



Office of General Services

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

ADDENDUM NO. 6 TO PROJECT NO. 47362

ELECTRICAL WORK REPLACE GENERATORS HOLLAND AVENUE OFFICE BUILDING 44 HOLLAND AVENUE ALBANY, NY

October 17, 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.

SPECIFICATIONS

1. SECTION 262413 SWITCHBOARDS: Discard the Section bound in the Project Manual and substitute the accompanying Section (pages 262413 – 1 thru 262413 – 13) noted “Revised 10/17/2025”.

DRAWINGS

2. Revised Drawings:
 - a. Drawing Nos. E-101, E-103, E-603, and S-102, noted “REVISED DRAWING 10/17/2025” accompany this Addendum and supersede the same numbered originally issued drawings.
3. Addendum Drawing:
 - a. Drawing No. E-604, noted “ADDENDUM DRAWING 10/17/2025” accompanies this Addendum and forms part of the Contract Documents.

END OF ADDENDUM

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

SECTION 262413

SWITCHBOARDS

PART 1 GENERAL

1.01 REFERENCES

- A. NEMA
- B. UL50 - Enclosures for Electrical Equipment, Non-Environmental Considerations.
- C. UL489 - Molded-Case Circuit Breakers, Molded-Case Switches, and Circuit-Breaker Enclosures
- D. UL 891 - Standard for Switchboards.
- E. UL 1691 - Single Pole Locking-Type Separable Connectors
- F. NFPA 70 – National Electrical Code

1.02 DEFINITIONS

- A. ITIC (Information Technology Industry Council) Curve: Describes how much or how little voltage IT equipment can sustain without damage and over what length of time.
- B. Switchboard: The term switchboard includes generator docking stations.

1.03 SUBMITTALS

- A. Waiver of Submittals: The "Waiver of Certain Submittal Requirements" in Section 013300 does not apply to this Section.
- B. Submittals Package: Submit the shop drawings, product data, and quality control submittals specified below at the same time as a package.
- C. Shop Drawings; include the following for each switchboard:
 - 1. Front and plan view with overall dimensions.
 - 2. Details showing type of construction and available conduit space.
 - 3. Voltage rating, and continuous current rating of the through bus and distribution sections.
 - 4. Short-circuit current rating. Fully rated equipment rating is required.
 - 5. Enumeration of each circuit breaker including frame size, ATE, number of poles, and interrupting capacity.
 - a. Indicate circuit breakers are suitable for the switchboards' fully rated equipment rating. Series rated combinations will not be considered.
 - 6. Wiring and schematic diagrams. Provide diagrams for power circuits, auxiliary circuits (i.e., compartment heaters, etc.), and control circuits.

7. A coordinated selective scheme between the circuit breaker serving the fire pump in the generator (main device) and the circuit breaker serving the fire pump in the docking station (feeder device), so that under fault conditions the feeder device clears the fault while the main device remains closed. Submit time current characteristic curves for each overcurrent protective device contained within the switchboard on a single log-log graph.
 - a. As the docking station will be supplied from a different manufacturer than the generator, it is the contractor's responsibility to provide the information to each manufacturer, obtain the information from each manufacture, and combine the information into a cohesive single submittal as part of the docking station submittal.
 - b. Submittals that do not clearly indicated coordination between the circuit breakers of the docking station and the generator will be rejected without further review.
8. Coordination of the Kirk Key system between the docking station manufacturer and the generator manufacturer.

As the docking station will be supplied from a different manufacturer than the generator, it is the contractor's responsibility to provide the information to each manufacturer, obtain the information from each manufacturer, and combine the information into a cohesive single submittal as part of the docking station submittal.

 - b. Submittals that do not clearly indicated coordination between the Kirk Key interlock of the docking station and the Kirk Key interlock of generator will be rejected without further review.
9. A statement for each switchboard indicating if it will, or will not, bear a UL label. If a section cannot bear a UL label, state the specific reasons why it is not qualified to bear the UL label.
10. Cable terminal sizes.
11. Coordination with steel shop drawings for the elevated structural platform. It is the contractor's responsibility to provide the information regarding the docking stations to the steel fabricator, obtain the information from the docking station manufacturer and the steel fabricator, and combine the information into a cohesive single submittal as part of the docking station submittal.

D. Product Data:

1. Catalog sheets, specifications and installation instructions.
 - a. Include information sheets describing system testing instructions and test form which comply with UL 891 requirements.
2. Bill of materials.
3. Name, address and telephone number of nearest fully equipped service organization.

E. Quality Control Submittals:

1. 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. Services and each product for which authorization is given by the Company listed specifically for this project.
- F. Contract Closeout Submittals:
- 1. System acceptance test report.
 - 2. Certificate: Affidavit, signed by the Company Field Advisor and notarized, certifying that the system meets the contract requirements and is operating properly.
 - 3. Operation and Maintenance Data: Deliver 2 copies, covering the installed products, to the Director's Representative.

1.04 QUALITY ASSURANCE

- A. Equipment Qualifications For Products Other Than Those Specified:
- 1. At the time of submission provide written notice to the Director of the intent to propose an “or equal” for products other than those specified. Make the “or equal” submission in a timely manner to allow the Director sufficient time to review the proposed product, perform inspections and witness test demonstrations.
 - 2. If products other than those specified are proposed for use furnish the name, address, and telephone numbers of at least 5 comparable installations that can prove the proposed products have performed satisfactorily for 3 years. Certify in writing that the owners of the 5 comparable installations will allow inspection of their installation by the Director's Representative and the Company Field Advisor.
 - a. Make arrangements with the owners of 2 installations (selected by the Director) for inspection of the installations by the Director's Representative. Also obtain the services of the Company Field Advisor for the proposed products to be present. Notify the Director a minimum of 3 weeks prior to the availability of the installations for the inspection, and provide at least one alternative date for each inspection.
 - b. Only references from the actual owner or owner's representative (e.g., Maintenance Supervisor, etc.) will be accepted. References from dealers, system installers or others, who are not the actual owners of the proposed products, are not acceptable.
 - 1) Verify the accuracy of all references submitted prior to submission and certify in writing that the accuracy of the information has been confirmed.
 - 3. The product manufacturer shall have test facilities available that can demonstrate that the proposed products meet the contract requirements.
 - a. Make arrangements with the test facility for the Director's Representative to witness test demonstrations. Also obtain the services of the Company Field Advisor for the proposed product to be present at the test facility. Notify the Director a minimum of 3 weeks prior to the availability of the test facility, and provide at least one alternative date for the testing.
 - 4. Provide written certification from the manufacturer that the proposed products are compatible for use with all other equipment proposed for use for this system and meet all contract requirements.

5. Provide item-by-item written comparison of the proposed manufacturer against each of the manufacturers listed in the specification. Comparison shall include all aspects of the specification to the extent required to establish proposed equipment is 'equal' to equipment specified. Failure to provide detailed written comparison, and to provide sufficient detail to establish the proposed manufacturer as an 'equal' shall be grounds for rejection of proposed products other than those specified.
- B. Company Field Advisor: Secure the services of a Company Field Advisor for a minimum of 16 working hours for the following:
1. Render advice regarding the docking station installation, and final adjustment and testing of the docking station devices.
 2. Witness final system test and then certify with an affidavit that the docking station is installed in accordance with the contract documents and is operating properly.
 3. Train facility personnel on the operation and maintenance of the docking station devices (minimum of two 2-hour sessions).
 4. Explain available service programs to facility supervisory personnel for their consideration.
- C. Service Availability: A fully equipped service organization shall be available to service the completed Work.

1.05 DELIVERY, STORAGE AND HANDLING

- A. Protection: Provide supplemental heating devices, such as incandescent lamps or low wattage heaters within the enclosure or under a protective cover to control dampness. Maintain this protection from the time equipment is delivered to the site until it is energized.

PART 2 PRODUCTS

2.01 GENERATOR DOCKING STATION

- A. Stand-alone generator docking stations consist of factory-fabricated enclosure with circuit breakers to connect a permanent/utility source and a temporary generator source, with sources interlocked to prevent simultaneous connection.
- B. The listing of specific manufacturers does not imply acceptance of their products that do not meet the specified ratings, features and functions. Manufacturers listed are not relieved from meeting these specifications in their entirety.
- C. Manufacturer: Trystar, Inc. with circuit breakers manufactured by Eaton Corp., Schneider/Square D Co., ABB/General Electric Co, or Siemens, meeting all the requirements of 'Switchboards' in this specification, and in addition having:
1. Ratings and features as indicated on drawings.
 2. Kirk Key/interlocking as indicated on the drawings.
 - a. Kirk Key interlocking system between the generator breaker serving docking station DS-B and the temporary generator Camlock access panel on docking station DS-B.

- b. With the Kirk Key held at the generator breaker, the generator breaker may be closed.
 - c. With the Kirk Key held at the generator breaker, the docking station access panel cannot be opened.
 - d. To remove the Kirk Key from the generator breaker, the breaker must be opened. Once the breaker is opened the Key can be removed to travel to the docking station access panel.
 - e. Actuating the Kirk Key at the docking station access panel traps the Kirk Key and permits opening of the access panel.
 - f. At no time does the Kirk Key sequence permit simultaneous closing of the generator breaker and access to the terminals inside the docking station temporary generator connection compartment.
 - g. Restoration of the generator breaker to the closed position is the reverse of the process above.
3. Pad-lockable front door, with hinged access plate at the bottom for temporary cabling entry. Door and plate arrangement prevents unauthorized tampering while in use.
 4. NEMA 3R integrity maintained while temporary cabling is connected and in use. Enclosure constructed of aluminum.
 5. Front and side accessible for maintenance, accessible sides as indicated by equipment layout on the drawings.
 6. Bottom shall be accessible for permanent cabling. Side accessibility as indicated by equipment layout on the drawings.
 7. Temporary generator Camlok phase, neutral, and ground connections:
 - a. Single pole cam-type connections, male, through-panel surface mount, 400 amp, 600V, color coded. Leviton Rhino-Hide 16 Series or Eaton E1016-1700 Series.
 - b. Field verify Camlok connections on Power House docking station. Match Camlok connections to the existing Camlok connections on the Power House generator docking stations.
 - c. Insulated recessed receptacle connections, double hole bus bar style, watertight elastomeric body, color coded, insulated for mounting on steel panels. Double set screw or cabling connection not permitted.
 - d. Color coding:
 - i. 480Y/277V, 480V: Phase – brown/orange/yellow, neutral – white, ground – green.
 - ii. Provide color coded receptacle bodies as above. Black receptacle bodies mounted on a color coded background or plate are not acceptable.
 - e. Receptacle covers: Direct permanent mounting to receptacles, same color as receptacle, NEMA3R.
 - f. Location: Physically separated from internal bus bars and live parts to permit connection of cables to Camlok connections without exposing personnel to live voltages.
 8. Loadbank, where noted on drawings -mechanical phase, neutral, and ground connections:
 - a. Mechanical set screw type, factory installed, matched to accept the number and size of conductors indicated on the drawings.

