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**ADDENDUM NO. 2 TO PROJECT NO. 43153**

**CONSTRUCTION WORK, MECHANICAL WORK,  
PLUMBING WORK, ELECTRICAL WORK  
PROVIDE VISITOR CENTER BUILDING AND SITE IMPROVEMENTS  
FIVE RIVERS ENVIRONMENTAL EDUCATION CENTER  
56 GAME FARM ROAD  
DELMAR, NY 12054**

June 26, 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.

**PROJECT MANUAL – SPECIFICATIONS**

**PROCUREMENT AND CONTRACTING REQUIREMENTS GROUP**

1. Delete Specification Section 002216 Supplementary Instructions to Bidders – Asbestos Projects from H, P, and E Project Manual.

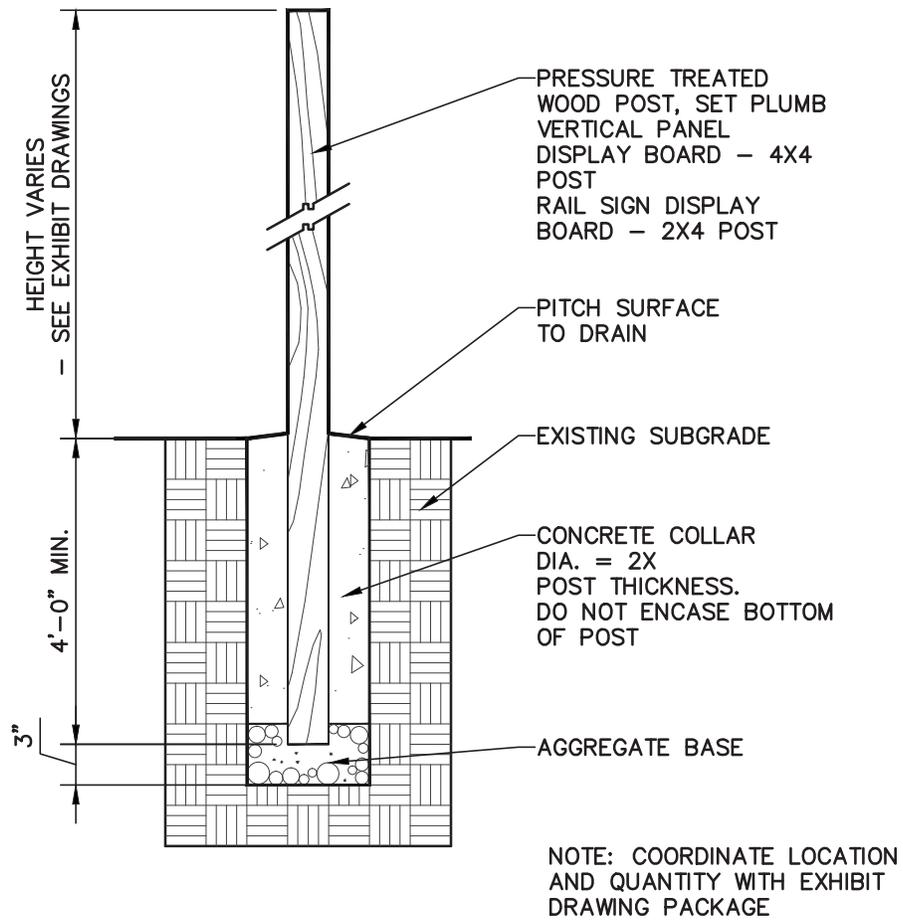
**SPECIFICATIONS GROUP**

1. Page 011000 – 4, Delete paragraph 1.8 D from C, H, P, and E Project Manual.
2. Conflict between page 011000 – 10 and specification section 267900. IT system cabling, jacks, equipment, and hardware will be provided by the owner's IT contractor. E-Contractor shall be responsible for providing all necessary wire ways and labeling.
3. Page 015213 – 1, Paragraph 2.02 B, Revise Item 1 to provide printer/copier/scanner Toshiba e-STUDIO model 3055c/3555c/4555c/5055c for C, H, P, and E Project Manual.

**FACILITY CONSTRUCTION SUBGROUP**

(Project Manual 43153-C)

1. Page 024115 – 2: Delete paragraph 3.01 A.
2. Page 024116 – 2, Paragraph 1.04 N: Temporary fencing complying with requirements listed in specification section 015000, paragraph 1.13, may be provided in lieu of providing full-time watchperson.
3. Page 024116 – 3: Delete paragraph 3.01 B.



