operated by a change key, master key, and a grand master key. Conduct keying meeting with End User to define and document keying system instructions and requirements.
- F. Keys: Provide nickel-silver keys complying with the following:
 - 1. Stamping: Permanently inscribe each key with a visual key control number and as directed by Owner.
 - 2. Quantity: Provide the following:
 - a. Cylinder Change Keys (Per Key Set): Three.
 - b. Master Keys (Per Level): Five.
 - c. Grand Master Keys: Two.
- G. Key Registration List: Provide keying transcript list to Owner's representative for lock cylinders.

2.6 EXIT DEVICES

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - 1. Exit Devices:
 - a. Corbin Russwin Hardware (CR) - ED5000 Series.
 - b. Sargent Manufacturing (SA) - 80 Series.
 - c. Von Duprin (VO) – 98 Series.
- B. Standard: BHMA A156.3.
- C. Exit Devices: BHMA Certified Grade 1.
- 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. Outside Trim: Match design for locksets and latchsets, unless otherwise indicated.
- G. Through Bolt Installation: For exit devices and trim as required for fire rated wood doors.

2.7 ACCESSORIES FOR PAIRS OF DOORS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - 1. Keyed Removable Mullions:
 - a. Corbin Russwin Hardware (C-R).
 - b. Sargent Manufacturing (SA).
 - c. Von Duprin (VO).
- B. Standards: Comply with the following:
 - 1. Coordinators: BHMA A156.3.
 - 2. Removable Mullions: BHMA A156.3.

2.8 CLOSERS

- A. Manufacturers: Subject to compliance with requirements, provide products by one the following:
 - 1. Surface-Mounted Closers (Heavy Duty): BHMA Certified Grade 1.
 - a. Corbin Russwin Hardware (CR) - DC6000 Series with heavy duty arms.
 - b. LCN Door Closers (LC) – 4040 Series with heavy duty arms.
 - c. Norton Door Controls (NO) - 7500 Series with heavy duty arms.
 - d. Sargent Manufacturing (SA) - 351 Series with heavy duty arms.
 - 2. Surface-Mounted Closers (Standard Duty): BHMA Certified Grade 1.
 - a. Corbin Russwin Hardware (CR) - DC3000 Series.
 - b. LCN Door Closers (LC) – 1460 Series.
 - c. Norton Door Controls (NO) - 8500 Series.
 - d. Sargent Manufacturing (SA) - 1431 Series.
- B. Standards: Comply with the following:
 - 1. Closers: BHMA A156.4.
- C. Size of Units: Unless otherwise indicated, comply with manufacturer's written recommendations for sizing of door closers depending on size of door, exposure to weather, and anticipated frequency of use. Provide non-handed, factory-sized closers adjustable to meet field conditions and requirements for opening force.

- D. Closer Options: As indicated in hardware sets, provide door closer options including: delayed action, hold open arms, extra duty parallel arms, positive stop/hold open arms, compression stop/hold open arms, special mounting brackets, spacers and drop plates. Through bolt type mounting is required as indicated in the door hardware sets.

2.9 OPERATING and PROTECTIVE TRIM UNITS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - 1. Metal Protective Trim Units:
 - a. McKinney Products (MC).
 - b. Rockwood Manufacturing (RO).
 - c. Trimco Manufacturing (TR).
- B. Standard: Comply with BHMA A156.6.
- C. Materials: Fabricate protection plates from the following:
 - 1. Brass/Bronze and Stainless Steel: .050 inches thick, beveled four sides (B4E) with countersunk screw holes.
- D. Push-Pull Design: 1" Round with 10" Centers. Provide 90 degree offset pulls at exterior openings.
- E. Fasteners: Provide manufacturer's designated fastener type as indicated in door hardware sets.
- F. Furnish protection plates sized 1-1/2 inches less than door width (LDW) on push side and 1 inch less door width on pull side by height specified in door hardware sets.

2.10 STOPS AND HOLDERS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - 1. Stops and Holders:
 - a. McKinney Products (MC).
 - b. Rockwood Manufacturing (RO).
 - c. Trimco Manufacturing (TR).
- B. Standards: Comply with the following:
 - 1. Stops and Bumpers: BHMA A156.16.
 - 2. Combination Overhead Holders and Stops: BHMA A156.8.
 - 3. Door Silencers: BHMA A156.16.
- C. Stops and Bumpers: BHMA Certified Grade 1.
- D. Combination Overhead Stops and Holders: Certified BHMA Grade 1.

1. Glynn-Johnson (GJ).
2. Rixson Hardware (RX).
3. Sargent Hardware (SA).

- E. Floor Stops: For doors, unless wall or other type stops are scheduled or indicated. Do not mount floor stops where they will impede traffic.
1. Where floor or wall stops are not appropriate, provide overhead stops.
- F. Silencers for Metal Door Frames: BHMA Grade 1; neoprene or rubber, minimum diameter 1/2 inch fabricated for drilled-in application to frame. Provide (3) per single door and (2) per paired door frame if applied gasketing is not specified in Hardware Sets.

2.11 DOOR THRESHOLDS, WEATHERSTRIPPING AND GASKETING

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
1. Door Thresholds, Weatherstripping and Gasket Seals:
 - a. McKinney Weatherstripping Products (MW).
 - b. NGP Manufacturing (NG)
 - c. Pemko Manufacturing (PE).
- B. Standard: Comply with BHMA A156.22.
- C. General: Provide continuous weatherstrip seal on exterior doors and smoke, light, or sound gasketing on interior doors where specified. Provide non-corrosive fasteners for exterior applications.
1. Perimeter Gasketing: Apply to head and jamb, forming seal between door and frame. Install header seal before mounting door closer arms.
 2. Meeting Stile Astragals: Fasten to meeting stiles, forming seal when doors are closed.
 3. Door Sweep: Apply to bottom of door, forming seal with threshold when door is closed.