- b. Aluminum, bronze, or copper, marked UL listed for use with copper conductors.
 - c. Located on the line side bus bars or bus bar extensions for the generator input breaker, for direct cable connection without Camlok connectors. Physical separation from utility source voltage not required. Disconnection from generator and utility sources by site personnel required to remove all power sources to remove exposure to live power sources.
9. Permanent generator phase, neutral, and ground connections:
- a. Mechanical set screw type, factory installed, matched to accept the number and size of conductors indicated on the drawings.
 - b. Aluminum, bronze, or copper, marked UL listed for use with copper conductors.
 - c. Located behind a physical barrier from the docking station bus bars and generator connections, to permit connection of the utility source conductors while the docking station provides power to the load through the temporary generator connection without exposing personnel to live components while making permanent/utility source connections.
10. Factory installed device to monitor phase rotation/reversal, phase loss, over-voltage and undervoltage, Time Mark Corporation or approved equal, connected to the temporary generator connection line side:
- a. Model B269 for 208Y/120VAC operation.
 - b. Model C269 for 480Y/277 VAC or 480VAC operation.
 - c. Factory settings: Maximum voltage 115% nominal; minimum voltage 85% nominal, response time maximum of 1 second, rotation set to match rotation of the building connected to the docking station. Mark face of unit to show dial positions of factory settings
 - d. Monitor output and indicators:
 - i. Voltage nominal, phase rotation correct, and all phases present: Green indicator, LED, full voltage, 30mm, SquareD class 9001, Type K or equal, legend plate or plaque “Voltage Nominal Phasing Correct”
 - ii. Voltage out of range, phase rotation incorrect or phase loss: Red indicator, LED, full voltage, 30mm, SquareD class 9001, Type K, or equal, legend plate or plaque “Voltage/Phasing Fault Do Not Connect”
11. Control circuit fusing: Class CC fused for control circuits, or as recommended by the monitor’s manufacturer.
12. Space heaters with thermostatic control, minimum one heater and thermostatic control per vertical section.
- a. 500W/240V ac space heaters running at 120V ac to produce 125 watts per heater.
13. As listed on the drawings: Control power transformer, 500VA, primary voltage to match docking station voltage, two primary CC fuses with fuse holders, 120vac secondary, one secondary CC fuse with fuse holder, to provide power for heaters.
14. Engine start monitoring system:

- a. Engine start monitoring system to accept engine start signals from transfer switches, monitor for any wiring faults, and to start the generator upon receipt of transfer switch start signals or upon detection of wiring faults. Provide an alarm upon fault detection.
 - i. ASCO 5101-ATS and ASCO 5101-GEN, or approved equal.
- b. Docking station/generator engine start module ASCO 5101-GEN:
 - i. Terminal block to accept start signal from transfer switch modules, up to eight modules.
 - ii. Terminal block to transmit start signal to docking station terminal block for temporary generator start.
 - iii. Terminal block to transmit alarm signal to warning beacon.
 - iv. DIN rail mountable.
 - v. Compatible with contact-based engine start signal(s).
 - vi. Wire gauge: 12-30AWG stranded.
 - vii. Operating temperature: -20C to 70C.
 - viii. DC Power: 9-27V, 15W at 24VDC maximum.
 - ix. Docking station/generator Module Start Contact: 1A 30VDC (Form C).
 - x. Docking station/generator Module Alarm Contact: 1A 30VDC (Form C).
 - xi. DIP switches for programming to enable channels, setting alarm delay, and start-on-close or start-on-open contact status.
 - xii. Provide in a dedicated enclosure, separate from the docking station, as factory-fabricated module.
 - xiii. Automatic transfer switch engine start module: see specification 263623.
- 15. Accessories and options: As listed on the drawings.
- 16. Circuit breakers of the same manufacturer as the circuit breaker provided with the generator.
- 17. Provide 100% rated circuit breakers with electronic trip for breaker frames 225amps and higher. Digital/electronic trip units, Eaton Digitrip 310+, with arc flash maintenance reduction system and zone selective interlocking system. LSIG protection, except for circuit breakers serving fire pumps. For circuit breakers serving fire pumps, LSI protection. For circuit breaker frames 100A and under, magnetic/thermal trip units.
- 18. Additional features and options indicated by the drawings.
- 19. Terminal board for connecting temporary generator start circuit, with normally open, common, and normally closed terminal positions wired to the ASCO 5101-GEN generator start module contacts.

PART 3 EXECUTION

3.01 PRODUCT COORDINATION

- A. Coordinate between the generator manufacturer and the docking station manufacturer to provide circuit breakers of the same manufacturer.
- B. Coordinate between the generator manufacturer and the docking station manufacturer to provide the Kirk Key system to interlock the generator breaker and the docking station access panel noted on the drawings.

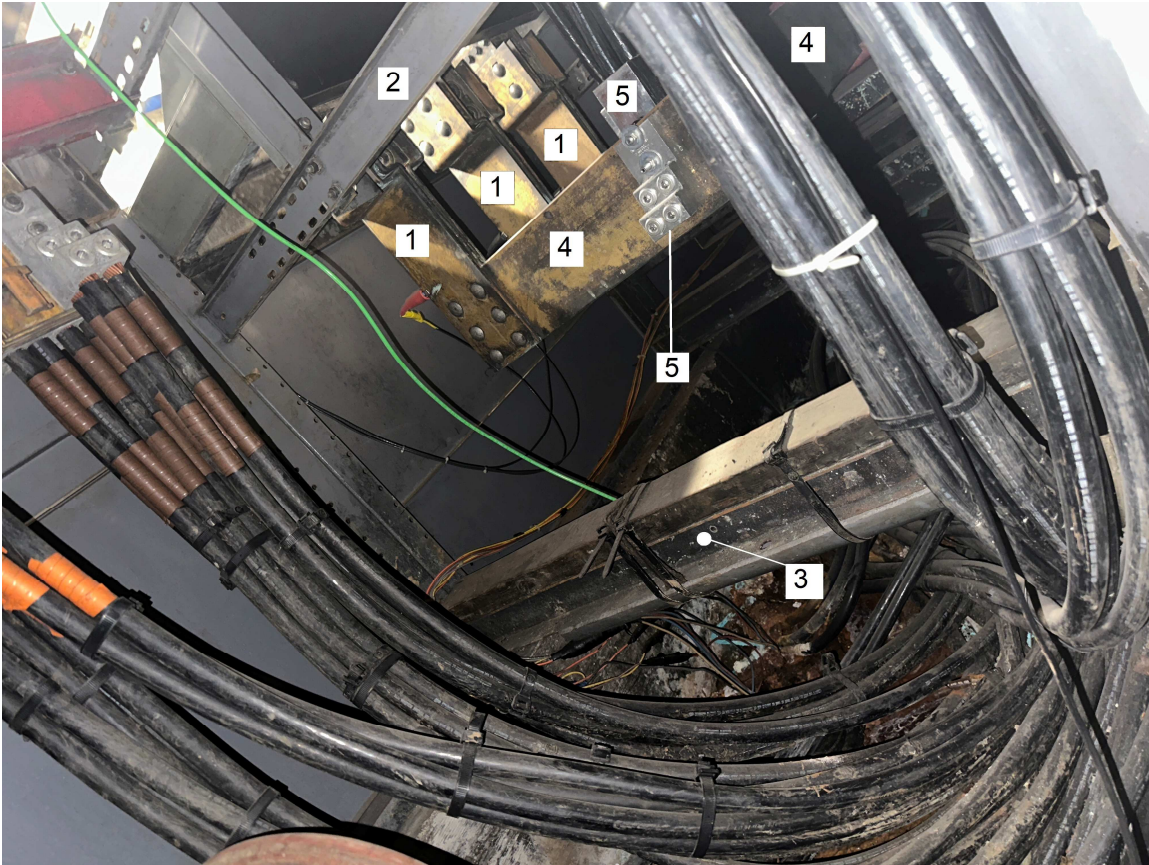
3.02 INSTALLATION

- A. Install switchboards in accordance with NEMA Publication No. PB2.1 "Instructions for Proper Handling, Installation, Operation and Maintenance of Deadfront Distribution Switchboards".
 - 1. Set and program the switchboard devices in accordance with the approved coordinated selective scheme.
- B. Install foundation channels for anchoring and leveling of each switchboard.
- C. Examine elements and surfaces to receive Generator Docking Station for compliance with installation tolerances and other conditions affecting performance of the Work.
- D. Proceed with installation only after unsatisfactory conditions have been corrected.
- E. Identification:
 - 1. Install on the front of each circuit breaker, a phenolic nameplate indicating load served by circuit breaker.
 - 2. Install a phenolic nameplate above the main utility breaker with building name and number, voltage, amperage, # of phases, and source.
 - 2. Stencil on front of each switchboard with white paint in 1/2 inch lettering "SB-1, etc." corresponding to switchboard designations on the drawings, and electrical parameters (phase, wire, voltage).
- F. Provide docking station/generator engine start module in dedicated enclosure mounted on docking station exterior. Provide Class 1 wiring to and from generator engine start module. Connect docking station/generator engine start module to control wiring from automatic transfer switch engine start modules.

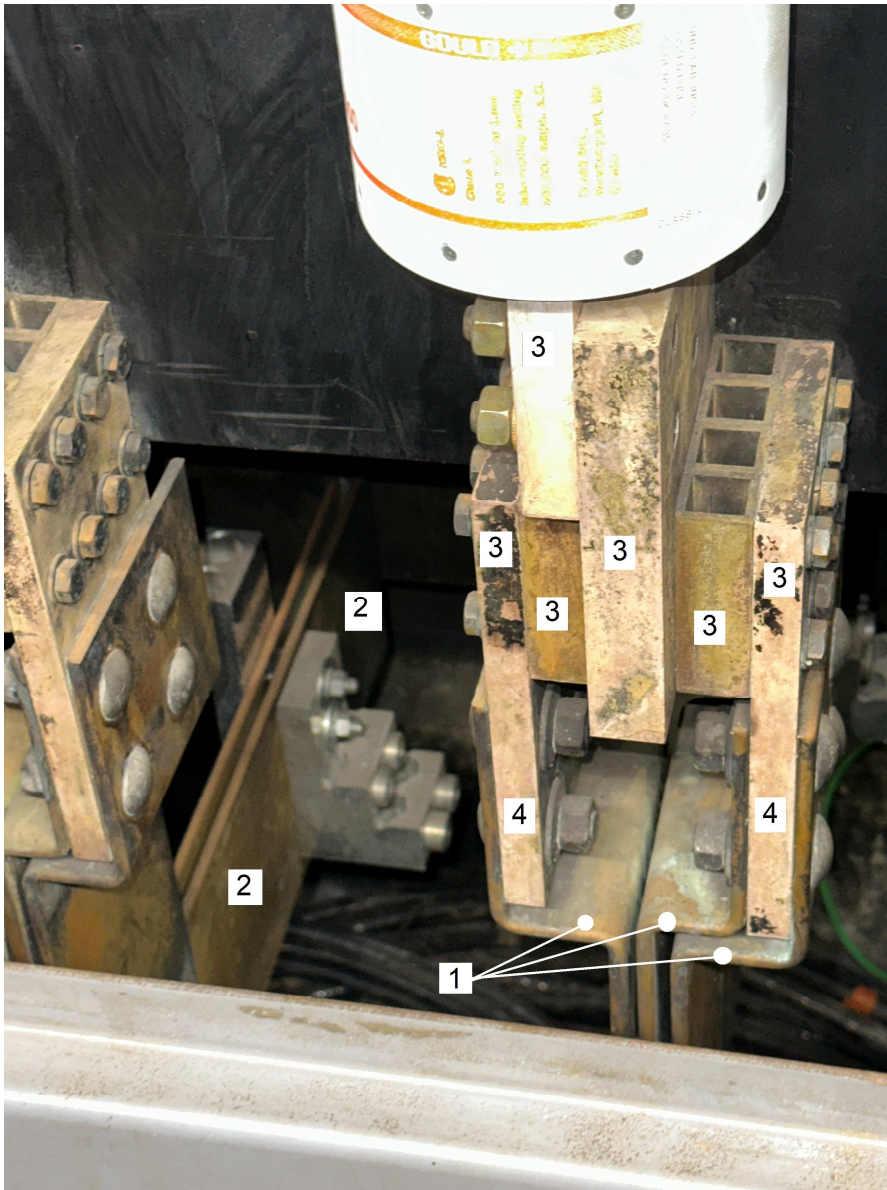
3.03 MODIFICATION OF EXISTING MAIN SWITCHBOARD

- A. All photographs provided in the Contract Documents are for reference purposes only. These photos represent what conditions were at the time each photo was taken and may not accurately represent current conditions. This applies to each and every following photograph.

