NEW YORK STATE OF OPPORTUNITY. Office of General Services

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

ADDENDUM NO. 2 TO PROJECT NO. 46066-E

ELECTRICAL WORK
PROVIDE NATURAL GAS STANDBY GENERATOR
JOINT FORCES HEADQUARTERS
330 OLD NISKAYUNA ROAD
LATHAM, NY

July 9, 2020

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 263213 – 6, Paragraph 2.01 A: Delete "(Note: Unit is required to meet 110 percent full load test at .8 PF for 2 hours)."

DRAWINGS

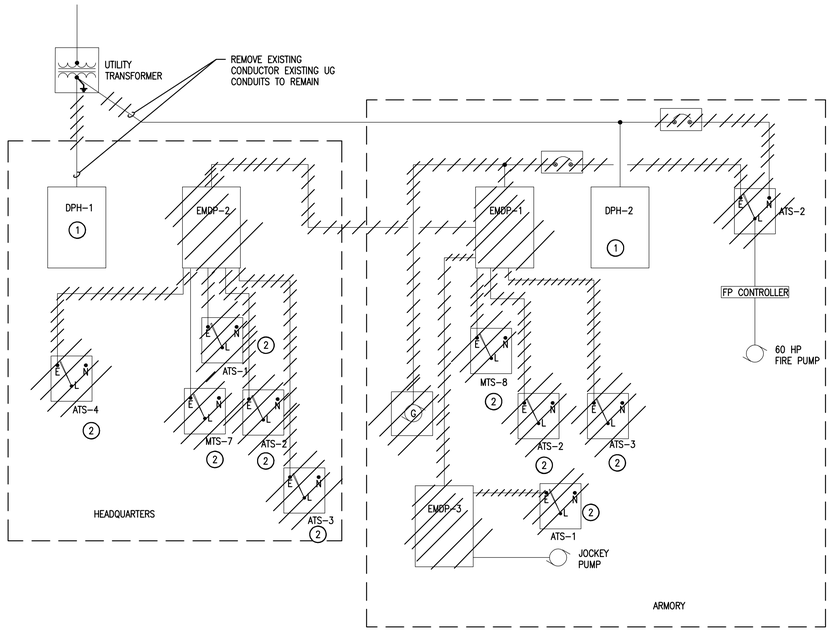
2. Drawing No. E-102:
   a. KEYED NOTES:, add the following sentence to the end of keyed note 1.

      "PANEL LPH1-EM IS A SIEMENS S2 250A 480/277V, 3-PHASE, 4-WIRE (CATALOG #I2E42MC250C)."

3. Revised Drawings:
   a. Drawing No. E-501 and E-601 noted "REVISED DRAWING 7/8/2020" accompany this Addendum and supersede the same numbered originally issued drawings.

