

ADDENDUM NO. 2

DARKE COUNTY BOARD OF COMMISSIONERS Darke County Board of DD Training Center Renovation August 29, 2019

To: Planholders

From: Mote & Associates, Inc. Phone: (937) 548-7511
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Re: Darke County Board of Commissioners
Darke County Board of DD Training Center Renovation

This Addendum forms a part of the Contract Documents and modifies the original Contract Documents dated August 2019, and Addendum #1 dated August 27, 2019. Acknowledge receipt of this Addendum in the space provided on the Bid Proposal form. Failure to do so may subject the Bidder to disqualification.

CHANGES/CLARIFICATIONS TO THE BIDDING DOCUMENTS:

1. ADVERTISEMENT FOR BIDS, SECTION 00 11 13

The time for the receiving of the Bids has been extended to Wednesday, September 11, 2019 at 1:00 P.M. (local time). The bid opening will take place at the Darke County Board of Commissioners (Owner) at the Darke County Administration Building, 520 South Broadway, Greenville, Ohio 45331. The bids received will be publicly opened and read aloud during the regular session on the same day beginning at 1:30 P.M.

CHANGES/CLARIFICATIONS TO THE TECHNICAL SPECIFICATIONS:

2. Section 01 21 00, Allowances

This technical specification has been revised and the replacement is attached hereto and shall be utilized for this project in lieu of the version included in the Contract Documents Manual. Changes include the following: 1) Revision to Section 3.02 Schedule of Allowances – A & B have been revised to coincide with the Bid Form 00 41 43.

3. Section 08 71 00, Door Hardware

This technical specification has been revised and the replacement is attached hereto and shall be utilized for this project in lieu of the version included in the Contract Documents Manual. Changes include the following: 1) Section 3.07 Door Hardware Schedule – F. Hardware Group 6 has been added in reference to Door #13 which is found in the Door Schedule on Sheet A6.01 of the drawings.

CHANGES/CLARIFICATIONS TO THE CONSTRUCTION PLANS:

4. Sheet A6.01, Schedules

1. Door #13 shall have a 4" x 20" vision panel in both door leafs.

End of Addendum

Attachments: Section 01 21 00 Allowances
Section 08 71 00 Door Hardware

ALLOWANCES
01 21 00

PART ONE – GENERAL

1.01 Summary

- A. This Section includes administrative and procedural requirements governing allowances.
 - 1. Certain items are specified in the Contract Documents by allowances. Allowances have been established in lieu of additional requirements and to defer selection of actual materials and equipment to a later date when additional information is available for evaluation. If necessary, additional requirements will be issued by Change Order.

- B. Types of allowances include the following:
 - 1. Contingency allowances.
 - 2. Lump sum allowances.

1.02 Selection and Purchase

- A. At the earliest practical date after award of the Contract, advise Engineer of the date when final selection and purchase of each product or system described by an allowance must be completed to avoid delaying the Work.

- B. At Engineer's request, obtain proposals for each allowance for use in making final selections. Include recommendations that are relevant to performing the Work.

- C. Purchase products and systems selected by Engineer from the designated supplier.

1.03 Submittals

- A. Submit proposals for purchase of products or systems included in allowances, in the form specified for Change Orders.

- B. Submit invoices or delivery slips to show actual quantities of materials delivered to the site for use in fulfillment of each allowance.

- C. Coordinate and process submittals for allowance items in same manner as for other portions of the Work.

1.04 Overhead and Profit for Allowances

- A. Contractor's overhead and profit, and all similar mark-up costs related to products and materials procured under allowances shall be included as part of the Base Bid Contract Sum and not part of the allowance.

1.05 Contingency Allowances

- A. Use the contingency allowance only as directed by Engineer for Owner's purposes and only by Change Orders that indicate amounts to be charged to the allowance. Any unused

allowance amount remaining at completion of the project will be deducted from the contract amount by change order.

PART TWO – PRODUCTS (Not Used)

PART THREE - EXECUTION

3.01 Preparation

- A. Coordinate materials and their installation for each allowance with related materials and installations to ensure that each allowance item is completely integrated and interfaced with related work.
- B. Include the following as part of the Base Bid and not as part of the allowance cost:
 - 1. Placement of the order for all materials.
 - 2. Scheduling of delivery of all materials.
 - 3. Receipt of delivery of all materials, including verification that no received materials are damaged.
 - 4. Unloading, material handling, proper storage, and protection of all materials from the time that they arrive on site.
 - 5. Responsibility for any and all damage that occurs to all materials in the same manner as if the materials were part of the Base Bid.

