Energy Plant Repairs and Modifications University of South Carolina State Project Number: H27-Z215

Addendum 3

November 8, 2017

NOTE: The following amendments, additions, and deletions shall be made to the Construction Documents and Contract Documents. Insofar as those documents are at variance with this Addendum, this Addendum shall govern.

Clarifications

<u>Item No.</u> <u>Description</u>

- 1. The bid closing date shall be postponed to November 15 at 2:00 PM. The bid opening shall be in the same location as indicated in the SE-310.
- 2. <u>Clarification:</u> Reference USC Supplemental General Conditions for Construction Projects Items 7-10. This section describes the project fencing requirements for the project around the work area.
- 3. <u>Clarification:</u> Reference Section 230700 HVAC Insulation paragraph 2.4. This section describes the insulation thickness for the underground piping as described in Addendum 1.

Drawings

<u>Item No.</u> <u>Description</u>

- 1. <u>Revision:</u> Reference Drawing M1 Site Plan at Blossom St. Where underground pipe is routed, contractor shall saw cut existing asphalt and patch asphalt to SCDOT Standard Specifications. Where underground pipe is routed, contractor shall saw cut existing sidewalk and patch sidewalk to match existing.
- 2. <u>Revision:</u> Reference Drawing E1 West Energy Facility Basement Electrical Plan. See attached revised drawing. This drawing revises the MCC modifications in notes 2, 3, and 6.

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Specifications

Item No. Description

- 1. <u>Revision:</u> Reference Addendum 2 Item 4. The question was asked if standard wall pipe is acceptable for pipe that is 12" and larger. Delete previous response in Item 4. Standard wall pipe for pipe 12" and larger is acceptable.
- 2. <u>Revision:</u> Reference Section 230500 HVAC. Reference Paragraph 2.3. Change this section to read as follows. Note that butt-weld fittings are at the contractor's option.

