



Office of General Services

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

ADDENDUM NO. 5 TO PROJECT NO. 47479

CONSTRUCTION AND ELECTRICAL WORK RENOVATE LOADING DOCK & BUILDING ENTRANCE E ROOSEVELT STATE OFFICE BUILDING 4 BURNETT BLVD POUGHKEEPSIE, NEW YORK

April 21, 2025

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.

CONSTRUCTION WORK SPECIFICATIONS

1. SECTION 087100 FINISH HARDWARE: Discard the Section bound in the Project Manual and substitute with the accompanying Section (pages 087100 – 1 thru 087100 – 14) noted “Addendum 05 CE – 4/21/2025”.

ELECTRICAL WORK SPECIFICATIONS

2. SECTION 283105 MODIFICATIONS TO FIRE ALARM SYSTEM: Discard the Section bound in the Project Manual and substitute with the accompanying Section (pages 283105 – 1 thru 283105 – 7) noted “Addendum 05 CE – 4/21/2025”.

ELECTRICAL WORK DRAWINGS

3. Revised Drawings:
 - a. Drawing Nos. E-101, E-102 and E-701, noted “ADDENDUM 05 04/18/2025”, accompany this Addenda and supersede the same numbered originally issued drawings.

END OF ADDENDUM

Brady M. Sherlock, P.E.
Director, Division of Design
Design & Construction

SECTION 087100
FINISH HARDWARE

PART 1 GENERAL

1.01 RELATED WORK IN OTHER SECTIONS

- A. Section 081102: Steel Doors and Frames.
- B. Section 081116: Aluminum Doors And Frames

1.02 REFERENCES

- A. NFPA 80 Fire Doors and Windows (2016).
- C. Building Code of New York State (2020).
- D. ICC/ANSI A117.1-2009 Accessible and Usable Buildings and Facilities.
- E. ANSI/BHMA Standard A156.4 Door Controls – Closers (2008).
- F. ANSI/BHMA Standard A156.6 Architectural Door Trim (2005).
- G. ANSI/BHMA Standard A156.7 Template Hinge Dimensions (2009).
- H. ANSI/BHMA Standard A156.16 Auxiliary Hardware (2008).
- I. ANSI/BHMA Standard A156.18 Materials and Finishes (2006).
- J. ANSI/BHMA Standard A156.22 Door Gasketing Systems (2005).
- K. ANSI/BHMA Standard A156.26 Continuous Hinges (2006).
- L. DHI - Door and Hardware Institute.
- M. NAAM Standard HMMA 800-96- Hollow Metal Manufacturers Association.
- N. NAAM Standard HMMA 831-97 Recommended Hardware Locations for Custom Hollow Metal Doors and Frames.
- O. 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 Best - formerly Stanley).
 - d) Catalog number (Hinges 3ea Best - formerly Stanley FBB199).
 - e) Size (Hinges 3ea Best - formerly Stanley FBB199 4 ½ x 4 ½).
 - f) Options or accessories (Hinges HTFBB199 4 ½ x 4 ½).
 - 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. Pre-Benchmark-Construction Meeting: Prior to the construction of the mock-up, a meeting will be held at the site to review the requirements, and discuss the intent of the mock-up. The meeting will be scheduled by the Director's Representative and conducted by the Hardware Designer. The meeting shall be attended by the Director's Representative, the Hardware Designer, the Contractor's onsite foreman, the person supervising this phase of the Work (if different), and the person (people) who will be performing the work.
- I. Construction of Benchmark: Before installing portions of the Work requiring benchmarks, install benchmarks for each form of construction required to comply with the following requirements, using materials indicated for the completed Work.
1. Build hardware benchmark in door and frame assembly, specified in section 081102, in locations as directed, and include continuous hinge, lockset, closer, surface overhead stop and gaskets.
 2. Notify the Director's Representative in advance of dates and times when benchmark will be constructed.
 3. Install benchmark with supervisor oversight and workers who will be employed during the construction of the Work.

4. Construct benchmarks using the exact materials, products, methods, and workmanship that were approved for the Work.
 5. Obtain Director's Representative's approval of benchmarks before starting work, fabrication, or construction.
 6. Maintain benchmarks during construction in an undisturbed condition as a standard for judging the completed Work.
 7. Failure to maintain this standard of quality will be cause for rejection of the Work.
 8. Benchmark may be used in the Work unless otherwise indicated.
- J. Uniformity of Hardware and Single Source Responsibility: For each kind of hardware provide product(s) of a single manufacturer.
- K. 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: Five year Mechanical and one year Electrical minimum for Exit Devices.

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 torx center pin security fasteners for exposed hardware, including full mortise hinges.
- C. 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.
- D. Provide undercut shallow head torx center pin security fasteners where necessary for proper seating.
- E. 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. Continuous Hinges
 - 1. Full height barrel-type manufactured from 14-gauge 304 stainless steel.
 - 2. .25" diameter stainless steel pins.
 - 3. Provide hinges without covers.
- C. Closers and Door Control Devices
 - 1. Closer bodies: Provide closer bodies with the same hole template pattern regardless of type or application.
 - 2. Closer arms: Non-handed forged steel.
 - 3. Closer size: Provide sized closers.
 - 4. Provide all-weather fluid to eliminate seasonal adjustment of closer speed.
 - 5. Powder coat closer body, arm, and adapter plate or pre-treat closer body, arm, and adapter plate with rust-inhibiting coating before painted finish is applied.

2.04 FINISH HARDWARE

- A. General Notes
 - 1. Include Power Supplies to be mounted above suspended ATC on Corridor side.
 - 2. Door Contacts to be prepped into doors and frames by door and frame supplier.
 - 3. Door Contacts to be provided by Owner's Security Vendor.
 - 4. Owner's Security Vendor to provide product number/template of Door Contact to door and frame supplier for proper preparation.
 - 5. Cards Readers to be provided by Owner's Security Vendor.
 - 6. Owner to provide product data for Owner provided items.
- B. Manufacturer Abbreviations

1.	BES	Best
2.	PHI	Precision
3.	PEM	Pemko
4.	DOR	Dormakaba

Set 01 Exterior Aluminum Pair: Key Pad - Exit Devices

2 Ea.	Continuous Hinges	661HD x EPT Prep	AL	BES
2 Ea.	Power Transfer	EPT-12C		PHI
1 Ea.	Exit Device	C TS 2601 (Exit Only Leaf)	US32D	PHI
1 Ea.	Exit Device	C MLR TS 2603 x 2903A (Keyed Access Leaf)	US32D	PHI
1 Ea.	Cylinder/ Core to Suit Device	Per Owner's Requirements	626	BES
2 Ea.	Door Closer	HD8016 DST (Heavy duty parallel arm with hold open and stop) TX80 (Exit Only Leaf)	689	BES
1 Set.	Gasketing	(1) Head x (2) Jambs – By Door/Frame Manufacturer		PEM
1 Ea.	Astragal Set	By Door/Frame Manufacturer		PEM
2 Ea.	Sweeps	345CPK		PEM
1 Ea.	Overhead Rain Drip	346C		PEM
1 Ea.	Threshold	Per Detail		PEM
1 Ea.	Power Supply	Altronix – eFlow102N Series – to be shared by all hardware sets - By Owner's Security Vendor	---	---

1 Ea. Key Pad By Owner's Security Vendor --- ---

2 Ea.	Door Position Switches	By Owner's Security Vendor	---	---
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Notes: Door position switch to be tied into security system to monitor status of door. Coordinate wiring with related trades. Provide Door/Frame Harnesses

Operation: Doors normally closed, latched, and locked. Presentation of valid credential to Key Pad signals exit device latch bolts to retract, allowing entry. Free egress at all times. (TS) Request to Exit switch in exit device touchbar to indicate valid egress. Manual Key override.

