

ADDENDUM #2

DATE: Sept. 09, 2015

PROJECT: Rome-Floyd Health Dept. HVAC Upgrades

OWNER: Floyd County, GA

ENGINEER: Drinkard Engineering Group, Inc.

TO: All Bidders

This Addendum forms a part of the Contract Documents and modifies the Bidding Documents, with amendments and additions noted below.

Acknowledge receipt of this Addendum on the Bid Form. Failure to do so may disqualify the Bidder.

CHANGES TO BID PACKET

1. Replace Plan Sheet E3-0 with attached E3-0.
2. Append this sentence to specification section 15620 paragraph 2.1.B. – “Triple duty valves shall be included on the discharge of the pumps. Pump shall be manufactured by Armstrong, Taco, or Bell & Gossett.”

ANSWERS TO QUESTIONS

1. Clarification: The chiller basis of design is a Trane RTAC-185, designed to deliver 160 tons capacity at 42 degree LWT with a 30% glycol solution.
2. The plans show a 3” CHW pipe running up to the lower roof where a 2” CHW branch takes off to the new RTU-1. Should that be a 5” pipe instead of a 3” pipe? YES, THE PIPE SHOULD REMAIN A 5” PIPE UNTIL AFTER THE BRANCH TEE TO RTU-1. IT THEN REDUCES TO A 3” PIPE FOR THE RUN TO ERU-2.
3. Drawing M0-4 Chilled water piping schematic indicates chilled water pump piped to each chiller. Below the schematic there is a note that states “Pumps onboard chillers” There is no equipment schedule for these pumps or location provide on documents, please provide this information. SEE CHILLER SCHEDULE. THE PUMPS ARE PROVIDED BY THE CHILLER MANUFACTURER ON BOARD THE CHILLERS.
4. Drawing M0-4 CHW Piping Diagram shows an Expansion tank, Air Separator and Chemical Feeder, there is no schedule for those items. Please provide the performance criteria for those items. SEE ATTACHED SPECIFICATION SECTION 15723.
5. During the HVAC equipment replacement, the bldg. air condition will not be available, what provision has the owner made, use of OA? Please advise. THE COUNTY WILL NOT REQUIRE THE CONTRACTOR TO MAINTAIN A CERTAIN TEMPERATURE THROUGHOUT THE BUILDING DURING THE PROJECT AS A RESULT OF DEMOLITION WORK. THE COUNTY WILL EXPECT ADEQUATE ADVANCE NOTICE

FROM THE CONTRACTOR TO MAKE ACCOMMODATIONS IF AIRFLOW FOR THE
INDIVIDUAL HEATING UNITS WILL AFFECTED FOR ANY PERIOD OF TIME
GREATER THAN TWO HOURS.

6. Mechanical drawings M-03 and M4-3 show new duct smoke detectors in the ductwork for the air handlers. The electrical drawings E1-0 thru E3-0 do not show any type of fire alarm devices and or notes addressing the new F/A devices in the ductwork. Will owner F/A provider be performing this works or contractor? a. Please provide drawing showing the schematic of the new F/A devices (Duct Smoke Defectors), and panel to which they will be wired to. b. Will the contractor be responsible for re- programing the existing F/A panel(s) or is this work by the Owner? c. If this work is by contractor, does the bldg. owner require a specific F/A Vendor/Contractor to this work? If so, please provide contact info. CONTRACTOR IS RESPONSIBLE FOR ALL WORK REQUIRED FOR FIRE ALARM DUCT DETECTOR MODS/ADDS. THE OWNER'S CURRENT FIRE ALARM/MONITORING COMPANY IS OWEN SECURITY SOLUTIONS IN CALHOUN, GA. THEIR CONTACT NUMBER IS 706-629-7398.
7. During construction will the bldg. utilities be available to the contractor? PUBLIC RESTROOMS IN THE BUILDING WILL BE AVAILABLE FOR USE BY THE CONTRACTOR.
8. Does the owner have a roof warranty in place at this time? Who provides service for this warranty? CONTACT INFO FOR THE ROOF INSTALLER IS ATTACHED.

END OF DOCUMENT

SECTION 15723

CHILLED WATER SYSTEM ANCILLARY EQUIPMENT

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Air Separator
- B. Expansion Tank
- C. Chemical Feeder

1.2 SUBMITTALS

- A. No equipment shall be fabricated or delivered until the receipt of approved shop drawings from the Owner or Owner's approved representative.
- B. The equipment manufacturer shall provide appropriate sets of submittals as referenced in the General Conditions and shall submit to the Owner electronic copies of the IOM. The equipment manufacturer shall list any exceptions to the specification.

1.3 OPERATION AND MAINTENANCE DATA

- A. Submit operation and maintenance data.
- B. Include start-up instructions, maintenance data, controls, and accessories.

