

June 12, 2020

Re: TALBOT COUNTY PUBLIC SCHOOLS SECURITY VESTIBULE INSTALLATION
(PROJECT #20.0800-1) REQUEST FOR PROPOSAL (RFP) ADDENDUM

ADDENDUM #4:

The RFP document for the aforementioned project, advertised on May 11, 2020, is being amended and/or clarified based on the following information:

- A. Insulated glazing matching the existing green-tinted glass shall be used for the exterior door and modified exterior storefront at Saint Michaels High School. Interior glazing shall be 1/4" clear laminated glazing at all other locations.

See attached revised specification section 087100R2 for door hardware. Hardware sets shall be as described on the drawings.

- B. Non-thermal doors and glazing shall be used for interior locations.
- C. No mock-ups will be required.
- D. At Saint Michaels High School, contractors shall provide modifications to the curtain wall T-anchor at the base of the exterior wall framing acceptable to the storefront manufacturer to ensure satisfactory anchorage of the existing framing to the existing reinforced masonry knee wall where the new door opening has been added. A vertical strap at each jamb in lieu of one leg of the base T-anchor is suggested, subject to manufacturer recommendations. Alternatively, painted steel plates may be used to finish the cut edges of masonry and to engage the curtain wall anchorage and reinforced masonry, again subject to manufacturer recommendations.

END OF ADDENDUM #4

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SECTION 087100R2 - DOOR HARDWARE REVISED-2

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Mechanical door hardware for the following:
 - a. Swinging doors.
2. Electrified door hardware.

1.2 ACTION 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.

D. Door hardware schedule.

E. Keying schedule.

1.3 INFORMATIONAL SUBMITTALS

A. Sample warranty.

1.4 CLOSEOUT SUBMITTALS

A. Maintenance data.

1.5 QUALITY ASSURANCE

A. Installer Qualifications: Supplier of products and an employer of workers trained and approved by product manufacturers and of an Architectural Hardware Consultant who is available during the course of the Work to consult Contractor, Architect, and Owner about door hardware and keying.

1. Scheduling Responsibility: Preparation of door hardware and keying schedule.

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2. Engineering Responsibility: Preparation of data for electrified door hardware, including Shop Drawings, based on testing and engineering analysis of manufacturer's standard units in assemblies similar to those indicated for this Project.

1.6 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. Warranty Period: Three years from date of Substantial Completion unless otherwise indicated below:
 - a. Electromagnetic Locks: Five years from date of Substantial Completion.
 - b. Exit Devices: Two years from date of Substantial Completion.
 - c. Manual Closers: 10 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 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 (67 N) to release the latch. Locks do not require use of a key, tool, or special knowledge for operation.
- D. Accessibility Requirements: For door hardware on doors in an accessible route, comply with the DOJ's "2010 ADA Standards for Accessible Design" and ICC A117.1.

2.2 SCHEDULED DOOR HARDWARE

- A. Provide products for each door that comply with requirements indicated in Part 2 and door hardware schedule.
 1. Door hardware is scheduled in Part 3.

2.3 HINGES

- A. Hinges: BHMA A156.1. Provide template-produced hinges for hinges installed on hollow-metal doors and hollow-metal frames.

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1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:
 - a. Allegion plc.
 - b. Baldwin Hardware Corporation.
 - c. Bommer Industries, Inc.
 - d. Hager Companies.
 - e. McKinney Products Company; an ASSA ABLOY Group company.
 - f. Stanley Commercial Hardware; a division of Stanley Security Solutions.

2.4 CONTINUOUS HINGES

- A. Continuous Hinges: BHMA A156.26; minimum **0.120-inch- (3.0-mm-)** thick, hinge leaves with minimum overall width of **4 inches (102 mm)**; fabricated to full height of door and frame and to template screw locations; with components finished after milling and drilling are complete.
- B. Continuous, Gear-Type Hinges: Extruded-aluminum, pinless, geared hinge leaves joined by a continuous extruded-aluminum channel cap; with concealed, self-lubricating thrust bearings.
 1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:
 - a. Allegion plc.
 - b. Bommer Industries, Inc.
 - c. Hager Companies.
 - d. McKinney Products Company; an ASSA ABLOY Group company.
 - e. Pemko Manufacturing Co.
 - f. Stanley Commercial Hardware; a division of Stanley Security Solutions.
 - g. Zero International, Inc.