Set 02 Exterior Steel Pair: Key Pad - Exit Devices – Automatic Operator

2 Ea.	Continuous Hinges	651HD x EPT Prep	630	BES
2 Ea.	Power Transfer	EPT-12C		PHI
1 Ea.	Exit Device	C TS 2801 (Exit Only Leaf)	US32D	PHI
1 Ea.	Exit Device	C MLR TS 2803 x 4903A (Keyed Access Leaf)	US32D	PHI
1 Ea.	Cylinder/ Core to Suit Device	Per Owner's Requirements	626	BES
1 Ea.	Door Closer	HD8016 DST (Heavy duty parallel arm with hold open and stop) TX80 (Exit Only Leaf)	689	BES
1 Ea.	Low Energy Automatic Operator	ED250 (Keyed Access Leaf)	689	DOR
2 Ea.	Push Plate Actuators	DX3339-040 "PUSH TO OPEN" Text & ISA ICON	630	DOR
1 Set.	Gasketing	2891APK (1) Head x 290APK (2) Jambs – Install before exit device strike and door closer shoe		PEM
1 Ea.	Astragal Set	29310CPK		PEM
2 Ea.	Sweeps	345CPK		PEM
1 Ea.	Overhead Rain Drip	346C		PEM
1 Ea.	Threshold	Per Detail		PEM
1 Ea.	Power Supply	Altronix – eFlow102N Series – to be shared by all hardware sets - By Owner's Security Vendor	---	---
1 Ea.	Key Pad	By Owner's Security Vendor	---	---
1 Ea.	Intercom	Relocated Existing - By Owner's Security Vendor	---	---
2 Ea.	Door Position Switches	By Owner's Security Vendor	---	---

Notes: Door position switch to be tied into security system to monitor status of door. Coordinate wiring with related trades. Provide Door/Frame Harnesses

Operation: Doors normally closed, latched, and locked. Presentation of valid credential to Key Pad signals exit device latch bolts to retract, and then cycle Automatic Operators, allowing entry. Free egress at all times. (TS) Request to Exit switch in exit device touchbar to indicate valid egress. Manual Key override. Tied one leg of power to outside actuator into Access Control System.

Set 03 Interior Vestibule Steel Pair: Card Reader - Exit Devices – Automatic Operator

2 Ea.	Continuous Hinges	651HD x EPT Prep	630	BES
2 Ea.	Power Transfer	EPT-12C		PHI
1 Ea.	Exit Device	C TS FL 2801 (Exit Only Leaf)	US32D	PHI
1 Ea.	Exit Device	C MLR TS FL 2803 x 4903A (Keyed Access Leaf)	US32D	PHI
1 Ea.	Cylinder/ Core to Suit Device	Per Owner's Requirements	626	BES
1 Ea.	Door Closer	HD8016 DST (Heavy duty parallel arm with hold open and stop) TX80 (Exit Only Leaf)	689	BES
1 Ea.	Low Energy Automatic Operator	ED250 (Keyed Access Leaf)	689	DOR
2 Ea.	Push Plate Actuators	DX3339-040 "PUSH TO OPEN" Text & ISA ICON	630	DOR
1 Set.	Gasketing	2891APK (1) Head x 290APK (2) Jambs – Install before exit device strike and door closer shoe		PEM
1 Ea.	Astragal Set	29310CPK		PEM
2 Ea.	Sweeps	307CPK		PEM
1 Ea.	Threshold	Per Detail		PEM
1 Ea.	Power Supply	Altronix – eFlow102N Series – to be shared by all hardware sets - By Owner's Security Vendor	---	---
1 Ea.	Card Reader	By Owner's Security Vendor	---	---
2 Ea.	Door Position Switches	By Owner's Security Vendor	---	---

Notes: Door position switch to be tied into security system to monitor status of door. Coordinate wiring with related trades. Provide Door/Frame Harnesses

Operation: Doors normally closed, latched, and locked. Presentation of valid credential to Card Reader signals exit device latch bolts to retract, and then cycle Automatic Operators, allowing entry. Free egress at all times.
(TS) Request to Exit switch in exit device touchbar to indicate valid egress. Manual Key override. Tied one leg of power to outside actuator into Access Control System.

Set 04: Furnish a quantity of 1 (one) as follows:

1. 50 Key Blanks to match existing key system.
2. 1 set Special Tools: See paragraph 1.09 A.
3. Lubricants: See paragraph 1.09 B.
4. 2ea Maintenance and Operations Manuals.

2.05 KEYING

- A. Continue existing Best 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 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 LOCATIONS

- A. Locate hardware as follows:
1. Door Closers: Template for maximum door swing allowed by wall placement and jamb conditions.

3.04 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

LMC-M

SECTION 283105**MODIFICATIONS TO FIRE ALARM SYSTEM****PART 1 GENERAL**

1.01 FIRE ALARM WORK IS NOT INCLUDED IN ELECTRICAL CONTRACT. SPECIFICATION IS INCLUDED FOR REFERENCE ONLY. ALL FIRE ALARM WORK INCLUDING BUT NOT LIMITED TO DEVICES, WIRING, RACEWAY SYSTEMS, REMOVALS, PROGRAMMING, TESTING, AND SUBMITTALS WILL BE PROVIDED BY OWNER'S FIRE ALARM VENDOR JOHNSON CONTROLS FIRE PROTECTION.

1.02 REFERENCES

- A. Underwriters Laboratories Inc.
- B. National Fire Protection Association Standard 72.

1.03 DEFINITIONS

- A. Initiating Device Circuit: A circuit to which automatic or manual initiating devices are connected where the signal received does not identify the individual device operated. Example:
 - 1. Circuits from PPSSs and ICUs to non-addressable signal initiating devices.
- B. Notification Appliance Circuit: A circuit or path directly connected to a notification appliance. Example:
 - 1. Circuits from PPSSs and ICUs to notification appliances.
- C. Signaling Line Circuit: A circuit or path between any combination of circuit interfaces, control units, or transmitters over which multiple system input signals or output signals, or both are carried. Examples:
 - 1. Circuits from PSS to building PPSSs and ICUs.
 - 2. Circuits from PPSSs and ICUs to addressable devices.
- D. Operating Mode:
 - 1. Private Mode:
 - a. Audible and visible signaling only to those persons directly concerned with the implementation and direction of emergency action initiation and procedure in the area protected by the fire alarm system, and:
 - b. Audible and visible signaling only to those persons within special designated areas where private mode operation is specified to be applicable.
 - 2. Public Mode: Audible and visible signaling to occupants or inhabitants of the area protected by the fire alarm system.

