

Addendum II Lower Reedy WRRF Digester Capacity Improvements Project

Posting Date: January 18, 2019

In published Request for Bid (RFB) for Lower Reedy Digester, please note the following updates:

1. **Q:** Can you please provide clarification on the seal water system? Section 11497 The spec calls out seal water panels shall be on aluminum channels mounted to the wall. The drawing shows (and calls out) the enclosure with Heater. We think there is a conflict with the spec and the drawing. Which is it – panels on aluminum channels or within and enclosure with heater?

In Section 15390 Schedules it calls out the Seal Water piping material to be “SST” Socket Weld SCH 40. But the SW has (2) \*\* which state that the all exposed piping shall be CPVC in lieu of the PVC. What piping materials is required for the seal water panels?

**A:** Install per Detail 1513401 on D15. Heater is not required for interior applications. Seal water piping material shall be SST Socket Weld Sch 40 as called out in 15390, CPVC is only required if SW is heat traced.

2. **Q:** Section 17910 references a Section 17635 Rotameters but there is no Section 17635 in the specifications.

**A:** See Item No. 30, 31 and 35 of this addendum.

3. **Q:** Details No.2 & No.6 call out Built-Up Roof System on Sheet A209 as well as A202 & A203, however there is no specification section given for Built-Up Roof System. Specification section 07540 refers to “Single Ply Membrane Roofing (PVC or KEE)”, is 07540 to be used in reference to the “Built-Up Roof System”?

**A:** Where drawings indicate built-up roofing replace with fully adhered single ply membrane. See Item No. 36, 37 and 38 of this addendum.

4. **Q:** Spec section 08392-Flood Doors, paragraph 2.01 calls for doors to be designed for additional loading applied by temporary superimposed live loads. The door suppliers need to know what the additional loading numbers/requirements are.

**A:** See Item No. 33 of this addendum.

5. **Q:** Spec section 08710-Hardware, paragraph 3.04 hardware sets- Set #1 calls for a concealed vertical rod and in #2 it calls for a mortise panic hardware. They can't do those on the flood doors. Please clarify what they should supply here.

**A:** See Item No. 32 of this addendum.

6. **Q:** On the website there is a posting from the Department of Labor with Bacon Davis wage rates for Heavy Construction, but there are rates missing for several jobs, like roofing.

**A:** The DOL list for Building Construction has been added to the website. It has additional construction disciplines. DHEC states:

DOL-WHD will not conform a wage until the construction contract has been signed. And while it is not possible to know for certain the wage rate that DOL-WHD will approve or return for a classification, US Department of Labor (DOL) guidance on DB Conformances (Tab 7 of the Prevailing Wage Resource Book) and the All Agency Memorandum 213 provides information about the conformance process and give some insight into how a wage is conformed - especially the "reasonable relationship" of the proposed wage to wages on the published wage determination.

7. **Q:** Drawing S204 refers to a Detail 0331702 which we do not find in the standard details...please supply detail.

**A:** Detail 0331702, "Typical Keyway" is located on Drawing D6.

8. **Q:** Please confirm that a licensed installer will be required to install the two Boilers in the Digester Control Building No.2.

**A:** In the state of South Carolina, the boiler installation and startup needs to be done by a licensed installer, per SC Code of Laws Title 41 Chapter 14 – Boiler Safety Act. 'Boiler installation' which includes those who are qualified to install, repair, and service boilers and boiler piping including the boiler auxiliary equipment, controls, and actuated machinery and dryer rolls. To qualify for this subclassification, a person must pass a technical examination administered by the board or must be the holder of the American Society of Mechanical Engineers (ASME) 'S' stamp or hold the National Board of Boiler and Pressure Vessel Inspectors (NBBPVI) 'R' stamp and meet the requirements for licensure according to this chapter."

9. **Q:** Please confirm that the sales taxes referred to in the ReWa Sales and Use Tax Exemption will not be included in the Bid Total and the Owner will not be collecting these taxes from the General Contractor during the course of the project.

**A:** See Item No. 25 of this addendum.

10. **Q:** Please confirm that the only Building Permit required will be from Greenville County. It would be appreciated if the Owner/Engineer would include an allowance for this fee.

**A:** The building permit(s) on this project will be obtained from Greenville County. Contact and permit number for Greenville County was provided in Addendum I.

11. **Q:** Drawing C15 –detail D/1 – there is a Note 3 and Note 4 that are not identified. Please clarify.