### 3 DISPLAY BOARD POST AND FOUNDATION

SCALE: N.T.S.

Provide Visitor Center Building and Site Improvements  
Five Rivers Environmental Education Center

Project Number: 43153  
Drawing Number: C-509

Revision Date: 06/26/2015

4. Page 024116 – 3: Delete paragraph 3.01 C.
5. Page 024116 – 3: Revise paragraph 3.01 G to read:
  - G. Pump out the remaining contents of a 1,000 gallon heating oil, above-ground storage tank at the existing Visitor Center. Properly remove and dispose of contents. Properly remove and dispose of tank and associated piping. Provide a closure report after the tank has been removed.

## **FACILITY SERVICES SUBGROUP**

(Project Manual 43153-E)

1. Page 260532 – 1: Revise Paragraph 2.01 to read:

### **2.01 METAL CONDUIT AND TUBING**

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
  1. AFC Cable Systems, Inc.
  2. Allied Tube & Conduit.
  3. Electri-Flex Company.
  4. O-Z/Gedney.
  5. Republic Conduit.
  6. Thomas & Betts Corporation.
  7. Western Tube and Conduit Corporation.
  8. Wheatland Tube Company.
- B. Listing and Labeling: Metal conduits, tubing, and fittings shall be listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
- C. Rigid Galvanized Steel (RGS): Comply with ANSI C80.1 and UL 6. Shall be used:
  1. Where exposed to mechanical injury.
  2. Where exposed and not supported by a wall or column 10'-0" or less above the finished floor.
  3. In or below poured concrete slabs or walls.
  4. Where exposed to wet, damp, or unheated areas.
  5. In hazardous areas.
- D. Electric Metallic Tubing (EMT): Comply with ANSI C80.3 and UL 797. Shall be used:
  1. In concealed, clean, dry locations.
  2. In exposed locations where RGS is not required.
- E. Flexible Metal Conduit (FMC): Comply with UL 1; zinc-coated steel. Shall be used:
  1. For recessed lighting pigtails (maximum length 6'-0").
  2. Where conditions preclude use of solid conduit, but shall be kept to a minimum (maximum length 3'-0").

- F. Liquid Tight Flexible Conduit (LFMC – Sealtite): Flexible steel conduit with PVC jacket and complying with UL 360. Shall be used:
    - 1. For motor connections and for flexible connections in unheated, damp or wet locations.
    - 2. Where subject to corrosive fumes, vapors or liquids.
    - 3. As required for connections to resiliently mounted equipment to prevent transmission of vibrations to the structure (maximum length 3'-0").
  - G. Fittings for Metal Conduit: Comply with NEMA FB 1 and UL 514B H.
2. Page 260526 – 2, Delete paragraph 3.02 J.
  3. Page 260526 – 2, Revise paragraph 3.02 K to read:
 

“ K. Provide a ground bar assembly mounted to the wall in each tele/data closet and computer room. Provide a #6 AWG copper conductor from each ground bar assembly to the building’s main power panel ground bar.”
  4. Page 260526 – 3, Paragraph 3.03 C: Delete sentence “Provide #4/0 bare copper ground loop around perimeter of building connecting all grounding electrodes together and to building electrical switchboard.”

**CONSTRUCTION WORK DRAWINGS** [Contract: 43153-C]

1. Drawing Conflict – Sheets C-500, C-501, and C-110:
  - a. Provide Type C for the parking lot granite.
2. Sheet C-110: Layout Plan Overall
  - a. Delete callout for Asphalt Pavement (2/C-501) South of Parking Area 2 at relocated gate stop. The pavement to the south of the relocated gate will be existing to remain.
3. Sheet C-141
  - a. The benches shown on stone dust path at the corner of the covered walkway shall reference detail 8/C-509.
4. Sheet C-509
  - a. Add attached detail 3 for the display board post and foundation to sheet C-509.
5. Sheet FS-100
  - a. Revise note 3 to read: “TOP OF FOOTING ELEVATION SHALL BE 1’-0” BELOW TOP OF SLAB U.O.N. THUS (.....) INDICATING ALTERNATE TOP OF FOOTING ELEVATION.”
  - b. Revise T/Footing elevations at columns 11/C, 12.5/D, and 9/D.4 to be (-3’-6”)
  - c. Provide 24” x 18” wall footing as per detail 1/FS-300, revise note on FS-100 to indicate 24” x 18” wall footing.