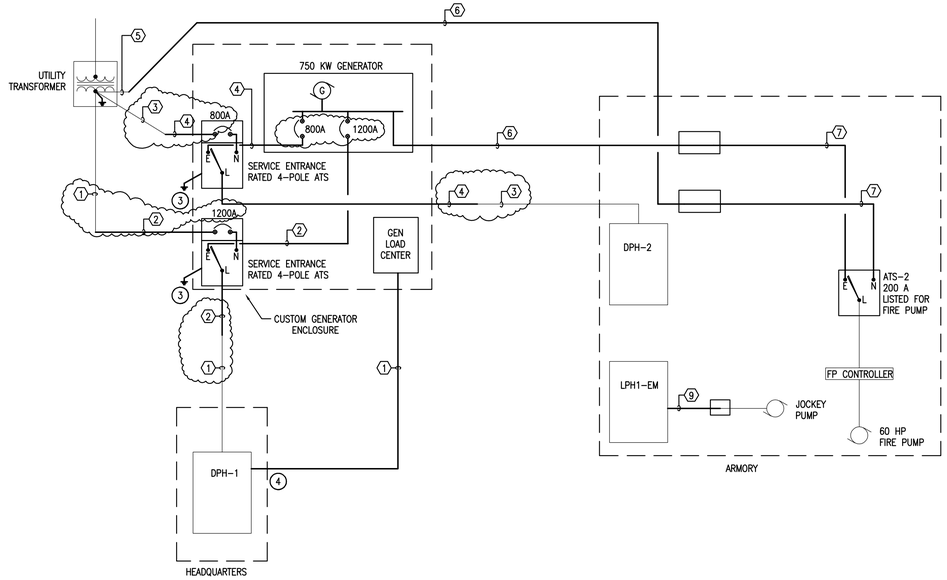
END OF ADDENDUM

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



1 E-501 REMOVAL SINGLE-LINE DIAGRAM

SCALE: NTS



2 E-501 SINGLE-LINE DIAGRAM

SCALE: NTS

ITEM #	CONDUIT AND WIRE LEGEND DESCRIPTION
1	2 SETS – (4) 500 KCMIL, #2/0 G, IN EXISTING 4"C
2	2 SETS – (4) 500 KCMIL, #2/0 G, 4"C
3	3 SETS – (4) 600 KCMIL, #3/0 G, IN EXISTING 4"C
4	3 SETS – (4) 600 KCMIL, #3/0 G, 4"C
5	(3) #2, #2 G, IN EXISTING 1-1/2"C
6	(3) #2, #2 G, 1-1/2"C
7	(3) #2, #2 G, MI CABLE
8	(4) #2, #6G, 1"C
9	(3) #12, #12G, 3/4"C

GENERAL NOTES:

1. REMOVALS INDICATED BY HATCHING

KEYED NOTES:

1. REMOVE NEUTRAL – GROUND BOND.
2. REMOVE INTERIOR COMPONENTS OF TRANSFER SWITCH. REMOVE ALL EXISTING LABELING, INCLUDING MANUFACTURER'S LABELING. PROVIDE LABEL INDICATING "SPLICE BOX." REMOVE EMERGENCY FEEDER CONDUIT AND CONDUCTORS BACK TO SOURCE AS INDICATED. PROVIDE PLUG IN ENCLOSURE FROM REMOVED EMERGENCY FEEDER CONDUIT. SPLICE NORMAL FEEDER CONDUCTORS TO LOAD CONDUCTORS IN ENCLOSURE.
3. PROVIDE SERVICE ENTRANCE GROUNDING, INCLUDING NEUTRAL – GROUND BOND ATS BREAKER. PROVIDE (4) GROUND RODS 1' FROM EACH CORNER OF GENERATOR PAD. PROVIDE #3/0 GROUND LOOP AROUND GENERATOR PAD CONNECTING ALL (4) GROUND RODS. PROVIDE #3/0 GROUNDING ELECTRODE CONDUCTORS FROM EACH SERVICE ENTRANCE ATS TO A GROUND ROD. PROVIDE #3/0 TO BOND PAD REBAR, GENERATOR ENCLOSURE, GENERATOR ENGINE BLOCK, GENERATOR FRAME, ALTERNATOR GROUND BUS, AND LOAD CENTER GROUND BUS TO GROUND RING.
4. PROVIDE FEEDER TO GENERATOR LOAD CENTER FROM EXISTING 100A/3P SPARE BREAKER.

REVISED DRAWING - 7/8/2020

36x24 PLOT SHEET

NEW YORK STATE OF OPPORTUNITY. Office of General Services

DESIGN & CONSTRUCTION

CONSULTANT

SAGE ENGINEERING ASSOCIATES, LLP

WARNING:
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CONTRACT: ELECTRICAL

TITLE: PROVIDE NATURAL GAS STANDBY GENERATOR JOINT FORCES HEADQUARTERS

LOCATION: 330 OLD NISKAYUNA ROAD LATHAM, NY 12110

CLIENT: DIVISION OF MILITARY AND NAVAL AFFAIRS

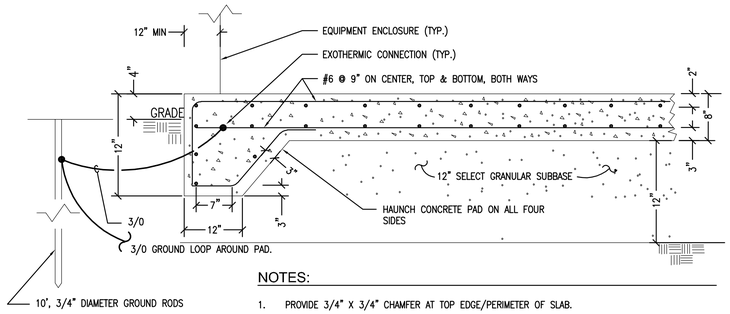
MARK	DATE	DESCRIPTION
	7/8/2020	ADDENDUM 2
	5/21/2020	FINAL SUBMISSION

