# TOWN OF GLASTONBURY GL-2015-18 Transfer Station Electrical Service Upgrade

# ADDENDUM NO. 1 12/18/14

Bid Due Date: 12/23/14 @ 11:00 A.M.

The attention of bidders submitting proposals for the above-referenced project is called to the following Addendum to the specifications. The items set forth herein, whether of omission, addition, substitution or other change, are all to be included in and form a part of the proposed Contract Documents for the work. Bidders shall acknowledge this Addendum in the Bid Proposal by inserting its number on Page BP-1.

Question 1: Who will provide temporary power?

**Answer:** Temporary power for the entire site is the responsibility of the bidder.

# REVISED SPECIFICATION AND DRAWING ATTACHED:

- **Replace:** Specification Section 16400 with the attached **REVISED** Section 16400 in its entirety.
- **Replace:** Drawing E-1 with the attached **REVISED** Drawing E-1

Note: This addendum consists of 5 pages including the above text and 1 revised drawing (see attached)

**END OF TEXT** 

#### REVISED SECTION 16400 - SERVICE AND DISTRIBUTION

# PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

- A. The General Provisions of the Contract, including General and Supplementary Conditions and General Requirements. Apply to the work specified in this Section.
- B. The General Requirements in Section 16000 shall also govern the work under this Section.
- C. Examine all drawings, data, and coordinate the work of this Section with all related and adjoining work.

# 1.2 DESCRIPTION OF WORK

- A. Includes but is not limited to:
  - 1. Underground secondary service conduits and cables.
  - 2. Grounding.
  - 3. Feeder distribution.
  - 4. Main service disconnect.
  - 5. Panelboards.
  - 6. Encapsulated transformer
  - 7. Generator connection cabinet (GCC).
  - 8. Mini-power center
  - 9. Double throw switch.
  - 10. Free standing disconnect enclosure.

# 1.3 QUALITY ASSURANCE

- A. Codes and Standards: Refer to Section 16000.
- B. Northeast Utilities construction and installation standards.

# 1.4 SUBMITTALS

A. Shop Drawings: Submit for all items listed in paragraph 1.2, Description of Work.

#### PART 2 - PRODUCTS

# 2.1 SECONDARY ELECTRICAL SERVICE

- A. Secondary electrical service will be 200 amp, 3 phase, 4 wire, 480Y/277 volts.
- B. Furnish and install secondary underground service conduit in accordance with Utility Company requirements. Secondary service conductors up to the main service disconnect furnished and installed by the Utility Company.
- C. Secondary service conduits shall be rigid galvanized steel or rigid schedule 40 PVC.

# 2.2 GROUNDING

- A. Provide #2 AWG copper service ground cable in conduit to grounding rod system.
- B. Refer to Section 16060 for equipment, conduit, and panelboard grounding.
- 2.3 ENCLOSED MAIN DISCONNECT SWITCH (200A.).
  - A. 200A rated, 3 pole circuit breaker in NEMA 3R enclosure as manufactured by Cutler-Hammer.

# 2.4 PANELBOARDS

- A. Distribution panels shall be furnished in Cutler-Hammer or equal in General Electric or Square D. Specific types for various applications listed in panel schedule.
- B. Panelboards shall be equipped with the following features:
  - 1. Bolt-on circuit breakers.
  - 2. Symmetrical interiors.
  - 3. Surface or flush trim as called for in schedule, door-in-door type.
  - 4. Flush key catch lock.
  - 5. Painted finish, ANSI-61 gray.
  - 6. Metal frame/plastic cover index card holder.
  - 7. Separate equipment ground bus.
  - 8. Fast latch trim and jacking screw adjustment.
  - 9. Split neutral.
  - 10. Connection accessible from front.
  - 11. Screw type mechanical lugs.
  - 12. Density rated 1000A/sq. in. copper busses.
  - 13. AL/CU ground bus.
  - 14. Black face/white core engraved nameplate fixed to panel with two screws or rivets.
- D. Mini power center shall be as scheduled on the drawings. Proposed equals in General Electric or Square D will be considered only if all aspects of the specification are met.

- E. Indexing and Identification: After installations are complete, provide and mount under sturdy transparent shield in the directory frame of each panel door a neat, accurate and carefully typed directory properly identifying the lighting, receptacles, outlets and equipment which each branch circuit breaker controls.
- F. All circuit breakers feeding mechanical equipment shall be 'HCAR' rated.
- G. All circuit breakers shall be fully rated. Series rated breakers shall not be permitted.

# 2.5 CIRCUIT BREAKERS

- A. All circuit breakers in distribution panels shall be bolt-on type. Circuit breakers in load centers shall be plug-on type.
- B. Circuit breakers shall be fully rated. Series ratings <u>are not</u> acceptable.
- C. Circuit breakers serving motorized equipment shall be 'HACR' rated.
- D. 20 Amp, 1-Pole circuit breakers shall be listed by the Manufacturer for use with #12AWG through #8AWG conductor sizes.

