



DESIGN AND CONSTRUCTION GROUP
THE GOVERNOR NELSON A. ROCKEFELLER
EMPIRE STATE PLAZA
ALBANY, NY 12242

ADDENDUM NO. 1 TO PROJECT NO. Q1777

**CONSTRUCTION WORK
REPLACE EPDM ROOF
STATE ARMORY
174 SOUTH STREET
AUBURN, NY**

January 17, 2019

NOTE: This Addendum forms a part of the Contract Documents. Insert it in the Project Manual. Acknowledge receipt of this Addendum in the space provided on the Bid Form.
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**C CONTRACT:
SPECIFICATIONS**

- 1. SECTION 087100 – FINISH HARDWARE:**
 - a. ADD the enclosed Section 087100 to the project manual.
- 2. SECTION 011000 - SUMMARY OF THE WORK:**
 - a. ADD “Lead Abatement Project No. 45734” to Part I , Section 1.02, Sub-Section A.
- 3. SECTION 075323 – FULLY ADHERED EPDM MEMBRANE:**
 - a. ADD Paragraph 2.04 B:
 - “B. High Density Coverboard: ½ inch thick high density polyisocyanurate coverboard; ASTM C1289, Type II, Class 4, Grade 1 (109 psi maximum).
 1. Acceptable Product: SecureShield HD Plus Polyiso Cover Board by Carlisle Syntec Systems, or approved equivalent.
 2. Adhesively Attached Coverboard: Maximum board size 4 feet x 4 feet.”

**C CONTRACT:
DRAWINGS**

- 1. DRAWING G-101 – CODE DATA, WIND UPLIFT DESIGN CRITERIA, AND GENERAL NOTES:**
 - a. STRUCTURAL DESIGN NOTES: ADD the following to Note #4:

“LEAD ABATEMENT – OGS PROJECT 45734”
- 2. DRAWING A-101 – ROOF PLAN AND GENERAL NOTES:**
 - a. GENERAL MEMBRANE ROOF NOTES: REPLACE Note 13, Sub-Section A, to read as follows:

“ROOF DRAINS ARE TO BE REPLACED. SEE ROOF PLAN FOR LOCATIONS OR DRAINS TO EITHER BE REPLACED IN THE SAME LOCATION, OR PROVIDED IN NEW LOCATION.”

- b. GENERAL MEMBRANE ROOF NOTES: ADD the following to Note #16:

“B. ALL MASONRY TO BE STORED IN A DRY LOCATION UNTIL INSTALLED”

- c. DETAIL 4 – ROOF ASSEMBLY – TYPE B:
REPLACE Coverboard Note on Type B Roof Assembly only to read:
“½ inch High Density Coverboard”

4. DRAWING A-101 – ROOF PLAN AND GENERAL NOTES:

- a. Detail 4/A-501: ADD the following note:

“SEE SPECIFICATION FOR DOOR HARDWARE”

5. DRAWING M-101 – MECHANICAL ROOF PLAN

REPLACE drawing in its entirety with the attached M-101 drawing, dated 15 Jan 2019.

END OF ADDENDUM

Eric T. Deyoe, P.E.
Director, Division of Design
Design & Construction

SECTION 087100
FINISH HARDWARE

PART 1 GENERAL

1.01 RELATED WORK IN OTHER SECTIONS

- A. Steel Doors and Frames: Section 081102.

1.02 REFERENCES

- A. NFPA 80 Fire Doors and Windows (2007).
- B. NFPA 101 Life Safety Code (2006).
- C. Building Code of New York State (2010).
- D. ICC/ANSI A117.1-2003 Accessible and Usable Buildings and Facilities.
- E. ANSI/BHMA Standard A156.1 Butts and Hinges (2006).
- F. ANSI/BHMA Standard A156.4 Door Controls – Closers (2008).
- G. ANSI/BHMA Standard A156.6 Architectural Door Trim (2005).
- H. ANSI/BHMA Standard A156.7 Template Hinge Dimensions (2009).
- I. ANSI/BHMA Standard A156.8 Door Controls – Overhead Stops and Holders (2005).
- J. ANSI/BHMA Standard A156.13 Mortise Locks and Latches Series 1000 (2005).
- K. ANSI/BHMA Standard A156.16 Auxiliary Hardware (2008).
- L. ANSI/BHMA Standard A156.18 Materials and Finishes (2006).
- M. ANSI/BHMA Standard A156.22 Door Gasketing Systems (2005).
- N. ANSI/BHMA Standard A156.26 Continuous Hinges (2006).
- O. DHI - Door and Hardware Institute.
- P. NAAM Standard HMMA 800-96- Hollow Metal Manufacturers Association.

