



STATE OF NEW YORK
OFFICE OF GENERAL SERVICES
DESIGN AND CONSTRUCTION GROUP
THE GOVERNOR NELSON A. ROCKEFELLER
EMPIRE STATE PLAZA
ALBANY, NY 12242



ADDENDUM NO. 1 TO PROJECT NO. 42308

**CONSTRUCTION WORK, HVAC WORK, ELECTRIC WORK
REPLACE LOCKING SYSTEM, 'B' BLOCK,
BUILDING No. 34
SING SING CORRECTIONAL FACILITY
354 HUNTER STREET
OSSINING, NY**

March 28, 2013

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.

SPECIFICATION GROUP

1. Page 011000 – 1, Change Subparagraph 1.04 B.1 to Read:
 1. After fence is installed in the corner of Cell Block B, by the 'C' Contractor, install and secure Main Distribution Panelboard (MDP-DL). Provide feeders, conduits, and associated equipment from switchgear in the basement of Building No. 36 to Panelboard MDP-DL on the first floor of Building No. 34. Provide Panelboard PP-1 and connect feeders to it.
2. 262416 PANELBOARDS: Discard the Section bound in the Project Manual, and substitute the accompanying Sections (pages 262416 – 1 thru 262416 – 4) noted "Revised 3/28/2013."

DRAWINGS

CONSTRUCTION WORK DRAWINGS

3. Drawing A-101, In Specific Note 3 revise IAL-4 to EAL-3.

ELECTRICAL WORK DRAWINGS

4. Drawing No. EP2.01:
 - a. Note 1: Change "PROVIDE 3P-600 AMP GE ELECTIC TRIP SPECTRA RMS" TO "PROVIDE A 3 POLE 800 AMP FRAME, 700 AMP ELECTRONIC TRIP GE MICRO VERSA TRIP CIRCUIT BREAKER"

5. Drawing No. EP2.02:
 - a. Change Note 2 to read:

“PROVIDE MAIN DISTRIBUTION PANELBOARD MDP-DL – 120/208V, 3Φ, 4-WIRE. MDP SHALL BE FREE STANDING TYPE EQUIPMENT AND FRONT ACCESSIBLE ONLY. MDP SHALL BE INSTALLED ON A HOUSE KEEPING PAD SIZED TO SUIT EQUIPMENT BEING PROVIDED. MOUNTING, BRACING AND SUPPORT SHALL BE PER MANUFACTURERS RECOMMENDATIONS.”
 - b. Add Note 5 to read:

“HOUSE KEEPING PAD OF MDP-DL SHALL BE A 4000 PSI CONCRETE PAD WITH WIRE MESH FILL. HOUSE KEEPING PAD SHALL HAVE A HEIGHT OF 4” AND SHALL EXTEND 4” BEYOND THE PANELBOARD ON ALL SIDES.”
6. Drawing No. EP2.04:
 - a. Note 5: Add to note 5 “PENETRATION INTO BLDG. No. 34 AND ASSOCIATED PULLBOX SHALL BE NO CLOSER THAN 3 FEET FROM THE ADJACENT RECREATIONAL YARD FENCE, AND BE AT THE HEIGHT OF BOTTOM OF THE SECOND FLOOR.”
 - b. Change SCALE to Read: “SCALE: 1” = 25’ – 0”.”
7. Drawing No. EP4.01:
 - a. Note 13: Change “ABANDON CABLES AND CONDUIT IN PLACE” to “REMOVE THE CONDUCTORS BETEWEEN THE SWITCHBOARD IN BUILDING No. 36 AND BUILDING No. 34. CONDUIT SHALL BE ABANDONED IN PLACE.”
7. Drawing No. EP5.01:
 - a. Conductors and conduit between Building No. 36 and Building No. 34 shall be changed to read “2 SETS OF 4-500KCMIL AND 1-#1/0 GND EACH IN 4”C & 1 SPARE 4”C.”
 - b. Change the conduit riser and feeder conductors between panelboard MDP-DL and Pull Box at fourth floor from “NEW 2 SETS OF 4-250KCMIL + 1-#2 GND IN 2 1/2” CND” to read “2 SETS OF 4-250KCMIL + 1-#2 GND EACH IN 2 1/2” CND.”
 - c. Change the name of MDP-34 to MDP-31.
 - d. Note 1: Change “PROVIDE NEW 800A BREAKER. DISCONNECT EXISTING FEEDERS TO CATV PANELS FROM (2) 200A BREAKERS AND CONNECT EXISTING FEEDERS TO NEW 800A BREAKER TO BE USED FOR MDP-DL MAIN FEED.” to “PROVIDE A 3 POLE 800 AMP FRAME, 700 AMP ELECTRONIC TRIP GE MICRO VERSA TRIP CIRCUIT BREAKER”
8. Drawing No. EP6.01:
 - a. Provide a spare 3 pole 200 ampere trip circuit breaker in Panelboard MDP-DL.
9. Drawing No. E7.01:
 - a. Delete Drawing No. E7.01 in its entirety.

END OF ADDENDUM

James Dirolf, P.E.
Director of Design

SECTION 262416

PANELBOARDS

PART 1 GENERAL

1.01 REFERENCES

- A. NEMA, UL.