#### PART 3 - EXECUTION

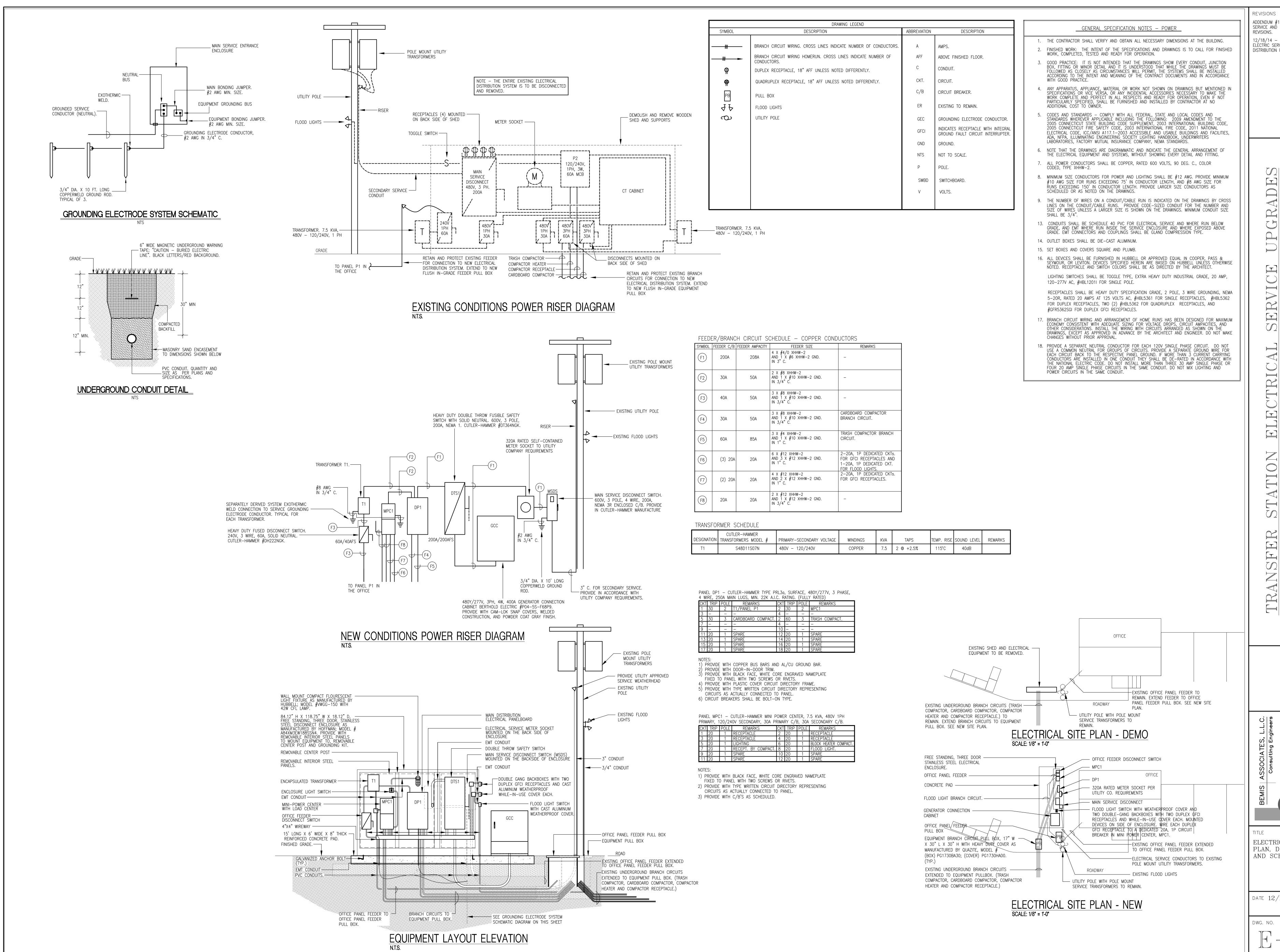
# 3.1 INSTALLATION OF CONDUITS

- A. Contractor, before proceeding with installation of underground conduits, shall ensure that all trenching and excavation is free of rock.
- B. Conduits shall be run in a neat and orderly manner, plumb and true.

#### 3.2 PANELBOARDS

- A. Mount panel 4'-0" to panel center but with maximum height of 6'-0" to handle of topmost switching device.
- B. Provide double locknuts and insulated throat grounding bushings on each conduit entering panel. Run No. 4 stranded bare copper ground wire through each grounding lug and connect to panel box grounding lug.

#### END OF SECTION 16400



EVISIONS ADDENDUM #1 - ELECTRIC SERVICE AND DISTRIBUTION REVISIONS. 2/18/14 - ADDENDUM

LECTRIC SERVICE AND DISTRIBUTION REVISIONS.

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ELECTRICAL SITE PLAN, DETAILS, AND SCHEDULES

DATE 12/12/2014

DWG. NO.

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