

Addendum No. 3, Supplement  
Water Treatment Plant HAB Improvements  
Village of Cadiz  
Date: April 10, 2020

## **RESPONSES TO QUESTIONS RECEIVED APRIL 9 &10, 2020**

1. On plan sheet 4 of 46 under the combination air valves schedule, valve RTM-AV-01 calls it out as a 2” THRD valve. Note 2 on plan sheet 11 of 46 says it is a 2” FL valve. Would you please clarify what is required?

RESPONSE: Flanged

2. On plan sheet 5 of 46, the section of the filter to waste pump station appears to show wall pipes in the precast manhole. Is this what is intended?

RESPONSE: No.

3. On plan sheet 9 of 46, the pipe appears to be connected to the pumps with a dresser style coupling. The pump spec 432411-4 calls for the pump to have a flanged discharge connection. Would you please clarify what is required and provide specifications for the connection?

RESPONSE: Pump out is flanged, then a 300 PSI 8” dismantling joint follows.

4. Spec section 331113.10 page 3 paragraph 2.6.A calls for all mechanical joints to have cadmium plated tee head bolts and nuts. Page 4 of the same spec calls for buried joints to have 316 SS bolts & nuts. Would you please clarify what is required?

RESPONSE: Above ground bolts are plated, underground bolts are stainless steel.

5. Are any runs of pipe that require boltless restrained joints per spec section 331113.10 page 5?

RESPONSE: No.

6. Spec section 331113.16 page 1 paragraph 2.1.A appears to only allow C110 fittings. Note 12 on plan sheet 11 of 46 appears to allow C153 (compact) fittings. Would you please clarify what is required?

RESPONSE: C153 for mechanical joints for work on Sheet 11 and C110 for flanged joints.

7. Spec section 400523 page 11 paragraph 2.20.A calls for 3 piece valve boxes with a drop lid. Note 13 on sheet 11 of 46 calls for 2 piece valve boxes with locking lids. Would you please clarify what is required?

RESPONSE: Standard 3-piece yard valve box.

8. For clarification, are Foster Adapters considered an appropriate MJ x MJ adapter?

RESPONSE: Yes, as long as they meet the requirements of the American Iron & Steel (AIS) act.

9. Would you please clarify the number and length of tee wrenches to be supplied for this project? Or provide the ground elevation and pipe elevation in order for us to determine what is required? Spec section 400523 page 9.

RESPONSE: Length field determined and quantity according to specification.

10. On plan sheets 25, 26 and 28 the 10" vertical pipe that has the 3" Filter to Waste drain on it is a special construction and US pipe has asked us for some additional information in order to be sure that these pipes are constructed properly. Would you please provide the test pressures of these lines and the line pressure.

RESPONSE: Tapping saddles can be used for the 3" drain lines. Line pressures will be those generated by the new High Service Pumps, approximately 100 PSI with a test pressure of 150 PSI.

11. Are there any specifications we can follow in providing you with a bucket replacement quote [for the High Service Pump Motor Controllers]? Maybe we can talk and go over any necessary options you may need such as dV/dT motor filters based on the rating of the motors as an example.

RESPONSE: Refer to specification section 262923 for general VFD requirements. For each high service pump VFD provide 5% input line reactor, to reduce line harmonics; output filters are not expected to be required, as the cable lengths from the drives to the pumps are not very long. For additional information refer to the floor plans and pictures of the high service pump room, which were published as part of addendum 2 and can be found at <ftp://www.ctconsultants.com/190599/Addenda/Addendum%202/Site%20Pictures/07%20WTP%20High%20Service%20Pump%20Room/>

12. I am submitting this request to seek your approval for non-metallic shafts as acceptable for this project bid. Polychem has designed and manufactured FRP shafts since 1983. Attached is Polychem datasheet detailing the background and design of FRP shafts. In addition, Polychem has over 12,000 installations to date that have utilized FRP non-metallic shafts.

RESPONSE: Polychem non-metallic shafts are acceptable.

13. Specification Section 099700 - Special Coatings for pumps: Is Carboline Carbogaurd 891 VOC an acceptable option?

RESPONSE: Carboline Carbogaurd 891 VOC is an acceptable coating for potable water submerged ferrous metal coatings.