1.04 DESCRIPTION OF EXISTING SYSTEM

- A. The existing Simplex Time Recorder Co. 4100U System operates as an integrated multiplexed protected premises and proprietary fire alarm, monitoring and control system with voice evacuation. Changes in the status of monitored points are detected by the micro-processor based proprietary supervising station (PSS) and protected premises subsidiary stations (PPSSs) located throughout the facility.
- B. The PSS activates immediately and performs its alarm functions upon receipt of system alarm condition through actuation of automatic or manual initiating devices.
- C. Life Safety Control-By-Event Functions: The PSS, PPSSs, and FACP immediately performs life safety control-by-event functions upon system alarm condition.
- D. An authorized person manually resets system at conclusion of alarm condition.

1.05 MODIFICATIONS TO EXISTING SYSTEM

- A. Provide visual notification appliances and manual pullstations in renovated spaces. Connect to existing Simplex 4100U system.
- B. Calculate load on existing visual appliance circuits. Do not load visual alarm appliance circuit outputs to more than 70 percent of the FACP's or remote auxiliary power supply's power limited rating.
- C. Provide additional components, remote auxiliary power supplies, batteries, circuitry, programming and testing as necessary to add the new visual notification appliances.
- D. All components shall be of same manufacturer as the existing components, and compatible with existing fire alarm system.
- E. Provide re-programing of the existing system to incorporate the additional components.

1.06 DESCRIPTION OF COMPLETED SYSTEM

- A. The completed system shall operate in same manner as existing.

1.07 SUBMITTALS

- A. Waiver of Submittals: The "Waiver of Certain Submittal Requirements" in Section 013300 does not apply to this Section.
- B. Preliminary Submittal: Existing system test report.

- C. Submittals Package: Submit the shop drawings, product data, and quality control submittals specified below at the same time as a package.
1. Company Field Advisor Letter: With the submittals package include a letter from the Company Field Advisor stating that he/she has reviewed the Submittals Package for accuracy and completeness, and approves all materials and installation methods included in the Submittals Package.
- D. Shop Drawings:
1. Composite wiring and/or schematic diagrams of the modifications as proposed to be installed (standard diagrams will not be acceptable).
 2. Scaled floor plans showing location of all devices and major components associated with the system.
- E. Product Data:
1. Catalog sheets, specifications and installation instructions.
 2. Bill of materials.
 3. Detailed description of completed system operation.
 4. Include for each system component which utilizes batteries the battery ampere-hour capacity recommended for each component by the Company producing the system, for the specified duration.
 5. Statement from the Company producing the system, for each size and type of single conductor and multiconductor cable proposed for use, indicating that the electrical characteristics meet the requirements of the Company.
- F. Quality Control Submittals:
1. Copy of license required by New York State General Business Law Article 6-D for installing Fire Alarm Systems.
 - a. Also include copy of identification card issued by the Licensee for each person who will be performing the Work.
 2. Company Field Advisor Data: Include:
 - a. Name, business address and telephone number of Company Field Advisor secured for the required services.
 - b. Certified statement from the Company listing the qualifications of the Company Field Advisor.
 - c. Copy of NICET Letter of Approval indicating Level III or higher Fire Alarm Systems certification.
 - d. Services and each product for which authorization is given by the Company, listed specifically for this project.
- G. Contract Closeout Submittals:
1. System acceptance test report.
 2. Certificates:
 - a. Affidavit, signed by the Company Field Advisor and notarized, certifying that the system meets the contract requirements and is operating properly.
 - b. NFPA Record of Completion (NFPA 72 Figure 1-6.2.1) for the modifications.
 3. Operation and Maintenance Data:

- a. Deliver 2 copies, covering the installed products, to the Director's Representative. Include:
 - 1) Operation and maintenance data for each product.
 - 2) Complete point to point wiring diagrams of the modifications as installed. Identify all conductors and show all terminations and splices. (Identification shall correspond to markers installed on each conductor.)

1.08 QUALITY ASSURANCE

- A. UL Listing: The system products for the modifications shall be listed in the UL Fire Protection Equipment Directory under product category "Control Units System (UOJZ)".
- B. Company Field Advisor: Company Field Advisor shall be National Institute for Certification in Engineering Technologies (NICET) certified as Level III or higher Fire Alarm Protection/Fire Alarm Systems Engineering Technician.
 - 1. Secure the services of a Company Field Advisor from the Company of the existing system for a minimum of 6 working hours at the contract site for the following:
 - a. Render advice and witness test of existing system.
 - b. Render advice regarding modifications to the system.
 - c. Assist in reprogramming the system.
 - d. Witness final system test and then certify with an affidavit that the modifications were installed in accordance with the contract documents and are operating properly.

1.09 MAINTENANCE

- A. Spare Parts:
 - 1. None

PART 2 PRODUCTS

2.01 INITIATING DEVICES

- A. General:
 - 1. Fire detection devices that receive their power from the initiating device circuit or a signaling line circuit of a fire alarm control unit shall be listed for use with the control unit.
 - 2. Where individually identifiable (addressable) devices are required, but not available from the Company producing the system, `either:
 - a. Use non-addressable devices and individually wire each device to the FACP's as separate monitor points, making each non-addressable device individually identifiable, or:

- b. Employ remote addressable network modules to make each non-addressable device individually addressable.
- B. Manual Fire Alarm Boxes:
- 1. Addressable:
 - a. Single Action Pull Type: Simplex, model number to match existing system.

2.02 NOTIFICATION APPLIANCES

- A. General:
- 1. Visual signal devices shall be UL listed:
 - a. For private mode applications, UL 1638 “Fire Protective Visual Signaling Appliance”.
 - b. For public mode applications, UL 1971 “Signaling Devices for the Hearing Impaired”.
 - c. For wall mounting or ceiling mounting to suit application.
- B. Visual Appliances:
- 1. Simplex, model compatible with existing fire alarm system, with:
 - a. Xenon flasher, candela rating as shown on plans.
 - b. Clear lens having FIRE imprinted thereon in red letters, or clear lens with red base having FIRE imprinted thereon in white letters.
 - c. Flush mounted enclosure as indicated on the drawings.

2.03 POWER-LIMITED INSULATED CONDUCTORS

- A. All electrical characteristics shall meet the requirements of the Company producing the system (conductor to conductor capacitance, dc resistance, velocity of propagation etc.).
- B. Multiconductor Cables N.E.C. Type FPLP, FPLR, FPL:
- 1. Insulated copper conductors.
 - 2. Conductors twisted, shielded and jacketed as recommended by the Company producing the system.
 - 3. Voltage rating of not less than 300 volts (Voltage rating not marked on cable except where cable has multiple listings and voltage marking is required for one or more of the listings).
- C. Other types of cables may be used in accordance with N.E.C. Table 760-61 “Cable Uses and Permitted Substitutions”, as approved, if listed as being suitable for the purpose.

PART 3 EXECUTION

3.01 VERIFICATION OF CONDITIONS

- A. Testing Existing System:
- 1. Prior to modifying the system, make the following tests to ascertain the operating condition of the existing system:

2. Test shall be witnessed by the Company Field Advisor and the Director's Representative.

3.02 INTERRUPTIONS TO EXISTING SUB-SYSTEMS

- A. Maintain the existing system in its present condition to the extent possible while installing new Work.
- B. Prior to making changes or removals relative to the existing system, notify the Director's Representative and have procedures approved.
- D. Provide signs, instructions and alternate methods for reporting a fire.

