

ADDENDUM NO.: 3

DATE OF ADDENDUM: May 14, 2014

**CTARNG FACILITY VISION 2020 PROGRAM PROJECT NO. 7
HARTFORD ARMORY ROOF AND SKYLIGHT RESTORATION
360 BROAD STREET
HARTFORD, CT
BI – Q – 659**

Original Bid Due Date / Time: 5/14/14 1:00 PM

Revised Bid Due Date / Time: 5/21/14 1:00 PM

Previous Addendums: Addendum No. 1 - April 29, 2014 & Addendum No. 2 - May 8, 2014

TO: Prospective Bid Proposers:

This Addendum forms part of the "Contract Documents" and modifies or clarifies the original "Contract Documents" for this Project dated February 28, 2014. Prospective Bid Proposers shall acknowledge receipt of the total number the Addenda issued for this Project on the space provided on Section 00 41 00 Bid Proposal Form. Failure to do may subject Bid Proposers to disqualification.

The following clarifications are applicable to drawings and specifications for the project referenced above.

Item 1

The Bidders are reminded that there will be no work allowed in the Drill Shed or above the Drill Shed between January 1, 2015 and February 28, 2015. All equipment and material must be cleared out of the Drill Shed during this time. These days will not count against the contract calendar days. This shut down can be extended until April 1, 2015 at the contractor's request.

Item 2

Ten parking spaces will be made available for contractor parking at the parking lot on the corner of Capitol Avenue and Oak Street.

Item 3

There is limited space for storage of material or dumpsters on site. The contractor should assume that all material should be stored off site and that all demolition debris will need to be removed from the site each day.

Item 4

The Drill Shed floor needs to be protected at all times. Any mechanical lifts used must be less than 10,000 lbs. The floor will need to be covered with 2" x 12" planks in any locations that a lift is to be driven.

Item 5

CHANGES TO THE PROJECT MANUAL: On Page 04 of Section 08 63 00 Metal-Framed Skylight, in Article 2.1 Manufacturers, Paragraph A, ADD the following two manufacturers to the list of acceptable manufacturers:

4. United Skys Inc.
5. E-Skylight, Inc.

Item 6

CHANGES TO THE DRAWINGS: On Drawing A301, Detail #3 - Revise the Curb and Eave Wall Detail to include roof venting as indicated on the attached sketch SK-A301.

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Item 7

CHANGES TO THE DRAWINGS: On Drawing A101, ADD a roof gutter de-icing system along the entire length of the eastern eave and within the entire length of the built-up gutter at the Drill Shed roof as follows; Electrical contractor to provide – Raychem Icestop System or approved equal. Cable type will be Raychem model #GM-2X or equal and shall be provided for four (4) different branch circuits – two (2) 20A-2P, 208V (2#12 and 1#12G in ¾-inch conduit) and two (2) 30A-2P, 208V (2#10 and 1#10G in ¾-inch conduit) from the nearest 120/208V panel. The two (2) 20A-2P branch circuit and associated heat tracing components shall be run within the entire length of the East facing roof gutter itself (250-feet each). Note, the two (2) cables within the gutter shall be spaced approximately 6-inches apart. The two (2) 30A-2P branch circuits and associated heat tracing components shall be run the entire length of the East facing roof in a zigzag pattern (each 350-feet). Note, zigzag pattern shall extend from the gutter on an angle 12-inches up on the roof then return to the gutter. Distance between the rise and return to/from the gutter shall be approximately 2-feet. Any excess cable from the two (2) 30A-2P circuits may be used for downspout protection. Follow manufacturer's installation instructions. The Electrical panel is on the third floor in the south east corner of the Armory assume 125 lf of interior conduit run.

The snow melting system shall be automatic, which energizes the system below 38-degrees Fahrenheit when sensing moisture. The system shall be provided with snow melting controllers (Raychem model #APS-4C or equal) and contactors (Raychem model #SC-40C or equal) as well as one or more gutter sensors and one or more aerial snow sensors. Further, each controller/contactors shall be provided with GFI protection built-in and housed in NEMA 3R enclosures. Location of the controllers and contactors shall be coordinated with the Owner prior to beginning work.

Provide all necessary conduit, conductors, splice boxes, hangers, fittings, circuit breakers, etc. for a code compliant installation for the branch circuitry to the heat trace components. Further, provide all necessary heating cable, power distribution panel, snow controller, contactors, power connection kits, splice kits, junction boxes, attachment kits, gutter sensors, tee kits, downspout hanger kits, end seal kits, accessories, etc. for a complete snow melt installation. Finally, provide a minimum of three (3) contactors and associated control wiring from the 'master' controller to allow the snow melt controller to energize the multiple branch circuits required for the length of the gutter and roof tracing height.

Item 8

QUESTION: Page G001 Summary of Work Item #1 references a "Factory Mutual Global Approved Aluminum Skylight Assembly". This reference applies to a factory preglazed plastic skylights and/or smoke vents and is not applicable to a site assembled glass skylight system. Please advise if there are any FM loading surcharges above the local code requirements.

RESPONSE: *We are not aware of any FM requirements above the local code requirements.*

Item 9

QUESTION: Page A010 Keyed Demolition Notes Item 4 references the reuse of the existing glazing stops. We would propose to use all new material. Please clarify.

RESPONSE: *The note is in reference to the replacement of glass at the slope glazing located in the penthouse roof areas. It was not intended to be associated with Skylights 1, 2, 3 or 4.*

Item 10

QUESTION: Page A101Roof Plan Keyed Plan Notes Item #4 references use of a non-code compliant tempered glass in a sloped application. Items# 6, 6A and 8 references "Comply with ATFP requirements". If we are to understand that "ATFP" references "Anti-Terrorism Force Protection", a specification referencing performance criteria based upon Unified Facilities Criteria (UFC) 4-010-01, DoD Minimum Antiterrorism Standards for Buildings will be required. Please advise. If ATFP has another reference, please clarify.