- B. Main Bolted Pressure Switch Compartment:
1. Vertical bus bar sections to be removed by this contract.
 2. Existing to remain C-channel compartment structure.
 3. Existing to remain L-channel compartment structure.
 4. Bus bar sections to Main Distribution Switchboard to remain.
 5. Fire pump conductors and terminations to be relocated by this contract.



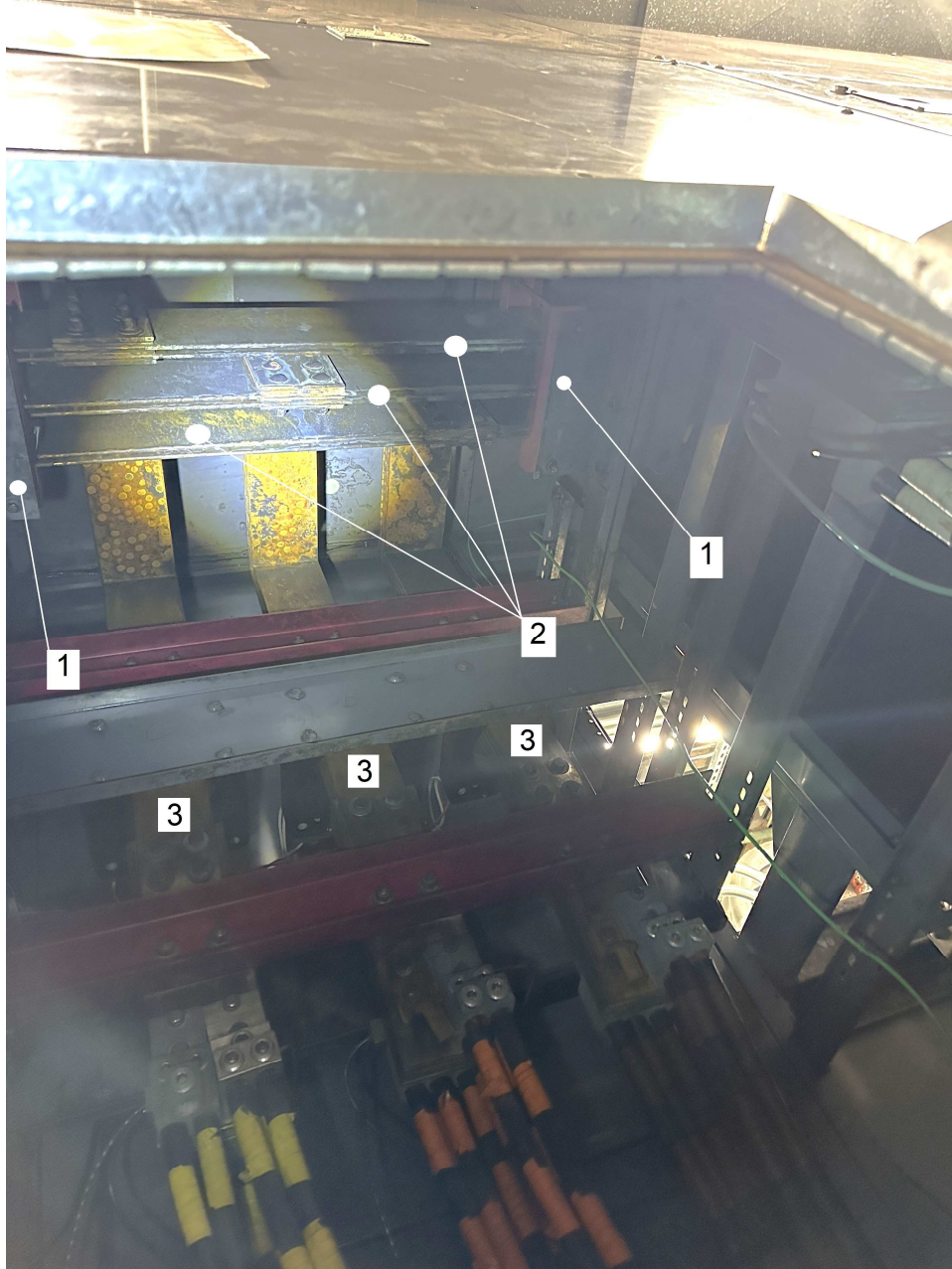
- C. Main Bolted Pressure Switch, Load Side Phase Detail:
1. Vertical bus bar sections to be removed by this contract, typical of three phases.
 2. Existing horizontal bus bar sections to Main Distribution Switchboard to remain, typical of three phases.
 3. Existing Main Bolted Pressure Switch hardware to remain, typical of three phases.
 4. Termination point for conductors to transfer switch ATS TS-B.



D. Main Bolted Pressure Switch, Load Side:



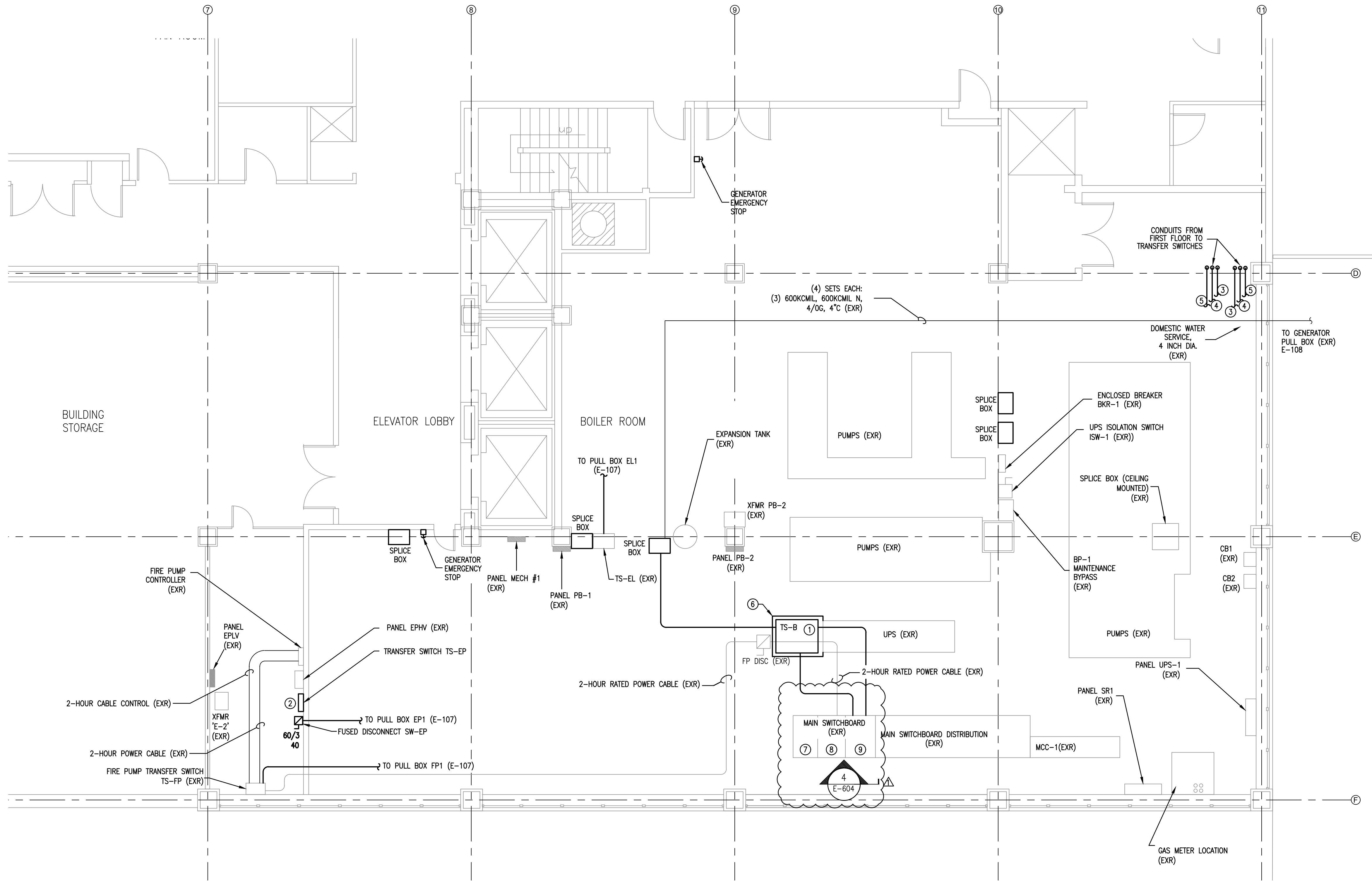
- E. Utility Incoming Compartment, Top Bus Structure:
1. Existing horizontal bus bar supports to remain.
 2. Bus bar connection points for fire pump feeder. Clean bus bars prior to making connections and terminations.
 3. Existing vertical bus bar sections to remain.



