



SAN ANTONIO WATER SYSTEM
DSP Southeast Tank and Pump Station Project
SAWS Job Nos. 13-6102 (DSP) & 13-6005
Solicitation No. CO-00006

ADDENDUM NO. 3

August 10, 2015

TO BIDDER OF RECORD:

The following changes, additions, and/or deletions are hereby made as part of the Contract Documents for the DSP Southeast Tank and Pump Station Project, for the San Antonio Water System, San Antonio, Texas, dated September 2014, as fully and completely as if the same were set forth therein.

PART 1 – BIDDING AND CONTRACT DOCUMENTS

1. PRICE PROPOSAL:

- a. REMOVE AND REPLACE in its entirety with the attached version. Attached version should be submitted with proposal.

PART 2 – TECHNICAL SPECIFICATIONS

1. SECTION 02626, STEEL PIPE:

- a. REMOVE AND REPLACE Paragraph 2.01.B.1.a with the following:

“Shop applied”

- b. REMOVE Paragraph 2.01.B.1.b in its entirety.

- c. REMOVE AND REPLACE Paragraph 2.01.B.4 with the following:

“All fusion bonded epoxy coatings shall be applied per AWWA C213 and the coating manufacturer’s written direction, including surface preparation and testing procedures.”

2. SECTION 11243, CHLORINE GAS FEED EQUIPMENT:

- a. REMOVE AND REPLACE Paragraph 2.02 in its entirety with the following:

“2.02 MANIFOLD MOUNTED VACUUM REGULATORS

- A. Furnish and install 2 vacuum regulators on chlorine cylinder manifolds in the chlorine storage area. Alternatively, tank mounted vacuum regulators may be used, provided the gas withdrawal rate from each cylinder is uniform.

- B. Each manifold mounted vacuum regulator shall have a capacity of 500 pounds of chlorine feed per day. The vacuum shall be controlled by a spring opposed diaphragm which shall close tight on loss of vacuum. Pressure shall be prevented from building up in the system by means of a spring-loaded, diaphragm actuated emergency relief valve located on each vacuum regulator. A 0-300 psig chlorine pressure gauge shall be integrally mounted on the vacuum regulator. System design shall include provisions for automatic switchover from an empty container manifold to a full container manifold.
- C. Each vacuum regulator shall come complete with vent outlet and a heater. Either a drip leg or a space within the regulator shall be provided for accumulation and evaporation of condensed chlorine. Operate heater on 120-volt, 1-phase, 60-Hertz supply.”

b. ADD Paragraph 2.03.C. as follows:

“C. Cylinder Mounted Emergency Shut-Off Valves: Provide Emergency Shut Off Valve System with six (6) cylinder mounted automatic emergency shut-off valves, one on each active chlorine cylinder. System shall come complete with Remote Control Panel(s) capable of operating all emergency valves. System shall be capable of immediately closing valves on a remote signal from SCADA. System shall be manufactured by Robo-Control or Approved Equal. Provide all materials and installation of electrical, instrumentation and controls required for a complete and operating system. Contractor shall coordinate with Engineer during submittal phase for all equipment and operating requirements.”

c. ADD Paragraph 2.07.B as follows:

“B. Scale shall provide a 4-20 mA output signal to the SCADA system to display representative cylinder weights of each manifold on the HMI.”

3. SECTION 13310, INSTRUMENTATION AND CONTROLS-FIELD INSTRUMENTS:

a. DELETE Paragraph 2.01.F.1.e in its entirety and REPLACE it with the following:

“e. Tube Electrodes: ANSI 316 stainless steel or Hastelloy C, bullet nosed or elliptical self-cleaning type unless otherwise noted. “

PART 3 – DRAWINGS

1. SHEET P-10:

a. REMOVE AND REPLACE Note 1 with the following:

“INSTALL 16”x12” TAPPING SLEEVE, VALVE ASSEMBLIES AND 12” TEMPORARY BYPASS.”

- b. REMOVE AND REPLACE Note 2 with the following:

“INSTALL 16” HYDRA-STOP VALVES ON MAIN LINE AND CLOSE VALVES.
VALVES SHALL BE HYDRA-STOP IVP 250 OR ENGINEER APPROVED EQUAL.”

- 2. SHEET P-13:

- a. REMOVE AND REPLACE Note 3 with the following:

“INSTALL 16” HYDRA-STOP VALVES ON MAIN LINE AND CLOSE VALVES.
VALVES SHALL BE HYDRA-STOP IVP 250 OR ENGINEER APPROVED EQUAL.”

