

ADDENDUM #1

1.1 PROJECT INFORMATION

- A. Project Number: 2022-622
- B. Project Title: Moses Lake (Armory) HVAC Replacement
- C. Project Location: 6500 32<sup>nd</sup> Avenue NE, Moses Lake, WA
- D. Agency: Washington Military Department, Army National Guard

1.2 NOTICE TO BIDDERS

- A. The following clarifications, changes, additions, and/or deletions are considered Addendum No. 1, and are hereby made a part of the contract documents. All bidders are required to base their bid upon the information furnished in this addendum and as required in the contract documents. The Contractor is required to acknowledge Addendum No. 1 in their company proposal. Failure to acknowledge an addendum on the bid form will result in the bid proposal being declared non-responsive.
- B. The Bidder shall acknowledge receipt of this Addendum in the appropriate space on the Bid Form.

1.3 ATTACHMENTS

- A. Pre-Bid Site Visit Attendance List..... 1-3
- B. Spec Section 238126 – Split System Fan Coils, dated June 6, 2023..... 1-5

1.4 REVISIONS TO SPECIFICATIONS

- A. Spec Table of Contents  
 ADD  
 NJJ 238126 Split System Fan Coils ..... 1-5

- B. Spec 083113 – Access Doors and Frames, Paragraph 3.4 Access Doors and Frames Schedule

Location	Qty	Size	Type	Description	Remarks
DELETE					
Rm 106B	1	24"x30"	AP.1	TM Series	EF-14 (replace 18x18 w/ 24x30)

- C. Spec 238126 – Split System Fan Coils  
 Add this section dated June 5, 2023 in it's entirety

1.5 REVISIONS TO DRAWINGS SHEETS

- A. Sheet AD-102 Demo Reflected Ceiling Plan  
 Base Bid Key Notes  
 DELETE  
 REMOVE UNIT HEATER AND REPALCE IN KIND. SEE MECH & ELECT (TYPE UH-1 THROUGH UH-11)  
 CLARIFICATION – Replacement of unit heaters was removed from the project.

Key note 2

DELETE

ALT #2 REMOVE CEILING TILES & SUSPENDED GRID AS REQ'D TO REMOVE RETURN GRILLES AND RPLACE WITH FILTER GRILLES (TYP 9 LOCATIONS) AND RMOVE 4'X4' SECTION OF GYP BD CEILING TO REMOVE RETURN GRILL AND REPLACE WITH FILTER GRILLE. REPAIR GYP BD CLG ASSEBLY, PRIME AND PAINT TO MATCH EXISTING.

REPLACE WITH

ALT #1 REMOVE CEILING TILES & SUSPENDED GRID AS REQ'D TO REMOVE RETURN GRILLES AND RPLACE WITH FILTER GRILLES (TYP 9 LOCATIONS) AND RMOVE 4'X4' SECTION OF GYP BD CEILING TO REMOVE RETURN GRILL AND REPLACE WITH FILTER GRILLE. REPAIR GYP BD CLG ASSEBLY, PRIME AND PAINT TO MATCH EXISTING.

- B. Sheet AD-102 Demo Reflected Ceiling Plan, Demo Reflected Ceiling Plan, Room 106

DELETE

Note "EF-14A with keynote M

CLARIFICATION

Replacement of EF-14A has been removed from the project scope

- C. Sheet A-102 Reflected Ceiling Plan, Reflected Ceiling Plan, Room 106

DELETE

Note "EF-14A with keynote M

CLARIFICATION

Replacement of EF-14A has been removed from the project scope

- D. Sheet A-103 Roof Plan,, note in text box

DELETE

Contractor for 2015 Project: Axiom Corporation (509) 532-1761

REPALCE WITH

Contractor for 2015 Project: ICON Corporation (509) 532-1761, see TPO Spec

- E. Sheet A-103 Roof Plan, rectangular area over 911 call center, call-out note with leader arrow

DELETE

ALTERNATE BID #1

REPLACE WITH

FUTURE (NIC)

- F. Sheet M-201 – Level 1 HVAC

KEY NOTES,

ADD general note

Notes 1 and 2 "refer to Air Outlet Schedule, sheet M-002

END OF ADDENDUM #1

Please Print

ATTENDANCE SHEET (continued)