6. Sheet FS-200
  - a. Revise note 13 to read: "FIELD QUALIFIED INSPECTING ENGINEER HIRED BY THE OWNER MUST CHECK AND APPROVE ALL STEEL REINFORCING PRIOR TO CONCRETE PLACEMENT."
7. Sheet A-103
  - a. Delete gypsum board ceiling and access panel from Room 102A, ceiling shall be the exposed underside of SIPS roof panels, painted.
8. Sheet A-202
  - a. Revise attached detail 1/A-202 to show location of feed-thru entry point shown in detail 2 on sheet E-200
  - b. Add attached detail 6 to sheet A-202 to show black locust enclosure, to be provided by C-Contractor, around feed-thru entry port, provided by E-Contractor."
9. Sheet A-302
  - c. Add note to detail 3/A-302 to indicate providing 5-1/2" sound attenuation blankets above the ceiling at the operable partition.

#### **PLUMBING WORK DRAWINGS** [Contract: 43153-P]

1. Sheet P-100
  - a. Delete underground 3" back-up domestic water tank fill line from rainwater storage tank to Visitor Center.
  - b. Delete pipe penetration for back-up domestic water fill line as shown on detail 1/P-201
2. Sheet P-101
  - a. Delete 3" back-up domestic water tank fill line, 1" low level fill line with solenoid valve including ball valve and strainer, and 3" air gap cone shown in Mechanical Room 100C.
3. Sheet FP-101
  - a. Provide drain at low point of dry sprinkler system at porch, around column E/14, stub drain connection through plywood ceiling.

#### **ELECTRICAL WORK DRAWINGS** [Contract: 43153-E]

1. Sheet E-000
  - a. Data wall outlet 4x4x21/8 Box symbol: The Electrical Contractor is responsible for providing a workable pathway for all tele/data cable. All pathways shall be run from terminal jacks to patch panel(s) to be located in Data Room behind data rack provided by owner. Cable pathways must be in conduit through ceiling spaces (and/or under floor where windows block the path) with a maximum of three 90 degree bends either with a direct homerun to the Data Room or as follows:
    - Conduits shall be brought to the ceiling level and routed into Room 102A, 104A, 100C or 100D or 111.
    - The conduits shall enter through walls in these spaces at the same (high) level and at a uniform spacing. Bushings are to be installed at all open conduits.

- Each conduit and terminal port shall be labeled as to its origination point consistent with labeling specified. Labeling shall be neat, professional and permanent. Hand-written labels shall not be acceptable. The E-Contractor shall be responsible for developing a port labeling system acceptable to the Owner and submitting the schedule of ports for review. All ports and conduit terminations related to the data cabling distribution system shall be labeled.
- Pathways shall be such that cabling can be neatly collected with cable trays and routed through a common conduit back to the next accessible room or direct to the Data Room and brought to the patch panel. If greater than three conduit bends would be required to enter the room, collect conduits in accessible recessed junction boxes mounted at same elevation as conduits entering the space.

2. Sheet E-100

- a. Fixture type designations on sheet E-100 shall govern over sheet A-103
- b. Unlabeled linear fixture in Room 104 shall be labeled F2-8'
- c. In Room 102, revise linear light fixture tag from F3-4' to be F2-4'

3. Sheet E-200

- a. Add Keynote #5 to read: "Provide rough in boxes above ceiling or close to top of wall where room does not have ceiling and 20 amp, 120v branch circuit from each location to electrical closet. Typical of (3) locations for future radon system."
- b. 3-gang power/data arrangement on the west and east walls of Classrooms 101A & 101B respectively represent Receptacle Cluster 1. There should be (4) boxes – (1) duplex power, (1) data, (2) A/V, see details 1 and 4/A-401 for additional information. Provide 3/4" conduit for data and 1" conduit for A/V stubbed to above ceiling and into room 102A. Conduit shall be run and labeled as indicated in item number 1 of the electrical Work Drawing section of Addendum #2.