3.02 Schedule of Allowances

- A. Contingency Signage Allowance No. 1: Include \$2,000 for use as directed by the Engineer and as approved by the Owner.
- B. Contingency Allowance No. 2: Include \$10,000 for use as directed by the Engineer and as approved by the Owner.

END OF SECTION

DOOR HARDWARE
08 71 00

PART ONE – GENERAL

1.01 Summary – This Section Includes:

- A. Hardware for aluminum entrance doors.
- B. Hardware for hollow metal doors.
- C. Installation Templates: Distribute for doors, frames, and other work specified to be factory prepared. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing door hardware to comply with indicated requirements.
- D. Electrical System Roughing-In: Coordinate layout and installation of electrified door hardware with connections to power supplies and building safety and security systems.

1.02 Submittals

- A. Product Data: For each type of product.
- B. Shop Drawings: For electrified door hardware.
 - 1. Include diagrams for power, signal, and control wiring.
 - 2. Include details of interface of electrified door hardware and building safety and security systems.
- C. Samples: For each exposed product in each finish specified, in manufacturer's standard size.
 - 1. Tag samples with full product description to coordinate Samples with door hardware schedule.
- D. Door Hardware Schedule: Coordinate door hardware schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.
 - 1. Submittal Sequence: Submit door hardware schedule concurrent with submissions of Product Data, Samples, and Shop Drawings.
 - 2. Format: Use same scheduling sequence and format as in door hardware schedule in the Contract Documents.
 - 3. Content: Include the following information:
 - a. Identification number, location, hand, fire rating, size, and material of each door and frame.
 - b. Locations of each door hardware set, cross-referenced to Drawings on floor plans and to door and frame schedule.
 - c. Complete designations, including name and manufacturer, type, style, function, size, quantity, function, and finish of each door hardware product.
 - d. Description of electrified door hardware sequences of operation and interfaces with other building control systems.

- e. Fastenings and other installation information.
 - f. Explanation of abbreviations, symbols, and designations contained in door hardware schedule.
 - g. Mounting locations for door hardware.
- E. Product Certificates: For each type of electrified door hardware.
- 1. Certify that door hardware for use on each type and size of labeled fire-rated doors complies with listed fire-rated door assemblies.
- F. Product Test Reports: For compliance with accessibility requirements, for tests performed by manufacturer and witnessed by a qualified testing agency, for door hardware on doors located in accessible routes.

1.03 Delivery, Storage, and Handling

- A. Inventory door hardware on receipt and provide secure lock-up for door hardware delivered to Project site.
- B. Tag each item or package separately with identification coordinated with the final door hardware schedule, and include installation instructions, templates, and necessary fasteners with each item or package.

1.04 Warranty

- A. Special Warranty: Manufacturer agrees to repair or replace components of door hardware that fail in materials or workmanship within specified warranty period.
 - 1. Failures include, but are not limited to, the following:
 - a. Structural failures including excessive deflection, cracking, or breakage.
 - b. Faulty operation of doors and door hardware.
 - c. Deterioration of metals, metal finishes, and other materials beyond normal weathering and use.
 - 2. Warranty Period: Three years from date of Substantial Completion unless otherwise indicated.

PART TWO - PRODUCTS

2.01 Manufacturers

- A. Source Limitations: Obtain each type of door hardware from single manufacturer.
 - 1. Provide electrified door hardware from same manufacturer as mechanical door hardware.

2.02 Performance Requirements

- A. Fire-Rated Door Assemblies: Where fire-rated doors are indicated, provide door hardware complying with NFPA 80 that is listed and labeled by a qualified testing agency, for fire-protection ratings indicated, based on testing at positive pressure according to NFPA 252 or UL 10C.

