

ADDENDUM NO. 1

TO

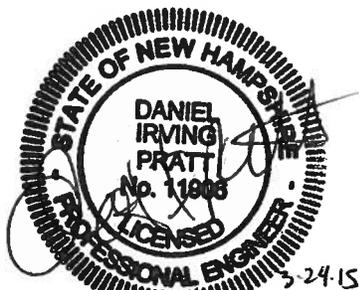
BIDDING AND CONTRACT REQUIREMENTS AND SPECIFICATIONS

FOR

**MAIN ELECTRICAL SYSTEM UPGRADE
FRANKLIN WASTEWATER TREATMENT PLANT**

**NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES
WINNIPESAUKEE RIVER BASIN PROGRAM
FRANKLIN, NH**

MARCH 25, 2015



PREPARED BY:

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NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES WINNIPESAUKEE RIVER BASIN PROGRAM FRANKLIN, NH

As a point of clarification, it should be understood that the Contract Documents govern all aspects of the project. Informal discussions held over the telephone are informational only. All official changes to the Contract Documents are made only by addenda. The following changes and additional information are hereby made a part of the Contract Documents. A Non-Mandatory Pre-Bid Meeting was held on March 17, 2015; the sign-in sheet is attached to this addendum.

SPECIFICATIONS

1. Section 16050 Basic Materials and Methods

ADD the following after paragraph 2.1 M.:

N. PORTABLE GENERATOR CABLE CONNECTION PANEL

1. Furnish and install an NFPA rated portable generator cable connection panel for connections of the portable cables which feed out from the portable generator. Connections shall be from individual cables for each phase and neutral within the panel.
2. Portable generator cables shall be terminated with Camlock connectors and therefore the generator cable connection panel shall be a dead front and insulated bussed termination point for connecting these cables.
3. Panel shall be front handle key lockable with proper signage and typed written procedures attached to the front of the panel.
4. The installation shall be UL Listed and Labeled and shall be manufacturer built and tested for this application.
5. Panel shall be installed within an enclosure with a drip shield.
6. Provide a complete installation as shown and perform an on-site test with the owner's portable generator to verify proper operation. Coordinate all work with the Owner for final testing and connections. A 30 minute test period shall be observed and verified with the owner for final acceptance of this installation. Also provide a typed written and laminated procedure sheet for connection and operation of the portable generator equipment. Provide the step-by-step procedure for proper connection and operation and located and mount to manual transfer switch inside station for final acceptance. Coordinate written procedure with the Engineer.

2. Section 16406 Low Voltage Switchboards and Ground Fault Protection

ADD the following sentence to the end of Paragraphs 2.1.A.9.a.vi and 2.1.A.10.a.vi

Provide the Reduced Energy Let Through (RELT) option for all switchboard breakers that are 1200 amps or larger.

3. Section 16950 – Testing Electrical Systems and Startup

ADD the following sentences to the end of Paragraph 1.4 C.

Coordinate with the Owner on the final wiring to be done by others at the Solar Generator Control Panel. Perform a full function test as indicated once all wiring including work by others, is completed.

DRAWINGS

4. Drawing E-4 – Single Line Diagrams

ADD the following sentences to Note 11.

Final terminations to the Generator Control Panel will be done by others. Coordinate with the Owner.

5. Drawing E-8 – Typical Duct Bank Detail

ADD The following Note 9.

9. The minimum depth of the primary conduit runs, section C-C duct bank shown on Drawing E-3, shall be 36” to top of duct bank. The minimum depth of all other duct banks shall be 24”.

6. Drawing E-9 – Electrical Schedules

ADD the following Note 5

Final terminations to the Generator Control Panel will be done by others. Coordinate with the Owner.

CLARIFICATIONS

7. Prebid Agenda Item Number 15 indicates that the required forms for compliance with the MBE/WBE requirements are to be submitted within 15 days after receipt of bids. This is incorrect.

These forms must be completed and submitted with the bid as indicated in the contract documents.