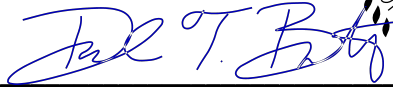
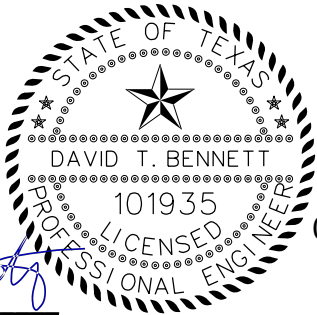
- 3. SHEET PS-3:

- a. REPLACE this drawing in its entirety with the attached drawing.

- 4. SHEET PS-5:

- a. REPLACE this drawing in its entirety with the attached drawing.

ALL BIDDERS SHALL ACKNOWLEDGE RECEIPT OF ADDENDUM NO. 3 IN THE BID FORM AND BY HIS/HER SIGNATURE AFFIXED HERETO AND TO FILE SAME AS AN ATTCHMENT TO HIS/HER BID. BID FORMS SUBMITTED WITHOUT THIS ACKNOWLEDGEMENT WILL BE CONSIDERED INFORMAL.


 08-10-15

David T. Bennett, P.E.

Freese and Nichols, Inc.

FREESE AND NICHOLS, INC.
TEXAS REGISTERED
ENGINEERING FIRM
F-2144

ACKNOWLEDGEMENT BY BIDDER

THE UNDERSIGNED ACKNOWLEDGES RECEIPT OF THIS ADDENDUM NO. 3 AND THE BID SUBMITTED HERewith IS IN ACCORDANCE WITH THE INFORMATION AND STIPULATION SET FORTH.

Date

Signature of bidder

Appended hereto and part of Addendum No. 3 is:

1. PRICE PROPOSAL
2. SHEET PS-3
3. SHEET PS-5
4. CONTRACTOR QUESTIONS AND ANSWERS DOCUMENT

END OF ADDENDUM NO. 3

PRICE PROPOSAL

PROPOSAL OF _____,
 a corporation _____,
 a partnership consisting of _____,
 an individual doing business as _____

THE SAN ANTONIO WATER SYSTEM:

Pursuant to Instructions and Invitations for Competitive Sealed Proposals, the undersigned proposes to furnish all labor and materials as specified and perform the work required for the construction of the **DSP SOUTHEAST TANK AND PUMP STATION PROJECT**, San Antonio Water System Job Numbers 13-6102 (DSP) and 13-6005 in accordance with the Plans and Specifications for the following prices, to wit:

PROPOSAL ITEMS

ITEM NO.	ITEM DESCRIPTION (Price to be written in words)	UNIT	ESTIMATED QUANTITY	UNIT PRICES (FIGURES)	TOTAL PRICE (FIGURES)
A BASE PROPOSAL					
1	Total amount for furnishing all labor materials, services, equipment, and appurtenances in conjunction with and incidental to all work (site work, general construction) for execution of the <i>DSP SOUTHEAST TANK AND PUMP STATION PROJECT</i> in conformance with the Project Documents, with the exception of those items specifically listed in other proposal items.	LS	1	\$ _____	\$ _____
2	Allowance for on-site security guard during performance of work (once chlorine is on site)	LS	1	\$50,000.00	\$50,000.00
3	City of San Antonio (COSA) Sitework Permit Allowance	LS	1	\$35,000.00	\$35,000.00
4	City Public Service (CPS) Energy Allowance	LS	1	\$200,000.00	\$200,000.00
LINE ITEM "A" SUBTOTAL BASE PROPOSAL (Items 1-4)					
100	Mobilization and Demobilization: This item includes project move-in and move-out of personnel and equipment, for work shall include furnishing all labor, materials, tools, equipment and incidentals required to mobilize, demobilize, bond and insure the Work for the <i>DSP SOUTHEAST TANK AND PUMP STATION PROJECT</i> , in accordance with the contract documents, complete in place. (Maximum of 10% of <u>Line Item "A"</u> Subtotal Base Proposal amount)	LS	1	\$ _____	\$ _____
MOBILIZATION SUBTOTAL (Item 100)					

Mobilization and Demobilization shall be limited to the maximum percentage shown. **If the percentage exceeds the allowable maximum stated for mobilization/demobilization, SAWS reserves the right to cap the amount at the percentages shown and adjust the extensions of the bid items accordingly.**