	Name (Print) Agency/Firm	Project Role	Contact Info
10	Name Jaime Torres Agency/Firm Bruce Mech.	Role Estimating	Phone 509-948-4233 Email jaimet@bruceinc.com
11	Name Bruce Miller Agency/Firm m5 Takisaki .Com	Role	Phone 509-244-7080 Email BruceM@Takisaki.com
12	Name TRACY RAVER Agency/Firm VET-FIRST	Role SUPERINTEND	Phone 509 945 9603 Email TRACYR@VET-FIRST.COM
13	Name JOE MENARD Agency/Firm MBI	Role Estimator	Phone 509 388 8394 Email joc@mbiyakima.com
14	Name Claudio Penaloza Agency/Firm CP Mechanical LLC	Role president	Phone 509-910-5027 Email CPmechanical@charter.net
15	Name Shane Tucker Agency/Firm McKinstry	Role Estimating	Phone 509-929-9544 Email shant@McKinstry.com
16	Name TRACY HARTMAN Agency/Firm POLHAMUS HEATING & A/C	Role INSTALL <del>MACRO</del> WATER	Phone 509 760 - 9021 Email t.hartman @ POLHAMUS HEATING & A/C HEATING.COM
17	Name Brandon Wilson Agency/Firm APEX mechanical	Role	Phone 509-720-3989 Email Bc.wilson@Apexmechanical.com
18	Name Dave Carlson Agency/Firm POLHAMUS HTG	Role	Phone 509-760-4722 Email DC@POLHAMUSHEATING.COM

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ATTENDANCE SHEET (continued)

Name (Print) Agency/Firm		Project Role	Contact Info
10	Name Phil Repel	Role Sales	Phone 509-670-5534
	Agency/Firm Columbia Crane		Email phil@columbiacrane.com
11	Name Andres Perez	Role GC	Phone 15091961-8592
	Agency/Firm HEC		Email hec.kwon.gardner@hotmail.com
12	Name	Role	Phone
	Agency/Firm		Email
13	Name	Role	Phone
	Agency/Firm		Email
14	Name	Role	Phone
	Agency/Firm		Email
15	Name	Role	Phone
	Agency/Firm		Email
16	Name	Role	Phone
	Agency/Firm		Email
17	Name	Role	Phone
	Agency/Firm		Email
18	Name	Role	Phone
	Agency/Firm		Email

## SECTION 238126 – SPLIT SYSTEM FAN COILS

### 1.1 SUMMARY

- A. This section includes the design, controls and installation requirements for air-cooled heat pump split systems, fan coils and air handling units.
- B. This section applies to the following equipment: AH-#'s, CL-#'s, CU-#'s and F-#'s.

### 1.2 SUBMITTALS

- A. Product Data: Literature shall be provided that indicates dimensions, operating and shipping weights, capacities, ratings, factory supplied accessories, electrical characteristics, and connection requirements. Installation, Operation and Maintenance manual with startup requirements shall be provided.
- B. Shop Drawings: Unit drawings shall be provided that indicate assembly, unit dimensions, construction details, clearances, and connection details. Wiring diagram shall be provided with details for both power and control systems and differentiate between factory installed and field installed wiring.

### 1.3 QUALITY ASSURANCE

- A. Unit shall be certified in accordance with UL Standard 1995/CSA C22.2 No. 236, Safety Standard for Heating and Cooling Equipment.
- B. Unit and refrigeration system shall comply with ASHRAE 15, Safety Standard for Mechanical Refrigeration.
- C. Unit shall be safety certified by ETL and be ETL US and ETL Canada listed. Unit nameplate shall include the ETL/ETL Canada label.
- D.

### 1.4 DELIVERY, STORAGE, AND HANDLING

- A. Unit shall be shipped on a wooden pallet and crated prior to shipment with doors bolted shut to prevent damage during transport and thereafter while in storage awaiting installation.
- B. Follow Installation, Operation and Maintenance manual instructions for rigging, moving, and unloading the unit at its final location.
- C. Unit shall be stored in a clean, dry place protected from construction traffic in accordance with the Installation, Operation and Maintenance manual.

