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

ADDENDUM NO. 2 TO PROJECT NO. 45277-C

REPLACE ROOF
DOT Region 1, Warren County
4021 Main Street, Route 9
Warrensburg, NY

May 9, 2016

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.

BIDDING REQUIREMENTS

1. DOCUMENT 001114 ADVERTISEMENT FOR BIDS: The last day for receipt of bids is changed from Wednesday, May 11, 2016, to Wednesday, May 25, 2016.

CONSTRUCTION WORK SPECIFICATIONS

1. Page 000110-3, DIVISION 23, Add specification section 230548 Vibration and Wind Resistant Controls for Equipment. See Addendum Specification 230548.

2. Page 076000-3, Subparagraph 2.03 C.4: Delete this Subparagraph in its entirety and replace with the following:

   "Finish: Fluorocarbon Coating (Polyvinylidene Fluoride, PVDF)."

3. Addendum Specifications:
   a. Specification Section 230548 "Vibration and Wind Resistant Controls For Equipment" accompanies this Addendum and forms parts of the Contract Documents.

CONSTRUCTION WORK DRAWINGS

1. Drawing No. A-001, GENERAL NOTES, Note 9: Delete this Note in its entirety and replace with the following:

   "Removal/Construction Work will occur above pedestrian walkways and entrances. Provide overhead protection at these areas while work is ongoing. For bidding purposes this includes 7 building entrances and approximately 15 linear feet of walkway. The overhead doors do not require overhead protection."

2. Drawing No. A-101, PLAN KEYED NOTES:
   a. Keyed Note 9A: Revise the detail reference from 2/A-501 to read 1/A-501.
   b. Keyed Note 9B: Revise the detail reference from 1/A-501 to read 2/A-501.

3. Drawing No. A-102, MECHANICAL KEYED NOTES, Note M1: Delete this Note in its entire and replace with the following:

   "After roof replacement is complete provide louvered penthouse LPH-1 in this location. Connect to the existing ductwork and provide any offsets or transitions as required. Match the size (width and length) of the existing ductwork with a height of 18-inches."

4. Drawing No. A-501, ROOF DETAILS:
   a. Detail 4: Delete the note "2x PT Wood Nailers, Typ" in its entirety and replace with the following:

      "2x PT Wood Nailers, Typ. Secure nailers to steel plate with hot dip galvanized PAF x 2" long max at 24" o.c. (Hilti X-U/X-CR) fastener or equal."

   b. Detail 5: Delete the note "2x PT wood nailers fastened into steel plate with 2" long maximum to prevent impeding movement of the expansion joint" in its entirety and replace with the following:

      "2x PT wood nailers fastened into steel plate with hot dip galvanized PAF x 2" long maximum (to prevent impeding movement of the expansion joint) at 24" o.c. (Hilti X-U/X-CR) fastener or equal."

   c. Detail 9: Delete the note "2x PT wood blocking fastened to steel with powder actuated fasteners at 24" o.c. typical" in its entirety and replace with the following:

      "2x PT wood nailers, Typ. Secure nailers to steel with hot dip galvanized PAF x 2" long max at 24" o.c. (Hilti X-U/X-CR) fastener or equal."

5. Drawing No. A-502, ROOF DETAILS:
   a. Detail 7: Delete the note "2x PT Wood Nailer" in its entirety and replace with the following:

      "2x PT Wood Nailers, Typ. Secure nailers to steel plate with hot dip galvanized PAF x 2" long max at 24" o.c. (Hilti X-U/X-CR) fastener or equal."

END OF ADDENDUM

Margaret F. Larkin
Executive Director
Design and Construction

SECTION 230548

VIBRATION AND WIND RESISTANT CONTROLS FOR EQUIPMENT

PART 1 - GENERAL

1.01 SUMMARY

A. This Section includes the following:
   1. Restraining braces for equipment and louvered penthouse.

1.02 PERFORMANCE REQUIREMENTS

A. Wind-Restraint Loading:

   1. Basic Wind Speed: 90 mph.
   2. Building Classification Category: II.
   3. Minimum 10 lb/sq. ft. multiplied by the maximum area of the HVAC component projected on a vertical plane that is normal to the wind direction, and 45 degrees either side of normal.

1.03 ACTION SUBMITTALS

A. Product Data: For the following:

   1. Include rated load for each wind brace.

B. Delegated-Design Submittal: For all roof mounted equipment, comply with performance requirements and design criteria, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.

   1. Design Calculations: Calculate static and dynamic loading due to equipment weight and operation, and wind forces required to wind restraints.

      a. Coordinate design calculations with wind load calculations required for equipment mounted outdoors. Comply with requirements in other Sections for equipment mounted outdoors.

   2. Wind-Restraint Details:

      a. Design Analysis: To support selection and arrangement of wind restraints. Include calculations of combined tensile and shear loads.
      b. Details: Indicate fabrication and arrangement. Detail attachments of restraints to the restrained items and to the structure. Show attachment locations, methods, and spacing. Identify components, list their strengths, and indicate directions and values of forces transmitted to the structure during wind events. Indicate association with vibration isolation devices.

c. Coordinate vibration isolation details with wind-restraint details required for equipment mounted outdoors. Comply with requirements in other Sections for equipment mounted outdoors.

PART 2 - PRODUCTS

2.01 WIND-RESTRAINT DEVICES

A. Basis-of-Design Product: Subject to compliance with requirements, provide a comparable product by one of the following:

1. Miami Tech Inc.
2. Kinetics Noise Control.
3. Mason Industries.
4. Vibration Mountings & Controls, Inc.

B. General Requirements for Restraint Components: Rated strengths, features, and applications shall be as defined in reports by an evaluation service member of ICC-ES.

1. Structural Safety Factor: Allowable strength in tension, shear, and pullout force of components shall be at least four times the maximum wind forces to which they will be subjected.

C. 16 Gauge, ASTM-653 Hot Dipped Galvanized Sheet Steel, Designed per ASCE-7-05 regarding wind resistance and anchoring requirements for mechanical equipment in high wind zones.

PART 3 - EXECUTION

3.01 EXAMINATION

A. Examine areas and equipment to receive wind restraints for compliance with requirements for installation tolerances and other conditions affecting performance.

B. Examine roughing-in to verify actual locations before installation.

C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 APPLICATIONS

A. Strength of Support and Wind-Restraint Assemblies: Where not indicated, select sizes of components so strength will be adequate to carry present and future static and wind loads within specified loading limits.

3.03 VIBRATION-CONTROL AND WIND RESTRAINT DEVICE INSTALLATION

A. Equipment Restraints:

1. Install resilient bolt isolation washers on equipment anchor bolts where clearance between anchor and adjacent surface exceeds 0.125 inch.

B. Attachment to Structure: If specific attachment is not indicated, anchor bracing to structure at flanges of beams, at upper truss chords of bar joists, or at concrete members.

3.04 ADJUSTING

A. Adjust restraints to permit free movement of equipment within normal mode of operation.

END OF SECTION