- B. Electrified Door Hardware: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
- C. Means of Egress Doors: Latches do not require more than 15 lbf to release the latch. Locks do not require use of a key, tool, or special knowledge for operation.
- D. Accessibility Requirements: For all door hardware comply with the DOJ's "2010 ADA Standards for Accessible Design", unless otherwise indicated.
 - 1. Provide operating devices that do not require tight grasping, pinching, or twisting of the wrist and that operate with a force of not more than 5 lbf.
 - 2. Comply with the following maximum opening-force requirements:
 - a. Interior, Non-Fire-Rated Hinged Doors: 5 lbf applied perpendicular to door.
 - b. Fire Doors: Minimum opening force allowable by authorities having jurisdiction.
 - 3. Bevel raised thresholds with a slope of not more than 1:2. Provide thresholds not more than 1/2 inch high.
 - 4. Adjust door closer sweep periods so that, from an open position of 90 degrees, the door will take at least 5 seconds to move to a position of 12 degrees from the latch.

2.03 Hinges

- A. Hinges: BHMA A156.1
 - 1. Manufacturers: Subject to compliance with requirements, provide products by of the following:
 - a. Allegion plc.
 - b. Bommer Industries, Inc.
 - c. Hager Companies.
 - d. McKinney Products Company; an ASSA ABLOY Group company.
 - e. Stanley Commercial Hardware; a division of Stanley Security Solutions.

2.04 Mechanical Locks and Latches

- A. Lock Throw: Comply with testing requirements for length of bolts required for labeled fire doors, and as follows:
 - 1. Bored Locks: Minimum 1/2-inch latchbolt throw.
 - 2. Mortise Locks: Minimum 3/4-inch latchbolt throw.
 - 3. Deadbolts: Minimum 1-inch bolt throw.
- B. Lock Backset: 2-3/4 inches unless otherwise indicated.
- C. Lock Trim:
 - 1. Description: As indicated on Drawings.
 - 2. Levers: Wrought, Forged, or Cast.
 - 3. Escutcheons (Roses): Wrought, Forged, or Cast.
 - 4. Dummy Trim: Match lever lock trim and escutcheons.
- D. Strikes: Provide manufacturer's standard strike for each lock bolt or latchbolt complying with requirements indicated for applicable lock or latch and with strike box and curved lip extended to protect frame; finished to match lock or latch.

1. Flat-Lip Strikes: For locks with three-piece antifriction latchbolts, as recommended by manufacturer.
 2. Extra-Long-Lip Strikes: For locks used on frames with applied wood casing trim.
 3. Aluminum-Frame Strike Box: Manufacturer's special strike box fabricated for aluminum framing.
 4. Rabbet Front and Strike: Provide on locksets for rabbeted meeting stiles.
- E. Bored Locks: BHMA A156.2; Grade 1; Series 4000.
1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Allegion plc.
 - b. Arrow USA; an ASSA ABLOY Group company.
 - c. Best Access Systems; Stanley Security Solutions, Inc.
 - d. Corbin Russwin, Inc.; an ASSA ABLOY Group company.
 - e. Hager Companies.
 - f. SARGENT Manufacturing Company; ASSA ABLOY.
 - g. Stanley Commercial Hardware; a division of Stanley Security Solutions.
 - h. Yale Security Inc; an ASSA ABLOY Group company.
- F. Mortise Locks: BHMA A156.13; Operational Grade 1; stamped steel case with steel or brass parts; Series 1000.
1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Adams Rite Manufacturing Co; an ASSA ABLOY Group company.
 - b. Allegion plc.
 - c. Arrow USA; an ASSA ABLOY Group company.
 - d. Best Access Systems; Stanley Security Solutions, Inc.
 - e. Corbin Russwin, Inc.; an ASSA ABLOY Group company.
 - f. Hager Companies.
 - g. SARGENT Manufacturing Company; ASSA ABLOY.
 - h. Stanley Commercial Hardware; a division of Stanley Security Solutions.
 - i. Yale Security Inc; an ASSA ABLOY Group company.

2.05 Auxiliary Locks

- A. Bored Auxiliary Locks: BHMA A156.36; [Grade 1] [Grade 2]; with strike that suits frame.
1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Allegion plc.
 - b. Arrow USA; an ASSA ABLOY Group company.
 - c. Best Access Systems; Stanley Security Solutions, Inc.
 - d. Hager Companies.
 - e. Medeco Security Locks; an ASSA ABLOY Group company.
 - f. SARGENT Manufacturing Company; ASSA ABLOY.
 - g. Stanley Commercial Hardware; a division of Stanley Security Solutions.
 - h. Yale Security Inc; an ASSA ABLOY Group company.
- B. Mortise Auxiliary Locks: BHMA A156.36; Grade 1; with strike that suits frame.
1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Adams Rite Manufacturing Co; an ASSA ABLOY Group company.