1.02 SUBMITTALS

- A. Waiver of Submittals: The “Waiver of Certain Submittal Requirements” in Section 013300 does not apply to this Section.
- B. Submittal Packages: Submit the shop drawings, product data, and the quality control submittals specified below at the same time as a package.
- C. Shop Drawings; include the following for each panelboard:
 - 1. Cabinet and gutter size.
 - 2. Voltage and current rating.
 - 3. Panelboard short circuit rating. Fully Rated Equipment Rating is required. Series rated Equipment is not acceptable.
 - 4. Circuit breaker enumeration (frame, ATE, poles, I.C.).
 - a. Indicate circuit breakers are suitable for the panelboards’ Fully Rated Equipment Rating.
 - 5. A coordinated selective scheme between the main circuit breaker and branch/feeder circuit breakers so that under fault conditions the branch/feeder circuit breaker clears the fault while the main circuit breaker remains closed.
 - 6. Power and Energy Meter
 - 7. Accessories.
- D. Product Data:
 - 1. Catalog sheets, specifications and installation instructions.
 - 2. Bill of materials.
- E. Quality Control Submittals:
 - 1. List of Completed Installations: If brand names other than those specified are proposed for use, furnish the name, address, and telephone number of at least 5 comparable installations that can prove the proposed products have operated satisfactorily for one year.
 - 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. 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.

PART 2 PRODUCTS

2.01 PANELBOARDS

- A. As produced by Cutler-Hammer/Eaton Corp. (Eaton EZ Trim shall not be considered), General Electric Co., Siemens or Square D Co., having:
1. Free standing cabinet.
 2. Increased gutter space for gutter taps, sub-feed wiring, through-feed wiring, oversize lugs.
 3. SUITABLE FOR USE AS SERVICE EQUIPMENT.
 4. Door and one piece trim. Door fastened to trim with butt or piano hinges. Trim fastened to cabinet with devices having provision for trim adjustment.
 5. Yale No. 511S locks with brass cylinder rosette, blind fastened from inside of door. 2 No. 47 keys with each lock (Exception: Not more than 7 keys, total).
 6. Solid copper bus bars. 800 ampere rating of bus bars.
 7. Full capacity copper neutral bus in panelboard.
 8. Copper equipment grounding bus in panelboard.
 9. Sections designated "space" or "provision for future breaker" equipped to accept future circuit breakers.
 10. Directory.
 11. Short circuit rating not less than indicated on panelboard schedule. Furnish panelboard having Fully Rated Equipment Rating (the short circuit rating of the panelboard is equal to the lowest interrupting rating of any device installed in the panelboard).
 12. Integral panel mounted Power and Energy Meter:
 - a. Same manufacturer as the panelboard.
 - b. Current transformers shall be factory wired to shorting blocks.
 - c. Backlit LCD display.
 - d. Communications capabilities: Serial.
 - e. Records Line Current, Line Voltage, Phase Voltage, and power factor.
 - f. True RMS 3-phase voltage, current, and power that meets ANSI C12.20 0.2, Class 2, 10, and 20.
 - g. 5MB log/event memory, waveform logging up to 96 cycles with pre-event waveform capture, min/max, timestamp, and historical trends through front panel.
 - h. I/O includes 8 digital inputs, 4 digital outputs, and 3 onboard relays.

13. Molded case, bolt-on circuit breakers:
 - a. Mounting: Individually mounted main circuit breaker (when MCB is required), and group mounted branch/feeder circuit breakers to accommodate the circuit breaker style and panelboard construction.
 - b. Components: See panelboard schedule for specific components required for each circuit breaker. In addition to the specific components, equip each circuit breaker with additional components as required to achieve a coordinated selective scheme between the main circuit breaker and the branch/feeder circuit breakers.
 - c. Single pole 15 ATE and 20 ATE circuit breakers marked SWD where used as switches.

2.02 SURGE PROTECTIVE DEVICES

- A. General: Panelboard shall be provided with factory installed directly to bus, internal modular Surge Protective Device (SPD) equipment having:
 1. ANSI/UL 1449 3rd Edition compliant – Listed Category C, Type 2 with protected modes for 208/120 volt, 3 phase, 4 wire Wye configured system: L-G, L-N, L-L and N-G.
 2. Rating (ANSI / IEEE C62.41 location Category C): The minimum surge current capacity the device is capable of withstanding shall be 250 kA per phase, 125 kA per mode minimum.

2.03 NAMEPLATES

- A. General: Precision engrave letters and numbers with uniform margins, character size minimum 3/16 inch high.
 1. Phenolic: Two color laminated engravers stock, 1/16 inch minimum thickness, machine engraved to expose inner core color (white).
 2. Aluminum: Standard aluminum alloy plate stock, minimum .032 inches thick, engraved areas enamel filled or background enameled with natural aluminum engraved characters.
 3. Materials for Outdoor Applications: As recommended by nameplate manufacturer to suit environmental conditions.

PART 3 EXECUTION

3.01 INSTALLATION

- A. Install panelboards in accordance with NEMA Publication No. PB1.1 “General Instructions for Proper Installation, Operation and Maintenance of Panelboards Rated 600 Volts or Less”.
- B. Directory: Indicate on typewritten directory the equipment controlled by each circuit breaker, and size of feeder servicing panelboard. For power panelboards also include ATE rating and feeder size for each breaker.

- C. Remove the neutral to ground system bonding jumper in the panelboard and turn it over to the Director's Representative.

- D. Identification:
 - 1. Use nameplates, or stencil on front of each panelboard with white paint, "LP-1, PP-1, etc." in 1/2 inch lettering corresponding to panelboard designations on the drawings, and electrical parameters (phase, wire, voltage).
 - 2. Install a nameplate on each panelboard that explains the means of identifying each ungrounded system conductor by phase and system. Examples of nameplate statements:
 - a. Identification of 120/240 Volt Circuit Conductors:
 - 2 wire circuit - white*, black.
 - 3 wire circuit - white*, black, red.
 - 4 wire circuit - white*, black, red, blue.

*White is used only as neutral. Where neutral is not required, black, red, or black, red, blue is used for phase to phase circuits.

END OF SECTION