PROJECT NUMBER:	46066-E
DESIGNED BY:	GC
DRAWN BY:	JT
FIELD CHECK:	XX
APPROVED:	MM

SHEET TITLE: SINGLE-LINE DIAGRAMS

DRAWING NUMBER: E-501

SHEET 15 OF 16



NOTES:

1. PROVIDE 3/4" X 3/4" CHAMFER AT TOP EDGE/PERIMETER OF SLAB.
2. PROVIDE WINDOWS, OPENINGS, AND PENETRATIONS IN SLABS TO MATCH EQUIPMENT REQUIREMENTS.
3. DO NOT PLACE CONCRETE IN COLD WEATHER UNLESS FOLLOWING COLD WEATHER PRACTICES PER ACI AND PER SPECIFICATIONS.
4. CONDUITS NOT TO EXTEND MORE THAN 2" ABOVE PAD.
5. PROVIDE CRANE SERVICES TO OFFLOAD EQUIPMENT FROM DELIVERY VEHICLE ONTO PAD.
6. PROVIDE ANCHOR BOLTS SET IN PLACE PRIOR TO CONCRETE POUR. PROVIDE TEMPLATE TO SECURE BOLTS IN PLACE DURING CONCRETE CURING.

1 GENERATOR PAD DETAIL
E-601 SCALE: NTS

EQUIPMENT NAME
XXX VOLTS, X PH, X WIRE
FED FROM PANEL XXX
CIRCUIT XX, XX, XX
PHASE ROTATION CW/CCW

NOTES:

1. EXAMPLE PLATE SHOWN.
2. REFER TO SPECIFICATIONS FOR PLACEMENT AND LOCATIONS.
3. PROVIDE FOR ALL EQUIPMENT PROVIDED, INSTALLED, OR MODIFIED UNDER THIS CONTRACT.
4. PROVIDE MINIMUM 1/4" HEIGHT WHITE LETTERING ON BLACK BACKGROUND.
5. ATTACH WITH STAINLESS STEEL RIVETS.
6. VERIFY PHASE ROTATION FOR EQUIPMENT IS CLOCKWISE (CW) OR COUNTER-CLOCKWISE (CCW) TO MATCH SITE ROTATION.

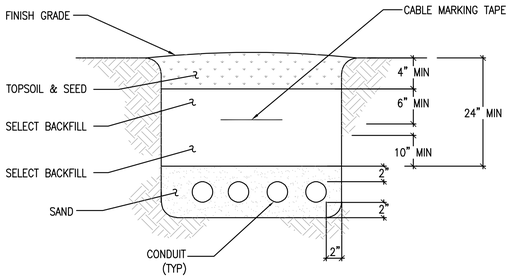
2 EQUIPMENT ID PLATE
E-601 SCALE: NTS

NOTICE
BUILDING IS SERVED BY A STANDBY GENERATOR THROUGH AN AUTOMATIC TRANSFER SWITCH. GENERATOR IS LOCATED BEHIND HEADQUARTERS. THIS MAIN BREAKER IS BUILDING DISCONNECT. BUILDING SERVICE DISCONNECT IN BREAKER OF SERVICE RATED ATS LOCATED INSIDE OF GENERATOR ENCLOSURE

NOTES:

1. PROVIDE THE WORD "NOTICE" IN MINIMUM 1/2" HIGH LETTERING. PROVIDE MINIMUM 1/4" HIGH LETTERING FOR THE OTHER TEXT.
2. PROVIDE WHITE LETTERING ON BLACK BACKGROUND.
3. ATTACH WITH STAINLESS STEEL RIVETS.
4. ATTACH TO SERVICE MAIN ECB IN ARMORY GENERATOR ROOM AND TO DPH-1 IN HEADQUARTERS ELECTRICAL ROOM. TYPICAL OF 2.