- b. Allegion plc.
- c. Arrow USA; an ASSA ABLOY Group company.
- d. Best Access Systems; Stanley Security Solutions, Inc.
- e. Hager Companies.
- f. SARGENT Manufacturing Company; ASSA ABLOY.
- g. Stanley Commercial Hardware; a division of Stanley Security Solutions.
- h. Yale Security Inc; an ASSA ABLOY Group company.

2.06 Electric Strikes

- A. Electric Strikes: BHMA A156.31; Grade 1; with faceplate to suit lock and frame.
 - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Adams Rite Manufacturing Co; an ASSA ABLOY Group company.
 - b. Allegion plc.
 - c. HES, Inc.; an ASSA ABLOY Group company.
 - d. Securitron Magnalock Corporation; an ASSA ABLOY Group company.
 - e. Stanley Commercial Hardware; a division of Stanley Security Solutions.

2.07 Electromechanical Locks

- A. Electromechanical Locks: BHMA A156.25; Grade 1; motor or solenoid driven; with strike that suits frame.
 - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Allegion plc.
 - b. Best Access Systems; Stanley Security Solutions, Inc.
 - c. SARGENT Manufacturing Company; ASSA ABLOY.
 - d. Stanley Commercial Hardware; a division of Stanley Security Solutions.
 - e. Yale Security Inc; an ASSA ABLOY Group company.
 - 2. Type: Mortise latchbolt.

2.08 Exit Locks and Exit Alarms

- A. Exit Locks and Alarms: BHMA A156.29, Grade 1.
 - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Arrow USA; an ASSA ABLOY Group company.
 - b. Precision Hardware, Inc.; a Stanley company.
 - c. SARGENT Manufacturing Company; ASSA ABLOY.

2.09 Manual Flush Bolts

- A. Manual Flush Bolts: BHMA A156.16; minimum 3/4-inch throw; designed for mortising into door edge.
 - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Adams Rite Manufacturing Co; an ASSA ABLOY Group company.
 - b. Allegion plc.

2.10 Automatic and Self-Latching Flush Bolts

- A. Automatic and Self-Latching Flush Bolts: BHMA A156.16; minimum 3/4-inch throw; designed for mortising into door edge.
 - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Allegion plc.

2.11 Exit Devices and Auxiliary Items

- A. Exit Devices and Auxiliary Items: BHMA A156.3.
 - 1. Basis-of-Design Product: Subject to compliance with requirements, provide DORMA Americas; <Insert product name or designation> or comparable product by one of the following:
 - a. Adams Rite Manufacturing Co; an ASSA ABLOY Group company.
 - b. Allegion plc.
 - c. Arrow USA; an ASSA ABLOY Group company.
 - d. Corbin Russwin, Inc.; an ASSA ABLOY Group company.
 - e. Hager Companies.
 - f. Precision Hardware, Inc.; a Stanley company.
 - g. SARGENT Manufacturing Company; ASSA ABLOY.
 - h. Stanley Commercial Hardware; a division of Stanley Security Solutions.
 - i. Yale Security Inc; an ASSA ABLOY Group company

2.12 Lock Cylinders

- A. Lock Cylinders: Tumbler type, constructed from brass or bronze, stainless steel, or nickel silver
 - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Allegion plc.
 - b. Arrow USA; an ASSA ABLOY Group company.
 - c. ASSA, Inc.
 - d. Best Access Systems; Stanley Security Solutions, Inc.
 - e. Corbin Russwin, Inc.; an ASSA ABLOY Group company.
 - f. Hager Companies.
 - g. SARGENT Manufacturing Company; ASSA ABLOY.
 - h. Stanley Commercial Hardware; a division of Stanley Security Solutions.
 - i. Yale Security Inc; an ASSA ABLOY Group company.
- B. Standard Lock Cylinders: BHMA A156.5; Grade 1 permanent cores; face finished to match lockset.
 - 1. Core Type: Interchangeable.
- C. Construction Master Keys: Provide cylinders with feature that permits voiding of construction keys without cylinder removal. Provide 10 construction master keys.
- D. Construction Cores: Provide construction cores that are replaceable by permanent cores.

