



**ADDENDUM #6**  
**ITB NUMBER: 2014043-CMO-B**  
**New City Hall ITB**

DATE: April 28, 2014

TO: All Potential Proposers

City of Harrisonburg's New City Hall ITB (2014043-CMO-B), is modified as follows:

This addendum is hereby made part of the contract documents. The following information is being issued to modify, alter, revise or further explain the original drawings and/or specifications for the project, dated 3-31-14. The contents of this addendum shall take precedence over the original documents.

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**Item No. 6-1 - Mechanical Specifications**

1. Add the following as approved manufacturer's - ASCO for valves; Addison for the ERV unit; Robbins Lightning, Inc. for the lightning protection system; Heat Timer for the snow melt controls.
2. Where references are made to the Annex Building, change the reference to the Community Development Building.
3. Section 15774, Heat Pump Systems, 3.1.F. add for condensate drain piping from indoor ducted and ductless systems to be extended to discharge at 8" above finished grade at locations as determined by the Architect, or discharge to the sanitary or storm piping through a city approved waste receptor. Any approved waste receptor hub drain shall be equipped with a trap primer. Condensate drain piping can be combined and shall drop concealed in walls as necessary.
4. Section 15780 - Computer Room AC Unit, modify the following:
  - a. 2.3.A.2.- change the C6000 microprocessor controller to an ICOM type with a 320x240 dot matrix large graphic display with control keys for user inputs. The controls shall be menu driven.
  - b. 2.3.A.2.- add a phase loss monitor
  - c. 2.3.A.2.- add a Teamwork network switch, wall mounted in the computer room, with a lockable enclosure and a dedicated universal power supply. Provide the 120 vac power supply for this switch. This switch will provide three modes of operation, including grouped average response, opposing mitigation and decoupled cool optimization, also with lead/lag operation. Interlock all control components.
  - d. 2.3.A.6. - delete the refrigeration isolation valves
5. Section 15950, Controls, modify the following:
  - a. 2.1.D.1 - change to `Provide a control system with a web based user interface accessible from the owners LAN. Provide integration with the VRF system controls allowing graphical interface to the VRF system to include space temperatures, setpoints, alarms, fan status, and scheduling. Provide integration with (or where integration is unavailable or inadequate to meet the sequence a programmable controller) to allow graphical

control and monitoring of the RTU, ERV, CRAC Units, and Boiler system. The snowmelt system to have a command digital relay for status monitoring only. Provide access to all scheduling, setpoints, alarms, trending, and sensor readings. Provide floor plan views with temperature displays depicted at thermostat/sensor locations. Provide a link from each temperature display to a graphical display of each piece of equipment with all pertinent information shown therein. Provide owner training on the user interface. Provide a Tridium JACE with open license and embedded software tool. Provide a network jack for this JACE. This system will need to be integrated in the existing Tridium AX supervisor, interoperable with the system that exists in the Public Safety building, and accessible via the City provided LAN. Contractor will be able to access the Supervisor system to properly set up services. Smoke detectors and high temperature in the computer room to activate alarms.

- b. 2.1.D.2 - delete the paragraph
- c. 2.1.D.3 - delete the paragraph

### **Item No. 6-2 Mechanical Drawings**

1. Sheet M0.2, Underground Refrigerant Piping Assembly Diagram, change the diagram from showing two pipes for each system to three pipes for each system. The three pipes along with the communication cable will be in the PVC conduit.
2. Sheet M0.3, Equipment List, CRU, Computer Room AC Units - change the temperature sensors from 6 sensors to 3 sensors for each system. Delete the hot gas bypass and sweat adapter kit.
3. Sheet M1.3, Second Floor HVAC Plan, next to the AC Smart Deluxe in the mechanical closet install the JACE network engine on the wall at 48" above finished floor. All equipment to be interfaced with the City's BMS to be wired back to the network engine in this room, in accordance with the requirements of the city building management system.

### **Item No. 6-3 Project Manual, Section 16770, Security System**

Refer to Section 2.1, Systems.

Add the following item "D".

D. Web-based access control system, as provided by "TruPortal" or approved equivalent. Features of the systems shall include:

- Web interface for management of system with no need for software licensing, and no need to load software on the management computer(s).
- Available iPad, iPhone, and Android apps for simplified system administration.
- CCTV integration with Interlogix Network Video Recorders.
- Support for a minimum of 64 doors / card readers.
- Support for a minimum of 64 access levels.
- Support for a minimum of 64 customizable schedules each allowing up to 6 intervals.
- 5 concurrent operator / manager connections to the web interface.
- User definable employee / personnel profile fields.
- Ability to schedule automated backup operations for the system database.
- Import / Export utility to simplify batch updates to card / key holders.
- Ability to use multiple card formats and/or bit structures simultaneously across the breadth of the system.
- Ability to add future remote doors to the master control via network / IP.
- Card Readers, model T-100, at all doors indicated to receive Readers in Door Hardware, Section 08710 of this Project Manual.