2.5 MECHANICAL LOCKS AND LATCHES

- A. Lock Functions: As indicated in door hardware schedule.
- B. 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 (13-mm)** latchbolt throw.
 2. Mortise Locks: Minimum **3/4-inch (19-mm)** latchbolt throw.
 3. Deadbolts: Minimum **1.25-inch (32-mm)** bolt throw.
- C. Lock Backset: **2-3/4 inches (70 mm)** unless otherwise indicated.
- D. Lock Trim:
 1. Description: Best 14L.
 2. Dummy Trim: Match lever lock trim and escutcheons.

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- E. 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. Aluminum-Frame Strike Box: Manufacturer's special strike box fabricated for aluminum framing.
- F. Mortise Locks: BHMA A156.13; Operational Grade 1, Security Grade 2; stamped steel case with steel or brass parts; Series 1000.

- 1. [Best](#) 40H series

2.6 AUXILIARY LOCKS

- A. Bored Auxiliary Locks: BHMA A156.36: Grade 1; with strike that suits frame.

- 1. [Best](#) 8T series

2.7 ELECTROMAGNETIC LOCKS

- A. Electromagnetic Locks: BHMA A156.23; electrically powered; with electromagnet attached to frame and armature plate attached to door; full-exterior or full-interior type, as required by application indicated.

- 1. [Manufacturers](#): Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:

- a. [Allegion plc.](#)
 - b. [Door Controls International, Inc.](#)
 - c. [DORMA USA, Inc.](#)
 - d. [Dortronics Systems, Inc.](#)
 - e. [Hager Companies.](#)
 - f. [Securitron Magnalock Corporation; an ASSA ABLOY Group company.](#)
 - g. [Security Door Controls.](#)

2.8 EXIT DEVICES AND AUXILIARY ITEMS

- A. Exit Devices and Auxiliary Items: BHMA A156.3.

- 1. [Manufacturers](#): Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

- a. [Allegion plc.](#)
 - b. [Corbin Russwin, Inc.; an ASSA ABLOY Group company.](#)

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2.9 LOCK CYLINDERS

- A. Lock Cylinders: Tumbler type, constructed from brass or bronze, stainless steel, or nickel silver.
 - 1. Best Access Systems: Cylinders compatible with Owner's Best master key system.
- B. Standard Lock Cylinders: BHMA A156.5; Grade 1 permanent cores; face finished to match lockset.
 - 1. Core Type: Interchangeable.

2.10 KEYING

- A. Keying System: Factory registered, complying with guidelines in BHMA A156.28, appendix. Provide one extra key blank for each lock. Incorporate decisions made in keying conference.
 - 1. Existing System:
 - a. Master key or grand master key locks to Owner's existing system.
- B. Keys: Nickel silver.
 - 1. Stamping: Permanently inscribe each key with a visual key control number and include the following notation:
 - a. Notation: Information to be furnished by Owner.

2.11 OPERATING TRIM

- A. Operating Trim: BHMA A156.6; stainless steel unless otherwise indicated.
 - 1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:
 - a. Allegion plc.
 - b. Burns Manufacturing Incorporated.
 - c. Hager Companies.
 - d. Hiawatha, Inc; a division of the Activar Construction Products Group.
 - e. Rockwood Manufacturing Company; an ASSA ABLOY Group company.
 - f. Trimco.