**A:** See Item No. 39 of this addendum.

12. **Q:** Drawing C15 – detail D/1 references a section 13100; there is no Specification Section 13100; please clarify.
- A:** See Item No. 27 and 29 of this addendum.
13. **Q:** Is the Crom tank tax exempt?
- A:** See Item No. 25 of this addendum.
14. **Q:** A stainless steel pipe fabricator called this morning and pointed out that the Pipe Schedule (15390-2) calls for DG (Digester Gas) exposed material to be 304 stainless steel, see section 15012; however when you go to that section, paragraph 2.10 – Steel Pipe for Digester Gas tells us to use black seamless schedule 40 steel pipe or stainless steel pipe in accordance with paragraph 2.04 where gauge pipe is listed; they (the fabricator) say that schedule 10 should be the minimum thickness for digester gas application, please confirm. Also, this fabricator has supplied many Hazen and Sawyer projects using their standard cleaning process (see attached) and can provide the fabricated piping pickled after fabrication, but they cannot be in compliance with the AIS requirement since their acid tanks are in Canada. Will their cleaning process be acceptable to bid this project?
- A:** Provide stainless steel pipe gauge as specified. Based on the information provided and the attached AIS guidance; in this case, the fittings would still be AIS compliant since they are being fabricated in the USA and only clean & pickled in Canada.
15. **Q:** The project Pipe Schedule (15390-2) directs us to Specification Section 15502 – Hydronic Piping and Pipe Fittings for the exposed HWS/HWR piping to be installed. A pre-insulated system (typically used in long run buried situations) by Energy Task Force, Perma-Pipe, Inc. or equal is called for. After talking with the named suppliers and realizing it would be very expensive (because of the many valves, pieces of equip., flanges, short runs, etc.) for them to supply the project, can a field fabricated (commonly used) then field insulated system be used in lieu of the pre-insulated system called for?
- A:** It is acceptable and preferred that the HW piping be insulated in accordance Section 15520, Paragraphs 2.03 and 2.04. Section 2.05 is typical for underground HW piping.
16. **Q:** Please provide as-builts of the NPW pump station that is to be removed for the future digester.
- A:** Drawing provided in Addendum I.
17. **Q:** Please confirm the owner is responsible to lower the existing digester floating lid and remove the pressure from the system prior to the contractor beginning work.
- A:** The existing digester will be out of service when the tank is turned over to the contractor for the clean out work.
18. **Q:** Section 11485 – 2.02.G.1.b. the spec calls out for manually lever operated drip traps but also specs out Varec 246AT Series drip traps which as an automatic elec. actuated drip trap. If manual traps are required the Varec model is 246.
- A:** See Item No. 34 of this addendum.

19. **Q:** Section 11485 – 2.07.B The spec mentions all (4) drip traps (2 on the gas booster, 1 for HEX, 1 for Col. Filter) should be identical and be Spirax/Sarco Model FA-150, but the above section (2.02.G.1.b calls for Varec drip traps.
- A:** See Item No. 34 of this addendum.
20. **Q:** Section 11485 – 2.02.J Proco model FF6201 flexible connectors come in 304SS or 321SS, not 316SS. Please confirm which to use.
- A:** See Item No. 34 of this addendum.
21. **Q:** There is a Specification Section 07540 Single Ply Membrane Roofing but the architectural drawings show a 5-ply Built Up roofing system (A209). Please advise.
- A:** Where drawings indicate built-up roofing replace with fully adhered single ply membrane. See Item No. 36, 37 and 38 of this addendum.
22. **Q:** Please provide section 02710 for RCP storm piping. I cannot find it in the spec.
- A:** Storm drain piping is specified in Specification Section 02604.
23. **Q:** Section 01011 Summary of Work – Digester 1 Cleaning lists TWO approved landfills for receiving the dewatered sludge from the digester cleaning...the Twin Chimney Landfill is the only one of the two listed that is open and receiving sludge. Please confirm that this is where Greenville wishes to dispose of the sludge since the tipping fees at other landfills are double Twin Chimney's.
- A:** See Item No. 26 of this addendum. Twin Chimney's landfill will take precedence, with Union County landfill used as a backup if required.
24. **Q:** On behalf of RGS Building solutions, MBK would like to submit the following as or equals:
- Henry Company HE789 as an option for the dampproofing specified in section 07150.
  - MAPEI Mapefloor Parking Deck System as an option for the traffic-bearing waterproofing in section 07185.
  - Soprema Sentinel P150 HFB as an option for the single ply membrane roofing (PVC or KEE) in section 07540.
- A:** Henry Company HE789 product for dampproofing will be considered an or equal in Section 07150. For the MAPEI and Soprema products, the manufacturers are known and the general product performances appear acceptable, however; without seeing an entire submittal package we are unable to determine an or equal qualification as we cannot confirm if the installed systems and warranties are acceptable.
25. Specification Attachment 1 – Pages 176-179: ReWa Sales and Use Tax Exemption, Delete this requirement in its entirety. The Bidder shall include all applicable sales taxes in their Bids. However, ReWa reserves the right to pursue the sales and use tax exemption with the successful Bidder post award via a change order.