#### **Item No. 6-4 Drawings, Sheet E 2.2A, First Floor Electrical Lighting Plan**

Refer to the Type “26’ light fixture shown under the Dome entry area. Change the note from “Typ. of 10”, to now read. “Typical of 8 (two under Dome, and one on each side of entry doors)”

#### **Item No. 6-4 Drawings, Sheet E 2.3, Second Floor Lighting Plan**

Refer to Conference Room 217. Shown are six Type 12 lights, but the note says “Typ. of 4”.

Delete two of these lights, so that there are only four such lights in this room.

#### **Item No. 6-5 Drawings.. Sheet A1.4, Third Floor Plan**

Refer to Copy Room 305.

Clarification – Provide base and wall cabinet as shown across the 10’-3” length of the room. Construction of this millwork shall be as shown in Typical Casework Section 2/6.4

#### **Item No. 6-6 Project Manual, Section 16740, IT Cable System**

Clarifications:

1. ALL Cat. 6 cables shall be landed on patch panels in wall swing racks, patch cords will be provided/installed by the Owner.
2. All 24 strand single mode fiber cables shall be landed in wall mounted breakout boxes with SC terminations, patch cords will be provided/installed by the Owner.
3. Cat. 6 cables will NOT be run to television locations.
4. (2) Cat 6 cables are to be run to Aruba wireless access points and prepared for connection, Aruba equipment will be provided/installed by the Owner.
5. The Owner will provide/install all switches, routers, network infrastructure, UPS’s, and other electronic components.
6. Test all Cat. 6 cable with Fluke DTX1800 or equal, test fiber with Optical Loss Meter (OTDR testing not required), submit final test results.
7. Pull a 24 strand single mode fiber from new building to existing City Hall IT room for use during changeover between buildings.
8. Pull a 24 strand single mode fiber, an RG-6 coax and a burial grade 25 pair Cat. 5 cable thru the 4” conduit shown on civil plans between the existing City Hall IT room and the Community Development building to keep building and city council chambers in operation during construction. Provide lightning protectors on both ends of cable runs.
9. Use J-hooks to carry cable between ends of conduit stubs to the cable trays.
10. Conduits are not intended to be provided for the fiber cable, contractor may provide at his discretion.
11. Basement ceiling is a return air plenum.
12. Change method of RG-6 coax routing as follows: Pull an individual RG-6 coax from each television location and the server room to the main headend board and terminate on a cable head-termination block.
13. Label all terminations and outlets with designations on the drawings.

#### **Item No. 6-7 Drawings, Sheet E3.1, Lower level Systems Plan**

Add the following notes to this sheet, pertaining to required conduit:

1. To Main St. there will be (2) 4" and (1) 2" per the electrical, the 2" shall run from the headend gear to Comcast interface per site plan, (2) 4" shall run from the headend gear to the Verizon interface per site plan (1 of these 4" is a spare). Provide junction Box at each utility interface location. See site plans for approximate routing.
2. To Liberty St. there will (7) 4" conduits per the electrical. (2) 4" will run to primary compartment of the HEC transformer, (1) will run to HEC fiber junction box, (1) will run to Lumos junction box, (1) will run to Comcast junction box, (2) of the conduits are spare and shall run to junction boxes. From each junction box, extend the 4" conduits on to the headend equipment space as shown on the plans. See site plan for approximate routing, encasement and junction locations. Increase Comcast service conduit shown on the electrical plans from a 2" to a 4".
3. Junction boxes shall be Quazite 24"x48"x24", installed in accordance with manufacturer's recommendations and as required by the Utility.
4. The fiber run shown on the site plan between the existing Municipal Building IT Room and the Community Development Building shall be a 4" conduit.

**Item 6-8 Product substitution approvals:**

The following products have been approved as substitutes for the specified products on the project:

Section 08630, Metal Framed Skylights. Products:

- a.) Linel, Division of Mestek, Inc, Segmented Dome skylight, Ridge skylight. Model numbers SAG-3000 and SG-1000. Contact: Robert bates Company, 888-677-6277
- b.) Waco, segmented dome and Ridge skylights. Wasco Products, Inc., Reno, NV, designed to meet or exceed all indicated loads and material specifications. Contact: Tom Burke. 804-270-0477

Section 08443, Sloped Glazing Assemblies. Products: Wasco Products, Inc., Reno, NV, designed to meet or exceed all indicated loads and material specifications. Contact: Tom Burke. 804-270-0477

Section 07411, Metal Roof Panels. Products:

- a.) DMI, Inc. Span-Lock SL2018, 24 gauge steel, with Kynar 500 finish. Contact – Bradley Goulds, 704-918-7724
- b.) Metal Sales Manufacturing Corp, Magna-Loc, 18" panels, 24 gauge steel with Kynar 500 finish. Contact – Bruce McCardle, 904-524-6394

**Item No. 6-9 Drawings, Sheet A1.1**

Supplemental Drawing A1.1b is issued herewith to show the addition of a wall in Mechanical Electrical Room 002

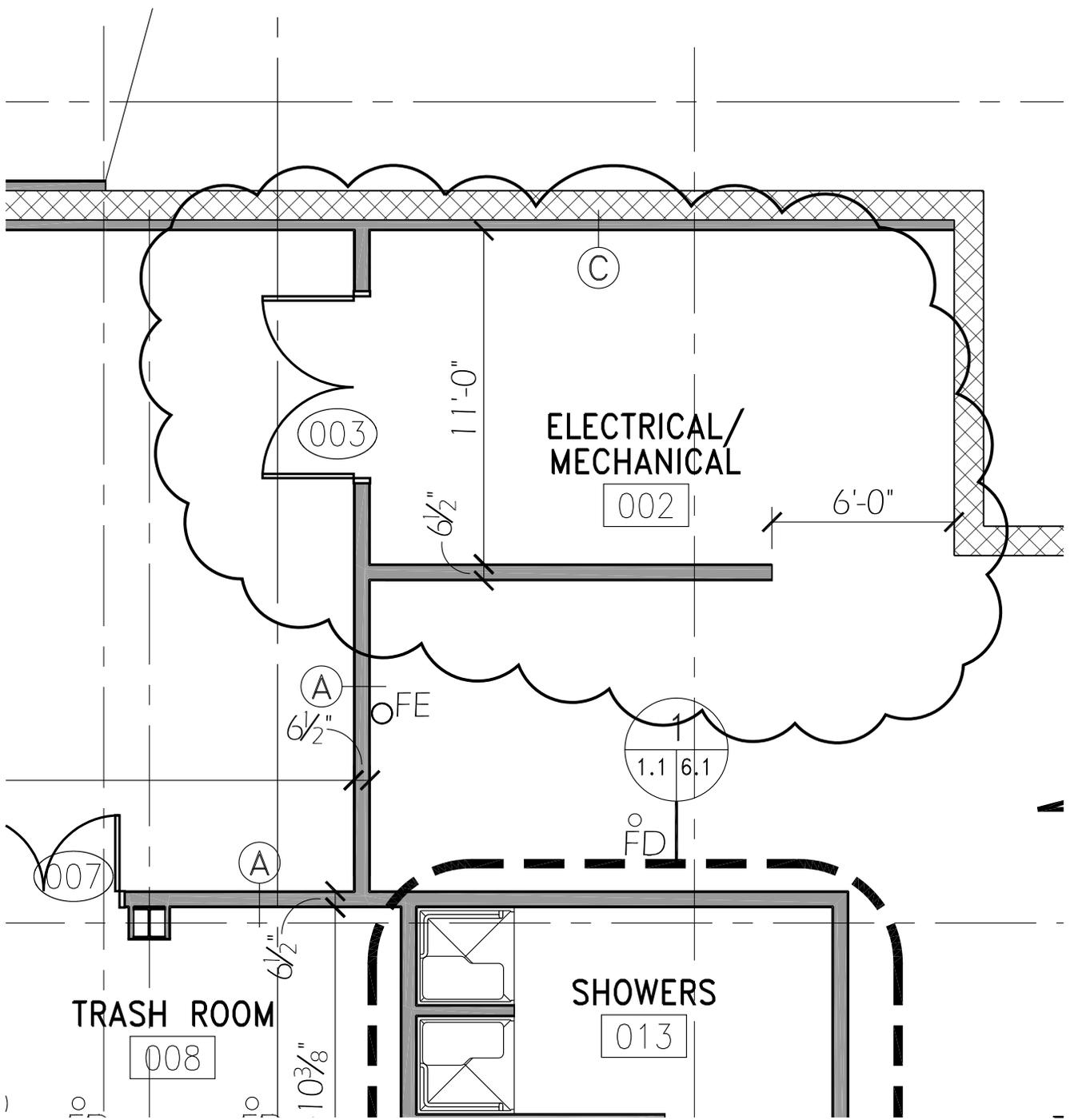
All other requirements, terms and conditions of the ITB remain unchanged.

Addendum page must be signed and returned with your proposal to acknowledge receipt of this addendum.

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Authorized Signature

By: Pat Hilliard, CPPB  
Purchasing Agent



**LOWER LEVEL PLAN**

1/8" = 1'-0"