3.03 INSTALLATION

- A. Install the Work in accordance with the Company's printed instructions unless otherwise indicated.
- B. Reprogram the system to include new to include new visual notification appliance.
- C. Wiring For Survivability:
 1. Failure of equipment or a fault on one or more installation wiring conductors of one notification appliance circuit shall not result in functional loss of any other notification appliance circuit.
 2. Avoid splices in horizontal runs. When splices are necessary, use junction boxes.
 - a. Make splices with mechanical or hydraulic type pressure connectors. The use of wire nuts is prohibited.
 - b. Paint cover of terminal strip cabinets and junction boxes fire department red.

3.04 FIELD QUALITY CONTROL

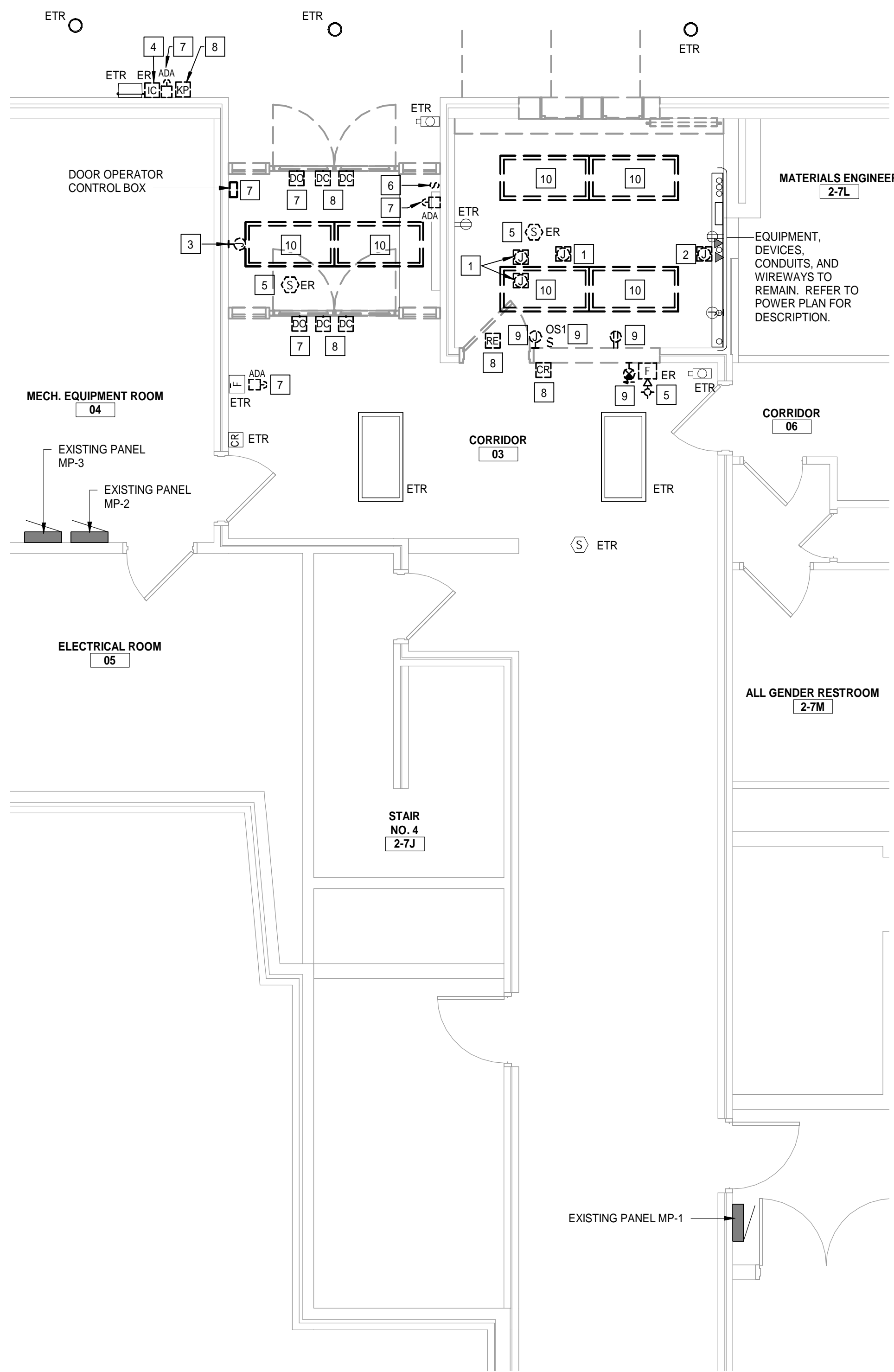
- A. Preliminary System Test:
 1. Preparation: Have the Company Field Advisor adjust the portion of the system applicable to the Work, and then operate it long enough to assure that it is performing properly.
 2. Run a preliminary test for the purpose of:
 - a. Determining whether the system is in a suitable condition to conduct an acceptance test.
 - b. Checking and adjusting equipment.
 - c. Training facility personnel.
- B. System Acceptance Test:
 1. Preparation: Notify the Director's Representative at least 3 working days prior to the test so arrangements can be made to have a Facility Representative witness the test.
 2. Supply all equipment necessary for system adjustment and testing.
 3. Make the following tests:

- a. Test the portion of the system applicable to the Work in accordance with NFPA 72, Chapter 7.
 - 1) Follow test methods stated in Table 7-2.2.
 - 2) Record results on NFPA 72 Figure 1-6.2.1 Record of Completion.
- b. Test system operation step by step as summarized in DESCRIPTION OF COMPLETED SYSTEM.
- 4. Submit written report of test results signed by Company Field Advisor and the Director's Representative. Also complete an NFPA Record of Completion.
 - a. Mount a copy of the written report of test results, and the NFPA 72 Record of Completion in plexiglass enclosed frame assemblies adjacent to the FACP (one framed assembly for each report).
- C. Conduct tests that are disruptive to facility personnel after normal working hours as directed.

