



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. 2 TO PROJECT NO. 44609

**CONSTRUCTION WORK
REMOVE PEDESTRIAN WALKWAY & BRIDGE
SING SING CORRECTIONAL FACILITY
354 HUNTER STREET
OSSINING, NY**

August 5, 2015

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. DOCUMENT 024116 STRUCTURE DEMOLITION: Delete subparagraph 024116, 1.04, k. in its entirety.
2. DOCUMENT 265629 STREET LIGHTING AND GROUNDS LIGHTING: Add the accompanying document (pages 265629-1 thru 265629-6) to the Project Manual.

DRAWINGS

3. DRAWING C-101:
 - a. West Stairs Site Plan Detail: Change the note that reads:
"REPAIR ABUTMENT FOOTPRINT AND DISTURBED AREA AROUND IT WITH SUBBASE AND ASPHALT PAVEMENT TO MATCH EXISTING"
to read:
"REPAIR ABUTMENT FOOTPRINT AND DISTURBED AREA AROUND IT WITH SUBBASE COURSE NYSDOT TYPE 2 TO MEET EXISTING FINISHED GRADE."
4. DRAWING S-3:
 - b. Detail Nos. 2/S-3 and 3/S-3: Change the note that reads:
"LIGHT POLE AND CONDUITS TO BE REMOVED UNDER ELECTRIC CONTRACT (TYPICAL)"
to read:
"REMOVE ALL LIGHT POLES MOUNTED ON EAST AND WEST WALKWAYS, MOUNTED ON BRIDGE AND THREE LUMINAIRES MOUNTED ON FENCE. REMOVE CONDUCTORS AND CONDUITS MOUNTED ON WALKWAYS AND BRIDGE ASSOCIATED WITH LIGHT CIRCUIT. TRACE OUT POWER SOURCE (PANELBOARD) SERVING LIGHTING CIRCUIT AND DISCONNECT CONDUCTORS FROM SOURCE."

5. DRAWING No. E-100,

- c. Add the following note:
TO REPLACE THE EXISTING PARKING LOT LIGHTING BEING REMOVED BY THIS CONTRACT, PROVIDE TWO (2) LIGHTING STANDARDS AS DETAILED ON DRAWING NO. E-105 AND AS SPECIFIED IN SECTION 265629.
1. LOCATE ONE LIGHTING STANDARD APPROXIMATELY 30 FEET NORTH OF EXISTING POWER PULLBOX EPPB-A AND APPROXIMATELY 3 FEET WEST OF THE FENCE. EXACT LOCATION SHALL BE APPROVED BY THE DIRECTOR'S REPRESENTATIVE. (SEE DRAWING NO. E-100 FOR LOCATION OF EPPB-A).
 2. LOCATE ONE LIGHTING STANDARD APPROXIMATELY 30 FEET SOUTH OF EXISTING POWER PULLBOX EPPB-A AND APPROXIMATELY 3 FEET WEST OF THE FENCE. . EXACT LOCATION SHALL BE APPROVED BY THE DIRECTOR'S REPRESENTATIVE.
 3. BETWEEN EACH LIGHTING STANDARD AND EXISTING POWER PULLBOX EPPB-A, PROVIDE 4 #8 AND 1#8 EGC IN ONE INCH DIAMETER UNDERGROUND RIGID FERROUS METAL CONDUIT. AT EXISTING POWER PULLBOX EPPB-A, SPLICE THE CONDUCTORS FEEDING THE TWO LIGHTING STANDARDS TO THE (277 VOLT) LIGHTING CIRCUITS SERVING THE FENCE LIGHTING CIRCUITS ON THE EAST SIDE OF THE METRO-NORTH TRACKS. CONNECT THE FOUR LUMINAIRES ON ALTERNATING CIRCUITS, SO THAT LUMINAIRES ON THE SAME LIGHTING STANDARD ARE NOT CONNECTED TO THE SAME CIRCUIT. OPERATION (CONTROL) OF THE LUMINAIRES SHALL BE WITH THAT OF THE CIRCUITS THEY ARE CONNECTED.
6. ADD DRAWING No. E-105,
- d. Add drawing E-105, titled "GROUNDS LIGHTING". This drawing is attached to this Addendum and becomes part of the bid documents.

END OF ADDENDUM

Margaret F. Larkin
Executive Director
Design and Construction

SECTION 265629

STREET LIGHTING AND GROUNDS LIGHTING

PART 1 GENERAL

1.01 RELATED WORK SPECIFIED ELSEWHERE

- A. Earthwork: Section 310000.