1.4 QUALITY ASSURANCE

- A. ISO 9001 Certification.

1.6 STORAGE AND HANDLING

- A. Comply with manufacturer's installation instructions for rigging, unloading, and transporting units.
- B. Installing contractor shall be responsible for storing equipment in a clean, dry place and protect from weather and construction traffic. Handle carefully to avoid damage to components, enclosures, and finish.

1.7 WARRANTY

- A. Manufacturer shall provide, at no additional cost, a standard parts warranty that covers a period of one year from unit start-up or 18 months from shipment, whichever occurs first. This warrants that all products are free from defects in material and workmanship and shall meet the capacities and ratings set forth in the equipment manufacturer's catalog and bulletins.

PART 2 PRODUCTS

2.1 SUMMARY

- A. The contractor shall furnish and install equipment as specified herein.
- B. APPROVED MANUFACTURERS
 - 1. Bell & Gossett
 - 2. Taco

2.1 AIR SEPARATOR

- A. Furnish and install a centrifugal type air separator. The unit shall have a 5" inlet and outlet with flanged connections tangential to the vessel shell. The unit shall have an internal type 304 stainless steel strainer and air separator with 3/16" perforations and 51% open area designed to direct accumulated air to the air compression tank (air control) or air vent (air elimination) via an NPT vent connection at the top of the unit.
- B. A blowdown connection shall be provided to facilitate cleaning. Unit shall have Bell & Gossett model MBV-1 Rolairtrol accessory with appropriate fittings for manual blowdown.
- C. Vessel shell diameter to be three times the nominal inlet/outlet pipe diameter, with a minimum vessel volume for sufficient velocity reduction.
- D. The air separator must be designed, constructed, and stamped for 125 psig @ 375 degrees F in accordance with Section VIII, Division 1 of the ASME Boiler and Pressure Vessel Code, and registered with the National Board of Boiler and Pressure Vessel Inspectors. The vessel shall be painted with one shop coat of light gray air dry enamel.
- E. Air separator shall be Bell & Gossett model number R-5F Rolairtrol air separator for 500 GPM, shell diameter 19-3/8", and minimum vessel volume of 25 gallons.

2.2 EXPANSION TANK

- A. Furnish and install a 13 gallon, 12" diameter, 37-1/16" high pre-charged steel expansion tank with heavy duty replaceable Butyl rubber bladder. The tank shall have a 1" NPT system connection, with a 3/4" NPT drain, and a 0.302"-32NC charging valve connection (standard tire valve) to facilitate on site charging of the tank to meet system requirements.
- B. The tank shall be fitted with lifting rings and a floor mounting skirt for vertical installation.
- C. The tank shall be constructed in accordance with Section VIII, Division 1 of the ASME Boiler and Pressure Vessel Code, and stamped 125 psi working pressure.
- D. Tank shall be Xylem Industries - Bell & Gossett model number B-50LA.

2.3 CHEMICAL FEEDER

- A. Furnish and install a 5 gallon steel chemical bypass feeder.
- B. The unit shall be rated for 300 psi working pressure at 200 degrees F.
- C. The unit's tank shell shall be constructed of min. 10 gauge steel, and the tank head shall be constructed of min. 9 gauge steel. The cap shall be cast iron with Buna N ring, with wide mouth for easy opening and closing
- D. Chemical feeder shall be Neptune model number VTF-50HP.