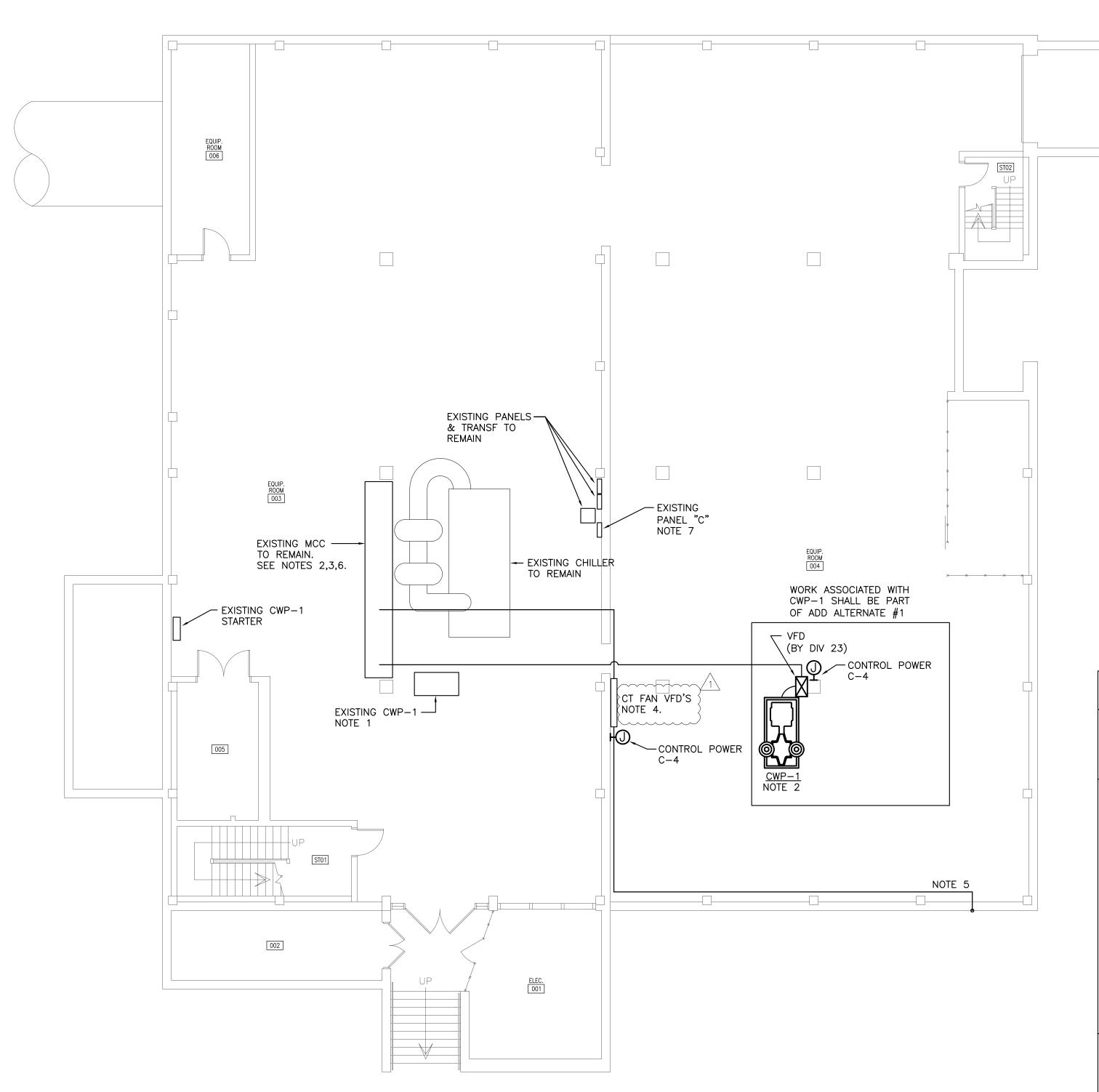
2.1 SCHEDULE OF PIPING

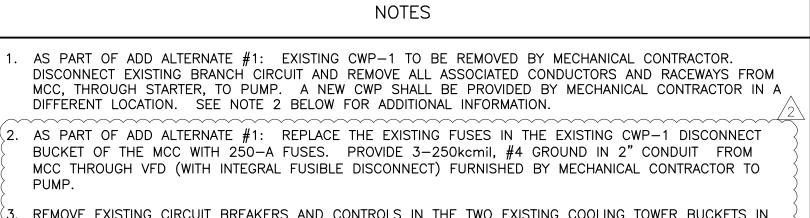
SERVICE	ITEM	PIPING	FITTINGS	FLANGES OR UNIONS
Condenser Water - Open Loop (within building and underground)	10" & Smaller	Black steel steel Sch. 40 ASTM A-53	Butt-weld black steel steel Sch. 40	150 lb. forged black steel steel
Condenser Water - Open Loop (within building and underground)	12" & Larger	Black steel steel STD weight ASTM A-53	Butt-weld black steel steel Sch. 40	150 lb. forged black steel steel

END OF ADDENDUM

Attachments

E1 Rev 2





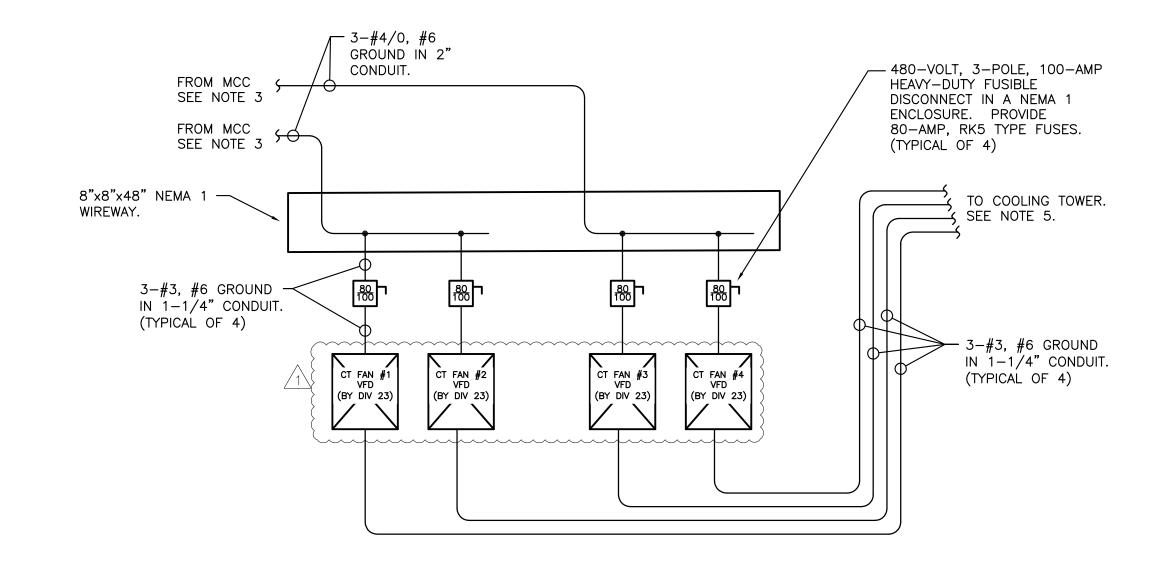
(3. REMOVE EXISTING CIRCUIT BREAKERS AND CONTROLS IN THE TWO EXISTING COOLING TOWER BUCKETS IN THE EXISTING MCC. PROVIDE A NEW BUCKET AND A 200-A CIRCUIT BREAKER IN EACH SPARE COMPARTMENT ABOVE EXISTING CONTROLS BUCKET TO FEED TWO COOLING TOWER FANS EACH. THE FEEDERS SHALL BE ROUTED TO A WIRING TROUGH ADJACENT TO COOLING TOWER FAN STARTER LOCATIONS SHOWN.