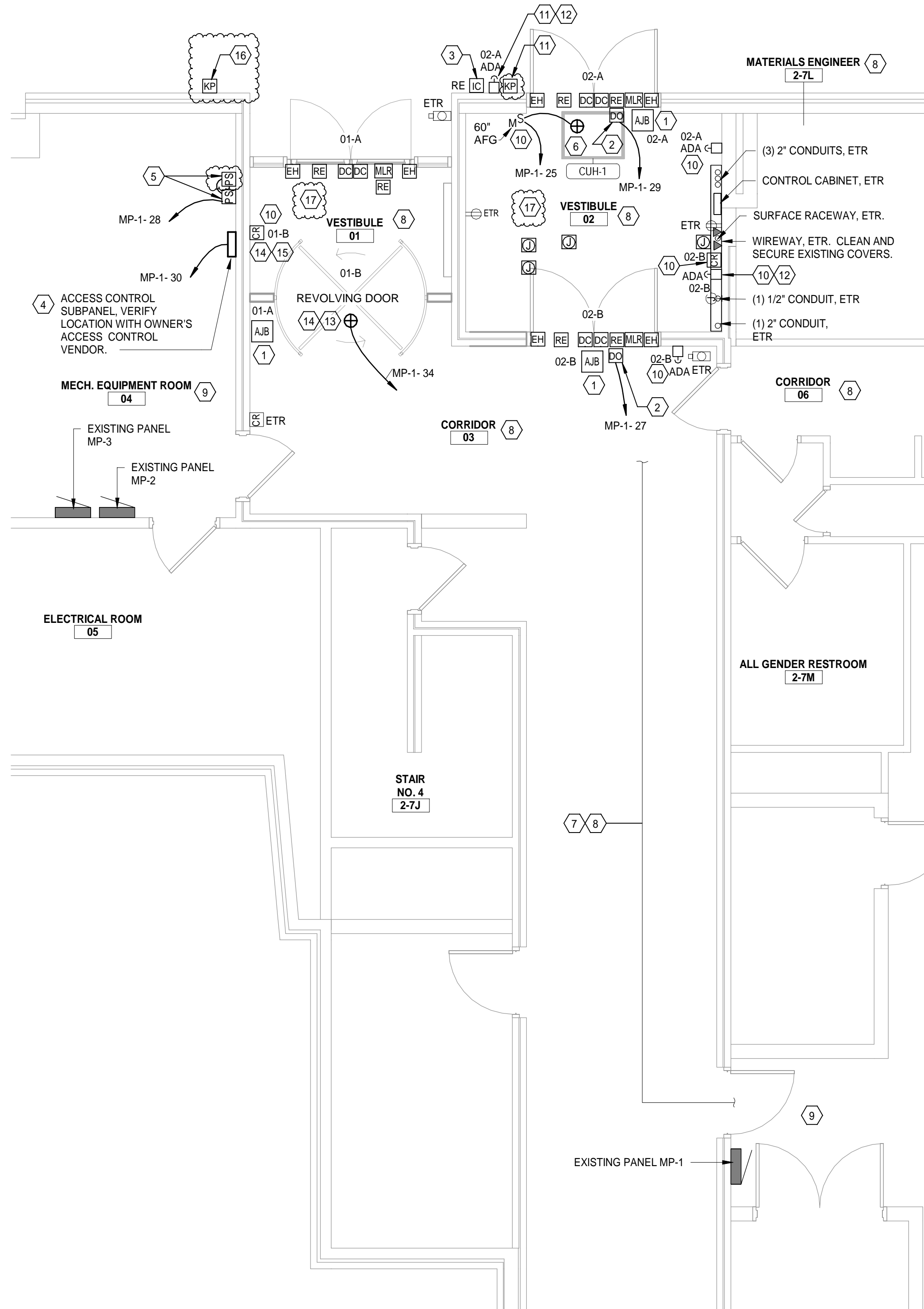
3.05 INSULATED CONDUCTOR SCHEDULE - TYPES AND USE

- A. Notification Appliance Circuits:
 - 1. Power-Limited Circuits: For interior wiring (in raceways) use power-limited insulated multiconductor cable types specified in PART 2.
 - a. Number of conductors and conductor size as recommended by the Company producing the system, except that conductor size shall not be less than No. 18 AWG for signaling line circuits and not less than No. 16 AWG for initiating device circuits and notification appliance circuits.
 - b. Using Non-power-Limited Wiring On Power-Limited Circuits: Wiring size and types specified for NONPOWER-limited circuits may be used for power-limited circuits if power-limited circuits are reclassified and the power-limited markings are eliminated. Refer to NEC Article 760-52(a) Exception No. 3.
 - 2. Nonpower-Limited Circuits: For interior wiring (in raceways) use nonpower-limited insulated single conductors or multiconductor cable types specified in PART 2.
 - a. Number of conductors and conductor size as recommended by the Company producing the system, except that conductor size shall not less than No. 14 AWG for notification appliance circuits.
 - 3. Fire alarm wiring shall be installed in raceway.
- B. Control Circuits Associated with the Fire Alarm System: use Class 1, 2, and 3 wiring specified in Section 260501.
- C. Primary Supply Circuits and Secondary Supply Wiring:
 - 1. Use electric light and power wiring specified in Section 260501.

END OF SECTION



2 1ST LEVEL REMOVALS PLAN
SCALE: 1/4" = 1'-0"



1 1ST LEVEL POWER AND SYSTEMS PLAN
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

- A. REMOVE EXISTING EQUIPMENT, DEVICES, LUMINAIRES, WIRING AND CONDUIT AS INDICATED AND/OR AS REQUIRED TO ALLOW FOR INSTALLATION OF SPECIFIED WORK. PROVIDE BLANK COVERS FOR ANY REMAINING BACKBOXES, AND PAINT TO MATCH ADJACENT FINISHES.
- B. MAINTAIN CONTINUITY OF EXISTING CIRCUITS TO PROVIDE POWER TO REMAINING EQUIPMENT, DEVICES, AND LUMINAIRES THAT ARE NOT BEING REMOVED.
- C. EXISTING FIRE ALARM PANEL IS LOCATED ON THIRD LEVEL AT MAIN LOBBY / SECURITY DESK.
- D. PROVIDE RACEWAY SYSTEMS AND WIRING FOR ACCESS CONTROL AND DOOR HARDWARE COMPONENTS. REFER TO ACCESS CONTROL WIRING DETAILS ON SHEET E-701.
- E. OWNER'S ACCESS CONTROL VENDOR IS HONEYWELL. COORDINATE ALL WORK RELATED TO ACCESS CONTROL WITH HONEYWELL AND DIRECTOR'S REPRESENTATIVE.
- F. OWNER'S FIRE ALARM VENDOR IS JOHNSON CONTROLS FIRE PROTECTION (JCI). UNLESS NOTED OTHERWISE FIRE ALARM WORK IS BY JCI AND IS NOT INCLUDED IN ELECTRICAL CONTRACT. COORDINATE ALL WORK RELATED TO FIRE ALARM WITH JCI AND DIRECTOR'S REPRESENTATIVE.
- G. REFER TO ARCHITECTURAL DRAWINGS FOR WALL AND CEILING TYPES.

