ALAN PLUMMER ASSOCIATES, INC.

ENVIRONMENTAL ENGINEERS AND SCIENTISTS

1732-002-01

April 17, 2017

City of Wimberley
Collection System Project

Re: Answers to Bidders' Questions

THE FOLLOWING ANSWER(S) TO BIDDERS' QUESTIONS ARE IN REFERENCE TO THE PROJECT LISTED ABOVE. THESE ANSWERS DO NOT MODIFY THE CONTRACT. ANY MODIFICATIONS TO THE CONTRACT WILL BE THROUGH ADDENDA.

1. (9.) Please provide additional details for sheets M-050 and E-150 regarding depth and diameter of wet well, pump size, (SECTION 00450 mentions ITT/FLIGHT but a size is not indicated) valve vault hatch size, fence location, site grading, etc.
    a. Wet well depth is approximately 21 feet; wet well diameter is 6 feet; see Section 11161 "Packaged Pump Station, Submersible Centrifugal Pumps" for pump data sheet; pump station access doors shall be 63"x42"; site shall be graded to drain away from wet well and valve vault. See Addendum 2, drawing M-050.
2. (15.) Please provide length of restrained pipe for reclaimed water and force main.
    a. Per Section 15015, Paragraph 1.5.C.4, project submittals shall include the number and length of restrained joint piping required per Project Manual.
3. Section 11073, 2.1 H. 3. a. - Contacts on the alarm pressure switch will close. There is no pressure switch shown in plans is this required?
    a. Yes, a pressure switch built in to the pump is required.
4. Regarding the bid schedule, can you tell me what your definition is for a standard manhole and what you call extra depth?
    a. Per Technical Specification 506 Manholes:
    "Payment for the first 8 feet of a "Standard Pre-cast Manhole with Pre-cast Base", "Standard Pre-cast Manhole with Cast-in-Place (CIP) Base", "Special Manhole", "Drop Manhole with Pre-cast Base", "Drop Manhole with Cast-in-Place (CIP) Base", "Centered Tee Manhole", or "Tangent Tee Manhole" will be made at the unit price bid for the indicated type and size, complete in place.
    Payment for that portion of a Standard Pre-cast Manhole with Pre-cast Base, Standard Pre-cast Manhole with CIP Base, Drop Manhole with Pre-cast Base, Drop Manhole with CIP Base, Special Manhole, Centered Tee Manhole, or Tangent Tee Manhole in excess of 8 feet in depth will be made at the unit price bid for "Extra Depth Manhole" of the indicated type and size, complete in place."
5. Is there a geotech report available for this project?
    a. See Clarification No. 1.
6. Is there an engineer estimate available?
    a. See Clarification No. 2.
7. Can you please clarify the total count of manholes? I'm coming up with a total of 57.
    a. Yes, there are 57 manholes. Manholes are divided into Bid Item Numbers 4 and 6. See Addendum 2, Section 00411 Bid Schedule.
8. What is the model number for the package pump station?