TOTAL PROPOSAL AMOUNT (LINE ITEM "A", MOBILIZATION)

\$ _____

RESPONDENT'S SIGNATURE & TITLE

FIRM'S NAME (TYPE OR PRINT)

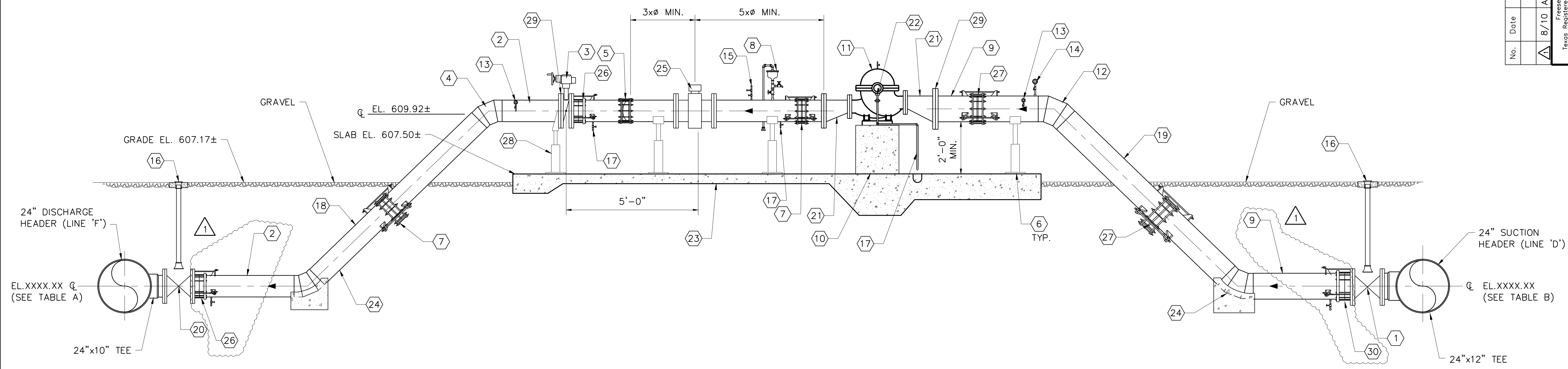
FIRM'S ADDRESS

FIRM'S PHONE NO./FAX NO.

FIRM'S PHONE EMAIL ADDRESS

The Contractor herein acknowledges receipt of the following:
Addendum Nos. _____

The Respondent offers to construct the Project in accordance with the Contract Documents for the contract price, and to final completion, as defined in the General Conditions, within **540 calendar days** after the start date, as set forth in the Authorization to Proceed. **The Respondent understands and accepts the provisions of the Contract Documents relating to liquidated damages of the Project if not completed on time.** Complete the additional requirements of the Proposal which are included on the following pages.



**TABLE A
 PZ830 DISCHARGE**

PUMP NO.	℄ ELEVATION
PZ 1-830	602.82
PZ 2-830	602.65
PZ 3-830	602.48
PZ 4-830	602.31

NOTES BY SYMBOLS "1"