KEYNOTES - REMOVALS #

1. EXISTING FLOOR ACCESS PORT TO WALKER RACEWAY IN SLAB. REMOVE COVER AND PROVIDE REPLACEMENT BRASS BLANKING COVER PLATE FLUSH WITH REPLACEMENT FLOORING.
2. REMOVE WALKER MONUMENT BOX AND REMOVE TELECOM CABLES BACK TO SOURCE. PROVIDE AFTERSET INSERT FOR DUCT AND BRASS BLANKING COVER PLATE FLUSH WITH REPLACEMENT FLOORING.
3. REMOVE WIRING ASSOCIATED WITH ORIGINAL PUSHPLATE AND PROVIDE BLANK FACEPLATE.
4. DISCONNECT AND REMOVE INTERCOM AND STORE CAREFULLY. PROVIDE BLANK WEATHERPROOF WALLPLATE FOR EXISTING RECESSED WALL BOX. REMOVE WIRING AND CONDUIT BACK TO JUNCTION BOX IN MECH EQUIP RM 04, AND LABEL WIRING FOR EXTENSION TO RELOCATED INTERCOM. RELOCATE INTERCOM AS SHOWN ON POWER AND SYSTEMS PLAN.
5. WORK BY OWNER'S FIRE ALARM VENDOR, NOT IN E-CONTRACT.
 - a. DISCONNECT AND REMOVE FIRE ALARM DEVICE AND STORE CAREFULLY. REMOVE FIRE ALARM CIRCUIT AND CONDUIT TO ABOVE CEILING. PROVIDE JUNCTION BOX AND LABEL TO ALLOW EXTENSION OF CIRCUIT. RELOCATE FIRE ALARM DEVICE AS SHOWN ON LIGHTING AND FIRE ALARM PLAN ON DRAWING E-102.
6. DISCONNECT AND REMOVE SWITCH AND WIRING AND PROVIDE BLANK WALLPLATE.
7. DISCONNECT DOOR OPERATOR AND REMOVE ASSOCIATED PUSHPLATE ACTUATORS, POWER SUPPLIES, BOXES, CONDUIT AND WIRING BACK TO SOURCE. PROVIDE BLANK WALL PLATES FOR EMPTY RECESSED WALL BOXES IN MASONRY WALLS. COORDINATE WITH DIRECTOR'S REPRESENTATIVE, OWNER'S ACCESS CONTROL VENDOR AND CONSTRUCTION TRADE.
8. ACCESS CONTROL DEVICE TO BE DISCONNECTED AND REMOVED BY OWNER'S ACCESS CONTROL VENDOR. E-CONTRACT REMOVE UNUSED BOXES AND WIRING BACK TO SOURCE, AND PROVIDE BLANK WALL PLATES FOR EMPTY RECESSED WALL BOXES IN MASONRY WALLS. COORDINATE WITH DIRECTOR'S REPRESENTATIVE, OWNER'S ACCESS CONTROL VENDOR AND CONSTRUCTION TRADE.
9. DISCONNECT AND REMOVE DEVICES IN / ON WALLS BEING REMOVED. REMOVE BOXES, CONDUITS, AND BOXES BACK TO JUNCTION BOX ABOVE CEILING IN THE AREA AND LABEL TO ALLOW EXTENSION OF CIRCUIT. EXISTING FIXTURES ARE CIRCUITED TO PANEL MP-1 BASED ON PANEL DIRECTORY. FIELD VERIFY PANEL AND CIRCUIT NUMBER.
10. DISCONNECT AND REMOVE LIGHTING IN CEILINGS BEING REMOVED. REMOVE CIRCUITRY, CONDUITS, AND BOXES BACK TO JUNCTION BOX ABOVE CEILING IN THE AREA AND LABEL TO ALLOW EXTENSION OF CIRCUIT. EXISTING FIXTURES ARE CIRCUITED TO PANEL MP-1 BASED ON PANEL DIRECTORY. FIELD VERIFY PANEL AND CIRCUIT NUMBER.

KEYNOTES - POWER AND SYSTEMS #

1. PROVIDE 12" X 12" X 6" D ACCESS CONTROL JUNCTION BOX. LOCATE ABOVE CEILING. PROVIDE CONDUIT AND WIRING FROM ACCESS CONTROL COMPONENTS AND DOOR HARDWARE AT EACH DOOR TO JUNCTION BOX WITH SAME DOOR DESIGNATION. PROVIDE CONDUIT AND WIRING FROM THIS JUNCTION BOX TO THE ACCESS CONTROL SUBPANEL AND POWER SUPPLY. FINAL CONNECTIONS BY ACCESS CONTROL VENDOR. COORDINATE WORK WITH DIRECTOR'S REPRESENTATIVE AND CONSTRUCTION TRADE. REFER TO ACCESS CONTROL WIRING DETAILS ON SHEET E-701.
2. PROVIDE 120V POWER WIRING AND CONDUIT TO AUTOMATIC DOOR OPERATOR. CIRCUIT TO 20A/1P CIRCUIT BREAKER WITH (2)#12, #12G, 3/4" CONDUIT. PROVIDE BREAKER TO MATCH CHARACTERISTICS OF EXISTING PANEL. PROVIDE OUTLET BOXES, JUNCTION BOXES, CONDUITS AND LOW VOLTAGE WIRING ASSOCIATED WITH DOOR OPERATOR, PUSHPLATE ACTUATOR, AND ACCESS CONTROL TIE-INS. COORDINATE WITH DIRECTOR'S REPRESENTATIVE AND CONSTRUCTION TRADE. REFER TO ACCESS CONTROL WIRING DETAILS ON SHEET E-701.
3. INSTALL EXISTING INTERCOM AT REVISED LOCATION. PROVIDE SURFACE WEATHERPROOF BOX. EXTEND EXISTING CONDUIT SYSTEM TO REVISED LOCATION. ROUTE CONDUIT CONCEALED THROUGH WALL INTO BACK OF BOX. COORDINATE WORK WITH DIRECTOR'S REPRESENTATIVE AND CONSTRUCTION TRADE. REFER TO ACCESS CONTROL WIRING DETAILS ON SHEET E-701.
