City of Wilsonville
Wilsonville, Oregon

WILLAMETTE RIVER WATER TREATMENT PLANT SURGE TANK PROJECT

CLIENT PROJECT NO. 10721A00

ADDENDUM NO. 3
TO THE
CONTRACT DOCUMENTS

November 5, 2018
This Addendum No. 3, modifies the Bidding Documents for the City of Wilsonville Willamette River Water Treatment Plant Surge Tank Project, and shall become part of the Contract and all provisions of the Contract shall apply thereto.

**CONTRACT DOCUMENTS - SPECIFICATIONS AND CONTRACT DOCUMENT**

**SPECIFICATIONS**

Add the following attached specification section.

1. 43 30 24 Plug Valves

The time provided for completion of the Contract is not changed.
SECTION 43 30 24 - PLUG VALVES

PART 1 -- GENERAL

1.1 THE SUMMARY

A. The CONTRACTOR shall provide plug valves and appurtenances, complete and operable, in accordance with the Contract Documents.

B. The requirements of Section 43 30 00- Valves, General apply to this Section.

C. The requirements of Section 43 30 12- Valves and Gate Actuators apply to this Section.

D. Plug valves shall have undergone a proof-of-design test to demonstrate that the valve components operate at the service flow, pressure, temperature, and fluid conditions, free from binding, excessive noise, and premature failures. Proof-of-design test results shall be available to the ENGINEER on request. The proof-of-design test shall be conducted in accordance with the applicable provisions of AWWA C504.

1.2 CONTRACTOR SUBMITTALS

A. Furnish submittals in accordance with Section 43 30 00 - Valves, General

PART 2 -- PRODUCTS

2.1 ECCENTRIC PLUG VALVES (1/2-inch to 72-inches)

A. Construction: Eccentric plug valves shall be of the non-lubricated, eccentric plug design with cast iron bodies conforming to ASTM A 126 - Gray Iron Castings for Valves, Flanges, and Pipe Fittings, with ANSI 125 lb. flanged ends for valves 3-inches and larger, and screwed or flanged ends for smaller sizes. The plugs and shafts shall be of cast iron or ductile iron conforming to ASTM A 536 - Ductile Iron Castings, and the plugs shall be lined with a resilient coating, best suited for the specific service. The body shall be lined with a suitable elastomer, where required for a special service, or it shall be epoxy-lined in accordance with Section 09 96 00 - Protective Coating. The seats shall be of nickel or stain less steel welded to the body. Top and bottom shaft bearings shall be of permanently lubricated stainless steel or Teflon coated stainless steel. Grit seals of Teflon, Nylatron, or similar suitable material shall be at the top and bottom plug journals. Valves up to and including 20-inches in size shall have an unobstructed port area of not less than 80 percent of full pipe area, and not less than 70 percent for larger valves. Eccentric plug valves shall have a pressure rating of not less than 150 psi WOG, for bubble-tight shut-off in the standard flow direction, and 25 psi WOG in the reverse flow direction. When equipped with worm gear actuator, the pressure rating shall be 150 psi WOG in both directions. The stem seal shall consist of field adjustable packing, replaceable without removal of the actuator, or of self-adjusting U-cup packing.

B. Actuators: Unless otherwise indicated, eccentric plug valves 3-inches and smaller shall have operating levers; larger valves shall have worm-gear actuators. Valve actuators shall be in accordance with Section 43 30 12 - Valves and Gate Actuators.

C. Manufacturers, or Equal

1. DeZurik Corporation

2. Clow Valve Company
3. Pratt Valve
4. Victaulic

PART 3 -- EXECUTION

3.1 INSTALLATION

A. Plug valves shall be installed in strict accordance with the manufacturer's published recommendations and the applicable provisions of Section 43 30 00 - Valves, General.

END OF SECTION