### 1.5 WARRANTY

- A. Manufacturer shall provide a limited “parts only” warranty for a period of 12 months from the date of equipment startup or 18 months from the date of original equipment shipment from the factory, whichever is less. Warranty shall cover material and workmanship that prove defective, within the specified warranty period, provided manufacturer’s written instructions for installation, operation and maintenance have been followed. Warranty excludes parts associated with routine maintenance and refrigerant.

## PART 2 - PRODUCTS

### 2.1 MANUFACTURER

- A. Products shall be provided by the following manufacturers:
  - 1. York
  - 2. JCI
  - 3. Enviro-Tec
  - 4. Fraser-Johnston
  - 5. Daiken
  - 6. Nailor
  - 7. Approved Equal

### 2.2 INDOOR UNIT

- A. The indoor mounted heating and cooling blower-coil units shall be as scheduled on the drawings and as indicated in the following configurations:
  - 1. Horizontal Ducted Packaged Units
  - 2. Horizontal Ducted Modular Units
- B. Units shall be completely factory assembled and tested. Units shall include all required factory wiring, piping, electronic controls, expansion valve, fan(s) and motor, condensate drain pan, condensate safety shut-off and alarm and coil piping connections.
- C. Unit Cabinet:
  - 1. Concealed Units shall have metal cabinets with flanges for ductwork connections and pipe stubs for piping connections.
- D. Fans:
  - 1. Unit fans shall be direct-drive DC (ECM) fans with multi-speed selector switch.
  - 2. Fan motors shall be thermally protected.
- E. Electric heating coils:
  - 1. Coils: Circular copper clad steel sheathed element with continuously brazed steel fins, or nickel-chromium wire elements enclosed in powder filled aluminum coated steel tubes with spiraled fins. Elements shall be resistant to thermal shock and vibration.
  - 2. 2-stage control or as scheduled.
  - 3. Provide with factory air flow proving safeties.
- F. Filters: Merv 13.
- G. Coils:
  - 1. DX coils shall be copper tube with aluminum fins, specifically designed for R-407c systems.
- H. Electrical power supply and voltage shall be as indicated on the equipment schedules.

### 2.3 OUTDOOR CONDENSING UNIT

- A. Air-Cooled, Compressor-Condenser Components:

1. Casing: Steel, finished with baked enamel in color selected by Architect, with removable panels for access to controls, weep holes for water drainage, and mounting holes in base. Provide brass service valves, fittings, and gage ports on exterior of casing.
2. Compressor: Hermetically sealed with crankcase heater and mounted on vibration isolation device. Compressor motor shall have thermal- and current-sensitive overload devices, start capacitor, relay, and contactor.
  - a. Compressor Type: Scroll.
  - b. Two-speed compressor motor with manual-reset high-pressure switch and automatic-reset low-pressure switch.
  - c. Refrigerant Charge: R-407C
  - d. Refrigerant Coil: Copper tube, with mechanically bonded aluminum fins and liquid subcooler. Comply with ARI 210/240.
3. Fan: Aluminum-propeller type, directly connected to motor.
4. Motor: Permanently lubricated, with integral thermal-overload protection.
5. Low Ambient Kit.
6. Mounting Base: Polyethylene.

B. Fans

1. Condenser fan shall be vertical discharge, axial flow, direct drive fans.
2. Fan motor shall be weather protected, single phase, direct drive, and open drip proof with inherent overload protection.

C. Coils

1. Coils shall be designed for use with R-410A refrigerant and constructed of copper tubes with aluminum fins mechanically bonded to the tubes and aluminum end casings. Fin design shall be sine wave rippled.
2. Coils shall be designed for a minimum of 10°F of refrigerant sub-cooling.
3. Coils shall be hydrogen or helium leak tested.

## 2.4 CONTROLS

1. Provide factory terminal strip for full integration with DDC system or fully vendor provided DDC controls. See control diagrams for required points and sequences.

## PART 3 - EXECUTION

### 3.1 INSTALLATION, OPERATION, AND MAINTENANCE

- A. Installation, Operation and Maintenance manual shall be supplied with the unit.
- B. Installing contractor shall install unit, including field installed components, in accordance with Installation, Operation and Maintenance manual instructions.
- C. Start up and maintenance requirements shall be complied with to ensure safe and correct operation of the unit.

END OF SECTION

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