4. Sheet E-300

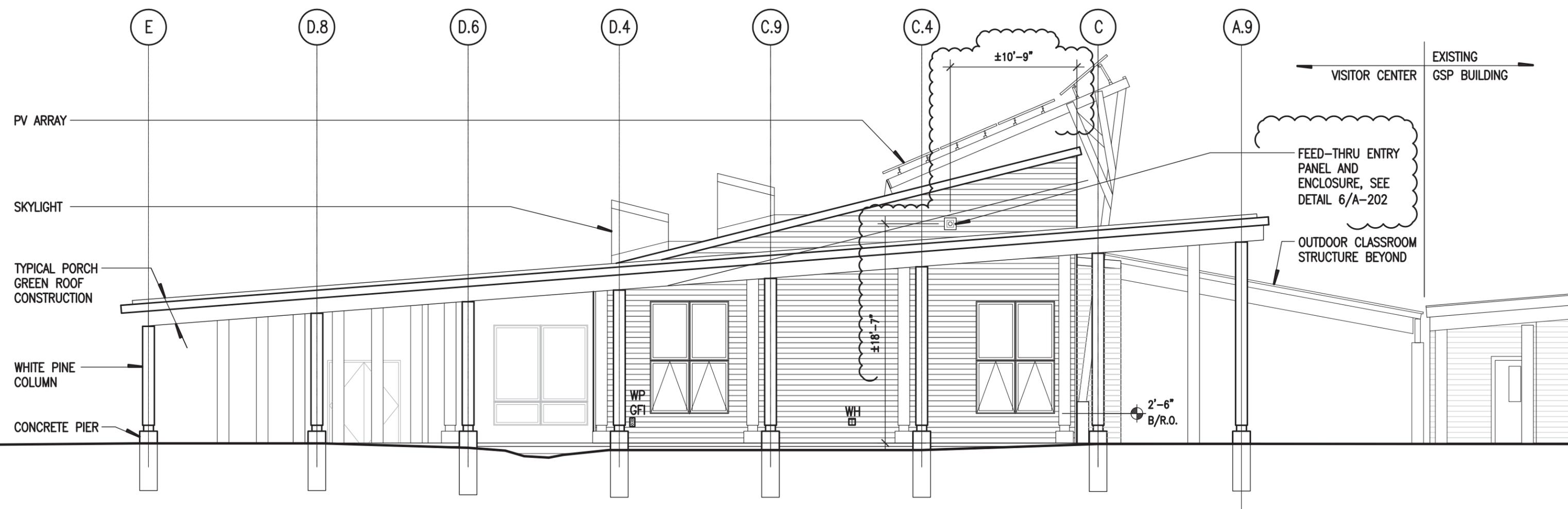
- a. For the underground conduit indicated on the plan running NE from the Data Room to the 4'x4'x3' hand hole at the far North of the site, provide (2) 4" schedule 40 pvc conduits.

5. Sheet E-400

- a. There shall be a total of 164 solar modules as shown on revise note on drawing E-400 to read: "PHOTOVOLTAIC ARRAY CONSISTING OF 14 STRINGS WITH 10 MODULES EACH AND 2 STRINGS WITH 12 MODULES EACH, SIMILAR TO SOLARWORLD SW-280 MONO"

**END OF ADDENDUM**

Margaret F. Larkin  
Executive Director  
Design and Construction



1 EAST ELEVATION  
 A-202 SCALE: 1/8" = 1'-0"

Provide Visitor Center Building and Site Improvements  
 Five Rivers Environmental Education Center

Project Number: 43153  
 Drawing Number: A-202

Revision Date: 06/26/2015

Provide Visitor Center Building and  
Site Improvements  
Five Rivers Environmental  
Education Center

Project Number: 43153  
Drawing Number: A-202

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5/4" BLACK LOCUST  
SHIPLAP SIDING

CONCEALED ALUMINUM  
CLIP, TYPICAL

BUILDING WRAP

ALUMINUM FLASHING,  
DRILL HOLES THROUGH  
FLASHING AND TOP OF  
ENCLOSURE TO FIT  
CABLES EXACTLY,  
PROVIDE SEALANT  
AROUND CABLES

2x6 PRESSURE-TREATED  
WOOD BLOCKING, (4)  
SIDES OF BOX

BLACK LOCUST FASCIA  
PANEL WITH 1" RIGID  
INSULATION ADHERED TO  
BACK, ROUT TO FIT  
BETWEEN WOOD BLOCKING

FEED-THRU ENTRY PANEL  
BY EC (N.I.C.), SEE  
DETAIL 2/E-200

CENTER FEED-THRU PANEL  
AND ENCLOSURE ON SIDING  
BOARD

2" CONDUIT PROVIDED BY  
EC TO RECEPTION DESK,  
SEE SHEET E-200

1'-0"

3/4"