

ADDENDUM NO. 2
TO THE CONTRACT DOCUMENTS
FOR THE CONSTRUCTION OF THE
VERNON HILLS NCT WRF PHASE 2 – 2017 IMPROVEMENTS
LAKE COUNTY PUBLIC WORKS DEPARTMENT
VERNON HILLS, ILLINOIS
BID NUMBER #17013

DATE: April 12, 2017

BID DATE: 2:00 P.M. Local Time, April 18, 2017 (REVISED)

TO ALL BIDDERS ON THE ABOVE PROJECT:

The following changes, additions and deletions are hereby made a part of the Contract Documents for the Vernon Hills NCT WRF Phase 2 – 2017 Improvements, Lake County Public Works Department, Vernon Hills, Illinois Bid Number #17013 as fully and completely as if the same were fully set forth therein.

Bidders shall acknowledge receipt of this Addendum by inserting the number and date in the space provided in the Bid Form.

SPECIFICATIONS

SECTION 01500 – TEMPORARY FACILITIES AND CONTROLS

1. Paragraph 1.23 A.

Revise this paragraph to read as follows:

- A. *Provide a temporary bypass system as needed to keep the existing aeration basin under construction empty.*
- B. *Removal of Water:*
 - 1. *The Contractor shall provide and operate a temporary pumping system to pump all water entering the basin including groundwater, and water leaked into the basins from adjacent basins, channels, pumps, valves and gates.*
 - a. *Owner to drain and clean the existing aeration basin. Once turned over to the Contractor, the Contractor will be required to keep the aeration basin empty.*
 - b. *The existing aeration basins have pressure relief valves that allow groundwater to enter the basins when drained. These*

- valves have allowed groundwater to continuously enter the basins once dewatered. On a recent project, a 2-inch pump was continuously operated to keep the aeration basin drained.
- b. *Water removed from the basin shall be disposed of in adjacent channel or aeration basin.*
 - c. *Costs of all pumps and piping and other work associated with temporary pumping system shall be borne by the Contractor.*

SECTION 09900 – PAINTING

1. Paragraph 1.2 E.

Revise this paragraph to read as follows:

- E. *Non-submerged electrical conduits attached to unpainted surfaces need not be painted.*

SECTION 11367 – FINE BUBBLE AERATION SYSTEM

1. Paragraph 2.3 C.5.

Revise this paragraph to read as follows:

- 5. *Factory solvent weld all PVC joints and fittings. Field solvent welding will NOT be permitted with the exception of only the lower drop pipe as required to ensure proper field alignment.*

2. Paragraph 2.4 D.1.

Revise this paragraph to read as follows:

- 1. *Element holders or element holders with baseplates shall provide complete peripheral edge support for membrane diffuser element.*

3. Paragraph 2.6 J.

Directly following this paragraph add the following:

- 1. *In zones with mixers present, provide ½” diameter anchor rods in conjunction with struts for distributors and manifold.*

SECTION 15250 – PROCESS PIPE INSULATION

1. Paragraph 3.12 through 3.13 C.6.

Revise this section to read as follows:

3.12 INTERIOR INSULATION APPLICATION SCHEDULE

- A. *Service: Insulate all process piping indicated on pipe schedule drawing 100-M-1:*
 - 1. *Operating Temperature: As Scheduled.*

2. *Insulation Material: Mineral fiber.*
3. *Insulation Thickness:*
 - a. *For pipe sizes up to and including 1-inch: 1.5-inch minimum.*
 - b. *For all pipe sizes 1-1/4-inch and above: 2-inch thick minimum.*
4. *Jacket: Foil and Paper.*
5. *Vapor Retarder Required: Yes.*
6. *Finish: Painted.*

3.13 EXTERIOR INSULATION APPLICATION SCHEDULE

- A. *Not required.*

DRAWINGS

DRAWING 34-E-1 – RAS PUMP STATION ELECTRICAL ONE-LINE & PLAN

1. Add the following Plan Note below note number 2.
 3. *PROVIDE CONCRETE MOUNTING PAD FOR MANUAL TRANSFER SWITCH MOUNTING, SEE (03622) NOTE CENTER CAN BE CONCRETE VERSUS FILL AS SHOWN.*