2.13 Keying

- A. Keying System: Factory registered, complying with guidelines in BHMA A156.28, appendix. Provide one extra key blank for each lock.
 - 1. Coordinate keying with Owner.
- B. Keys: Nickel silver.

2.14 Surface Closers

- A. Surface Closers: BHMA A156.4; rack-and-pinion hydraulic type with adjustable sweep and latch speeds controlled by key-operated valves and forged-steel main arm. Comply with manufacturer's written instructions for size of door closers depending on size of door, exposure to weather, and anticipated frequency of use. Provide factory-sized closers, adjustable to meet field conditions and requirements for opening force.
 - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Allegion plc.
 - b. Arrow USA; an ASSA ABLOY Group company.
 - c. Corbin Russwin, Inc.; an ASSA ABLOY Group company.
 - d. Hager Companies.
 - e. Norton Door Controls; an ASSA ABLOY Group company.
 - f. Rixson Specialty Door Controls; an ASSA ABLOY Group company
 - g. SARGENT Manufacturing Company; ASSA ABLOY.
 - h. Stanley Commercial Hardware; a division of Stanley Security Solutions.
 - i. Yale Security Inc; an ASSA ABLOY Group company.

2.15 Mechanical Stops and Holders

- A. Wall- and Floor-Mounted Stops: BHMA A156.16.
 - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Allegion plc.
 - b. Hager Companies.
 - c. Rockwood Manufacturing Company; an ASSA ABLOY Group company.

2.16 Door Gasketing

- A. Door Gasketing: BHMA A156.22; with resilient or flexible seal strips that are easily replaceable and readily available from stocks maintained by manufacturer.
 - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Hager Companies.
 - b. Pemko Manufacturing Co.
 - c. Zero International, Inc.
- B. Maximum Air Leakage: When tested according to ASTM E 283 with tested pressure differential of 0.3-inch wg, as follows:
 - 1. Smoke-Rated Gasketing: 0.3 cfm/sq. ft. of door opening.
 - 2. Gasketing on Single Doors: 0.3 cfm/sq. ft. of door opening.
 - 3. Gasketing on Double Doors: 0.50 cfm per foot of door opening.

2.17 Thresholds

- A. Thresholds: BHMA A156.21; fabricated to full width of opening indicated.
 - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Hager Companies.
 - b. Pemko Manufacturing Co.
 - c. Rixson Specialty Door Controls; an ASSA ABLOY Group company.
 - d. Zero International, Inc.

2.18 Fabrication

- A. Manufacturer's Nameplate: Do not provide products that have manufacturer's name or trade name displayed in a visible location except in conjunction with required fire-rating labels and as otherwise approved by Engineer.
- B. Base Metals: Produce door hardware units of base metal indicated, fabricated by forming method indicated, using manufacturer's standard metal alloy, composition, temper, and hardness. Furnish metals of a quality equal to or greater than that of specified door hardware units and BHMA A156.18.
- C. Fasteners: Provide door hardware manufactured to comply with published templates prepared for machine, wood, and sheet metal screws. Provide screws that comply with commercially recognized industry standards for application intended, except aluminum fasteners are not permitted. Provide Phillips flat-head screws with finished heads to match surface of door hardware unless otherwise indicated.
 - 1. Concealed Fasteners: For door hardware units that are exposed when door is closed, except for units already specified with concealed fasteners. Do not use through bolts for installation where bolt head or nut on opposite face is exposed unless it is the only means of securely attaching the door hardware. Where through bolts are used on hollow door and frame construction, provide sleeves for each through bolt.
 - 2. Fire-Rated Applications:
 - a. Wood or Machine Screws: For the following:
 - 1) Hinges mortised to doors or frames.
 - 2) Strike plates to frames.
 - 3) Closers to doors and frames.
 - b. Steel Through Bolts: For the following unless door blocking is provided:
 - 1) Surface hinges to doors.
 - 2) Closers to doors and frames.
 - 3) Surface-mounted exit devices.
 - 3. Spacers or Hex Bolts: For through bolting of hollow-metal doors.
 - 4. Gasketing Fasteners: Provide noncorrosive fasteners for exterior applications and elsewhere as indicated.