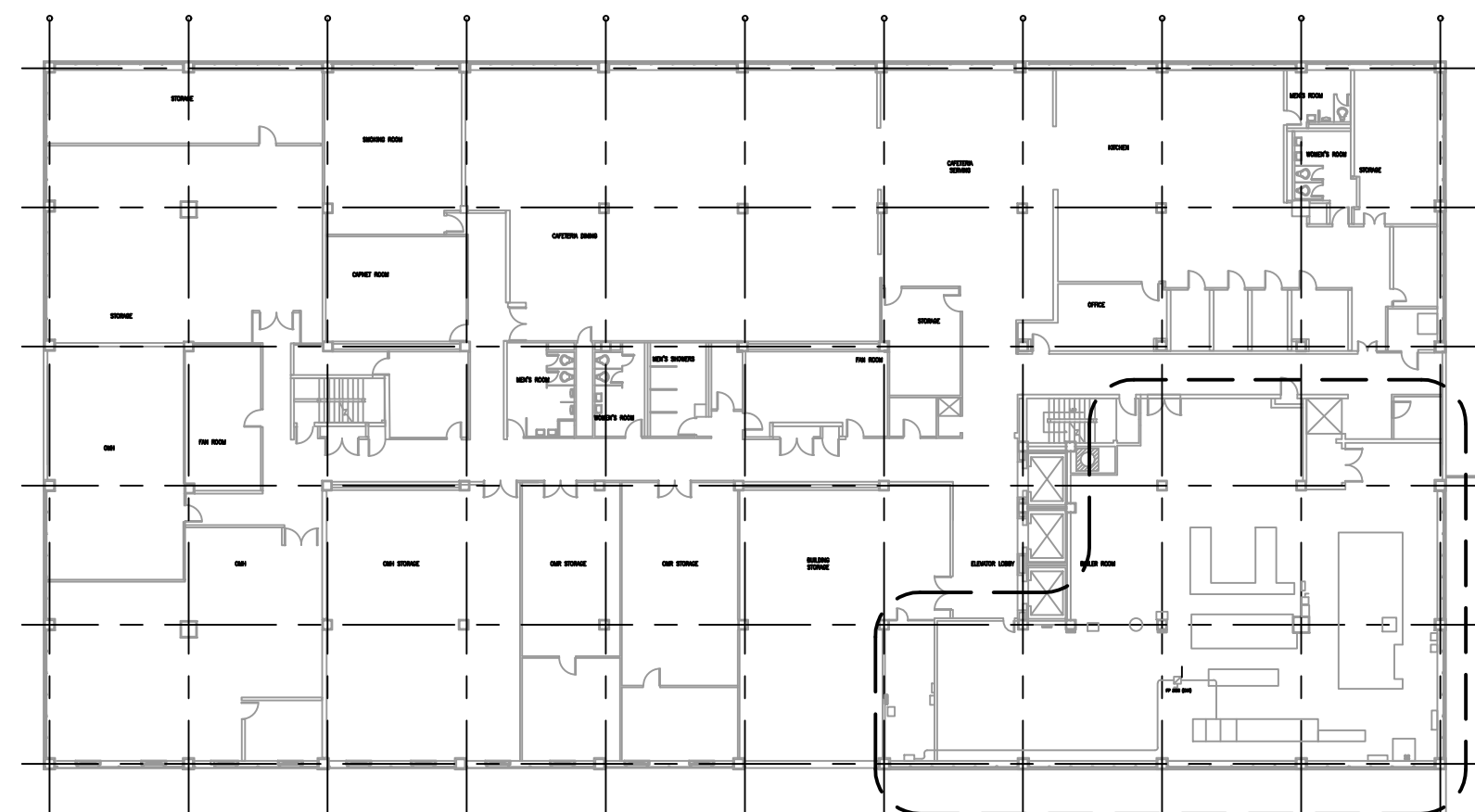
3.04 FIELD QUALITY CONTROL

- A. Preliminary System Test:
1. Preparation: Have the Company Field Advisor adjust the completed switchboard, docking station, or integrated switchboard devices and then operate them long enough to assure that they are performing properly.
 2. Run a preliminary test for the purpose of:
 - a. Determining whether the switchboard, docking station, or integrated switchboard is in a suitable condition to conduct an acceptance test.
 - b. Checking instruments and equipment.
 - c. Training facility personnel.
 3. Test the engine start monitoring system:
 - a. Automatic transfer switch engine start modules:
 - i. Validate wiring: ATS engine start signal to module.
 - ii. Validate wiring: 2-wire signal from TB2 to generator engine start module.
 - b. Generator engine start module:
 - i. Power up: check the module is receiving 9-27Vdc from the generator.
 - ii. Validate wiring: Signals from 5101-ATS modules.
 - iii. Validate wiring: Alarm signal to external device.
 - iv. Validate wiring: Engine start signal to generator.
 - v. Configure DIP switches for specific needs.
 - vi. Check for correct LED status (all channels should be either blue or green in idle state)
 4. Demonstrate to the Director's Representative positive exclusion by Kirk Key interlocks of interlocked operations.
- 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 prior to the test to have a Facility Representative witness the test.
 2. Make the following tests:
 - a. Test devices which have ground fault protection in accordance with the approved information sheets and test form.
 - b. Test programmable solid state trip devices in accordance with the manufacturer's recommendations.
 - c. Demonstrate the docking station and integrated switchboard monitoring device detects and alarms for over-voltage, under-voltage, phase loss, and phase reversal.
 3. Supply all equipment necessary for system adjustment and testing.
 4. Submit written report of test results signed by the Company Field Advisor and the Director's Representative. Mount a copy of the final report in a plexiglass enclosed frame assembly in a conspicuous location on the switchboard, docking station, or integrated switchboard.

END OF SECTION

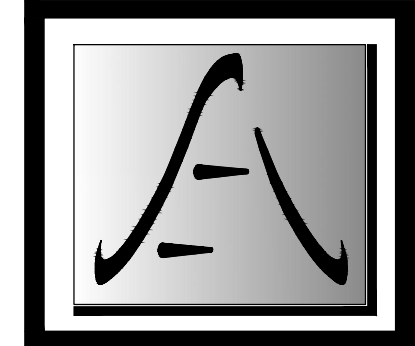


1 E-101 BASEMENT INSTALLATION PLAN
SCALE: 3/16"=1'-0"



BUILDING KEY PLAN
SCALE: NTS

- KEYED NOTES:**
- ① EXTEND EXISTING GENERATOR CONDUCTORS TO TS-B. PROVIDE LABOR AND MATERIAL TO EXTEND CONDUCTORS TO TS-B TERMINALS. EXTEND EXISTING UPS HOUSEKEEPING PAD TO UNISTRUT SUPPORTS OF FIRE PUMP SWITCH. MATCH PAD DEPTH TO TRANSFER SWITCH.
 - ② CONNECT TRANSFER SWITCH TO EXISTING CONDUCTORS. PROVIDE LABOR AND MATERIAL TO EXTEND CONDUCTORS TO TRANSFER SWITCH TERMINALS.
 - ③ TO TS-EL.
 - ④ TO TS-EP.
 - ⑤ TO TS-FP.
 - ⑥ PROVIDE CONCRETE HOUSEKEEPING PAD FOR TRANSFER SWITCH. MATCH SLAB HEIGHT TO HEIGHT OF EXISTING UPS PAD.
 - ⑦ CHILLER BOLTED PRESSURE SWITCH COMPARTMENT OF MAIN SWITCHBOARD.
 - ⑧ MAIN INCOMING UTILITY COMPARTMENT OF MAIN SWITCHBOARD.
 - ⑨ MAIN BOLTED PRESSURE SWITCH COMPARTMENT OF MAIN SWITCHBOARD.

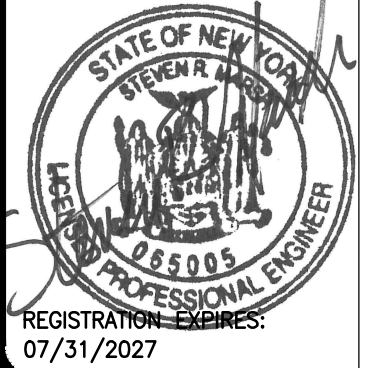


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TO THE BEST OF THE REGISTERED DESIGN PROFESSIONAL'S KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND/OR SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 ENERGY CODE.

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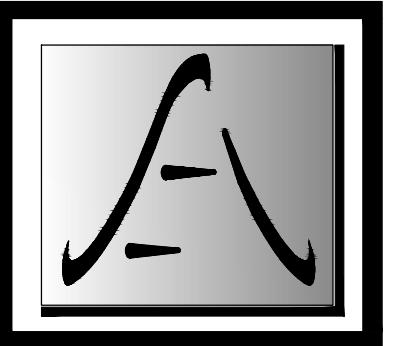
CONTRACT: **ELECTRICAL**

TITLE: REPLACE GENERATORS

LOCATION: HOLLAND AVENUE OFFICE BUILDING
44 HOLLAND AVE
ALBANY, NY

CLIENT: OFFICE OF GENERAL SERVICES

MARK	DATE	DESCRIPTION
△	10/17/2025	ADDENDUM 6
	03-24-2025	BID DOCUMENT
PROJECT NUMBER: 47362 - E		
DESIGNED BY:	SM	
DRAWN BY:	SM	
FIELD CHECK:	-	
APPROVED:	-	
SHEET TITLE: BASEMENT INSTALLATION PLAN		
DRAWING NUMBER: E-106		