- Q. NAAM Standard HMMA 831-97 Recommended Hardware Locations for Custom Hollow Metal Doors and Frames.
- R. 2010 Standards for State and Local Government Facilities: Title II.

1.03 DEFINITIONS

- A. Architectural Hardware Consultant (AHC): A Door and Hardware Institute certified expert in complex architectural openings requiring advanced knowledge of model building codes and safety standards, ADA requirements, access control knowledge and installation expertise.
- B. Architectural Hardware Distributor: A company that regularly purchases architectural hardware from manufacturers and specializes in the sale, service and support of that hardware to contractors and/or end users.
- C. Company Field Advisor(s): Hardware manufacturers' representatives who are certified in writing by manufacturer to be technically qualified in design, installation, and servicing of products.
- D. Installation Supervisor: Designated supervisor/installer, who has a minimum three years experience in finish hardware installation, and is qualified and responsible to ensure approved finish hardware is installed, adjusted, and operates properly.

1.04 SUBMITTALS

- A. Waiver of Submittals: The Waiver of Certain Submittal Requirements in Section 013300 does not apply to this Section.
- B. Re-Evaluation Fee: In accordance with the General Conditions 07213 Article 4.7.
- C. Submittal Package Cover Sheets: The Hardware Distributor shall provide a cover sheet, which identifies each package by:
 - 1. OGS project number.
 - 2. Project name.
 - 3. Facility name and location.
 - 4. Submittal Package name.
 - 5. Specification section name and number.
 - 6. Construction Contractor's company name, address, e-mail address, and telephone number.
 - 7. Finish Hardware Distributor's company name, address, e-mail address, and telephone number.
 - 8. Certified Architectural Hardware Consultant's name, company name, address, e-mail address, and telephone number.
 - 9. Submittal Date.
- D. Submittal Packages

1. Quality Control Package: Do not submit balance of packages until this package is approved.
 - a. Architectural Hardware Consultant Data:
 - 1) Provide name, business address, and telephone number of DHI certified Architectural Hardware Consultant.
 - 2) Submit photocopy of Door and Hardware Institute's certificate demonstrating individual is an Architectural Hardware Consultant.
 - b. Company Field Advisor Data:
 - 1) Provide name, business address, and telephone number of Company Field Advisor(s) for continuous hinges, door bolts, locksets, overhead stops, door closers, and gaskets.
 - 2) List services and products for which company field advisor(s) is/are certified by manufacturer. Provide written certifications.
 - c. Hardware Distributor's Qualification Data:
 - 1) Provide the Finish Hardware Distributor's company name, address, e-mail address, and telephone number.
 - 2) Provide the hardware distributor's company history, including number of years in the hardware distribution business, the number of AHC's employed, and the number of employees. Describe the distributor's major market.
 - 3) Include the names and contact information of physical plant managers for 3 facilities, similar to this project, for which the distributor has furnished architectural hardware within the past 2 years.
 - d. Supervisor's/Installer's Qualification Data:
 - 1) Name of Supervisor and each installer performing Work, and employer's name, business address and telephone number.
 - 2) Names and addresses, and contact information of physical plant managers for 3 facilities, similar to this project, on which each installer has worked on during past 2 years.
2. Finish Hardware Package:
 - a. Finish Hardware Schedule: Use vertical format and indicate finish hardware items, both mechanical and electrical in one document, required to complete Work of this section. Submit Hardware Schedule that includes complete hardware sets for each door and frame shown on Door Schedule.
 - 1) Preface schedule with following:
 - a) Certified Architectural Hardware Consultant's statement of preparation of/or certification of, Finish Hardware Schedule.
 - b) Index.
 - c) List of manufacturers.
 - d) List of finishes.
 - e) Explanation of abbreviations.
 - f) Keying instructions and key schedule.