2.12 FABRICATION

- A. Fasteners: Provide door hardware manufactured to comply with published templates generally prepared for machine, wood, and sheet metal screws. Provide screws according to manufacturers recognized installation standards for application intended.

2.13 FINISHES

- A. Standard: Comply with BHMA A156.18.
- B. Provide quality of finish, including thickness of plating or coating (if any), composition, hardness, and other qualities complying with manufacturer's standards, but in no case less than specified by referenced standards for the applicable units of hardware.
- C. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

- 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.

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. Proceed with installation only after unsatisfactory conditions have been corrected.
- C. Notify architect of any discrepancies or conflicts between the door schedule, door types, drawings and scheduled hardware. Proceed only after such discrepancies or conflicts have been resolved in writing.

3.2 PREPARATION

- A. Steel Doors and Frames: Comply with ANSI/DHI A115 series.
- B. Wood Doors: Comply with ANSI/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. 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.
- C. Provide and coordinate concealed wood blocking for wall mount stops as detailed in Door Hardware Schedule.
- D. 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. The Contractor shall comply with AIA A201 1997 section 3.3.1 which reads as follows: "The Contractor shall be solely responsible for and have control over construction means, methods, techniques, sequences and procedures and for coordinating all portions of the Work under the Contract, unless the contract Documents give other specific instructions concerning these matters."
- B. Field Inspection: Supplier and Door Hardware Manufacturer will perform a final inspection of installed door hardware and state in report whether work complies with or deviates from requirements, including whether door hardware is properly installed, operating 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. 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.

3.6 CLEANING AND PROTECTION

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

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 SETS

- A. The hardware sets listed below represent the design intent and direction of the owner and architect. They are a guideline only and should not be considered a detailed hardware schedule. Discrepancies, conflicting hardware and missing items should be brought to the attention of the architect with corrections made prior to the bidding process.

SET #1 - Exterior Egress Pair

Doors: D101A, D101B

6 Hvy Wgt Hinges SS NRP	T4A3386 4 1/2 X 4 1/2 NRP	32D	MC
1 Removable Mullion	L980S	PC	SA
1 Rim Exit Device - Lever x Cyl	8813 ETL	32D	SA
1 Rim Exit Device - Lvr Dummy	8810 ETL-DT	32D	SA

2 PA Closer - HD Arm	351 P10	EN	SA
2 Kickplate	K1050 10" x 2" LDW B4E CSK	US32D	RO
2 Heavy Duty Door Stop	462	US32D	RO
1 Set Weatherstrip	303 AV (Head and Jambs)		PE
1 Raindrip	346 C x Length Required		PE
1 Split Astragal - Nylon Brush	18061 CNB x Height Required		PE
2 Door Sweep with Drip	345 AV x Length Required		PE
1 Panic Threshold	2005 AV x Length Required		PE

SET #2 - Exterior Egress Door

Doors: D101C

3 Hvy Wgt Hinges SS NRP	T4A3386 4 1/2 X 4 1/2 NRP	32D	MC
1 Rim Exit Device - Lever x Cyl	8813 ETL	32D	SA
1 PA Closer - HD Arm	351 P10	EN	SA
1 Kickplate	K1050 10" x 2" LDW B4E CSK	US32D	RO
1 Heavy Duty Door Stop	462	US32D	RO
1 Set Weatherstrip	303 AV (Head and Jambs)		PE
1 Raindrip	346 C x Length Required		PE
1 Door Sweep with Drip	345 AV x Length Required		PE
1 Panic Threshold	2005 AV x Length Required		PE

SET #3 - Storeroom - Wall Stop - NRP

Doors: D104

3 PB Hinges NRP	T2714 4 1/2 X 4 1/2 NRP	26D	MC
1 Storeroom Lock	28 10G04 LL	26D	SA
1 Concave Wall Stop	409	US26D	RO
3 Door Silencers	609		RO

SET #4 - Storeroom - OH Stop - NRP

Doors: D106

3 PB Hinges NRP	T2714 4 1/2 X 4 1/2 NRP	26D	MC
1 Storeroom Lock	28 10G04 LL	26D	SA
1 Overhead Stop	10-336	652	RX
3 Door Silencers	609		RO

SET #5 - Storeroom Pair - OH Stop - NRP

Doors: D108, D109

6 PB Hinges NRP	T2714 4 1/2 X 4 1/2 NRP	26D	MC
2 Flush Bolt - Metal Door	555	US26D	RO
1 Storeroom Lock	28 10G04 LL	26D	SA
2 Overhead Stop	10-336	652	RX
1 Dust Proof Strike with Plate	570	US32D	RO
1 Overlapping T Astragal	355 CS x Height Required		PE
2 Door Silencers	609		RO

SET #6 - Shared Restroom with Wall Stop

Doors: D102, D103

3 BB Hinges	TA2714 4 1/2 X 4 1/2	26D	MC
1 Deadlock	487	26D	SA
1 Push Plate - 4 x 16	70C	US32D	RO
1 Door Pull	107 X 70C	US32D	RO
1 Reg/PA Closer	1431 UO	EN	SA
1 Kickplate	K1050 10" x 2" LDW B4E CSK	US32D	RO
1 Mop Plate	K1050 4" x 1" LDW B4E CSK	US32D	RO
1 Concave Wall Stop	409	US26D	RO
1 Smoke Seal	S88 C (Head and Jambs)		PE

SET #7 - Pocket Door

Doors: D105A, D105B, D107

1 Pocket Door Deadlock	5017 X 4026	628	AR
1 Sliding Door Pull	1069	626	TR
1 Pocket Door Kit	9878 72		HA

END OF SECTION 08710