1.02 SUBMITTALS

- A. Waiver of Submittals: The "Waiver of Certain Submittals Requirements" in Section 013300 does not apply to the following products specified in this Section:
 - 1. Lighting standards.
 - 2. Luminaires.
 - 3. Bases.
- B. Product Data: Catalog sheets, specifications and installation instructions. Include candlepower distribution curves for each type fixture if different from Company or catalog number specified.

1.03 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 (Security Supervisor, 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.

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- 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.

PART 2 PRODUCTS

2.01 LUMINAIRES

- A. Luminaire: McGraw Edison Co.'s Power Drawer Area Light Series 1000 Luminaire, having:
 1. High power factor high pressure sodium ballast which maintains lamp wattage within ± 12 percent ± 5 percent variation in line voltage. Ballast shall be multiple tap for use on 120, 208, 240 and 277 volt circuits, capable of starting lamp at -20 degrees F.
 2. Fixture connected for operation on 277 volt circuit.
 3. 150 watt high pressure sodium lamp LU 150 (55 volt).
 4. Slipfitter with calibrated knuckle type adjustment which locks luminaire in desired position with branch circuit wiring run therein (no exposed wiring).
 5. Tenon mounting fitter for dual luminaire installation.
 6. Bronze finish.

2.02 LIGHTING STANDARDS

- A. 16 Foot Height: Aluminum, 4 inch square non-tapered shaft, Lexington Standard Corp.'s Square Straight Aluminum Standards, having:
 1. Finish to match luminaire.
 2. .250 inch wall thickness.
 3. Number and size of anchor bolts as recommended by lighting standard manufacturer. Threaded end hot dipped galvanized for a minimum of 10 inches. Galvanized nut, lockwasher and flatwasher with each bolt.
 4. Template for setting anchor bolts.
 5. One 1/8 inch and two 1/16 inch aluminum shims for each standard.
 6. Provisions for Luminaire Mounting:
 - a. Pole top tenon to accommodate tenon mounted luminaires.
 7. Base cover attached to base with vandal resistant fasteners.
 8. Ground lug at base.

2.03 RACEWAYS

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- A. Rigid Ferrous Metal Conduit: Steel, hot dipped galvanized on the outside and inside (conduit enameled on the inside will not be accepted), UL categorized as Rigid Ferrous Metal Conduit (identified on UL Listing Mark as Rigid Metal Conduit - Steel, or Rigid Steel Conduit), as manufactured by Allied Tube & Conduit Corp., Midwest Electric, Occidental Coating Co., Robroy Industries Inc., Steelduct Conduit Products, Triangle PWC Inc., or Wheatland Tube Co.

2.04 CONCRETE BASES

- A. As detailed on the drawings. Bases may be precast or poured in place.
 - 1. Concrete Foundations (footings), as detailed on drawings and poured in place, having:
 - a. Type III Portland Cement, air-entrained concrete having minimum compressive strength of 5,000 psi at 28 days (and having minimum compressive strength of 2,000 psi at 1 day). Maximum water-cement ratio 0.40.
 - b. Bar Reinforcement: ASTM A 615, Grade 60, deformed steel bars.
 - c. Spiral Paper Tubes:
 - 1) Sonotube by Sonoco Products Co., North Second St., Hartsville, SC 29550, (800) 377-2692.
 - 2) Sleek/tubes by Jefferson Smurfit Corp., P.O. Box 66820, St. Louis, MO 63166, (314) 746-1100.

2.05 FUSE HOLDERS AND FUSES

- A. Enclosed waterproof in-line fuse holders rated 600 volts; Busmann Div. Cooper Industries TRON waterproof fuseholder Symbol HEB with Buss Symbol KTK fuses, or Gould Shawmut's GEB Series with ATM fuses.

2.06 TAGS

- A. Embossed or engraved aluminum tags with one inch high characters stating lighting standard number.

2.07 GROUT

- A. L&M Const. Chemicals Inc.'s Crystex, Protex Industries Inc.'s Propak, Sonneborn's SonogROUT, or U.S. Grout Corp.'s 5 Star Grout.

2.08 THRU WALL SEALING BUSHINGS

- A. For Walls Which Have Or Will Have Membrane Waterproofing:
 - 1. Cast-In-Place Installations: OZ/Gedney Co.'s Type FSK thruwall seal and Type FSKA membrane clamp adapter.
 - 2. Core Drilled or Sleeved Installations: OZ/Gedney Co.'s Type CSM and Type CSMC with membrane clamp adapter.
- B. For Walls Which Will Not Have Membrane Waterproofing:

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1. Cast-In-Place Installations: OZ/Gedney Co.'s Type FSK.
2. Core Drilled or Sleeved Installations: OZ/Gedney Co.'s Type CSM or Thunderline Corp.'s Link-Seal.