DRAWING 71-E-1 – BATTERY B DIGESTERS ELECTRICAL PLAN

1. Replace drawing with attached drawing.

DRAWING 75-E-1 – BATTERY A DIGESTERS ELECTRICAL PLAN

1. Replace drawing with attached drawing.

DRAWING 85-E-1 – BELT PRESS FEED & BLOWER ELECTRICAL PLAN

1. Add the following Plan Note below note number 3.
 4. *PROVIDE CONCRETE MOUNTING PAD FOR TAP BOX MOUNTING, SEE (03622) NOTE CENTER CAN BE CONCRETE VERSUS FILL AS SHOWN.*

DRAWING 85-E-2 – BELT PRESS FEED & BLOWER ELECTRICAL ONE-LINE

1. Replace Plan Note 2 with the following:
 2. *SECTION 7 OF MCC SHALL HAVE THE TOP HALF OF ITS VERTICAL BUS REMOVED TO ALLOW CONNECTION OF GENERATOR TAP BOX FEED BREAKER DIRECTLY TO HORIZONTAL BUS. EXISTING FEEDER BREAKER THAT FEEDS 55PPI AND BOTTOM HALF OF THE VERTICAL BUS SHALL REMAIN INTACT.*

DRAWING 90-R-1 – ADMINISTRATION – DEWATERING BUILDING REMOVAL PLAN AND SECTION

1. Plan – Revise the note on the water line to the expansion tank from “*EXST ½” W1*” to *EXST ¾” W1*”.
2. Section A – Revise the note on the water line to the expansion tank from “*EXST ½” W1*” to *EXST ¾” W1*”.

DRAWING 90-A-1 – ADMINISTRATION – DEWATERING BUILDING MECHANICAL PLAN AND ELEVATIONS

1. South Elevation – Revise the note on the upper elevation from tank from “*NEW INSULATED METAL WALL PANELS*” to “*REMOVE AND REPLACE EXISTING WALL PANELS WITH NEW INSULATED METAL WALL PANELS, TYPICAL*”.

DRAWING 90-M-1 – ADMINISTRATION – DEWATERING BUILDING MECHANICAL PLAN AND SECTION

1. Plan – Revise the note on the water line to the expansion tank from “*EXST ½” W1*” to *EXST ¾” W1*”.
2. Section A – Revise the note on the water line to the expansion tank from “*EXST ½” W1*” to *EXST ¾” W1*”.
3. Add the following Plan Note below note number 3.
 4. *ADD A ¾” BACKFLOW PREVENTER WATTS SERIES 909QT-S OR EQUAL TO THE EXISTING ¾” W1 FILL WATER LINE TO THE EXISTING EXPANSION TANK. INSTALL DRAIN LINE AND AIR GAP FROM BACKFLOW PREVENTER AND PIPE TO FLOOR DRAIN. INSTALL NEW BACKFLOW PREVENTER AND ¾” V300 ISOLATION VALVE UPSTREAM OF EXISTING PRESSURE REDUCING VALVE AND ITS ISOLATION VALVE.*

DRAWING 90-H-1 – ADMINISTRATION – DEWATERING BUILDING HVAC PLAN

1. Key Notes – Revise the key note 2 from “*MOUNT NEW LOUVER IN...*” to “*MOUNT NEW LOUVER IN NEW WALL PANELS AS REQUIRED. COORDINATE INSTALLATION WITH INSTALLATION OF NEW WALL PANELS. FLASH AND SEAL WATERTIGHT.*”

DRAWING 100-E-1 – SCHEDULES ELECTRICAL SCHEDULES

1. Lighting Fixture Schedule – Add the following to the remarks columns for each of the three fixture types *“SEE NOTES 1 AND 2”*.
2. Lighting Fixture Schedule – Add the following notes directly below the Lighting Fixture Schedule:

NOTES:

1. *ALL MOUNTING FASTENERS, SUPPORT RODS, PENDANTS, AND/OR CHAIN SHALL BE PROVIDED AS NECESSARY TO ACHIEVE THE FIXTURE MOUNTING HEIGHT STATED ON PLANS.*
2. *ALL MOUNTING HARDWARE SHALL BE STAINLESS STEEL.*

DRAWING 101-AS-1 – STANDARD DETAILS ARCHITECTURAL/STRUCTURAL DETAILS

1. Add attached standard detail 03622 to the drawing.
2. Revise Roof Drain Detail 07502 by adding the following note to the drain line *“EXST DRAIN PIPING”*.
3. Revise Roof Drain Detail 07502 by adding the following notes to the detail.