- | | |
|---|---|
| <ol style="list-style-type: none"> 1. 12" GATE VALVE W/ 12" SLIP ON FLANGE. REF: 2/SD-1 2. 10" SPOOL, FLGxPE 3. 10" ELECTRIC OPERATED BUTTERFLY VALVE. REF: 5/SD-2 4. 10" 45-DEGREE BEND 5. 10" DUAL-CHECK VALVE. 6. ADJUSTABLE PIPE SUPPORT, 6/SD-2 7. 10" STEEL COUPLING TO FIT 10" STEEL PIPE. COAT AND WRAP ALL BURIED COUPLINGS. REF: 1/SD-1 8. 2" COMBINATION AIR VALVE. REF: 1/SD-4 9. 12" SPOOL, FLGxPE 10. PUMP MOTOR BASE, SIZING PER MANUFACTURER. REF: 4/SD-1 11. PZ830 PUMP #1, 2.33 MGD (200HP) 12. 12" 45-DEGREE BEND 13. PRESSURE GAUGE, REF: 2/SD-2 14. LOW WATER CUT-OFF PRESSURE SWITCH. | <ol style="list-style-type: none"> 15. 3/4" SAMPLE TAP. REF: 7/SD-1 16. 6" VALVE BOX 17. 2" DRAIN 18. 10" SPOOL PIECE, PExPE 19. 12" SPOOL PIECE, PExPE 20. 10" GATE VALVE, FLG. 21. REDUCER DIMENSIONS AND NECESSARY STRAIGHT PIPE LENGTH BETWEEN PUMP SUCTION INLET AND REDUCER TO BE DETERMINED AND CONFIRMED BY EQUIPMENT MANUFACTURER. DIMENSIONS AND INSTALLATION SHALL CONFORM TO AWWA C208 AND CURRENT HYDRAULIC INSTITUTE STANDARDS. 22. 2" PVC DRAIN PIPE 23. PUMP CONCRETE SLAB. 24. FABRICATED 45° STEEL BEND WITH CONCRETE REACTION BLOCK 25. MAGNETIC FLOW METER 26. 10" FLANGED COUPLING ADAPTOR. REF: 5/SD-1. COAT AND WRAP ALL BURIED COUPLINGS. 27. 12" STEEL COUPLING TO FIT 12" STEEL PIPE. COAT AND WRAP ALL BURIED COUPLINGS. REF: 1/SD-1. 28. FLANGE ADJUSTABLE SUPPORT, 6/SD-2 29. INSTALL ISOLATION FLANGE KIT 30. 12" FLANGED COUPLING ADAPTOR. COAT AND WRAP ALL BURIED COUPLINGS. REF: 5/SD-1 |
|---|---|

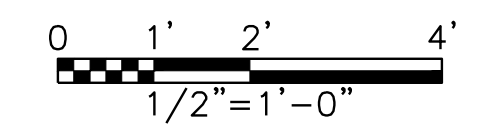
NOTES:

1. ALL PIPING, VALVES, FITTINGS, ETC. TO BE COATED AND LINED IN ACCORDANCE WITH THE SPECIFICATIONS. ALL NON-FLANGED PIPE AND FITTINGS SHALL BE WELDED
2. FLANGE GASKETS SHALL BE IN ACCORDANCE WITH SECTION 15136.
3. ALL BURIED VALVES (EXCEPT FOR OPERATING NUT), COUPLINGS AND HARDWARE SHALL BE WRAPPED IN 2 COATS OF WAX TAPE.
4. ALL STEEL PIPE SHALL BE RATED FOR MINIMUM 250 PSI WORKING PRESSURE.
5. ALL PLUGS SHALL BE BOLTED AND FLANGED.
6. ALL FLANGES SHALL BE 250 PSI CLASS.

**TABLE B
 PZ830 SUCTION**

PUMP NO.	℄ ELEVATION
PZ 1-830	601.88
PZ 2-830	601.89
PZ 3-830	601.91
PZ 4-830	601.92

1 PZ830 PUMP STATION TYPICAL SECTION
 PS-2 1/2" = 1'-0"



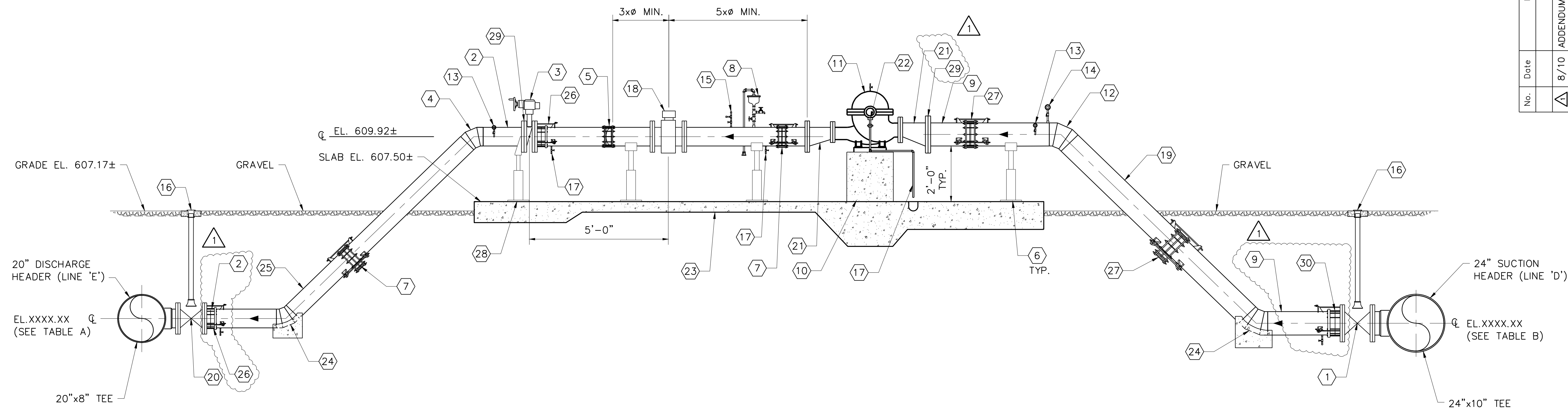
Date: 8/31/2015
 Designed by: DTB
 Drawn by: NC
 Checked by: ERE
 Scale: AS SHOWN