END OF SECTION



ROME—FLOYD COUNTY
HEALTH DEPARTMENT
16 EAST 12TH STREET SW
ROME, GA 30161
RYAN DAVIS, FACILITIES DIRECTOR

FLOYD COUNTY
HEALTH DEPT. HVAC
UPGRADES

de DRINKARD
ENGINEERING GROUP, INC.
119 SOUTH BROAD ST. ROME, GA 30161
PH. (706) 237-6013

General Notes

NOTICE
DRINKARD ENGINEERING GROUP, INC.
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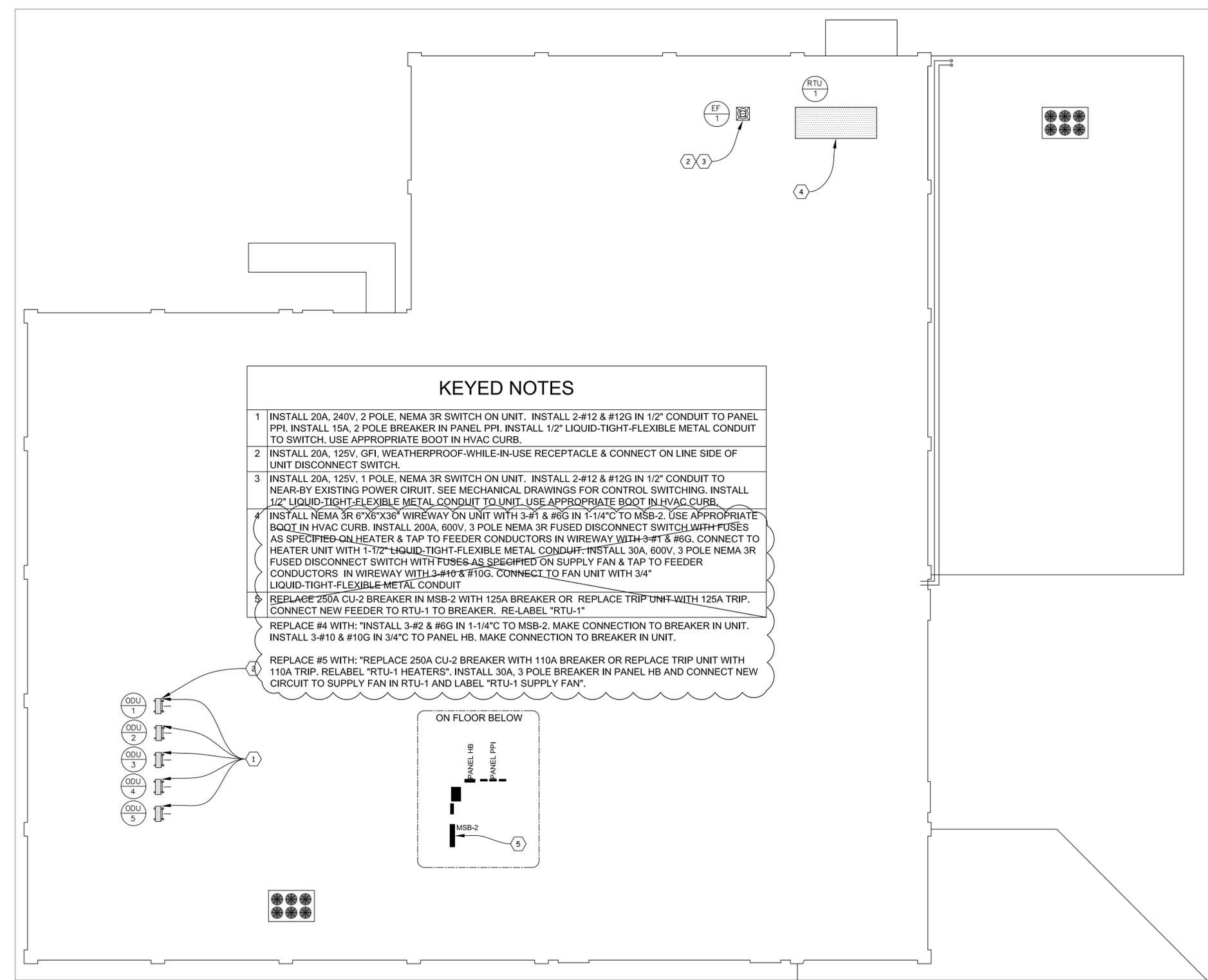
ISSUED FOR OWNER REVIEW	06/25/15
ISSUED FOR BIDDING	08/28/15

DRAWING TITLE
CHILLER POWER PLAN

PROJECT NO. 705-1403	SCALE AS SHOWN		
APPROVED	CHECKED	DRAWN	DATE
	WT	WT	08/28/15

DRAWING NO.