26. Specification Section 01011: Page 01011-4, 1.04.E, Delete reference to Palmetto Landfill and replace with the following:  
“Republic Services Union County Regional Landfill  
868 Wildcat Road  
Enoree, SC 29335  
(864) 969-4460”
27. Specification Section 13100: Add the attached Section 13100 – Mechanically Stabilized Earth Retaining Walls.
28. Specification Section 13206 – Replace in its entirety with the attached Section 13206 – Prestressed Concrete Tank (Type II).
29. Specification Section 13800: Add the attached Section 13800 – Geogrid.
30. Specification Section 17635: Add the attached Section 17635 – Rotameters.
31. Specification Section 17910: Page 17910-1, Part 2 –Instrument Schedule: Row 3, under the Tag Number Column, Replace “FI-206” with “FI-208” and under Remarks column replace “1.5” with “1”.
32. Specification Section 08710: Page 08710-8, Paragraph 3.04, B. Hardware Sets: Add the following note: “Hardware sets describe basic function for hardware to be provided by Flood Doors. Coordinate cylinder and keying with this Section. Hardware shall be provided by manufacturer of flood doors as tested and approved.”
33. Specification Section 08392: Page 08392-3, Paragraph 2.01,A: Delete sentences 2, 3, 4 and 5 and Add the following to the end of the paragraph: .“Flood Doors shall be designed to withstand 36” depth of water. Determine flood loads as recommended by FEMA. Wind load shall be as indicated on Structural Drawing S01.”
34. Specification Section 11485: Page 11485-6, Paragraph 2.02.G.1.b: Modify the last sentence to read: “Drip traps shall be manually lever operated and made from aluminum with 3 quart capacity, maximum working pressure of 5 psig and with 1” inlet and outlet NPT connections as manufactured by Varec Biogas 246 Series, Spirax/Sarco or equal.”
- Specification Section 11485: Page 11485-6, Paragraph 2.22.G.1.j: Modify second sentence to read: “Connectors shall be constructed of braided 304 stainless steel suitable for the pressure and vacuum service conditions and rated for 250°F.”
- Specification Section 11485: Page 11485-14, Paragraph 2.07.B: Modify the first sentence to read: “Traps shall be ¼” Model FA-150 as manufactured by Spirax/Sarco, 246 Series by Varec Biogas, or equal.”
35. Drawing I-104 – Revise symbol for FI 208 to Rotameter with Integral Valve symbol as shown under Primary Element Symbols section on Drawing I-1.
36. Drawing A202 –Replace call-out ‘Built-Up Roof System’ with “Fully Adhered Single Ply Membrane Roofing”.
37. Drawing A203 –Replace call-out ‘Built-Up Roof System’ with “Fully Adhered Single Ply Membrane Roofing”.

38. Drawing A209 – Detail No. 2 and Detail No. 6, Replace ‘Built-Up Roofing System’ with ‘Fully Adhered Single Ply Membrane Roofing’.
39. Drawing C15 – Replace in its entirety with the attached Drawing C15 – Retaining Wall Details.
40. Specification Section 00920 – Add the attached Ovivo Linear Motion Mixer Submittal.
41. Drawing S221 – Delete Note 4 and replace with the following:

*“4. DOME ACCESS STAIR/WALKWAY SYSTEM SHOWN ON THIS SHEET IS A GRAPHICAL REPRESENTATION OF THE ANTICIPATED DESIGN. THE FINAL CONFIGURATION AND LAYOUT OF THE SYSTEM SHALL BE THE RESPONSIBILITY OF THE PRESTRESSED CONCRETE TANK SUPPLIER. THE INTENT OF THE WALKWAY IS TO PROVIDE A HIGH-TRACTION WALKING SURFACE ABOVE THE ROOF INSULATION SYSTEM. FINAL SYSTEM SHALL MEET THE APPLICABLE REQUIREMENTS OF OSHA AND THE SOUTH CAROLINA BUILDING CODE. THE CENTER PLATFORM IS PROVIDED BY THE MIXER MANUFACTURER. THE TANK SUPPLIER SHALL COORDINATE THE STAIR/WALKWAY APPROACH TO PROVIDE A SEAMLESS TRANSITION.”*

If you have any questions and/or concerns, please do not hesitate to contact Stephanie Selman [stephanies@re-wa.org](mailto:stephanies@re-wa.org) or Julie Dacus at [julied@re-wa.org](mailto:julied@re-wa.org).