

ADDENDUM 5

December 10, 2018

WET WEATHER COMBINED SEWER STORAGE – PHASE 1

CONTRACT NO. W-17-004-101

CITY OF CHATTANOOGA, TENNESSEE

The following changes shall be made to the Contract Documents, Specifications, and Drawings:

Project Manual – Volume I

NA

Project Manual – Volume II

1. **Section 43 25 13, Submersible Non-Clog Pumps,**

Part 1.03, A. 3.

Add: (Flow Diversion Pumps Only) after the word “Assembly” in the paragraph heading.

Part 1.03, A. 4.

Add: (Flow Diversion Pumps Only) after the word “Assembly” in the paragraph heading.

Part 2.02, M

Add: 4. See Drawings for example service stand. Manufacturer shall design stand to suite actual pump being furnished.

Part 3.02, A. 7

First Sentence

Replace: pumps

With: Flow Diversion Pumps

2. **Section 40 61 13, Process Control System General Provisions,**

Part 1.04, D

Add: 4. MR Systems, Inc. – Norcross, GA

Add: 5. Revere Control Systems - Chattanooga, TN

3. **Section 31 63 33, Minipiles,**

Part 1.07.B. 3

Replace: Material certification for all materials

Width: Material certification for all materials. Provide certified mill test reports for reinforcing steel and coupon test results for permanent casing without mill certification. The ultimate strength, yield strength, elongation, and material properties composition shall be included. For API N-80 casing, coupon test results (two per truckload) may be provided in lieu of mill certification.

Add: 9. Welder certifications and welding procedures, certified by a welding specialist.

Part 2.01.A, add the following second paragraph

Add: Welding of non-threaded pipe segments is acceptable. All welding shall be performed in accordance with American Welding Society (AWS) D1.1 “Structural Welding Code – Steel”. Welding procedures shall certified by a welding specialist and submitted for review. Welded seams and splices shall be complete penetration welds. The carbon equivalency (CE) as defined in AWS D1.1, Section X15.1, shall not exceed 0.45, as demonstrated by mill certifications. The sulfur content shall not exceed 0.05%, as demonstrated by mill certifications.

Part 3.04.C, add the following fourth sentence

Add: Variations in location of the drill bit relative to the casing tip will be allowed when approved by the Engineer.

Part 3.04.D, add the following third sentence

Add: The Contractor shall be responsible for determining and providing methods to maintain a stable drillhole and bottom.

Part 3.05.F,

Replace: Packers may be omitted if a tight seal can be obtained without their use.

Width: Packers may be omitted if a tight seal can be obtained without their use or if grouting methods do not require use of packers.

Part 3.06.B.3,

Replace: Grout shall be placed within one hour of mixing.

Width: Grout shall be placed within 60 minutes of mixing when batched onsite and 90 minutes of mixing when batched offsite (ready mix).

Additional Information

NA

Drawings

1. **M203:** Add Detail 4 (attached)
2. **M300, Note 1,** insert the following as the second sentence,
Insert: 20 KIP ALLOWABLE LATERAL LOAD IS ESTIMATED, CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING REQUIRED PILE LATERAL LOAD CAPACITY.

Questions/Responses

1. **Question:** On Please refer to note 5 on sheet C300. Please confirm CLSM (Flowable Fill) or CTA will be required for all structures that require excavation support. Additionally, is the retaining wall considered a structure that will require CLSM or CTA?

Answer: CLSM or CTA is only required as backfill within area shown on C300 for the CSSPS and Diversion Structure. The dashed line is shown associated with Note 5 is located in a general manner and does not represent limits that could conflict with Contractor’s means and methods.

2. **Question:** We assume the FEA required in Section 43 25 13, Paragraph 1.03.A.3 only applies to the Flow Diversion Pumps. Please confirm.

Answer: Confirmed

3. **Question:** Section 43 25 13, Paragraph 2.02.F, Please confirm wear plates constructed of hardened gray cast iron with a minimum hardness of 450HB similar to impellers is acceptable.

Answer: Acceptable

4. **Question:** Section 43 25 13, Paragraph 2.02.M, requires a pivoting pump service stand. This is not a standard accessory offered by ABS. Please provide additional detail via drawings, cut sheets, or photos of the pump service stand.

Answer: Pump Service Stand detail 4 is attached. Pump Manufacturer shall design/engineer a stand specific to the dimensions and weight of the pump being provided.

5. **Question:** Section 43 25 13, Paragraph 2.03.I, The ABS model XFP 100E-CBI specified for the drain pumps cannot be equipped with three (3) moisture probes. This pump is equipped with one (1) probe in the oil-seal chamber. Please confirm this is acceptable.

Answer: Acceptable

6. **Question:** Section 43 25 13, Paragraph 3.02.A 7. Please clarify whether the drain pumps shall be vibration tested in addition to the Flow Diversion Pumps.

