WICHITA, KANSAS

ADDENDUM NO. 3

TO THE PROPOSAL FB640092

Re-use Water Pump Station
(east of Hydraulic, north of 63rd Street South)

468-85112 665009

TO BE BID: May 20, 2016

The following changes and additions shall be made to the plans and proposal.

1. ***Project Schedule*****.** Please change the project dates to the following:
   a. Substantial/Mechanically Completion – Friday, November 4, 2016
   b. Final Completion – Friday, November 18, 2016

2. ***Pump Testing*****.** The pumps will be tested after the pipeline to Spirit Aerosystems is constructed by others, which is scheduled to be completed at the same time as the pump station.

3. ***Sluice Gate*****.** A detail from the specified manufacturer (DWG 101414-1A-01.pdf) has been included with this addendum for information. The Contractor is responsible for ordering the correct equipment to match the dimensions as called out in the plans. (Attachment A)

4. ***Chemical Piping, Valves, and Equipment*****.** Chemical piping is to be field routed, and attached to the walls where possible, and avoiding routing over walkways except where necessary. Chemical piping shall be properly supported at all times. Chemical piping between equipment within the On-site Hypochlorite Generation System shall be routed according to manufacturer's requirements, including high-point vents and low-point drains.

5. ***Brine Tank*****.** The brine tank is located in the Chlorination Room and labeled "Brine Generator – SPR-T001" as shown on Sheet No. M5.0.

6. ***Foundation Backfill and Drainage*****.** The backfill directly adjacent to the vault walls shall be 12-18" of clean, free draining sand or gravel. Site soils (mostly sand) are acceptable for backfill beyond that area. A foundation drainage system is not required for this project.

7. ***Instrumentation and Controls*****.** Sheet No. G2.0 shwos the PLC requirements for the three variable speed drives. The following is a list of the hard wired signals from the PLC to the three drives:
   a. Analog output for speed control
   b. Analog input for speed indication
   c. Dig. Out for pump start/stop
   d. Dig.In for VFD fault. Hand switch position HOA. And for Pump Run Ind.

e. Basin Low Water Level shut down will be hard wired through all the drives.
f. The VFDs will reference the Pressure Control signal PC-102.

8. ***Instrumentation and Controls System Supplier*.** The System Supplier shall be R.E. Pedrotti Company, Inc., Mission, KS or approved equal. The approved equal shall meet the following qualifications:
   a. The supplier shall maintain a design office staffed with qualified technical personnel. At a minimum the System Supplier shall staff four full-time programmers and two full-time service technicians. The qualifications and experience of key project personnel shall be acceptable to the Owner.
   b. The supplier shall maintain, at a geographic location acceptable to the Owner.
   c. The intended supplier shall provide at least three references who are users of equipment furnished by the supplier, which is similar to that specified for this project. The references shall include a general description of the project scope along with names and telephone numbers of persons to contact.
   d. The supplier shall be a system integrator specializing in SCADA system integration for the water/waste water industry.
   e. The suppliers programming staff shall have past experience on the Wonderware ArchestrA Industrial Application Server platform.

9. ***Water Heater*.** EWH-2 is part of the on-site generation system and is not specified by the plumbing engineer. It does require an electrical feed and disconnect switch separate from the on-site generators.

10. ***Electrical Frame Sizes*.** Electrical frame sizes may vary from those shown in the PSH Circuit Breaker Distribution Panel Schedule. Circuit breakers must match trip amps settings, number of poles, and AIC rating.

11. ***24" RCP*.** Change this pipe material from Reinforced Concrete Pipe (RCP) to C905 PVC DR-18. The pipe diameter stays the same (24"). All pipe and fittings shall adhere to the City of Wichita Standard Specifications.

12. ***Pipe Bends*.** The 12" x 10" MJ 90 degree bend shown on plan sheet M 5.0 and the 10" MJ 90 degree bend shown on plan sheet M 5.1 could be replaced with other fittings, if desired. Penetrations in the concrete and respective seals will have to be adjusted to accommodate the flanges. Regardless of what is installed, the joint in the wet well must be adequately restrained.

13. ***12" Blind Flange*.** A 12" MJ Cap is not acceptable as a replacement to the 12" Blind Flange called out in the plans.

14. ***Bleed Rings*.** A specification has been provided as an attachment (Bleed Ring.pdf). (Attachment B)

15. ***8" Flow Tube*.** The specification for this equipment is on Sheet No. E4.3 in note D9.1.

