



State of Utah

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Executive Director

Division of Facilities Construction and Management

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Director

ADDENDUM NO. 1

Date: September 20, 2010

To: Contractors

From: Craig Wessman

Reference: Medical/Technology Center Chiller Replacement
Davis Applied Technology Center ó Kaysville, Utah

Project No.10187220

Subject: **Addendum No. 1**

Pages	Addendum	1 page
	<u>Engineers Addendum</u>	<u>3 pages</u>
	Total	4 pages

Note: *This Addendum shall be included as part of the Contract Documents. Items in this Addendum apply to all drawings and specification sections whether referenced or not involving the portion of the work added, deleted, modified, or otherwise addressed in the Addendum. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to Disqualification.*

1.1 SCHEDULE CHANGES ó There are no schedule changes for this project.

1.2 GENERAL ó Van Boerum & Frank Associates ó Please see attached.

Utah!
Where ideas connect

September 20, 2010

10187220

Davis Applied Technology College
Med/Health Tech Building Chiller

SECTION - 262923 Variable Frequency Motor Controllers

1. Delete paragraphs 2.1 F, 2.1 G and 2.1 H
2. Add the following paragraph in the place of the above paragraphs.
 - A. Bypass Systems:
 - 1) Bypass Mode: Manual operation only.
 - 2) Bypass Controller: Three-contactor style, with bypass and input and output isolating contactors and isolating switch.
 - 3) Bypass Contactor Configuration: Full-voltage (across the line) type.

SECTION - 232500 Chemical Water Treatment

1. The chilled water system does not have a clear point of shut off an isolation valves. Therefore the chemical water treatment shall plan on making up water and treatment for the entire buildings chilled water system. Field verify existing conditions and scope of work.
2. Paragraph 1.2 A 1 – delete 15% propylene glycol. The chilled water system will be a treated water system.
3. Provide water treatment for condenser water system.
 - A. Condenser Water Treatment: Sequestering agent and corrosion scale inhibitor pumped from solution tank into water.
 - 1) Acid Treatment System: (Data logging/modem)
 - 2) Chemicals:
 - a) Corrosion/Scale inhibitor
 - b) Bromine/chlorine oxidizing biocide
 - c) Condenser Water (Cooling Tower) System Chemicals: Sequestering agent to inhibit scaling, corrosion inhibitor, and biocide.

SECTION - 232123 Hydronic Pumps

1. Delete paragraph 2.5 B – “Triple-Duty Valve: Not Allowed”.

SECTION - 236426 Rotary Screw Water Chiller

1. Scroll Compressors are not acceptable.
2. Regarding paragraph 3.7 A 1.
 - A. Provide a minimum of 4 hours of training.
3. Add the following paragraph 2.1 12.

“Head pressure control: “Chiller control panel to produce a 4-20mA signal for condenser bypass valve head pressure control.” “Bypass valve provided by others, installed by mechanical contractor, and wired by ATC contractor. Separate power to be provided to bypass valve, and not to be powered by chiller.”

SHEET - M1.1

1. The user/college has abandoned the use of the existing glycol mixture in the chilled water system. Extend the existing 1-inch make up water line and bypass the glycol feed unit and extend and tie into the existing chilled water system. Approximately 20 feet of 1-inch copper piping. Provide and install bypass feeder and cold water meter as specified in section 23500 Chemical Water Treatment.
2. Regarding the Cooling Tower
 - A. One of the existing cooling tower water distribution pipes is cracked. Replace the existing 8-inch pipe with new (approx 12 feet). Piping shall be supplied by cooling tower manufacturer. Contact local representative Holbrook and Assoc Inc (801-308-0128).
 - B. Replacement of piping is base bid and not alternate No 1.

SHEET - M7.1

1. Provide and install a 2-inch bypass line located near existing air handler AH-9. Extend and connect a 2-inch bypass line from the existing chilled water return main (2-inch) to the chilled water supply main (2-inch). The bypass line shall have a auto flow control valve (30 gpm) and (2) isolation valve on either side of the auto flow control valve.

SHEET - M5.1

1. Chiller Schedule:
 - A. Chiller ID shall be CH-2 in lieu of CH-1
 - B. Change working fluid in evaporator from 15% PG to water.
2. Pump Detail 2/M5.1.
 - A. Triple duty valve as shown is preferred. Delete paragraph in section 232123 stating "Triple Duty Valve: Not Allowed".
 - B. Do not provide suction diffuser on condenser water pump P-6.
3. Chiller Detail 1/M5.1
 - A. Provide a strainer on the chilled water and condenser water inlet to the chiller.
 - B. Strainer shall be a 20 mesh filter with gauge ports on inlet and outlet side of screen and debris flush port.

The following manufacturers, trade names and products are allowed to bid on a name brand only basis with the provision that they completely satisfy all and every requirement of the drawings, specifications and all addenda shall conform to the design, quality and standards specified, established and required for the complete and satisfactory installation and performance of the building and all its respective parts.

<u>Chemical Water Treatment</u>	<u>Alpine Technical Services</u>	<u>APPROVED</u>
Chiller	Aermec	NOT APPROVED
Pumps	Flo Fab	NOT APPROVED
Gas Regulators	Governor	NOT APPROVED
Pump Suction Diffusers	Flo Fab	NOT APPROVED
Triple Duty Valves	Flo Fab	NOT APPROVED
Pressure Gauges	Flo Fab	NOT APPROVED
Thermometers	Flo Fab	NOT APPROVED
Airtrol Fittings	Flo Fab	NOT APPROVED
Flex Connectors	Flo Fab	NOT APPROVED
Y-Strainers	Flo Fab	NOT APPROVED
Manual Air Vents	Flo FaB	NOT APPROVED
Auto Air Vents	Flo Fab	NOT APPROVED
Gauge Cocks	Flo Fab	NOT APPROVED

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Venturi	Flo Fab	NOT APPROVED
Balancing Valves	Flo Fab	NOT APPROVED
Chiller	McQuay	NOT APPROVED
Y Strainers	Titan	APPROVED
Check Valves	Titan	APPROVED
Flex Connectors	Flex Hose	APPROVED
Flex Connectors	Twin City Hose	APPROVED
Chiller – Scroll Type	York	NOT APPROVED
Calibrated Balance Balve	Nexus	NOT APPROVED