RESPONSE: *Keynote #4 is in reference to the replacement of glass at the slope glazing located in the penthouse roof areas. It was not intended to be associated with Skylights 1, 2, 3 or 4. Skylights 1, 2, 3 & 4 are to comply with UFC 4-010-01, DOD Minimum Antiterrorism Standards for Buildings, especially Section B-3.1 through B-3.1.6, which indicates that a "Medium Level of Protection" as described in Table 2.1 of the standard shall be utilized.*

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Item 11

QUESTION: Page A204 Skylight Elevation and Plans - Please issue a specification for the aluminum louvers shown in the elevation for Skylight #1. We note the requirement for an insulated blank off panel at this area, but there is no insulation shown for the balance of the skylight to building sill perimeter interfaces. Reference Pages A300 and A301) Please clarify.

RESPONSE: Louvers are located at the four mechanical ventilator locations and are described in detail 4/A300. Color shall match skylight frame color. Insulated blank off panel is to be located behind the louvers in the excess area not connected to the power ventilator. Insulated panel shall also be located behind the gutter at Skylight #1 (Detail 4/A300 & 3/A301). At Skylight #2, Detail 1/A300, eliminate the horizontal mullion below the eave mullion allowing the glass to run continuous from the sill frame to the eave frame.

Item 12

QUESTION: Page A204 Skylight Elevation and Plans - Please clarify methodology for note requiring opaque glass for the vertical wall of Skylight #1 as a spandrel coating or ceramic frit.

RESPONSE: Basis of Design for opaque glass shall be Viraspan Opaque Ceramic Frit, Color - Medium Grey V948. Coating shall be located on the number 4 surface.

Item 13

QUESTION: Page A300 Skylight #2, #3 and #4 Details shows Skylight #2 attaching to a double 2X wood sill. Our experience tells us that this is not structurally sufficient for a structure of this size and should have a structural steel member to attach to. Please advise.

RESPONSE: The existing sill condition is not known at this time. For bidding purposes, below a single 2X wood sill, provide a continuous 6"x4"x3/8" angle LLH attached to 4"x4"x1/4" posts at 4'-0" on center. Posts shall have a 6"x6"x1/2" base plate for attachment to existing structure.

Item 14

QUESTION: Page A300 Skylight #2, #3 and #4 Details show skylight members in both I-beam and tubular purlins and I-beam and tubular rafters. Specification Section Metal Framed Skylights 08 63 00/2.2/D.1 states an extruded aluminum I-beam member to be used. Please clarify if all tubular or all I-beam members are required, if a mix of products is desired as shown on the architectural details, or if this can be a means and methods decision by the skylight manufacturer.

RESPONSE: The drawings reflect the use of tubular framing at Skylights 1, 2 & 3 while Skylight 4 is to utilize I-beam members.

Item 15

QUESTION: Specification 08 63 00/2.2/D.5 refers to an "Optional" aluminum rain gutter for Skylight #1 but is not noted as an optional item on Page A301/Detail 3. Please advise how you wish us to bid this item.

RESPONSE: Rain gutter shall be priced as part of the base bid.

Item 16

QUESTION: Page S110 seems to direct that the sloping skylight members for Skylight #1 are to align over the varying centerlines of the tops of the sloping W8 x 18 steel members below. Please confirm.

RESPONSE: That is correct. The typical vertical mullion spacing is 5'-0" on center, which is to align with the sloping W8 x 18 steel members below. However, there are 3 locations (1 per the sections between the main double trusses) where the alignment is off slightly where the new W8's are located at an existing diagonal brace node point.

Item 17

QUESTION: Is the interior stool trim and continuous cleat shown on Page A300 supplied by the roofing contractor or the skylight manufacturer?

RESPONSE: Interior trim shall be provided by the skylight manufacturer.

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Item 18

QUESTION: Please issue structural wind and snow loading requirements for the project.

RESPONSE: *The design wind speed for the Hartford area is 95 mph and the snow load requirements are 30 lbs/SF.*

Item 19

QUESTION: Specification 08 63 00/2.2.G Air Infiltration reference ASTM E283 and Section 08 63 00/2.2.H Water Penetration under Static Pressure references ASTM E331 testing, but there is no mock-up requirement for testing and field testing would be difficult to access, expensive and time consuming. Please advise if a previous test would be acceptable in lieu of a laboratory or field test.

RESPONSE: *Required ASTM Test results from a previously tested similar skylight assembly with similar components will be acceptable.*

Item 20

QUESTION: The scales noted and dimensions provided throughout the drawings are for the most part incorrect and often conflict with each other. Were the drawings we received from DCS printed to the correct scale? Nothing is matching up, and we don't trust any scales or dimensions provided at this point. What direction should we take?

RESPONSE: *There appears to have been a formatting issue with regard to the set-up of the drawings for printing which has resulted in the plans not printing to the noted scale. However, all of the dimensions provided throughout the drawing set have been verified and are correct. Therefore, utilize the noted dimensions on the drawings.*

All questions must be in writing (not phone or e-mail) and must be forwarded to the consulting Architect/Engineer Mark Hopper, AIA, Fletcher Thompson, fax number (860) 246-7206 with copies sent to the CT DCS Project Manager Peter B. McClure, P.E., fax number (860) 713-7261.

End of Addendum 3



Mellanee Walton, Associate Fiscal Administrative Officer
Department of Administrative Services
On Behalf of the Division of Construction Services