4. MOUNT ACCESS CONTROL SUBPANEL FURNISHED BY OWNER'S ACCESS CONTROL VENDOR. PROVIDE 120V POWER WIRING AND CONDUIT TO ACCESS CONTROL SUBPANEL. CIRCUIT TO 20A/1P CIRCUIT BREAKER USING (2)#12, #12G, 3/4" CONDUIT. PROVIDE BREAKER TO MATCH CHARACTERISTICS OF EXISTING PANEL. PROVIDE CONDUITS WITH LOW VOLTAGE WIRING AS REQUIRED BY OWNER'S ACCESS CONTROL VENDOR FROM ACCESS CONTROL SUBPANEL TO POWER SUPPLIES, DOOR OPERATORS AND ACCESS CONTROL COMPONENTS. FINAL CONNECTIONS BY ACCESS CONTROL VENDOR. COORDINATE WITH DIRECTOR'S REPRESENTATIVE AND CONSTRUCTION TRADE. REFER TO ACCESS CONTROL WIRING DETAILS ON SHEET E-701.
5. INSTALL ACCESS CONTROL POWER SUPPLIES FURNISHED BY OWNER'S ACCESS CONTROL VENDOR. PROVIDE 120V POWER WIRING AND CONDUIT TO POWER SUPPLIES. CIRCUIT TOGETHER TO 20A/1P CIRCUIT BREAKER USING (2)#12, #12G, 3/4" CONDUIT. PROVIDE BREAKER TO MATCH CHARACTERISTICS OF EXISTING PANEL. PROVIDE CONDUIT AND LOW VOLTAGE WIRING TO ACCESS CONTROL JUNCTION BOXES, COMPONENTS AND ACCESS CONTROL SUB PANEL PER ACCESS CONTROL VENDOR REQUIREMENTS. FINAL CONNECTIONS BY ACCESS CONTROL VENDOR. COORDINATE WITH DIRECTOR'S REPRESENTATIVE AND CONSTRUCTION TRADE. REFER TO ACCESS CONTROL WIRING DETAILS ON SHEET E-701.
6. PROVIDE POWER WIRING AND CONDUIT TO CABINET HEATER CUH-1, RATED 1/15HP 120V, 1PH. CIRCUIT TO 15A/1P CIRCUIT BREAKER WITH (2)#12, #12G, 3/4" CONDUIT. INSTALL MANUAL MOTOR STARTER FURNISHED BY H-TRADE. MOUNT ON WALL BELOW UNIT. CIRCUIT CUH-1 THROUGH STARTER. PROVIDE CIRCUIT BREAKER TO MATCH CHARACTERISTICS OF EXISTING PANEL.
7. PROVIDE PATHWAY, WIRE AND CONDUIT ROUTE AS REQUIRED TO PANEL MP-1. PROVIDE CEILING REMOVALS / REINSTALLATION AND PROVIDE WALL PENETRATIONS.
8. CONCEAL RACEWAYS ABOVE CEILINGS, WITHIN WALLS, OR WITHIN DOOR FRAMING. PROVIDE SURFACE METAL RACEWAY SYSTEMS FOR WIRING WHICH CANNOT BE CONCEALED ON MASONRY WALLS OR INACCESSIBLE CEILINGS.
9. EXPOSED EMT RACEWAY SYSTEM PERMITTED IN MECHANICAL AND ELECTRICAL ROOMS.
10. SURFACE MOUNT DEVICE ON EXISTING WALL USING SURFACE METAL RACEWAY SYSTEM.
11. SURFACE MOUNT DEVICE ON EXISTING EXTERIOR WALL USING SURFACE WEATHERPROOF BOX SIZED TO MATCH DEVICE. ROUTE CONDUIT CONCEALED THROUGH WALL INTO BACK OF BOX. COORDINATE WORK WITH DIRECTOR'S REPRESENTATIVE AND CONSTRUCTION TRADE. REFER TO ACCESS CONTROL WIRING DETAILS ON SHEET E-701.
12. ACTUATOR POWER TO BE TIED INTO ACCESS CONTROL SUCH THAT DOOR WILL NOT OPERATE UNTIL CARD READER IS ACTIVATED. (TIE - IN BY OWNER'S ACCESS CONTROL VENDOR).
13. PROVIDE 120V POWER WIRING AND CONDUIT TO REVOLVING DOOR. CIRCUIT TO 20A/1P CIRCUIT BREAKER WITH (2)#12, #12G, 3/4" CONDUIT. PROVIDE BREAKER TO MATCH CHARACTERISTICS OF EXISTING PANEL. PROVIDE WIRING, CONDUIT AND BOXES AS REQUIRED BY MANUFACTURER FOR REVOLVING DOOR CONTROLS. PROVIDE WIRING AS REQUIRED BY REVOLVING DOOR MANUFACTURER'S WIRING DIAGRAMS. COORDINATE WITH DIRECTOR'S REPRESENTATIVE AND CONSTRUCTION TRADE.
14. PROVIDE CONDUIT SYSTEM AND BOXES FOR ACCESS CONTROL AT THE REVOLVING DOOR. WIRING FOR ACCESS CONTROL TIE-INS HAS ALREADY BEEN RUN TO THE CEILING SPACE ABOVE THE REVOLVING DOOR AREA, AND WILL BE EXTENDED TO THE REVOLVING DOOR AND ASSOCIATED CARD READER BY OWNER'S ACCESS CONTROL VENDOR. COORDINATE WORK WITH OWNER'S ACCESS CONTROL VENDOR.
15. VERIFY EXACT LOCATION OF CARD READER WITH DIRECTOR'S REPRESENTATIVE.
16. REUSE EXISTING BOX AND CONDUIT SERVING KEYPAD BEING REMOVED. EXTEND CONDUIT IN BUILDING PER OWNER'S ACCESS CONTROL VENDOR REQUIREMENTS.
17. DOOR PROP ALARM WIRING IS EXISTING AND WILL BE CONNECTED TO NEW DOORS BY ACCESS CONTROL VENDOR. PROTECT DURING REMOVALS.