- 2) Create hardware groups, each group consisting of similar doors and hardware. Do not combine labeled and non-labeled openings. Do not combine doors and frames with dissimilar door sizes and/or materials.
 - 3) For each opening include the following:
 - a) Door and frame materials and dimensions.
 - b) Fire rating.
 - c) Door number, location and handing.
 - d) Degree of opening required for closer and/or overhead stop.
 - e) Installation and detailing notes.
 - 4) Under each group heading, list hardware items in detail, required for ordering. For each hardware item include:
 - a) Type (Hinges).
 - b) Quantity (Hinges 3ea).
 - c) Manufacturers' name (Hinges 3ea Stanley).
 - d) Catalog number (Hinges 3ea Stanley FBB199).
 - e) Size (Hinges 3ea Stanley FBB199 4 ½ x 4 ½).
 - f) Options or accessories (Hinges HTFBB199 4 ½ x 4 ½ x 630).
 - g) Finish (Hinges HTFBB199 4 ½ x 4 ½ x 630).
 - h) Fasteners (Hinges HTFBB199 4 ½ x 4 ½ x 630 x torx with center security pin).
 - i) Indicate location of protection plates: Push side or pull side.
 - j) Installation Notes, as written in this section, for each hardware group.
 - 5) Use a separate hardware group in Hardware Schedule that lists attic stock hardware items, key cabinets, key control system, special tools required to install hardware, lubricants, and Operations and Maintenance Manuals.
- b. Product Data: Furnish six copies of manufacturers' catalog sheets, specifications, sizing charts, and installation instructions, for each item specified. Highlight information pertaining specifically to product (s) submitted.
 - c. Submit samples as requested.
3. Closeout Submittals Package: Submit as a complete package.
 - a. Operation and Maintenance Manuals: Furnish 2 hardcover three ring binders with the project name and number displayed on the front cover and spine. Include:
 - 1) List of Manufacturers.
 - 2) Approved Finish Hardware Schedule.
 - 3) Approved Manufacturers' Product Data Sheets.
 - 4) Manufacturer's operation, installation, maintenance, and repair instructions for each type of hardware furnished.
 - 5) Templates for kind of hardware furnished.
 - 6) Parts List for each type of finish hardware furnished.
 - 7) Manufacturers' dated written warranty for each type of finish hardware furnished.

- 8) Certifications: Written certification from Company Field Advisors that their products are installed according to manufacturers' printed installation instructions, are operating properly, and manufacturers' written warranty will be in effect upon physical completion of the Work.
- 9) Special Tools: List of special tools required to install hardware, and their purpose.
- b. Special Tools:
 - 1) At conclusion of finish hardware installation, turn over to Director's Representative 2 of each special tool required to install hardware together with a list of these tools and their purpose.

1.05 TEMPLATES

- A. After receipt of approved submittals, furnish templates to affected trades, to enable fabricators to make provision for finish hardware without delaying the Work of the Project.

1.06 DELIVERY AND STORAGE

- A. Coordinate delivery to avoid delay.
- B. Clearly label each item for identification and installation location as it corresponds to the approved Finish Hardware Schedule and subsequent information bulletins.
- C. Deliver hardware to the jobsite in the manufacturers' original packages complete with fasteners, parts, installation instructions, and templates required for proper installation.
- D. Inventory hardware at jobsite to identify shortages or backorders. Resolve delivery shortages and damaged items prior to installing hardware.
- E. Store finish hardware where directed by Director's Representative. Provide locked, dry storage for finish hardware.

1.07 QUALITY ASSURANCE

- A. Hardware Distributor's Qualification:
 - 1. Hardware Distributor who has been in the business of furnishing, and/ or installing finish hardware for a minimum of three years.
 - 2. Hardware Distributor shall have the DHI certified Architectural Hardware Consultant prepare or certify the Finish Hardware Submittal meets specification requirements, and the schedule is written accurately and in accordance with DHI recommendations, and requirements of this specification.
- B. Company Field Advisors: Employ advisor(s) for continuous hinges, door bolts, mortise locksets, surface overhead stops, door closers, and gaskets.