2.12 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

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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, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:
 - a. [Allegion plc.](#)
 - b. [Corbin Russwin, Inc.; an ASSA ABLOY Group company.](#)
 - c. [DORMA USA, Inc.](#)
 - d. [SARGENT Manufacturing Company; ASSA ABLOY.](#)
 - e. [Yale Security Inc; an ASSA ABLOY Group company.](#)

2.13 MECHANICAL STOPS AND HOLDERS

A. Wall- and Floor-Mounted Stops: BHMA A156.16.

1. **Manufacturers:** Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:
 - a. [Allegion plc.](#)
 - b. [Baldwin Hardware Corporation.](#)
 - c. [Burns Manufacturing Incorporated.](#)
 - d. [Hager Companies.](#)
 - e. [Hiawatha, Inc; a division of the Activar Construction Products Group.](#)
 - f. [Rockwood Manufacturing Company; an ASSA ABLOY Group company.](#)
 - g. [Trimco.](#)

2.14 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. [Reese Enterprises, Inc.](#)
 - d. [Zero International, Inc.](#)

B. Maximum Air Leakage: When tested according to ASTM E 283 with tested pressure differential of **0.3-inch wg (75 Pa)**, as follows:

1. Gasketing on Single Doors: **0.3 cfm/sq. ft. (3 cu. m per minute/sq. m)** of door opening.
2. Gasketing on Double Doors: **0.50 cfm per foot (0.000774 cu. m/s per m)** of door opening.

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2.15 THRESHOLDS

- A. Thresholds: BHMA A156.21; fabricated to full width of opening indicated.
 - 1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:
 - a. Hager Companies.
 - b. Pemko Manufacturing Co.
 - c. Reese Enterprises, Inc.
 - d. Sealeze.
 - e. Zero International, Inc.

2.16 FINISHES

- A. Provide finishes complying with BHMA A156.18 as indicated in door hardware schedule.

PART 3 - EXECUTION

3.1 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. Wood Doors: DHI's "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. Do not install surface-mounted items until finishes have been completed on substrates involved.
- 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 (750 mm)** 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 as directed by Owner.
- E. Key Control Cabinet: Tag keys and place them on markers and hooks in key control system cabinet, as determined by final keying schedule.

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- F. Boxed Power Supplies: Locate power supplies as indicated or, if not indicated, above accessible ceilings. Verify location with Architect.
 - 1. Configuration: Provide least number of power supplies required to adequately serve doors with electrified door hardware.
- G. Thresholds: Set thresholds for exterior doors and other doors indicated in full bed of sealant complying with requirements specified in Section 079200 "Joint Sealants."
- H. Stops: Provide wall stops for every door unless wall or other type stops are indicated in door hardware schedule, or as directed by the architect. Provide fire-retardant-treated wood blocking for each wall stop. . Do not mount floor stops where they will impede traffic.
- I. 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.
- J. Meeting Stile Gasketing: Fasten to meeting stiles, forming seal when doors are closed.
- K. Door Bottoms: Apply to bottom of door, forming seal with threshold when door is closed.
- L. Hold-Opens: Provide fire-retardant-treated wood blocking behind all door hold-opens.

3.2 ADJUSTING

- A. 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.

3.3 DOOR HARDWARE SCHEDULE

Provide hardware according to the following schedule.

Saint Michaels High School

- 101 1 continuous geared hinge with power transfer
- Threshold, sweep, weatherstrip
- 1 exit device with electric bolt retraction, lever exterior trim
- 1 closer
- 1 wall stop
- 1 card reader
- Existing videophone to remain at present location

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- 102 3 ball-bearing hinges
- 1 storage function lever lockset
- 1 electric strike
- 1 closer
- 1 card reader
- 1 videophone

Easton Middle School

- 101A/101B ea 6 ball bearing hinges
- 2 exit devices, lever exterior trim
- 2 closers
- 102 3 ball-bearing hinges
- 1 storage function lever lockset
- 1 electric strike
- 1 closer
- 1 card reader

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Chapel District ES

- 101 3 ball-bearing hinges
- 1 storage function lever lockset
- 1 electric strike
- 1 closer
- 1 card reader
- 1 videophone

Tilghman ES

- 102 3 ball-bearing hinges
- 1 storage function lever lockset
- 1 electric strike
- 1 closer
- 1 card reader
- 1 videophone

END OF SECTION 087100R2