   a. NP3171SH, Duplex w/ 2 Guide Bars. See Addendum 2, Section 11161.
9. M-050, would you prefer to run the wet well vent out the side and run underground and up along a pole and above the panel rack to secure it above the flood zone?
   a. No, the wet well vent shall remain as originally drawn.
10. The drawings show the valve vault to be 10' x 8' rectangular. Is a 6' diameter round vault with the Tee Fitting inside the vault work instead of the rectangular vault shown in the plans?
   a. Yes. See Addendum 2, drawing M-050.
11. There is a spec for a combo air/vacuum valve but none is shown on the plans. Do we need to supply one of these in the valve vault?
   a. Yes. See Addendum 2, drawing M-050.
12. Can stainless steel be used in lieu of ductile iron at the wet well and valve vault?
   a. Yes. See Addendum 2, drawing M-050.
13. What are the dimensions of the vaults shown on M-050?
   a. 63" x 42". See Addendum 2, drawing M-050.
14. I find no information about PEC electric on supply to this lift station / As to who pays commission and fees.
   a. Any commission and fees associated with PEC Electric will be paid for by the City of Wimberley.
15. Will site built grinder pump systems be acceptable as a replacement to the residential grinder pump systems specified?
   a. 00200 INSTRUCTIONS TO BIDDERS, paragraph 29.1 reads:
      The specifications for of these Documents have been written around the manufacturers listed in the various sections of the specifications. The equipment of these manufacturers comprises the Contract base Bid. It is the option of each Bidder to submit alternative pieces of equipment from manufacturers not named in the various sections of the specifications. In the event that a Bidder so chooses to submit alternates to the Base Bid, he must submit a letter to accompany Section 00450 Equipment Supply Manufacturers identifying alternate pieces of equipment and enter the appropriate deductive amount under corresponding Bid Item(s) in the Bid Proposal. The alternative bid shall include the cost for all civil, mechanical, structural, electrical, and instrumentation modifications necessary including the cost of any engineering design work deemed necessary by the ENGINEER due to the modifications.
16. There is a significant cost difference between repair with flowable and repair without flowable. Are there specific areas where flowable is required?
   a. The contractor may choose where to use flowable fill when completing HMAC pavement repair.
17. The clarifications issued state ...Answers do not modify the contract. Any modifications to the contract will be through addenda Will all the answers be issued through an addenda?
   a. Only clarifications that conflict with existing contract documents result in modifications through addenda.
18. There is a discrepancy between the liquidated damages detailed in the 00411 Bid Schedule and 00520 Agreement.
   a. The Bid Schedule was correct; the Agreement has been updated. See Addendum 2, Section 00520 Agreement.
19. Section 11161, Paragraph 2.6.D.1. Are Flygt ENM-10 Level Sensors acceptable?
   a. Yes, the ENM-10 Level Sensors will be acceptable as Engineer approved equals.
20. Section 11161, Paragraph 2.9.B and 2.9.C. The control panel will be tested at manufacturing facility but cannot be tested as a "complete working system." to test the complete system is next to impossible and a logistic nightmare.
   a. Control panel testing required includes: jumpering the float contacts to make sure the motor starters close and alternation operates as designed.

Performance testing does not include the pumps being tested with the control panel; these will be tested separately.

21. Section 11161. Please clarify whether or not bearing temperature sensors are required for this application.
    a. Yes, a bearing temperature sensor is required.
22. Section 11161. For a moisture sensor, will a float type sensor in the stator chamber in small depression sending a leak signal for a minimal intrusion into the stator chamber be acceptable for this application? Please clarify if a leak sensor in the cable chamber is required. Should the sensor be used in junction with the seal leak sensor or as a separate sensor cable and a separate Relay used to monitor the sensor?
    a. Yes, a moisture sensor is required. The leakage sensors required can be float switches in the stator housing and/or junction box, float switches in inspection chamber, or probes used to detect water in the oil housing depending on the pump design.
23. Section 11161, Paragraph 1.9 Warranty; please confirm a 5 year non-prorate with unlimited hours is required.
    a. The contractor may submit an alternate deductive bid item to the package pump station for a 2 year warranty per Section 00200 Instructions to Bidders, paragraph 29.1.
24. Section 11161, Flygt N impeller is Hard Iron and does not use Wear Rings since clearance is adjustable if needed. Requesting Wear Rings not to be required if not used on pump due to adjustable clearance.
    a. Wear rings are only required when used in the pump design. See Addendum 2, Section 11161.
25. Section 11161, please clarify if performance testing is required per paragraph 2.9.C.1.
    a. Delete paragraph 2.9.C. See Addendum 2.
26. Section 11161, The question about this test is does the contractor provide water for 8 hours to simulate the live flow in to the station or does the pump station get tested under live flow and after eight hours, it is considered tested?
    a. The intent is to test the pump station under live flow for 8 hours. The pump does not have to run continuously for 8 hours. It can cycle as flow comes into the pump station. If the pump only runs once in the 8 hour test period, the contractor will need to provide testing water or the 8 hours will need to be extended to 24 hours to prove that the equipment can cycle without failure.

ALAN PLUMMER ASSOCIATES, INC.

Stephen J. Coonan, PE
Principal
TX PE 65516

STATE OF TEXAS
STEPHEN J. COONAN
65516
LICENSED
PROFESSIONAL ENGINEER

SJC/CAS

cc: Mayor Mac McCullough, City of Wimberley