2.19 Finishes

- A. Provide finishes complying with BHMA A156.18 as indicated in door hardware schedule.
- B. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

- C. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable if they are within one-half of the range of approved Samples. Noticeable variations in the same piece are not acceptable. Variations in appearance of other components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

PART THREE - EXECUTION

3.01 Installation

- A. Mounting Heights: Mount door hardware units at heights to comply with the following unless otherwise indicated or required to comply with governing regulations.
 - 1. Standard Steel Doors and Frames: ANSI/SDI A250.8.
 - 2. Custom Steel Doors and Frames: HMMA 831.
- 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. Do not install surface-mounted items until finishes have been completed on substrates involved.
 - 1. Set units level, plumb, and true to line and location. Adjust and reinforce attachment substrates as necessary for proper installation and operation.
 - 2. Drill and countersink units that are not factory prepared for anchorage fasteners. Space fasteners and anchors according to industry standards.
- C. Hinges: Install types and in quantities indicated in door hardware schedule, but not fewer than the number recommended by manufacturer for application indicated or one hinge for every 30 inches of door height, whichever is more stringent, unless other equivalent means of support for door, such as spring hinges or pivots, are provided.
- D. Lock Cylinders: Install construction cores to secure building and areas during construction period.
 - 1. Replace construction cores with permanent cores.
- E. Boxed Power Supplies: Locate power supplies as indicated.
 - 1. Configuration: Provide least number of power supplies required to adequately serve doors with electrified door hardware.
- F. Thresholds: Set thresholds for exterior doors and other doors indicated in full bed of sealant.
- G. Stops: Provide floor stops for doors unless wall or other type stops are indicated in door hardware schedule. Do not mount floor stops where they will impede traffic.
- H. Perimeter Gasketing: Apply to head and jamb, forming seal between door and frame.
 - 1. Do not notch perimeter gasketing to install other surface-applied hardware.
- I. Door Bottoms: Apply to bottom of door, forming seal with threshold when door is closed.

3.02 Field Quality Control

3.03 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 to comply with accessibility requirements and requirements of authorities having jurisdiction.
 - 2. Electric Strikes: Adjust horizontal and vertical alignment of keeper to properly engage lock bolt.

3.04 Cleaning and Protection

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

3.05 Maintenance

- A. Maintenance Tools and Instructions: Furnish a complete set of specialized tools and maintenance instructions for Owner's continued adjustment, maintenance, and removal and replacement of door hardware.

3.06 Demonstration

- A. Train Owner's maintenance personnel to adjust, operate, and maintain door hardware.

3.07 Door Hardware Schedule

- A. Hardware Group 1
 - 1. Hinge
 - a. Quantity: For aluminum storefront, 2 door leaves.
 - b. Finish: Match door finish.
 - c. Style: Door manufacturer's standard, ADA compliant.
 - d. Notes: By door manufacturer.
 - 2. Panic Hardware
 - a. Quantity: 2
 - b. Style: Lockable to prevent outside entry.
 - c. Notes: By door manufacturer.
 - 3. Keyed Lockset
 - a. Quantity
 - b. Finish
 - c. Style
 - d. Notes
 - 4. Rim Cylinder
 - a. Quantity: 1

- b. Finish: Stainless-steel.
- c. Notes
- 5. Surface Closer
 - a. Quantity: 2
 - b. Finish: Match door.
 - c. Style: Manufacturer's standard, ADA compliant.
 - d. Notes: By door manufacturer.
- 6. Pull Handle
 - a. Quantity: 2
 - b. Finish: Match door.
 - c. Style: Door manufacturer's standard, ADA compliant.
 - d. Notes: By door manufacturer.
- 7. Threshold
 - a. Quantity: 1
 - b. Finish: Aluminum.
 - c. Notes: By door manufacturer.
- 8. Weather-strip
 - a. Quantity: Complete set.
 - b. Style: Door manufacturer's standard.
 - c. Notes: By door manufacturer.
- 9. Door Sweep
 - a. Quantity: 2
 - b. Style: Door manufacturer's standard.
 - c. Notes: By door manufacturer.
- 10. Flush Bolts
 - a. Quantity: 2
 - b. Finish: Stainless-steel.
 - c. Style: Manufacturer's standard.
 - d. Notes: By door manufacturer.
- 11. Door Operator
 - a. Quantity: 1, By door manufacturer.
 - b. Interior Wall Mounted ADA Push Button Assemblies: 1
 - c. Compatible Power Supply and Controller: 1
 - d. Exterior with Mounting Pedestal: 1