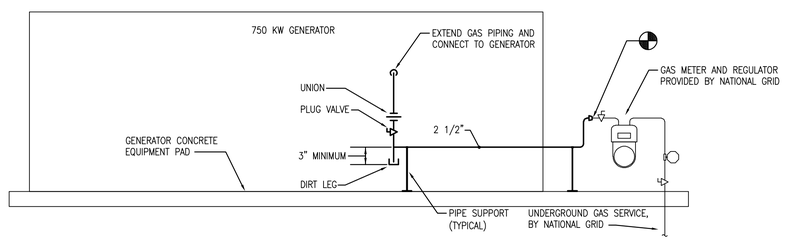
3 GENERATOR NOTICE PLATE
E-601 SCALE: NTS



NOTES:

1. REFER TO SPECIFICATIONS FOR MINIMUM SPACINGS BETWEEN CONDUITS.
2. CONDUIT SIZE AND CONFIGURATION VARIES. ADJUST QUANTITIES TO MATCH SPECIFIC CONDUIT RUN CROSS SECTION CONFIGURATION. REFER TO SITE PLANS, ONE-LINE DIAGRAMS, AND DETAILS FOR CONDUIT SIZE AND QUANTITY.
3. PROVIDE MINIMUM 2 INCHES SAND BED BETWEEN BOTTOM OF CONDUIT AND TRENCH FLOOR, BETWEEN CONDUIT AND TRENCH WALL, AND BETWEEN TOP OF CONDUIT AND SELECT BACKFILL.
4. COMPACT SAND AND SELECTED BACKFILL TO 95% MAXIMUM DRY DENSITY AS DETERMINED BY MODIFIED PROCTOR TESTING.

4 TRENCHING DETAIL
E-601 SCALE: NTS



5 GENERATOR GAS PIPING DETAIL
E-601 SCALE: N.T.S.

TO THE BEST OF OUR KNOWLEDGE, THIS TANK CONFORMS WITH NYS DEC PBS REGULATIONS 6 NYCRR PART 614

LOCATION: LATHAM

MANUFACTURER: HIGHLAND TANK-STI-P3

DATE MANUFACTURED: 12/30/1990

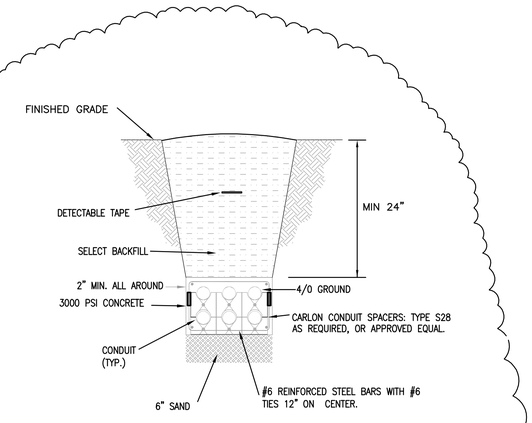
DATE INSTALLED: 4/1/1991

TANK NO: TANK # 10

TANK TYPE: DW FIBERGLASS COATED STEEL

CAPACITY: 2000 GAL

7 EXISTING TANK PLACARD
E-601 SCALE: NTS



NOTES:

1. REFER TO SPECIFICATIONS FOR MINIMUM SPACINGS BETWEEN CONDUITS.
2. CONDUIT SIZE AND CONFIGURATION VARIES. ADJUST QUANTITIES TO MATCH EXISTING DUCT BANK CROSS SECTION CONFIGURATION. REFER TO SITE PLANS, ONE-LINE DIAGRAMS, AND DETAILS FOR CONDUIT SIZE AND QUANTITY.
3. COMPACT SAND AND SELECTED BACKFILL TO 95% MAXIMUM DRY DENSITY AS DETERMINED BY MODIFIED PROCTOR TESTING.

6 TRENCHING DETAIL - DUCT BANK
E-601 SCALE: NTS

GENERAL NOTES:

1. UNDERGROUND CONDUIT CAN BE EITHER RGS OR CONCRETE ENCASED PVC PER SPECIFICATIONS. EXISTING UNDERGROUND FEEDERS MUST BE INTERCEPTED. MATERIAL OF EXISTING UNDERGROUND CONDUIT IS UNKNOWN.
2. EXISTING GENERATOR IS TO BE REMOVED THROUGH EXISTING DOUBLE DOORS. EXISTING GENERATOR IS A CUMMINS 350KW GENERATOR. IT IS APPROXIMATELY 12' X 5' AND WEIGHS APPROXIMATELY 7000 LBS.

REVISED DRAWING - 7/8/2020

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SHEET 16 OF 16