8. Bidders may make arrangements to visit the site and view the work areas on Friday March 27, 2015 from 9:00 am. to 3:00 pm. Interested parties should contact Sharon McMillin or Ken Noyes at (603) 934-4032 to schedule a specific time. Note that all site visits must be scheduled in advance and visitors will be escorted around the plant by facility staff.

QUESTIONS

Q1: Is there a new drive or access to be constructed at the location of the new riser pole shown on drawing E-3?

A1: No, there is no access drive included within the project for this location.

Q2: Is concrete encasement required at the conduit banks where they cross paved areas?

A2: No concrete encasement is required. At locations where the minimum depth of the duct bank cannot be achieved a concrete cap is required per the Typical Duct Bank Detail on Drawing E-8.

Q3: The drawings call for a ½-inch threaded rod anchor at the sill, but the specifications calls for a ¾-inch anchor bolt?

A3: Specification Section 06100 2.4B states that the anchor bolts shall be as indicated on the drawings and that for locations where an anchor size is not indicated the minimum sizes indicated in B.1 through B.5 shall apply.

Q4: Please clarify the size and spacing of the reinforcing in the new floor slab.

A4: The reinforcing shall be #4's at 12 inches on center, each way centered within the new slab as indicated on the drawings.

Q5: Can the concrete pads for the MCC' s be placed separate from the floor slab and if so how is the pad tied into the floor slab.

A5: Yes, the concrete pad can be placed over the floor slab. Refer to the Equipment Pad detail on Drawing A-3.

A6: Can the new slab be doweled into the existing slab versus using a bonding agent?

A6: No, the existing slab is not very thick.

Q7: Where is the cork board specified?

A7: Specification section 04200.

Q8: Where is the grout specified?

A8: Section 03300 paragraph 2.5. Any product meeting the ASTM designation specified will be adequate.

Q9: What are the finished floor elevations of the existing building?

A9: Based on the original construction drawings for the facility, the finished floor elevations are as follows:

Basement – elevation 252.00

First Floor – elevation 274.00

Second Floor – elevation 289.33

Q10: How do the generator conduits traverse the elevation shaft? Are they exposed?

A10: Within the elevator shaft the conduits are cast into the wall and not exposed to the interior of the elevator shaft.

Q11: Who is responsible for moving the spare parts and other materials that are currently stored in the basement floor under the proposed Annex.

A11: The Owner will have these materials removed prior to construction.

Q12: Who is the actual owner that the bid bonds should be made out to?

A12: New Hampshire Department of Environmental Services, Winnepesaukee River Basin Program as indicated in the contract documents.

Q13: Is the concrete pad, beneath the existing condenser unit, precast or poured in place? We are responsible for relocating this unit under the base bid. Does this equipment require a new concrete pad and will the existing pad be in the way of the new Annex? If so will it be our responsibility to remove this as well?

A13: The concrete pad under the condensing unit is cast in place. The Contractor shall relocate the condensing unit installing it over a new concrete pad and shall remove the existing concrete pad.

Q14: Who is responsible for removal and disposal of the existing transformer?

A14: The Contractor is responsible for removal and disposal of the existing transformer.

Q15: Who provides the cam Lock Connector Cabinet? Is there a specification for this equipment?

A15: The Contractor shall provide the cam Connector Cabinet.

Q16: How many sets of existing secondary feeders are there from the pad mount transformer to the existing switchboard? What is the size and material, copper or aluminum? Who takes ownership of these scrap or removed conductors?

- A16: Based on the record drawings for the facility there are 9 – 4-inch conduits each with 4 sets of 750 MCM. The Contractor shall remove and dispose the materials.
- Q17: The grounding detail does not show a grounding conductor to the building water main. If it is required please provide the location or distance. Also is this required to be installed in a metal or nonmetallic conduit raceway?
- A17: Information from the record drawings indicates that the old switchgear ground is currently connected to the water main. In addition to the new ground electrode shown on Drawing E-5, the Contractor shall also ground the new switchgear to the water main with a 4/0 ground in a 1-inch PVC conduit.

3/17/15

1:00 pm

Information Session - Main Electrical System Upgrade Franklin WWTP

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Information Session - Main Electrical System Upgrade Franklin WWTP

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