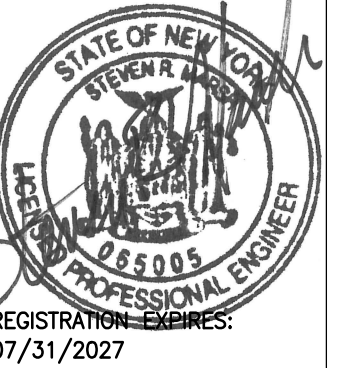


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CONTRACT: **ELECTRICAL**

TITLE: REPLACE GENERATORS

LOCATION: HOLLAND AVENUE OFFICE BUILDING
44 HOLLAND AVE
ALBANY, NY

CLIENT: OFFICE OF GENERAL SERVICES

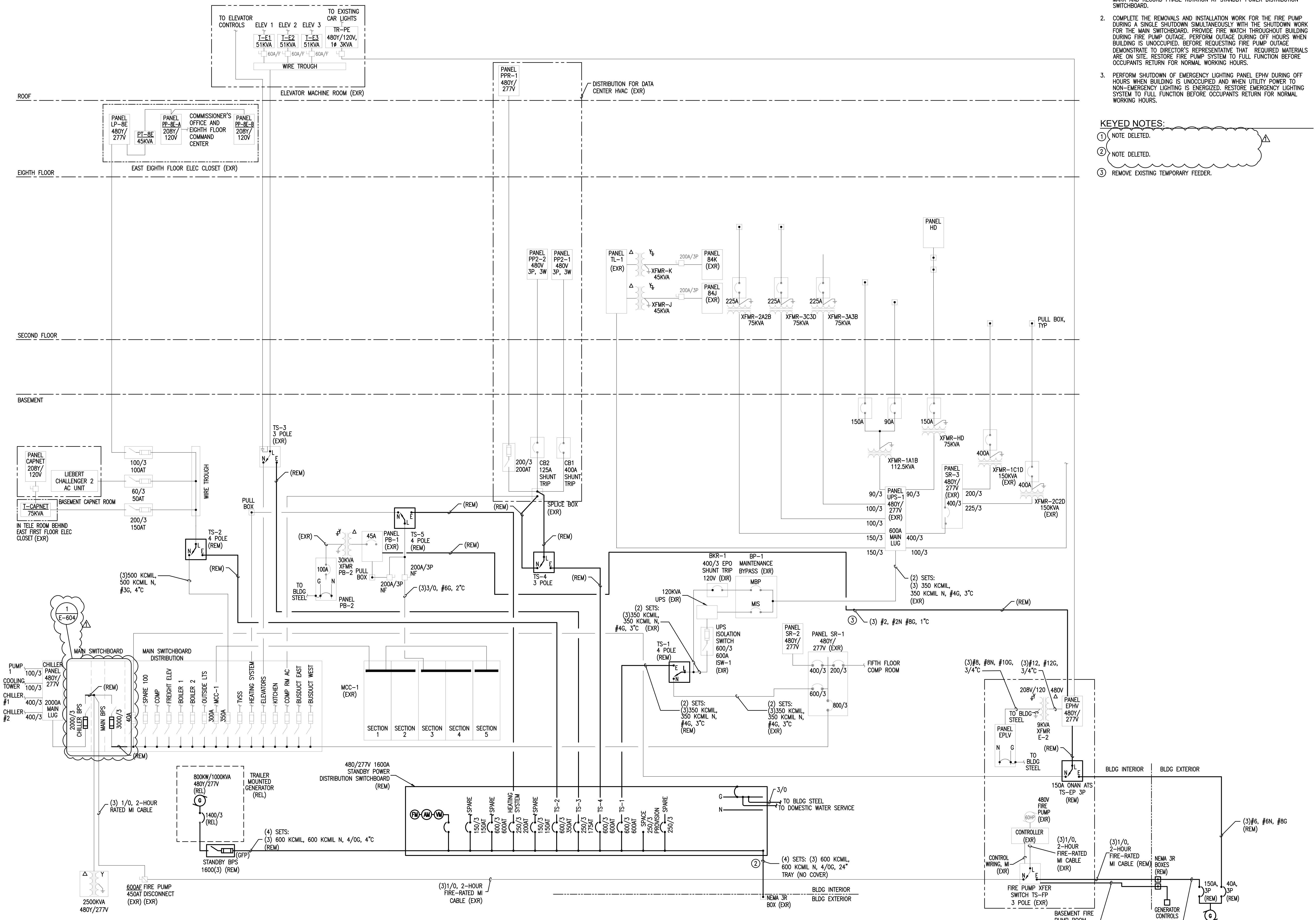
MARK	DATE	DESCRIPTION
△	10/17/2025	ADDENDUM 6
	03-24-2025	BID DOCUMENT
PROJECT NUMBER: 47362 - E		
DESIGNED BY: SM		
DRAWN BY: SM		
FIELD CHECK: -		
APPROVED: -		
SHEET TITLE: PARTIAL SINGLE LINE DIAGRAM REMOVALS		
DRAWING NUMBER: E-601		
SHEET 19 OF 25		

GENERAL NOTES:

- PRIOR TO DISCONNECTING 800KW/1000KVA GENERATOR, START GENERATOR, MARK AND RECORD PHASE ROTATION AT STANDBY POWER DISTRIBUTION SWITCHBOARD.
- COMPLETE THE REMOVALS AND INSTALLATION WORK FOR THE FIRE PUMP DURING A SINGLE SHUTDOWN SIMULTANEOUSLY WITH THE SHUTDOWN WORK FOR THE MAIN SWITCHBOARD. PROVIDE FIRE WATCH THROUGHOUT BUILDING DURING FIRE PUMP OUTAGE. PERFORM OUTAGE DURING OFF HOURS WHEN BUILDING IS UNOCCUPIED. BEFORE REQUESTING FIRE PUMP OUTAGE DEMONSTRATE TO DIRECTOR'S REPRESENTATIVE THAT REQUIRED MATERIALS ARE ON SITE. RESTORE FIRE PUMP SYSTEM TO FULL FUNCTION BEFORE OCCUPANTS RETURN FOR NORMAL WORKING HOURS.
- PERFORM SHUTDOWN OF EMERGENCY LIGHTING PANEL EPHV DURING OFF HOURS WHEN BUILDING IS UNOCCUPIED AND WHEN UTILITY POWER TO NON-EMERGENCY LIGHTING IS ENERGIZED. RESTORE EMERGENCY LIGHTING SYSTEM TO FULL FUNCTION BEFORE OCCUPANTS RETURN FOR NORMAL WORKING HOURS.

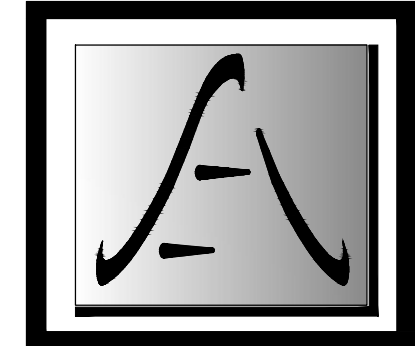
KEYED NOTES:

- NOTE DELETED.
- NOTE DELETED.
- REMOVE EXISTING TEMPORARY FEEDER.



PARTIAL SINGLE LINE DIAGRAM REMOVALS
SCALE: NTS

REVISED DRAWING 10/17/2025



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REGISTRATION EXPIRES: 07/31/2027

CONTRACT: **ELECTRICAL**

TITLE: REPLACE GENERATORS

LOCATION: HOLLAND AVENUE OFFICE BUILDING
44 HOLLAND AVE
ALBANY, NY

CLIENT: OFFICE OF GENERAL SERVICES

MARK	DATE	DESCRIPTION
△	10/17/2025	ADDENDUM 6
	03-24-2025	BID DOCUMENT

PROJECT NUMBER: **47362 - E**

DESIGNED BY: SM

DRAWN BY: SM

FIELD CHECK: -

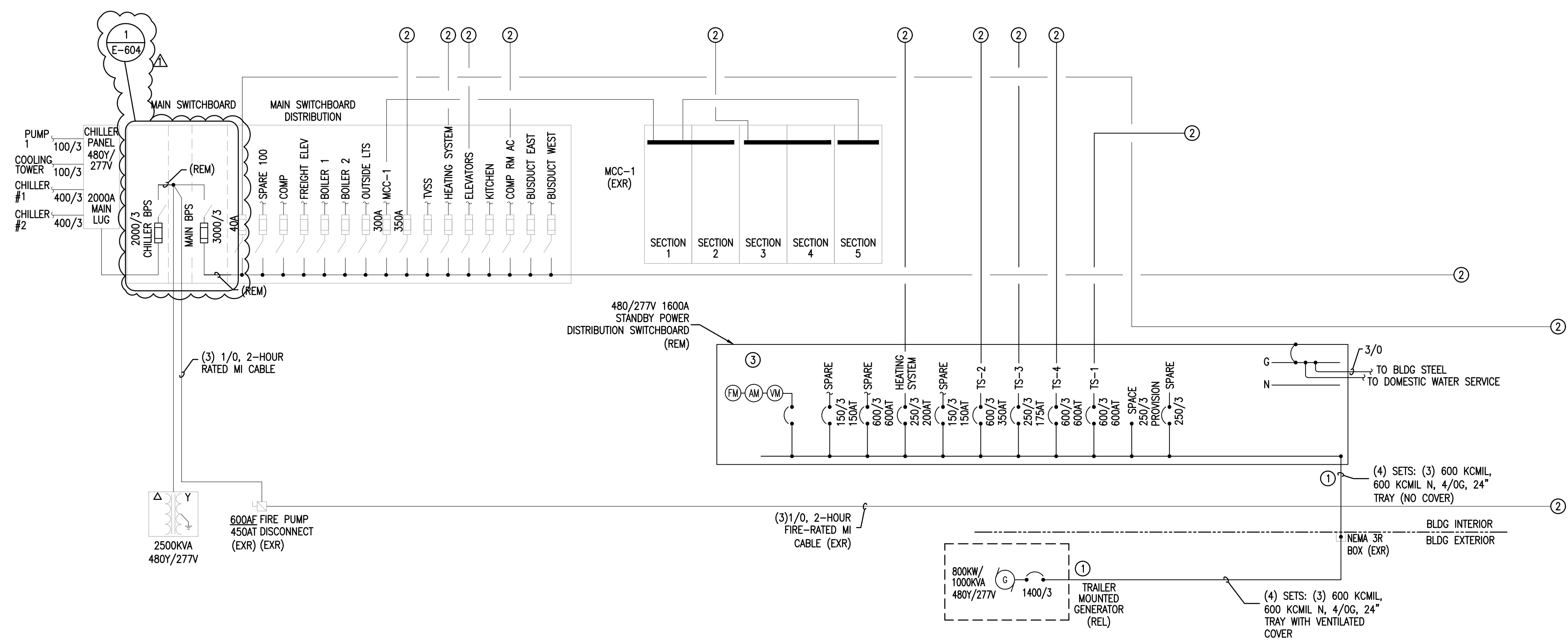
APPROVED: -

SHEET TITLE:

PARTIAL SINGLE LINE DIAGRAM GENERATOR RELOCATION

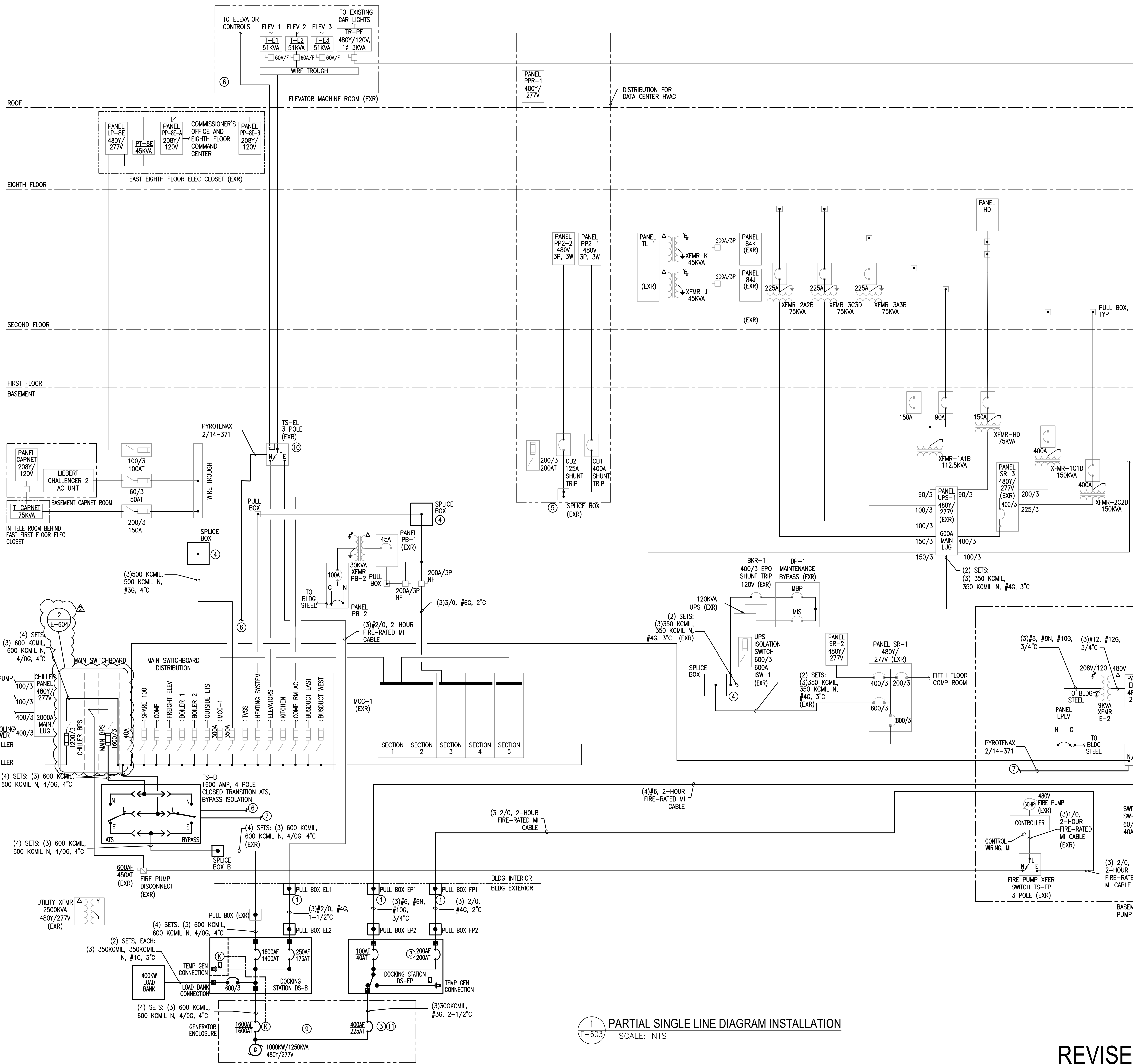
DRAWING NUMBER: **E-602**

- KEYED NOTES:**
- RELOCATE EXISTING 800KW/1000KVA GENERATOR AND PROVIDE AND TEMPORARY FEEDER. DISCONNECT TEMPORARY GENERATOR AND REMOVE TEMPORARY FEEDER UPON SUBSTANTIAL COMPLETION AND COMMISSIONING OF THE PERMANENT GENERATOR.
 - SEE E-601 FOR CONTINUATION.
 - REMOVE SWITCHBOARD AFTER 800KW/1000KVA GENERATOR IS DISCONNECTED.



1 PARTIAL SINGLE LINE DIAGRAM GENERATOR RELOCATION
E-605 SCALE: NTS

REVISED DRAWING 10/17/2025



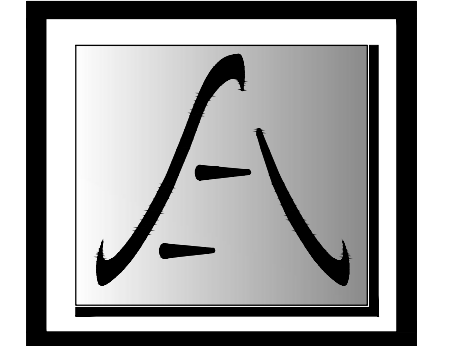
GENERAL NOTES

1. PROVIDE DEDICATED CONTROL CONDUCTORS AND CONDUITS FOR EACH TRANSFER SWITCH FROM TRANSFER SWITCH TO GENERATOR CONTROLLER.
2. PROVIDE BUILDING-WIDE FIRE WATCH WHEN WORK TAKES FIRE PUMP OUT OF SERVICE.
3. RETAIN THE SERVICES OF AN ELEVATOR SERVICE/MAINTENANCE FIRM TO VERIFY PROGRAM: UPON POWER TRANSFER TO GENERATOR, CONTROLLERS RETURN ELEVATORS TO THE DESIGNATED LANDING, AND DISCONNECT FROM THE STANDBY POWER SOURCE. AFTER ALL ELEVATORS HAVE BEEN RETURNED TO THE DESIGNATED LEVEL, ONE ELEVATOR SHALL REMAIN OPERABLE FROM THE STANDBY POWER SOURCE.
4. COMPLETE THE REMOVALS AND INSTALLATION WORK FOR THE FIRE PUMP DURING A SINGLE SHUTDOWN SIMULTANEOUSLY WITH THE SHUTDOWN WORK FOR THE MAIN SWITCHBOARD. PROVIDE FIRE WATCH THROUGHOUT BUILDING DURING FIRE PUMP OUTAGE. PERFORM OUTAGE DURING OFF HOURS WHEN BUILDING IS UNOCCUPIED. BEFORE REQUESTING FIRE PUMP OUTAGE DEMONSTRATE TO DIRECTOR'S REPRESENTATIVE THAT REQUIRED MATERIALS ARE ON SITE. RESTORE FIRE PUMP SYSTEM TO FULL FUNCTION BEFORE OCCUPANTS RETURN FOR NORMAL WORKING HOURS. OBSERVE AND MARK FIRE PUMP ROTATION ON FIRE PUMP PRIOR TO SHUTDOWN. VERIFY FIRE PUMP ROTATION AFTER POWER RESTORATION.
5. PERFORM SHUTDOWN OF EMERGENCY LIGHTING PANEL EPHV DURING OFF HOURS WHEN BUILDING IS UNOCCUPIED AND WHEN UTILITY POWER TO NON-EMERGENCY LIGHTING IS ENERGIZED. RESTORE EMERGENCY LIGHTING SYSTEM TO FULL FUNCTION BEFORE OCCUPANTS RETURN FOR NORMAL WORKING HOURS.

KEYED NOTES:

- ① PROVIDE PULL BOXES TO TRANSITION FROM MI CABLE TO CONDUIT AND WIRE.
- ② VERIFY CIRCUIT TO TWO POLE 15 AMP BREAKER IN PANEL EPHV THAT SUPPLIES FEED TO ELEVATOR CAR LIGHTS.
- ③ PROVIDE MANUFACTURER COORDINATED BREAKER PAIR TO ASSURE BREAKER COORDINATION.
- ④ PROVIDE PULL BOX TO REPLACE TRANSFER SWITCH ENCLOSURE. PROVIDE CONDUCTORS TO EXTEND SUPPLY AND LOAD SIDE OF FEEDER. PROVIDE COMPRESSION CONNECTORS AND INSULATE CONNECTORS WITH HOT- OR COLD-SHRINK INSULATION.
- ⑤ SPLICE CONDUCTORS IN EXISTING PULL BOX. PROVIDE CONDUCTORS TO EXTEND SUPPLY AND LOAD SIDE OF FEEDER. PROVIDE COMPRESSION CONNECTORS AND INSULATE CONNECTORS WITH HOT- OR COLD-SHRINK INSULATION.
- ⑥ CONNECT 'INHIBIT RETRANSFER' TERMINALS IN TS-EL TO AUXILIARY CONTACTS IN TRANSFER SWITCH TS-B TO INDICATE TS-B 'CONNECTED TO GENERATOR'.
- ⑦ CONNECT 'INHIBIT RETRANSFER' TERMINALS IN TS-EP TO AUXILIARY CONTACTS IN TRANSFER SWITCH TS-B TO INDICATE TS-B 'CONNECTED TO GENERATOR'.
- ⑧ PROVIDE CONDUCTORS TO EXTEND EXISTING CONDUCTORS TO TRANSFER SWITCH TERMINALS. PROVIDE COMPRESSION CONNECTORS AND INSULATE CONNECTORS WITH HOT- OR COLD-SHRINK INSULATION.
- ⑨ PROVIDE BARRIERS BETWEEN BREAKERS TO PLACE EACH BREAKER IN ITS OWN COMPARTMENT.
- ⑩ RE-IDENTIFY TRANSFER SWITCH TS-3 AS TS-EL.
- ⑪ PROVIDE MEANS TO PADLOCK BREAKER HANDLE IN THE CLOSED POSITION.