NOTES:

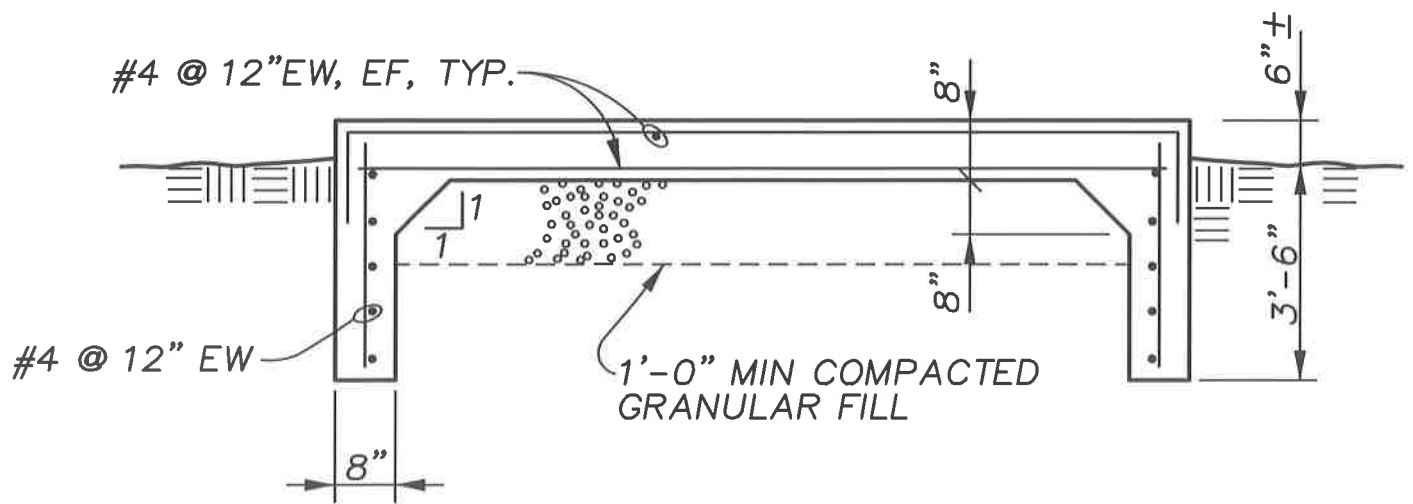
1. *MODIFY THE EXISTING DRAIN PIPING AS NEEDED TO INSTALL THE NEW ROOF DRAIN. MODIFIED PIPING TO MATCH THE EXISTING PIPING MATERIALS. USE OF NO-HUB PIPING IS ACCEPTABLE.*
2. *ROOF DRAIN INSULATION TO MATCH EXISTING INSULATION (I.E. INSULATION THICKNESS TO MATCH EXISTING INSULATION AND UNINSULATED ROOF DRAINS TO REMAIN UNINSULATED). REPAIR AND REPLACE EXISTING INSULATION ON MODIFIED PIPING.*
4. Revise Curb Flashing Detail 07604 by revising the note to the curb from *“PREFAB CURB”* to *“PREFAB CURB AS MANUFACTURED BY PATE COMPANY OR EQUAL”*.

APPENDIX 1 - DRAWINGS 71-E-1, 71-E-2, 75-E-1, 75-E-2

1. Add the following notes to each of the drawings:

NOTES:

1. *THIS DRAWING HAS BEEN PROVIDED FOR INFORMATION ONLY ON THE EXISTING CONDITIONS.*



AT GRADE EQUIPMENT PAD

NTS

03622