Answer: Drain Pumps do not need to be vibration tested.

7. **Question:** Section 05 53 00, Paragraph 2.05.A.9 requires access doors to be watertight. Access doors are not designed to be watertight, only to direct the water to a drain pipe. If the drain is blanked then the interior gasket will leak. Please confirm this is acceptable.

Answer: Acceptable

8. **Question:** Section 01 71 23.13, Part 1.03, C. Please confirm that there is no "Construction Surveying Cash Allowance" for this project.

Answer: Confirmed

9. **Question:** Reference Drawing C200: We will need a price for 2 each – 8" waterline at the water meters. Please respond to let me know whom I may contact regarding tapping fees for this project?.

Answer: There is only one 8" tap. The other tap is 1-1/2". Contact TN American Water at 1-800-272-1325

10. Question: I have a site demolition subcontractor that would like to visit the site. Who do I need to talk with to get him in?

Answer: The site is open. If access is needed inside the building call the administrative office at the WWTP.

11. Question: Is there an electrical manhole schedule available? I can't find anything for the dimensions of the manholes.

Answer: Refer to details on E901.

12. Question: Section 01 92 10 – 1.03 Part E states that any shutdown of electrical service shall be limited to not more than 5 hours. Can this be adjusted to account for the amount of work that is to happen at the Influent Relief Pump Station? It is our understanding that the IRPS can be shut down for several days, if needed, during dry weather conditions. If not, please advise

Answer: The IRPS may be shutdown for longer than 5 hours, but only with approval and cooperation of the City and there be no apparent rain in the forecast.

13. Question: Is there a geotechnical report for this project?

Answer: Refer to Addendum 1.

14. Question: Given the expected size of this project, will fees for a building permit be waived? Additionally, it appears a significant cost pertains to fire review and plan review by the City. Have these fees already been paid?

Answer: City of Chattanooga Site Review, SOV Infeasibility, and Building and Retaining Wall permit applications have all been submitted with fees. Any additional permits or inspection fees necessary during or prior to construction shall be the responsibility of the Contractor.

15. Question: The modulating hot gas reheat option called out under note 6 of the unit schedule is only available on our downflow units and only our high efficiency model without the variable speed compressor. To keep the hot gas reheat option, we would need to configure a downflow unit and include in a downflow to horizontal transition curb to set the unit and have duct connections through the sidewall of an extended height curb. We would also delete the variable speed compressor option (note 10) and change the model number to a YHD180. Please advise whether to keep the unit configured as horizontal, with variable speed compressor, but without hot gas reheat or whether to change the unit to a downflow arrangement with downflow to horizontal transition curb, constant speed compressors, with the hot gas reheat coil for dehumidification.

Answer: A horizontal arrangement with the variable speed compressors is required.

16. Question: Reference drawings E06, Conduit P-0051, E400 & E405, Circuit 13 and specifications Section 40 61 93 & Section 40 61 96}: The conduit & panel schedule has circuitry and wire for a PLC-ELB, but E400 does not show this PLC & it is nowhere listed in the controls specifications. Please clarify if this device is relocated or if it exists at all

Answer: PLC-ELB has been renamed to PLC-CSSPS. All references to PLC-ELB shall be PLC-CSSPS.

17. Question: Reference specifications Section 40 61 91 & Section 40 61 96-3.05.C.4: The control description (40 61 96-3.05.C.4) list LSH-3010 & -3020, but these instruments are not found in the instrument list or on the drawings. Please confirm this specification is in error.

Answer: LSH-3010 and LSH-3020 were removed from the project. Specification 40 61 96.3.05.C.4 is incorrect.

18. Question: Reference drawing sheet E03: On sheet E03 note 3 it says to provide and install cameras. Please provide a specification for these cameras?

Answer: IP cameras, a networked Digital Video Recorder, mounting hardware, power supplies, Power-Over-Ethernet injectors and fiber optic media converters shall be provided to continuously monitor and record activity at the facilities. IP cameras shall be provided with a lens, image sensor, processor(s), and adequate memory. The cameras shall possess their own IP addresses and shall be capable of being connected directly to the plant Ethernet network. IP camera installations shall be provided with all mounting hardware, enclosures, power supplies, cable, connectors, and software necessary to create a complete and working system. Supply a Networked Digital Video Recorder (NDVR) for storage and playback of images from IP camera inputs. The NDVR shall support a total bandwidth of 280 Mbps for recording of IP video streams as well as playback and export. Internal storage shall be 12 TB. The NDVR shall include keypad/joystick. Exterior mounted PTZ cameras require a separate 24 VAC power supply. Power supply shall provide fused outputs with individual power switches and LEDs for each output.

Supplemental Information by Others

NA

December 10, 2018

/s/ Justin C. Holland, Administrator
City of Chattanooga
Department of Public Works