- C. Installation Supervisor: Employ a qualified Installation Supervisor who will be responsible to ensure approved finished hardware is installed, adjusted and operates properly.
- D. Installers: Employ experienced finish hardware installers who have been regularly employed by a Company installing finish hardware for a minimum of 5 years.
- E. Pre-submittal Conference: Before Finish Hardware Submittals are written for submission, the Director's Representative will call a teleconference to review Finish Hardware Submittal requirements including but not limited to format, cover sheet, headings, hardware sets, level of detail, installation notes, description of operation, keying, and product data sheets. The Contractor, the Finish Hardware Distributor, the Finish Hardware Detailer, and consulting hardware designer, and OGS Designers shall attend. The OGS Finish Hardware Reviewer shall conduct the conference.
- F. On Site Pre-installation Conference: Before finish hardware installation begins, the Director's Representative will call a conference at the site to review Finish Hardware Specifications, approved Finish Hardware Submittals, and to discuss requirements for the Work including:
 - 1. Hardware delivery and storage.
 - 2. Hardware labeling by door number.
 - 3. Hardware locations.
 - 4. Potential location conflicts.
 - 5. Hardware installation sequence and responsibility.
 - 6. Required accessories and fasteners.
 - 7. Continuous hinge installation.
 - 8. Surface overhead stops and closer template and adjustments.
 - 9. Special tools and maintenance items.
 - 10. Hardware Closeout requirements.
 - 11. Hardware Warranties.
- G. Pre-installation Conference Attendance: The Construction Contractor, Company Field Advisors, authorized Finish Hardware Installers, and the Finish Hardware Distributor's Architectural Hardware Consultant shall attend the conference. OGS's Finish Hardware Reviewer conducts the meeting. OGS designers and facility personnel may attend. The Company Field Advisors will present installation instruction and advice.
- H. Uniformity of Hardware and Single Source Responsibility: For each kind of hardware provide product(s) of a single manufacturer.
- I. Size Variations: Manufacturers' products may vary slightly from sizes specified except where minimum size or thickness is specified.

1.08 WARRANTY

- A. Manufacturer's Warranty: Ten year minimum warranty for door closers.

- B. Manufacturer's Warranty: Three year minimum for locksets.

1.09 MAINTENANCE

- A. Special Tools: At the conclusion of finish hardware installation, turn over to Owner's Representative 2 sets of each special tools required for proper installation and adjustment of hardware, together with a list of these tools and their purpose.
- B. Lubricants: Provide manufacturer's recommended lubricants for locksets and closers sufficient for 1 year of maintenance. Turn over to Director's Representative.

PART 2 PRODUCTS

2.01 ACCESSORIES

- A. Provide brackets, plates, arms, spacers, and special templates to mount door closers in combination with overhead stops and coordinators, on narrow top rails and for special ceiling and jamb conditions.
- B. Provide curved lip strikes, with wrought boxes, specific to individual lock functions. Universal strikes that fit a variety of lock functions are not acceptable.

2.02 FASTENINGS

- A. Provide fasteners that harmonize with finish hardware material and finish.
- B. Provide machine screws for hardware secured to metal; and machine screws and metal expansion shields for attachment to masonry substrates. Self-tapping or self-drilling screws are not acceptable.
- C. Provide undercut shallow head torx center pin security fasteners where necessary for proper seating.
- D. Attach door closers and overhead stops with sex bolts.

2.03 MATERIALS AND FINISHES

- A. General: Requirements for design, grade, function, finish, size, and other distinctive qualities of each type of finish hardware are indicated in this section and in the Hardware Groups.
- B. Locks, Latches and Bolts
 - 1. Comply with UL requirements for throw of bolts and latch bolts on rated fire openings.

2. Provide 3/4" minimum throw on other latch bolts.
3. Provide 1" minimum throw deadbolts.

2.04 FINISH HARDWARE

- A. Group 5:
 1. Hinges: 1.5 pair – Stanley FBB199HT 5 x 4.5 x 630 x torx.
 2. Mortise Lockset: 1ea - Corbin Russwin ML2022 x YWM x curved lip strike x wrought box x torx with center security pin x 630.
 3. Mortise Lock Cylinder: 2ea - Compatible with specified lock above x 626. Match facility's standard core and keying system.
 4. Full perimeter weather seals and sweeps, neoprene, mechanically fastened (stainless steel).
 5. Threshold: 1ea – Zero Threshold 564-A.