B. Hardware Group 2

- 1. Hinge
 - a. Quantity: For aluminum storefront, 2 door leaves.
 - b. Finish: Match door finish.
 - c. Style: Door manufacturer's standard, ADA compliant.
 - d. Notes: By door manufacturer.
- 2. Panic Hardware
 - a. Quantity: 2
 - b. Style: Lockable to prevent outside entry.
 - c. Notes: By door manufacturer.
- 3. Surface Closer
 - a. Quantity: 2
 - b. Finish: Match door.
 - c. Style: Manufacturer's standard, ADA compliant.
 - d. Notes: By door manufacturer.
- 4. Pull Handle

- a. Quantity: 2
 - b. Finish: Match door.
 - c. Style: Door manufacturer's standard, ADA compliant.
 - d. Notes: By door manufacturer.
5. Door Operator
- a. Quantity: 1, by door manufacturer.
 - b. Interior Wall Mounted ADA Push Button Assemblies: 2
 - c. Compatible Power Supply and Controller: 1
6. Electric Strike
- a. Quantity: 2 (Flush Bolts)
 - b. Remote Push Button Lock Activator: 1
 - c. Compatible Power Supply and Controller: 1
- C. Hardware Group 3
1. Hinge
- a. Quantity for Aluminum Storefront: 1 Door Leaf
 - b. Finish: Match Door Finish.
 - c. Style: Door Manufacturers Standard ADA Compliant.
2. Panic Hardware
- a. Quantity: 1
 - b. Style: ADA compliant lever on out swinging side.
3. Surface Closer
- a. Quantity: 1
 - b. Finish: Painted Aluminum.
4. Pull Handle
- a. Quantity: 1
 - b. Finish: Match Door.
 - c. Style: Door Manufacturers Standard.
 - d. Notes: By Door Manufacturer.
5. Lockset
- a. Quantity: 1, by door manufacturer.
 - b. Key Operated with Thumb Catch.
- D. Hardware Group 4
1. Hinge
- a. Quantity: 3
 - b. Finish: Stainless Steel.
 - c. Style: Heavy Duty.
2. Cylindrical Lock Set
- a. Quantity: 1
 - b. Finish: Stainless Steel
 - c. Style: Key Operated Cylindrical Heavy Duty.
3. Rim Cylinder
- a. Quantity: 2
 - b. Finish: Stainless Steel.
4. Stop
- a. Quantity: 1
 - b. Finish: Stainless Steel.
 - c. Style: Wall-Mount.
5. Silencer
- a. Quantity: 3

- E. Hardware Group 5
 - 1. Hinge
 - a. Quantity: 6
 - b. Finish: Stainless Steel.
 - c. Style: Heavy Duty.
 - 2. Cylinder Lock – Key Operated for Active Leaf
 - a. Quantity: 1
 - b. Finish: Stainless Steel.
 - 3. Surface Closer
 - a. Quantity: 1
 - b. Finish: Painted Aluminum.
 - c. Style: Heavy.
 - 4. Bolts
 - a. Quantity: 2 Top and Bottom.
 - b. Finish: Stainless Steel.
 - 5. Silencer
 - a. Quantity: 6

- F. Hardware Group 6
 - 1. Hinge
 - a. Quantity: 6
 - b. Finish: Stainless Steel.
 - c. Style: Heavy Duty.
 - 2. Panic Hardware – Operated for Active Leaf
 - a. Quantity: 2
 - b. Finish: Stainless Steel.
 - c. Style: Lockable to prevent corridor side entry.
 - 3. Surface Closer
 - a. Quantity: 2
 - b. Finish: Painted Aluminum.
 - c. Style: Heavy Duty – ADA Compliant.
 - 4. Silencer
 - a. Quantity: 6
 - 5. Pull Handle
 - a. Quantity: 2
 - b. Finish: Stainless Steel.
 - c. ADA Compliant.
 - 6. Door Stays
 - a. Quantity: 2
 - b. Finish: Stainless Steel.
 - c. Style: Wall Mount.

END OF SECTION