1 PARTIAL SINGLE LINE DIAGRAM INSTALLATION
SCALE: NTS

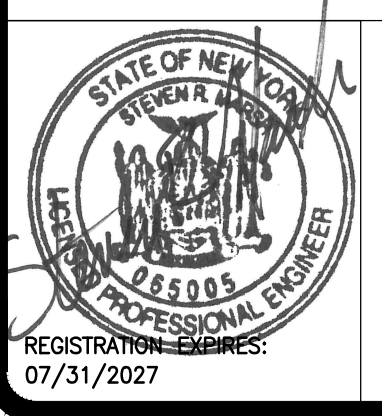


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CONTRACT: **ELECTRICAL**

TITLE: REPLACE GENERATORS

LOCATION: HOLLAND AVENUE OFFICE BUILDING
44 HOLLAND AVE
ALBANY, NY

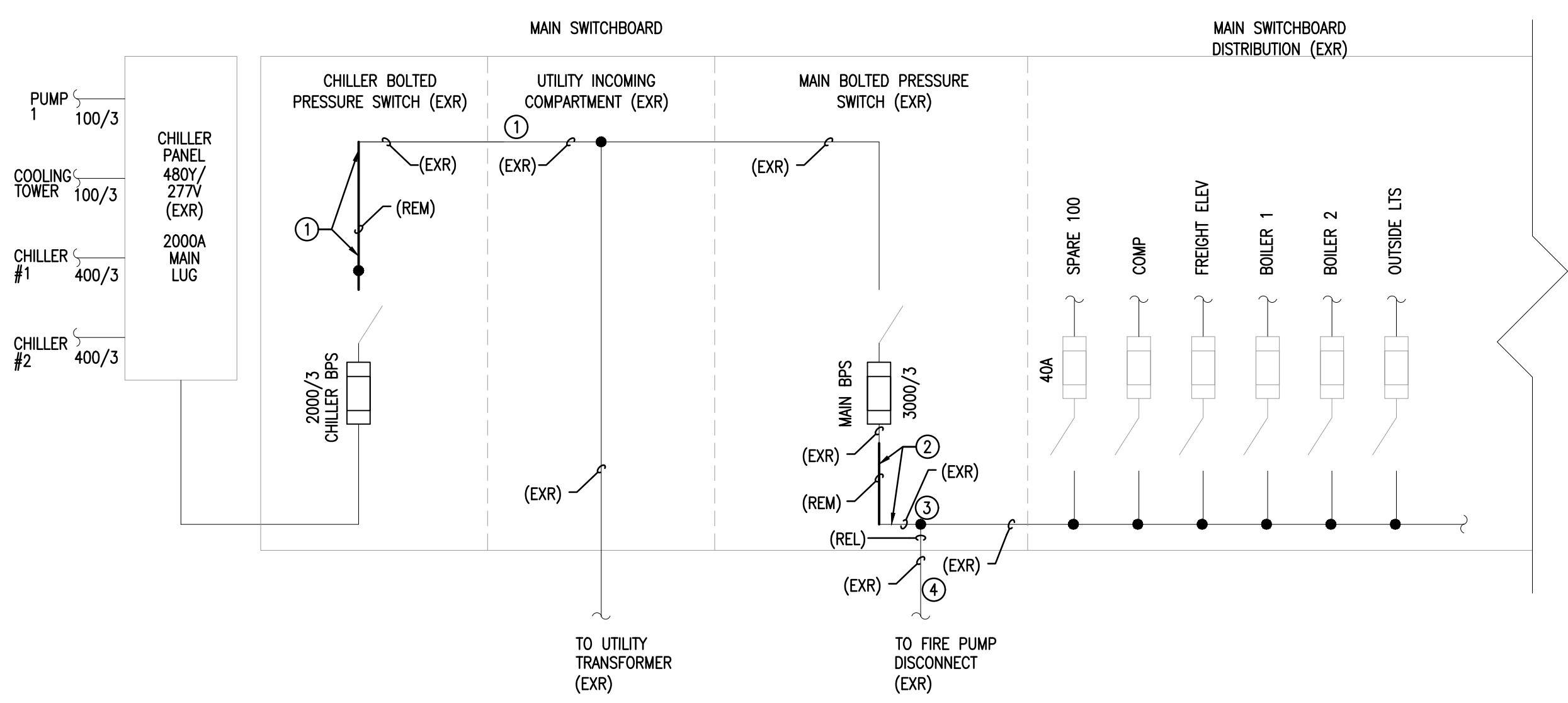
CLIENT: OFFICE OF GENERAL SERVICES

MARK	DATE	DESCRIPTION
△	10/17/2025	ADDENDUM 6
△	09/12/2025	ADDENDUM 1
	03-24-2025	BID DOCUMENT

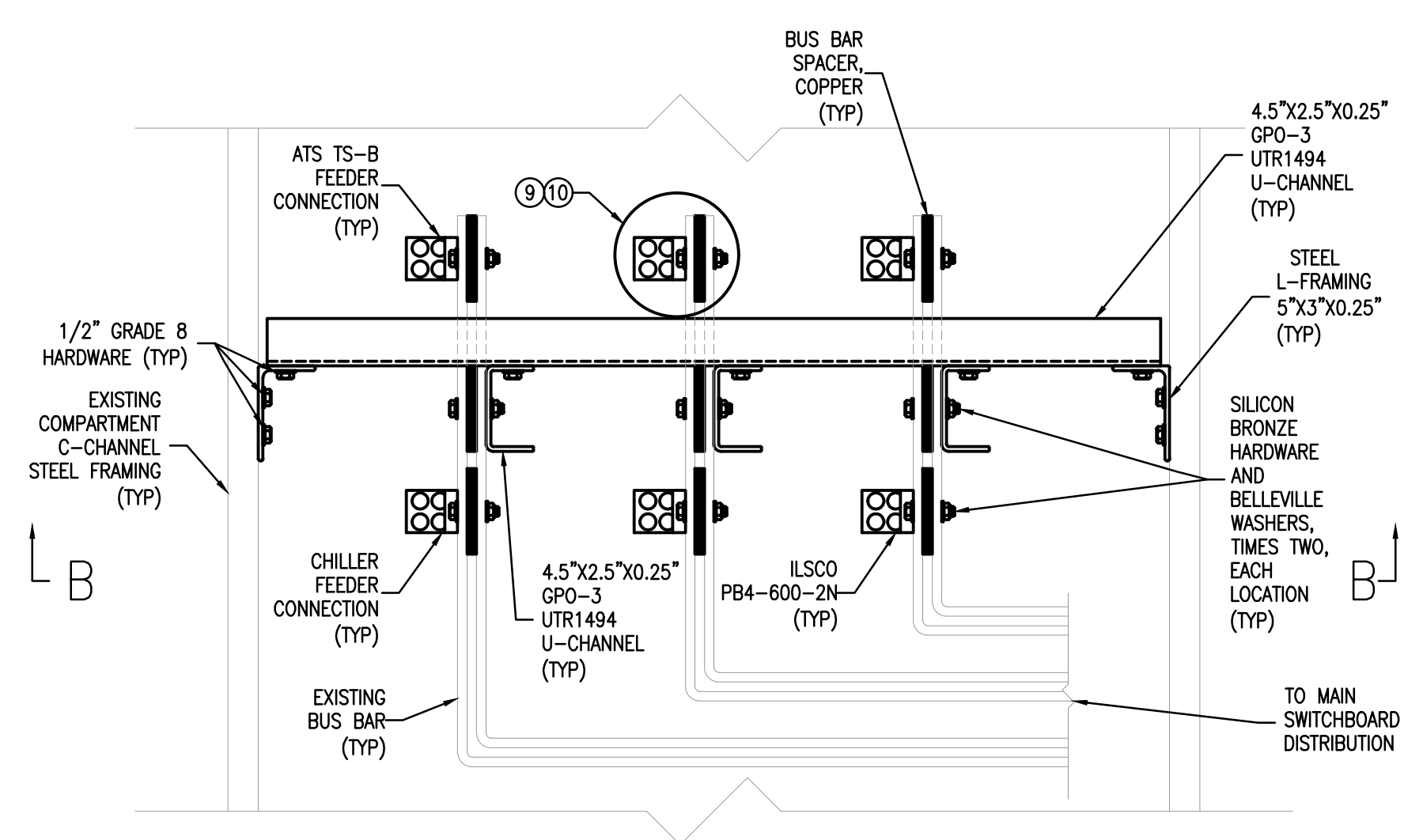
PROJECT NUMBER:	47362 - E
DESIGNED BY:	SM
DRAWN BY:	SM
FIELD CHECK:	-
APPROVED:	-
SHEET TITLE:	PARTIAL SINGLE LINE DIAGRAM INSTALLATION

DRAWING NUMBER:	E-603
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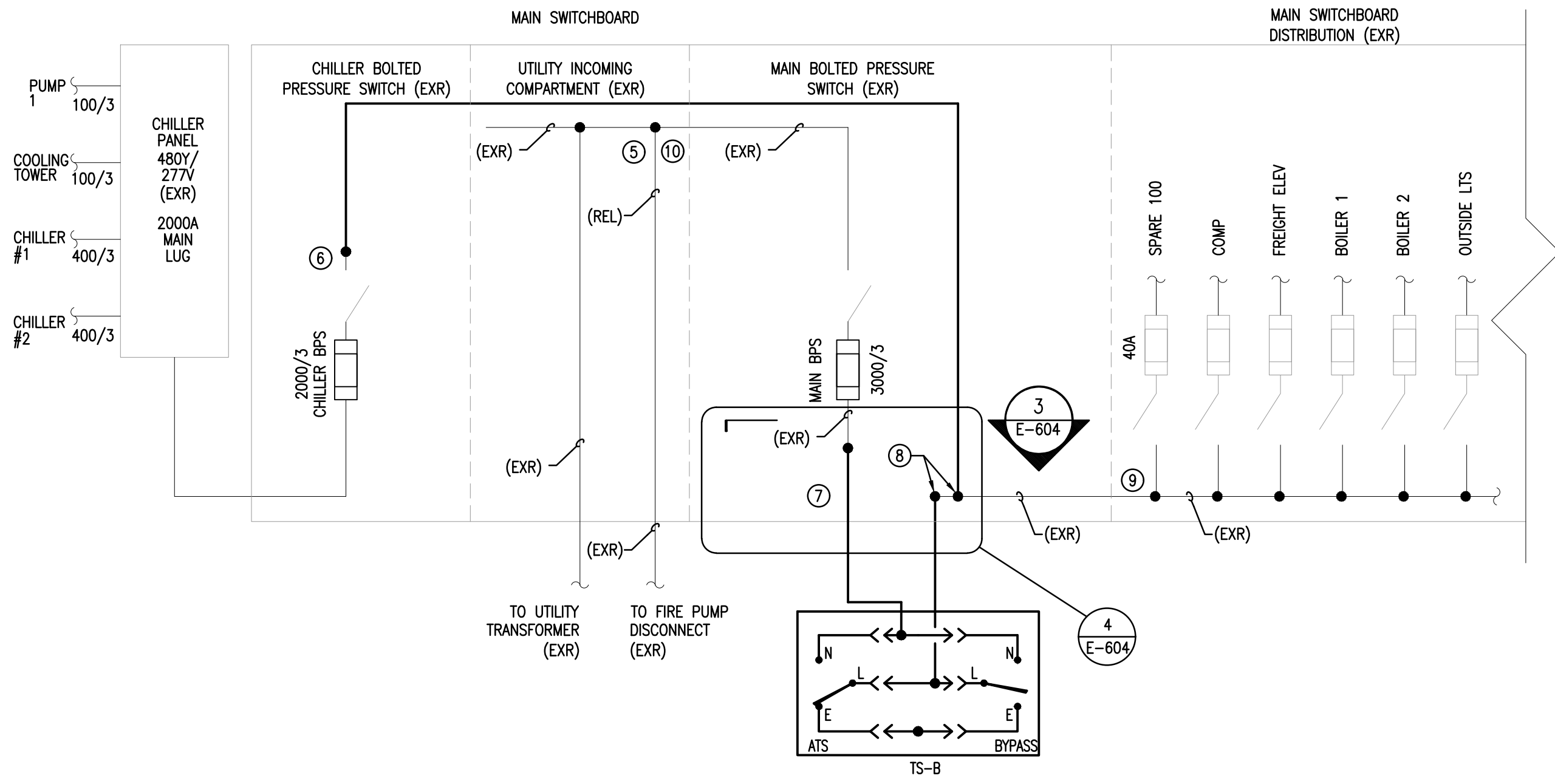
REVISED DRAWING 10/17/2025