2.05 KEYING

- A. Continue existing BEST core 7 Pin key system established for Facility.
 1. Stamp key symbol on one side of key, and "Do Not Duplicate" on other side of key.
 3. Furnish one copy of factory bitting list to facility.
 4. Factory key cylinders.
 5. Furnish 3 cut keys for each master key.
 6. Furnish 7 cut keys for each keyed lockset.
 7. These cut key quantities are for bidding purposes only. Actual number of cut keys required will be determined at keying meeting.
 8. When lockset and cylinder are by different manufacturers, identify and furnish correct cylinder cam to operate lockset.
 9. Provide compression rings and spacers to achieve proper spacing relationship between cylinder and face of door.
- B. Keying Conference
 1. Immediately following contract award, Director's Representative will schedule a keying conference to develop a written key schedule that reflects Facility's specific keying requirements. Facility Representative(s), Hardware Distributor, Consulting Hardware Designer, and OGS's Hardware Designer will attend.
 2. Incorporate this schedule in Finish Hardware Submittals for approval.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Examine doors and frames and related items for conditions such as, but not limited to, incorrect handing, hardware preparation, misaligned lock and strike preparations, that would prevent proper application of finish hardware. Do not proceed until defects are corrected.

- B. Report conditions or hardware applications that are incorrect to the Director's Representative.

3.02 INSTALLATION

- A. Do not proceed with installation of finish hardware prior to attending referenced pre-installation conference.
- B. Installation Sequence: Use proper installation sequence, i.e., install coordinators, and overhead stops and holders before surface mounted door closers.
- C. Install hardware in accordance with manufacturer's printed installation instructions, and adjust for smooth operation, free of sticking, binding or rattling.
 - 1. Template surface overhead stops and holders for proper operation
 - 2. Template and adjust closers for proper operation.
- D. Use proper tools and methods to prevent scratches, burrs or other defacement.
- E. Threshold Installation:
 - 1. Drill holes 3 inches from each end of threshold and intermediate holes 12 inches maximum o.c. for required fasteners. Prepare holes for countersunk fasteners.
 - 2. Level and align thresholds with frames and doors. Where required, use non-corrosive shims.
 - 3. Exterior Doors: Set thresholds in a solid bed of Type 3 sealant.
 - 4. Secure thresholds to substrate with countersunk fasteners.
- F. Door Bottom Installation:
 - 1. Mount sweep type door bottom protection/drip caps on exterior side of doors.
 - 2. Before mounting apply Type 2 sealant on the back side of bearing surface. Secure to door with required fasteners.
- G. Gasket Installation:
 - 1. Install continuous stripping at each opening without unnecessary interruptions.
 - 2. Where fasteners are required, secure fasteners for stripping and seals so they will not work loose during door operation. Exposed heads of fasteners shall be free of sharp edges.
 - 3. Coordinate meeting stile gasket with hardware before installation.
 - 4. Install units plumb and level at the optimum location to maintain a permanent effective seal.
- H. After installation, cover and protect hardware to prevent damage during remaining construction. Remove protection upon completion of construction.

3.03 FIELD QUALITY CONTROL

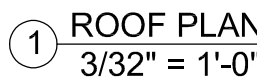
- A. Post Installation Review: After hardware is adjusted for proper operation, Director's Representative will hold a Post-Installation Review with the

Contractor, Hardware Designer, Company Field Advisors, Hardware Distributor and Hardware Installers.

1. Physically inspect to verify proper application, installation, adjustment and operation of finish hardware, and in particular that:
 - a) Latches engage freely without binding. Filing of strike plates to relieve latch bind is not acceptable.
 - b) Closers are adjusted for proper spring power; sweep speed, latching speed; and hydraulic back check.
 - c) Locations and proper attachment of installed protective hardware are as specified.
 - d) There is no field modification of fasteners.
 - e) Damaged fasteners are replaced.
 2. Defective hardware is repaired or replaced.
 3. Hardware is to be left clean and free from disfigurement.
- B. Turn referenced Operations and Maintenance Manuals over to Facility through Director's Representative.

END OF SECTION

CEH



SHEET 14 OF 14