2.09 SPLICE CONNECTORS FOR EQUIPMENT GROUNDING CONDUCTOR

- A. Exothermic Type Weld: Erico Products Inc.'s Cadweld Process.
- B. Compression Connectors: AMP Special Industries' Ampact Grounding System, Burdy Corp.'s Hyground System, or Thomas & Betts Corp.'s Grid and Ground Rod System.
- C. Indent Type: Burndy Corp.'s Hydent, or Thomas and Betts Corp.'s Compression Connectors.

2.10 INSULATED GROUNDING BUSHINGS

- A. Appleton Electric Co.'s GIB-50 Series, Efcor Inc.'s 56-50-4 Series, Midwest Electric Mfg. Corp.'s GLL Series, OZ/Gedney Co.'s IBC-50L Series, Raco Inc.'s 1212 Series, or Thomas & Betts Corp.'s 3870 Series.

2.11 LAMPS

- A. As manufactured by General Electric Co., GTE/Sylvania, or Westinghouse Electric Corp.

PART 3 EXECUTION

3.01 PREPARATION

- A. Before installing any Work, lay out the proposed course for the conduits, location of lighting standards, etc. and have same approved.

3.02 INSTALLATION

- A. Lighting Standards:
 1. Install each lighting standard on concrete base.
 2. Prepare a level surface on compacted earth, undisturbed earth or concrete footing. Set bases on the prepared surface. Have all bases checked and approved by the Director's Representative for level and elevation prior to making any conduit connections.
 3. Install lighting standards vertical:
 - a. Use 2 nuts on each anchor bolt. Run first nut down on the thread to the top of the foundation.
 - b. Install pole, run second nut down.
 - c. Adjust pole if necessary, then tighten nuts in accordance with pole manufacturer's recommendations.
 - d. Grout voids between metal base of lighting standard and concrete base. Create a drain through the grout by slipping a short length of

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conduit under the base in the wet grout, projecting it into the large drain hole in the base of the lighting standard. Rotate the conduit to finish the drain, then remove conduit.

B. Conduit System:

1. Use rigid ferrous metal conduit in all locations unless otherwise specified or indicated.
2. Rigid nonmetallic conduit may be used except:
 - a. Where conduits enter lighting standard bases, manholes or buildings (Use 10 foot length of rigid ferrous metal conduit at these locations).
 - b. Where conduits are jacked.
3. Depth: Unless otherwise indicated or directed, install conduits so that the top of the conduits are at least at the following depths:

	BELOW FINISHED GRADE (INCHES)	BELOW TOP SURFACES OF ROADS & PARKING LOTS (INCHES)
Rigid Ferrous Metal Conduit	24	24

4. Conduits Entering Buildings: Conduit entrances into building shall be watertight.
5. Cleaning Conduits: Take precautions to prevent foreign matter from entering conduits during installation. After installation, clean conduits with tools designed for the purpose.
6. Jacking Conduits: Rigid ferrous metal conduit may be jacked under roads, parking lots, etc. Submit jacking details for approval.
7. Concrete encasement is not required for street lighting and grounds lighting conduit system.

C. Grounding:

1. Provide a bare copper equipment grounding conductor (same size as phase conductors) installed within the conduit. Terminate and bond equipment grounding conductor with suitable fitting in panel.
2. Bond lighting standards, conduit and equipment grounding conductors in lighting standard base with indent type splice connectors, insulated grounding bushings and ground lug on standard.
3. Bond rigid ferrous metal conduit in manholes to the equipment grounding conductor.
4. Make grounding splice connections in manholes with exothermic type weld or compression connectors.

D. Fuse Holder and Fuses: Install in base of each lighting standard an inline fuse holder and 5 ampere fuse for each ungrounded conductor. Install fuse holders so that fuse is not energized when fuse holder is uncoupled.

E. Wiring Inside Lighting Standards: Install No. 8 AWG Type THW, XHHW, THWN or Type USE insulated conductors from fuse holder to luminaire.

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- F. Tags: Install aluminum tags with lighting standard numbers thereon. Fasten tags to standards with vandal resistant screws, 4 feet above finished grade, facing roadway.

END OF SECTION