NEW YORK STATE OF OPPORTUNITY | **Office of General Services**

DESIGN & CONSTRUCTION

CONSULTANT

CERTIFICATE OF AUTHORIZATION #: 098669

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REGISTRATION EXPIRES: 02/28/2026

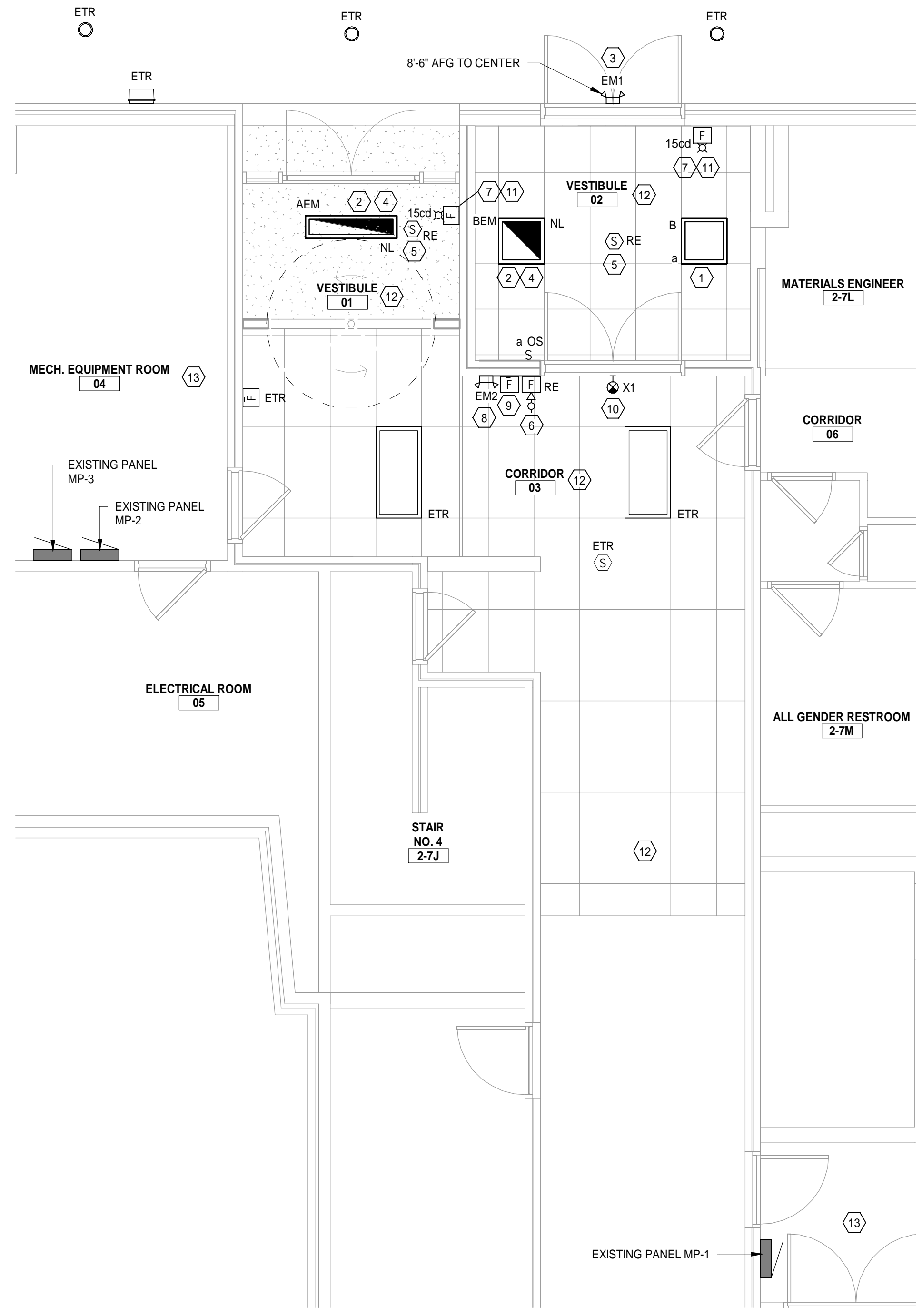
CONTRACT: **ELECTRICAL**

TITLE: **RENOVATE LOADING DOCK & BUILDING ENTRANCE**

LOCATION: **E ROOSEVELT SOB
4 BURNETT BLVD
POUGHKEEPSIE, NY**

CLIENT: **OFFICE OF
GENERAL SERVICES**

MARK	DATE	DESCRIPTION
	04/18/2025	ADDENDUM 05
	08/12/2024	BID DOCUMENTS
PROJECT NUMBER:	47479- E	
DESIGNED BY:	D JOYCE	
DRAWN BY:	D JOYCE	
FIELD CHECK:	-	
APPROVED:	B ELIASZ	
SHEET TITLE:	1ST LEVEL REMOVALS AND POWER AND SYSTEMS PLANS	
DRAWING NUMBER:	E- 101	
SHEET 17	OF 19	



1 1ST LEVEL LIGHTING AND FIRE ALARM PLAN
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

- A. LUMINAIRES MARKED "ETR" ARE EXISTING LUMINAIRES THAT ARE TO REMAIN IN PLACE. PROTECT EXISTING LUMINAIRES DURING CONSTRUCTION. REPLACE ANY EXISTING LUMINAIRES THAT ARE DAMAGED WITH AN IDENTICAL LUMINAIRE.
- B. MAINTAIN CONTINUITY OF EXISTING CIRCUITS TO PROVIDE POWER TO REMAINING EQUIPMENT, DEVICES, AND LUMINAIRES THAT ARE NOT BEING REMOVED.
- C. EXISTING FIRE ALARM PANEL IS LOCATED ON THIRD LEVEL AT MAIN LOBBY / SECURITY DESK.
- D. OWNER'S FIRE ALARM VENDOR IS JOHNSON CONTROLS FIRE PROTECTION (JCI). UNLESS NOTED OTHERWISE FIRE ALARM WORK IS BY JCI AND IS NOT INCLUDED IN THE ELECTRICAL CONTRACT. SCOPE OF FIRE ALARM WORK INCLUDES BUT IS NOT LIMITED TO: FIRE ALARM DEVICES; REMOVAL AND RELOCATION OF EXISTING FIRE ALARM DEVICES; FIRE ALARM WIRING, BOXES, CONDUIT AND SURFACE RACEWAYS; REMOVAL OF ANY UNUSED FIRE ALARM WIRING AND BOXES; PROGRAMMING, SUBMITTALS AND TESTING. COORDINATE ALL WORK RELATED TO FIRE ALARM WITH JCI AND DIRECTOR'S REPRESENTATIVE.
- E. REFER TO ARCHITECTURAL DRAWINGS FOR WALL AND CEILING TYPES.

KEYNOTES (#)

- 1. CIRCUIT LIGHTING FIXTURE WITH (2)#12, #12G, 3/4" CONDUIT TO EXISTING BRANCH CIRCUIT SERVING FIXTURES BEING REMOVED.
- 2. CIRCUIT LIGHTING FIXTURE WITH (2)#12, #12G, 3/4" CONDUIT TO UNSWITCHED NIGHTLIGHT CIRCUIT, PANEL MP-1. PROVIDE 20A/1P BREAKER TO MATCH CHARACTERISTICS OF EXISTING PANEL.
- 3. CIRCUIT EMERGENCY LIGHT WITH (2)#12, #12G, 3/4" CONDUIT TO LOCAL LIGHTING CIRCUIT SERVING VESTIBULE 02, AHEAD OF SWITCHES AND CONTROLS.
- 4. CIRCUIT EMERGENCY BATTERY PACK IN THIS FIXTURE TO UNSWITCHED NIGHTLIGHT CIRCUIT. FIXTURE SHALL AUTOMATICALLY ENERGIZE WHEN POWER TO CIRCUIT IS LOST.
- 5. INSTALL EXISTING SMOKE DETECTOR. RE-ROUTE AND EXTEND EXISTING ADDRESSABLE SIGNAL CIRCUIT AND CONNECT TO RELOCATED DETECTOR. (REFER TO GENERAL NOTE D)
- 6. INSTALL EXISTING AUDIBLE / VISUAL DEVICE. RE-ROUTE AND EXTEND EXISTING NOTIFICATION CIRCUIT AND CONNECT TO RELOCATED DEVICE. (REFER TO GENERAL NOTE D)
- 7. CIRCUIT VISUAL DEVICE TO VISUAL NOTIFICATION CIRCUIT FROM EXISTING FIRE ALARM SYSTEM. (REFER TO GENERAL NOTE D)
- 8. CIRCUIT EMERGENCY LIGHT WITH (2)#12, #12G, 3/4" CONDUIT TO LOCAL LIGHTING CIRCUIT SERVING CORRIDOR 03, AHEAD OF SWITCHES AND CONTROLS.
- 9. CIRCUIT FIRE ALARM PULLSTATION TO EXISTING ADDRESSABLE SIGNAL CIRCUIT SERVING THE AREA. (REFER TO GENERAL NOTE D)
- 10. CIRCUIT EXIT LIGHT WITH (2)#12, #12G, 3/4" C TO LOCAL LIGHTING CIRCUIT SERVING THE AREA, AHEAD OF SWITCHES AND CONTROLS.
- 11. SURFACE MOUNT DEVICE ON EXISTING WALL USING SURFACE METAL RACEWAY SYSTEM. (REFER TO GENERAL NOTE D FOR FIRE ALARM RACEWAYS)
- 12. CONCEAL RACEWAYS ABOVE CEILINGS, WITHIN WALLS, OR WITHIN DOOR FRAMING. PROVIDE SURFACE METAL RACEWAY SYSTEMS FOR WIRING WHICH CANNOT BE CONCEALED ON MASONRY WALLS OR INACCESSIBLE CEILINGS.
- 13. EXPOSED EMT RACEWAY SYSTEM PERMITTED IN MECHANICAL AND ELECTRICAL ROOMS.

DESIGN & CONSTRUCTION

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CERTIFICATE OF AUTHORIZATION #: 098669



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PROJECT NUMBER: 47479- E
DESIGNED BY: D JOYCE
DRAWN BY: D JOYCE
FIELD CHECK: -
APPROVED: B ELIASZ

SHEET TITLE: 1ST LEVEL LIGHTING AND FIRE ALARM PLAN

DRAWING NUMBER: E- 102