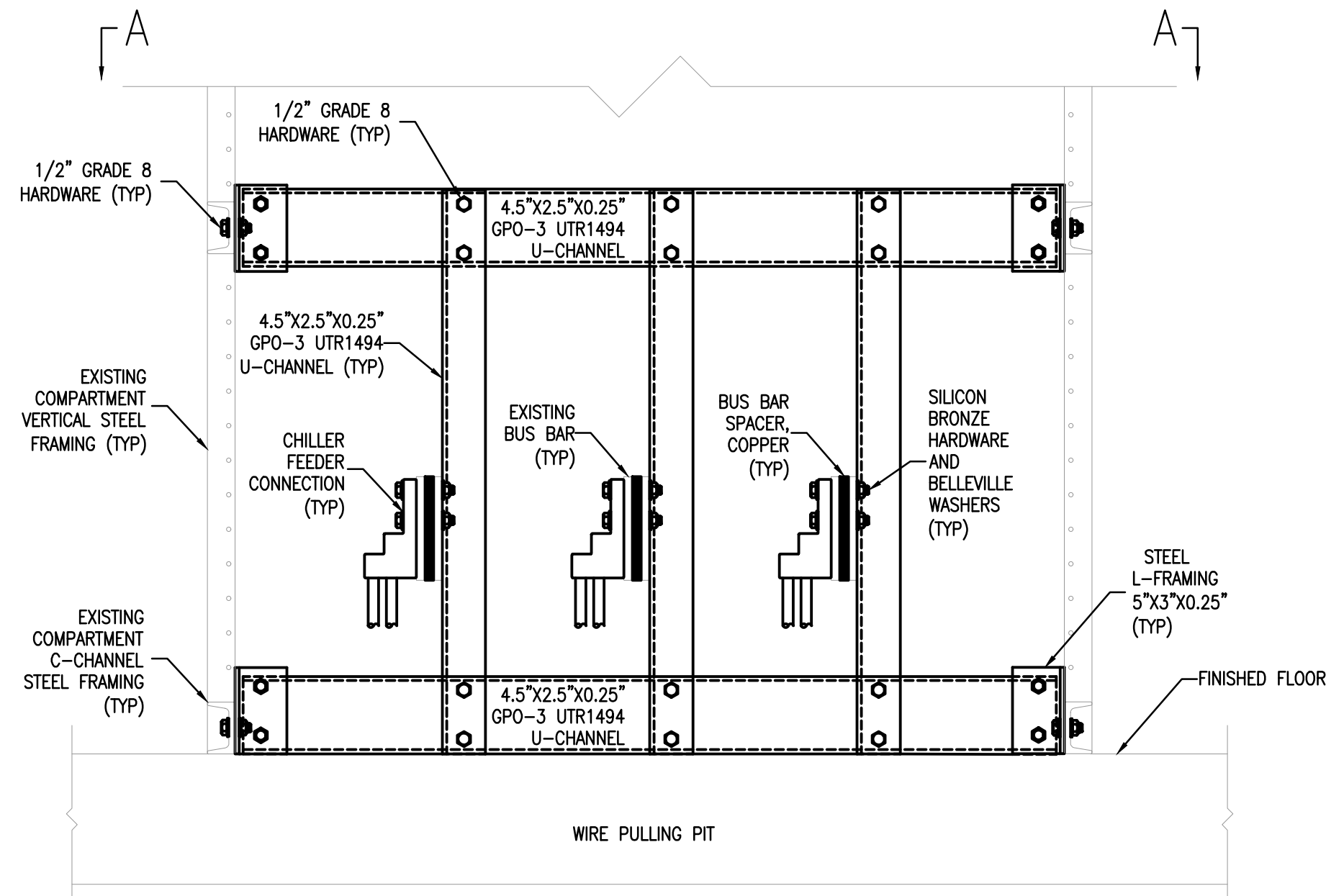
1 MAIN SWITCHBOARD REMOVALS DETAIL
E-604 SCALE: NTS



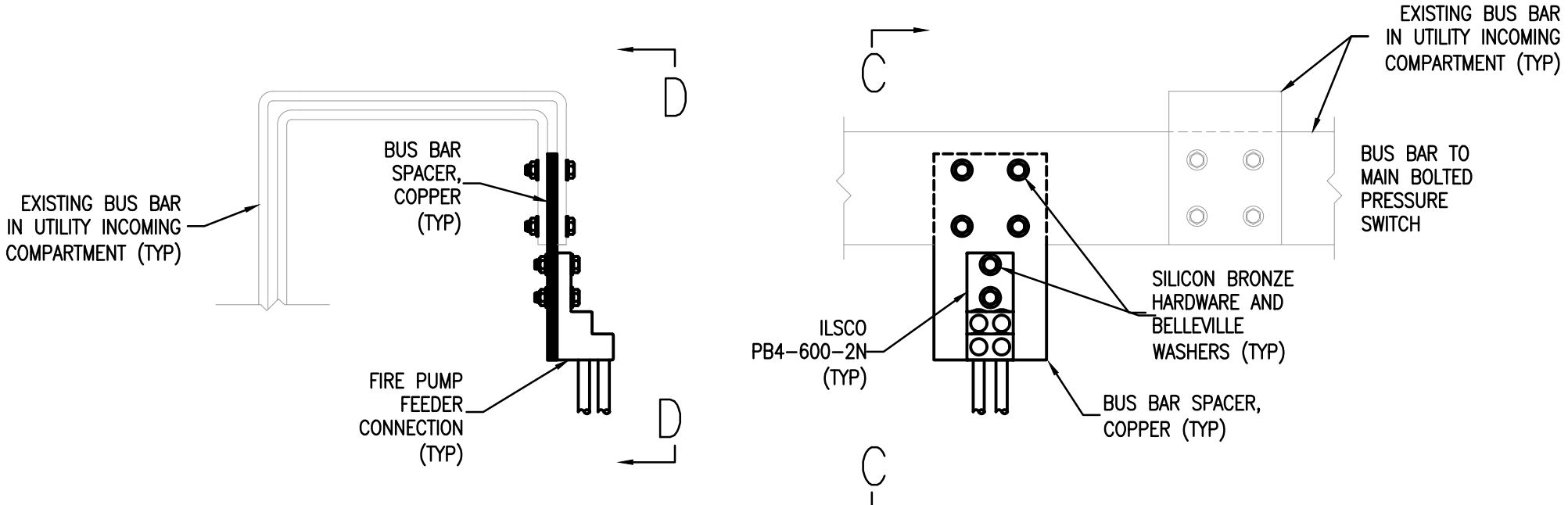
3 MAIN BOLTED PRESSURE SWITCH BUS BAR MODIFICATIONS
E-604 SCALE: NTS



2 MAIN SWITCHBOARD INSTALLATION DETAIL
E-604 SCALE: NTS



4 MAIN BOLTED PRESSURE SWITCH BUS BAR MODIFICATIONS
E-604 SCALE: NTS



5 FIRE PUMP FEEDER BUS BAR MODIFICATIONS
E-604 SCALE: NTS

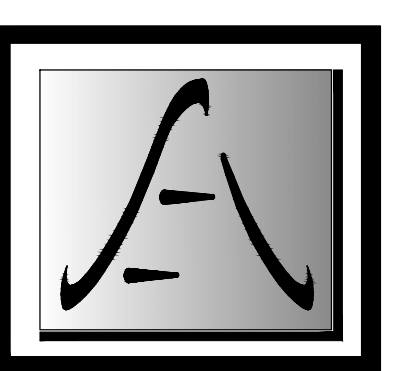
NOTES:
1. MODIFICATIONS SHOWN FOR ONE PHASE. PROVIDE INDICATED MODIFICATIONS FOR ALL THREE PHASES.

GENERAL NOTES

- REFER TO E-601, E-602, AND E-603 FOR CONDUCTOR AND CONDUIT INFORMATION.
- MAKE NEUTRAL CONNECTIONS AND TERMINATIONS WITHIN THE MAIN DISTRIBUTION SWITCHBOARD FOR FEEDERS TO AND FROM ATS TS-B. PROVIDE TERMINATIONS AT EXISTING BUS BARS AS SHOWN FOR PHASE CONDUCTORS.
- PROVIDE THYSSEN KRUPP #PLCHA37549 FOR GPO-3 UTR1494 U-CHANNEL.
- USE OF SALVAGED SECTIONS OF BUS BAR, REMOVED FROM LOAD SIDE TERMINALS OF MAIN BOLTED PRESSURE SWITCH, PERMITTED FOR USE AS COPPER SPACERS BETWEEN EXISTING BUS BARS. THOROUGHLY CLEAN SALVAGED BUS BAR AND EXISTING BUS BAR BEFORE ASSEMBLY.
- REFER TO SPECIFICATION SECTION 262413 SWITCHBOARDS FOR ADDITIONAL INFORMATION.

KEYED NOTES:

- REMOVE VERTICAL BUS BETWEEN UTILITY INCOMING COMPARTMENT AND CHILLER BOLTED PRESSURE SWITCH. EXISTING SUPPORTS FOR REMAINING BUS SECTION IN UTILITY COMPARTMENT TO REMAIN.
- REMOVE VERTICAL SECTION AND MODIFY BUS BAR SECTIONS TO SEPARATE LOAD SIDE OF MAIN BOLTED PRESSURE SWITCH FROM MAIN DISTRIBUTION SWITCHBOARD BUS. PROVIDE SUPPORT FOR REMAINING BUS SECTIONS IN BOLTED PRESSURE SWITCH COMPARTMENT.
- DISCONNECT FIRE PUMP FEEDER FROM BUS BAR TAP AT BOTTOM (LOAD SIDE) OF MAIN BOLTED PRESSURE SWITCH. PRESERVE EXISTING CONDUCTORS AND MECHANICAL TERMINATIONS/LUGS FOR RECONNECTION. MARK FIRE PUMP CONDUCTORS FOR PHASING BEFORE RELOCATING.
- FIRE PUMP CONDUCTORS FED FROM TOP OF COMPARTMENT, CONNECTING TO BUS BAR TAP AT BOTTOM OF COMPARTMENT. EXPOSED FEEDER BETWEEN MAIN SWITCHBOARD AND FIRE PUMP DISCONNECT EXISTING TO REMAIN.
- RECONNECT FIRE PUMP CONDUCTORS TO BUS BARS AT TOP OF UTILITY INCOMING COMPARTMENT. MAINTAIN ORIGINAL FEEDER PHASING.
- TERMINATE AT LINE SIDE OF CHILLER BOLTED PRESSURE SWITCH. PROVIDE CABLE TERMINATIONS AND HARDWARE.
- TERMINATE AT LOAD SIDE OF MAIN BOLTED PRESSURE SWITCH. PROVIDE CABLE TERMINATIONS AND HARDWARE.
- TERMINATE AT EXISTING BUS BARS FOR MAIN SWITCHBOARD DISTRIBUTION THAT EXTEND INTO MAIN BOLTED PRESSURE SWITCH COMPARTMENT. PROVIDE CABLE TERMINATIONS AND HARDWARE.
- MAKE NEUTRAL CONNECTIONS AND TERMINATIONS WITHIN THE MAIN DISTRIBUTION SWITCHBOARD FOR FEEDERS TO AND FROM ATS TS-B. PROVIDE TERMINATIONS AT EXISTING NEUTRAL BUS BARS WITH BUS BAR COPPER SPACER, SILICON BRONZE HARDWARE, AND MECHANICAL LUG AS IS SHOWN FOR PHASE CONDUCTORS.
- MAKE FIRE PUMP FEEDER CONNECTIONS AND TERMINATIONS WITHIN THE UTILITY INCOMING COMPARTMENT. AT THE EXISTING TOP BUS BAR SECTIONS, WITH BUS BAR COPPER SPACER, SILICON BRONZE HARDWARE, AND MECHANICAL LUG AS IS SHOWN FOR ATS TS-B AND CHILLER FEEDER CONDUCTORS.

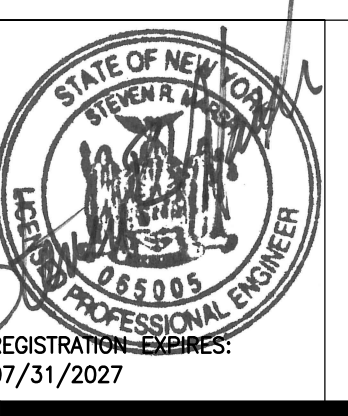


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TITLE: REPLACE GENERATORS

LOCATION: HOLLAND AVENUE OFFICE BUILDING
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ALBANY, NY

CLIENT: OFFICE OF GENERAL SERVICES

MARK	DATE	DESCRIPTION
▲	10/17/2025	ADDENDUM 6
	03-24-2025	BID DOCUMENT

PROJECT NUMBER: **47362 - E**
DESIGNED BY: SM
DRAWN BY: SM
FIELD CHECK: -
APPROVED: -
SHEET TITLE:

MAIN SWITCHBOARD MODIFICATION DETAILS

DRAWING NUMBER: E-604