E3-0



- KEYED NOTES**
- INSTALL 20A, 240V, 2 POLE, NEMA 3R SWITCH ON UNIT. INSTALL 2-#12 & #12G IN 1/2" CONDUIT TO PANEL PPI. INSTALL 15A, 2 POLE BREAKER IN PANEL PPI. INSTALL 1/2" LIQUID-TIGHT-FLEXIBLE METAL CONDUIT TO SWITCH. USE APPROPRIATE BOOT IN HVAC CURB.
 - INSTALL 20A, 125V, GFI, WEATHERPROOF-WHILE-IN-USE RECEPTACLE & CONNECT ON LINE SIDE OF UNIT DISCONNECT SWITCH.
 - INSTALL 20A, 125V, 1 POLE, NEMA 3R SWITCH ON UNIT. INSTALL 2-#12 & #12G IN 1/2" CONDUIT TO NEAR-BY EXISTING POWER CIRUIT. SEE MECHANICAL DRAWINGS FOR CONTROL SWITCHING. INSTALL 1/2" LIQUID-TIGHT-FLEXIBLE METAL CONDUIT TO UNIT. USE APPROPRIATE BOOT IN HVAC CURB.
 - INSTALL NEMA 3R 6"x6"x36" WIREWAY ON UNIT WITH 3-#1 & #6G IN 1-1/4"C TO MSB-2. USE APPROPRIATE BOOT IN HVAC CURB. INSTALL 200A, 600V, 3 POLE NEMA 3R FUSED DISCONNECT SWITCH WITH FUSES AS SPECIFIED ON HEATER & TAP TO FEEDER CONDUCTORS IN WIREWAY WITH 3-#1 & #6G. CONNECT TO HEATER UNIT WITH 1-1/2" LIQUID-TIGHT-FLEXIBLE METAL CONDUIT. INSTALL 30A, 600V, 3 POLE NEMA 3R FUSED DISCONNECT SWITCH WITH FUSES AS SPECIFIED ON SUPPLY FAN & TAP TO FEEDER CONDUCTORS IN WIREWAY WITH 3-#10 & #10G. CONNECT TO FAN UNIT WITH 3/4" LIQUID-TIGHT-FLEXIBLE METAL CONDUIT
 - REPLACE 250A CU-2 BREAKER IN MSB-2 WITH 125A BREAKER OR REPLACE TRIP UNIT WITH 125A TRIP. CONNECT NEW FEEDER TO RTU-1 TO BREAKER. RE-LABEL "RTU-1"
REPLACE #4 WITH: "INSTALL 3-#2 & #6G IN 1-1/4"C TO MSB-2. MAKE CONNECTION TO BREAKER IN UNIT. INSTALL 3-#10 & #10G IN 3/4"C TO PANEL HB. MAKE CONNECTION TO BREAKER IN UNIT.
REPLACE #5 WITH: "REPLACE 250A CU-2 BREAKER WITH 110A BREAKER OR REPLACE TRIP UNIT WITH 110A TRIP. RELABEL "RTU-1 HEATERS". INSTALL 30A, 3 POLE BREAKER IN PANEL HB AND CONNECT NEW CIRCUIT TO SUPPLY FAN IN RTU-1 AND LABEL "RTU-1 SUPPLY FAN".

HVAC POWER ROOF PLAN
SCALE: 3/32" = 1'-0"



BUILDING PRODUCTS

PRE-INSTALLATION NOTICE

RubberGard EPDM/UltraPly 78+/UltraPly TPO

STATUS: Accepted
FBPCO No: BA7311

(Firestone File Number)

Page 1 of 1

Start Date: October 15, 2004 Note: Must be completed 2 weeks prior to start of project.

NOTE: Only information entered in PIN is shown on this report

1. Firestone Contractor (Firm Name): JDH Company, Inc. 2. Firestone License No: 07228
 3. Address: P.O. Box 28053 Chattanooga TN 37424 USA
 (423) 265-7603 (423) 265-7347

WARRANTY DATA The warranty will be printed using the information as submitted on this form.

4. Building Name: FLOYD COUNTY HEALTH DEPT
 5. Building Address: EAST 12th ST ROME GA 30165 US
 6. Owner (company): FLOYD COUNTY HEALTH DEPT 7. Contact Name: _____
 8. Owner Address: EAST 12th ST
ROME GA 30165 US
 9. Specifier Architect 0

INSTALLATION DATA

10. Warranty Request Red Shield Warranty Length 20 Yr Membrane Warranty No Membrane Warranty Length _____
 11. Job Size 40000 Dimensions X 12. Roof Height 24 13. Parapet Height 24
 14. Roof Slope 1:4 14a. Roof Slope Other _____ 15. Increased Wind Speed Warranty No MPH _____

System / Construction / Decks / Insulation / Membrane Information

16. System Type: Adhered - TPO 17. Construction Type: New 18. Number of Decks: 1
 Deck Type 1: Steel Gauge 22 Other: _____
 19. Number of Layers of Insulation: 1
 Base Layer: ISO 95+ Thickness 2.0 (50.8) Other _____ Thickness _____
 Attachment: Firestone Fasteners Length / Type: 4 in. (101.6 mm) Heavy Duty Fastener Rate: 16 Per Board App. Layout: _____ Other: _____
 20. Membrane Type: UltraPly TPO Membrane Gauge: .060 Fasteners: _____ Length: _____
 21. Design Layout NO.: _____ 22. Membrane Surfacing Type: None Rate _____ Other: _____

Additional Information:

6/11/04 Approved as Submitted hcc
Tech Rep. Larry Spicer

27. Roof Accessibility: Roof Hatch Ladder Length: _____ ARD with PIN No
 28. Forman Name: TBD Reviewed by: Herb Clarkson -- 06/11/2004 7:253
 Address: **525 Congressional Blvd.** Phone: **800-428-4511** For PIN Questions and Answers contact: Herb Clarkson 77253
Carmel, IN 46032 Fax: **800-242-0504** For Other Questions and Answers contact: Kurt Webb -- 7096 -- 7096
 30. Certification: I certify to the best of my knowledge the above information is accurate. Tech Rep assigned is: Larry Spicer -- 7110
 Submitted By: FRED PITTS Company: JDH CO INC Date: 06/03/2004