4. PROVIDE WIREWAY AND FUSED DISCONNECTS AT LOCATION OF COOLING TOWER FAN VFD'S. SEE DETAIL 3 / E2 FOR ADDITIONAL INFORMATION.

5. ROUTE RACEWAYS FROM STARTERS (FANS) AND MCC (HEATERS) TO COOLING TOWER. ROUTE OVERHEAD IN BASEMENT AS MUCH AS PRACTICAL AND PENETRATE EXTERIOR WALL BELOW GRADE AND EXTEND TO COOLING TOWER. SEE ELECTRICAL SITE PLAN ON SHEET E1 FOR ADDITIONAL INFORMATION.

6. REMOVE EXISTING CONTROLS IN THE TWO EXISTING COOLING TOWER HEATER BUCKETS IN THE EXISTING MCC. EXISTING 50-A CIRCUIT BREAKERS IN EACH BUCKET SHALL BE RE-USED TO FEED THE BASIN HEATERS AT THE COOLING TOWER. PROVIDE 3-#6, #8 GROUND IN 1" CONDUIT ROUTED TO COOLING TOWER ADJACENT TO COOLING TOWER FAN BRANCH CIRCUITS. SEE SHEET E1 FOR ADDITIONAL

7. EXISTING PANEL "C" IS A 120/208-VOLT PANELBOARD. THERE IS AN EXISTING SPARE 70-AMP, 2-POLE CIRCUIT BREAKER IN SPACE 2,4 OF THE PANEL. REMOVE EXISTING BREAKER AND REPLACE WITH TWO 20-AMP, 1-POLE CIRCUIT BREAKERS IN THESE SPACES FOR CONTROL POWER.



		ARTIAL TO SCALE	POWE	R SINO	GLE-LI	<u>NE</u>		C	VORK ASSOCIATED WI WP-1 SHALL BE PA OF ADD ALTERNATE #
CHILED CHILED WATER WATER PUMP #1 PUMP #2 PUMP #3 TO REMAIN TO REMAIN IN PLACE	HEATER #1 NOTE 6	HEATER #2 NOTE 6	200A OUTSIDE COOLING TOWER #1 NOTE 3	200A OUTSIDE COOLING TOWER #2 NOTE 3	NO LABEL	"C" SECONDARY CHILLED WATER PUMP TO REMAIN IN PLACE	CONDENSER WATER PUMP #3	CWP-1 NOTE 2	MAIN CIRCUIT BREAKER 1200-AMP TO REMAIN IN PLACE

WEST ENERGY FACILITY BASEMENT ELECTRICAL PLAN

SCALE: 1/8" = 1'-0"







7 CLUSTERS COURT, SUITE 201 | COLUMBIA, SC | 29210 (803) 731-0650 p | (803) 731-2880 f JAREHEART@BEA-Consulting.com E OF 2
SHEET IN SET:

CAMPUS PLANNING AND CONSTRUCTION COLUMBIA, SC 29208

11SEPT17

AND

REPAIRS