16. ***Process Pipe Coating*.** Ferrous process piping shall be cleaned of all oil, grease, dirt rust and mill scale by blasting in accordance with SSPC-SP-5 (White Metal Blast) for submerged piping and SSPC-SP-10 (Near White Metal Blast) for all other locations. Priming shall follow blasting before any evidence of corrosion occurs, before nightfall and any moisture is on the surface. Submerged piping shall protected by a two-coat system consisting of Vinyl Ester Primer (12.0-18.0 Mils DFT) and Vinyl Ester Topcoat (12.0-18.0 Mils DFT), minimum overall thickness of 30.0 Mils DFT. All other ferrous process piping shall be protected by a three-coat system consisting of Epoxoline Primer (3.0-5.0 Mils DFT), Hi-Build Epoxoline second coat (3.0-4.0 Mils DFT), and Endura Shield finish coat (2.0-4.0 Mils DFT), minimum overall thickness of 12.0 Mils DFT. Color to be determined by the Owner during submittal process. Paint shall be as manufactured by Tnemec, Sherwin Williams, or Engineer approved equal. Paint applicators shall be trained and certified by the paint manufacturer.

17. ***Pipe Support Coating*.** All pipe supports shall be galvanized.

18. ***Valve Specifications*.**
    a. Pressure safety valve (SPR-PSV001) shall be 6" 125# flat-face flanged connections, ductile iron body, epoxy coated, globe body pattern, with bronze seat ring, EPDM elastomers, and pilot operated. Set Point shall be factory set at 160 psig and shall be verified during the submittal process. Valve shall be model 108G002-0601113 as manufactured by OCV Control Valves or Engineer approved equal.
    b. Check Valves shall be cushion swing check with outside lever and weights as complies with AWWA C508. Valves shall have 125# flat-faced flanged connections, epoxy coated ductile iron body, with the following components of stainless steel: body ring, disc ring, clapper hinge shaft, high shaft key, clapper spacers, disc stud, disc stud nut and bushing, disc retaining washer and cotter pin. The hinge pin shall extend outside the cast iron body through lubricated stainless steel bushings and outside packed glands on each side of the valve. Each bushing shall be provided with a buttonhead grease fitting. Stainless steel shall be at least 18-8 nickel-chromium content. Check valves shall be tested at the factory and shall be drip tight under a hydrostatic pressure of 200 psi applied to the downstream side of the disc. A certified test report shall be furnished with each valve. Approved Manufactures shall be DeZurik, Clow, Mueller, Kennedy, and Engineer approved equal.
    c. Gate valves shall be resilient seat wedge type gate, with non-rising stem, and hand-wheel, and shall conform to latest revision of AWWA C-509. Manufacturers shall be per City Standard Specifications.

19. ***Sodium Hypochlorite Piping*.** Piping interconnecting the Sodium Hypochlorite On-Site Generation System shall be per manufacturer's requirements, but is anticipated to be Sch. 80 PVC for water and brine, up to the generators, and Sch. 80 CPVC from Generators to the storage tanks to the bleach feed pumps to the point of injection. Sections of Kynar tubing shall be used at the suction and discharge connections of the feed pumps and at the point of injection.

20. ***Light Fixtures*****.** Lithonia Lighting fixtures are considered approved equals to the fixtures called out in the plans and specifications. The exception is that OLWX2 LEDs must be provided with a yoke mount to allow for the forward throw needed by the fixture.

21. ***Pump Bowl Efficiency Testing*****.** Replace the following text from Sheet No. M6.1 in note H1 "(Specify if there are any additional standards)" with "Bowl efficiency shall be tested to HI acceptance grade 1U".

22. ***Flange Kits*****.** 304SS flange kits with EPDM full face gaskets shall be used for the connections above the finished floor.

23. ***Instrumentation and Controls*****.** A controls narrative has been provided for more information (Controls Narrative.pdf). (Attachment C)

24. ***Metal Building*****.** Minimum metal panel thickness shall be as follows:
    a. Standing Seam Roof Panel = 22 ga.
    b. Exterior Wall Panel = 24 ga.
    c. Interior Wall Liner Panel = 24 ga.
    d. Roof Liner / Soffit Panel = 26 ga.

25. ***Pump VFDs*****.** Only ABB or Square D drives will be accepted for this project.

26. ***Pump Bowl Interior Coating*****.** Epoxy coating of the pump bowl interior is not permitted. The bowl must be glass enameled as stated on Sheet No. M6.0 in note G2b.

27. ***Pump Sand Collar*****.** Bronze is not permitted. The collar must be 304 SS as stated on Sheet No. 6.0 in note G1.

28. ***Pump Discharge Head Assembly*****.** Add the following to Sheet No. M6.0 in note G4b "Seal shall be provided with the pump and shall be as manufactured by John Crane or Engineer approved equal"

29. ***Pump Performance Testing*****.** The pumps must be virtually tested as stated on Sheet No. M6.1 in note H2.

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Each bidder is required to acknowledge receipt of this Addendum by his signature affixed hereto and to file same with and attached to his bid. Any Bid Proposal that is returned without all addenda signed and included in the Proposal shall be considered an invalid Proposal.

May 18, 2016

Gary Janzen, P.E.
City Engineer

Date _____

Signature of Bidder

BIDDER: _____
(print or type name of firm)

ADDRESS: _____

AUTHORIZED AGENT: _____
(Signature)

_____
(print or type name of authorized agent)