FREES & NICHOLS
 4040 Broadway Street, Suite 600
 San Antonio, Texas 78209-6350
 Phone - (210) 298-3800
 Fax - (210) 298-3801

**SAN ANTONIO
 WATER SYSTEM**

SAWS JOB NO. 13-6102(DSP) & NO. 13-6005
 SOUTHEAST TANK AND
 PUMP STATION
 PUMP STATION
 PZ830 MECHANICAL PIPING SECTION

App.	DTB	Freese And Nichols, Inc.
Revisions		Job No.
No.	Date	SWB13497
	8/10	ADDENDUM NO. 3
		Freese and Nichols, Inc. Texas Registered Engineering Firm F-2144
		DAVID T. BENNETT 101935 PROFESSIONAL ENGINEER 08-10-15



**TABLE A
PZ 2 DISCHARGE**

PUMP NO.	CL ELEVATION
PZ 1-2	601.51
PZ 2-2	601.38
PZ 3-2	601.25

NOTES BY SYMBOLS "1"

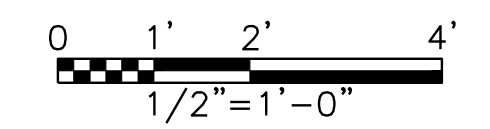
- | | |
|---|---|
| <ul style="list-style-type: none"> 1. 10" GATE VALVE W/ 10" SLIP ON FLANGE. REF: 2/SD-1 2. 8" SPOOL, FLGxPE 3. 8" ELECTRIC OPERATED BUTTERFLY VALVE. REF: 5/SD-2 4. 8" 45-DEGREE BEND 5. 8" DUAL-CHECK VALVE. 6. ADJUSTABLE PIPE SUPPORT. REF: 6/SD-2 7. 8" STEEL COUPLING TO FIT 8" STEEL PIPE. COAT AND WRAP ALL BURIED COUPLINGS. REF: 1/SD-1 8. 2" COMBINATION AIR VALVE. REF: 1/SD-4 9. 10" SPOOL, FLGxPE 10. PUMP MOTOR BASE, SIZING PER MANUFACTURER. 11. PZ2 PUMP #1, 1.67 MGD (100HP) 12. 10" 45-DEGREE BEND 13. PRESSURE GAUGE. REF: 2/SD-2 14. LOW WATER CUT-OFF PRESSURE SWITCH. 15. 3/4" SAMPLE TAP. REF: 7/SD-1 16. 6" VALVE BOX 17. 2" DRAIN. REF: 7/SD-1 18. MAGNETIC METER | <ul style="list-style-type: none"> 19. 10" SPOOL PIECE, PExPE 20. 8" GATE VALVE, FLG. 21. REDUCER DIMENSIONS AND NECESSARY STRAIGHT PIPE LENGTH BETWEEN PUMP SUCTION INLET AND REDUCER TO BE DETERMINED AND CONFIRMED BY EQUIPMENT MANUFACTURER. DIMENSIONS AND INSTALLATION SHALL CONFORM TO AWWA C208 AND CURRENT HYDRAULIC INSTITUTE STANDARDS. 22. 2" PVC DRAIN PIPE 23. PUMP CONCRETE SLAB. 24. FABRICATED 45° STEEL BEND WITH CONCRETE REACTION BLOCK 25. 8" SPOOL PIECE, PExPE 26. 8" FLANGED COUPLING ADAPTOR. COAT AND WRAP ALL BURIED COUPLINGS. REF: 5/SD-1 27. 10" STEEL COUPLING TO FIT 10" STEEL PIPE. COAT AND WRAP ALL BURIED COUPLINGS. REF: 1/SD-1 28. FLANGE ADJUSTABLE SUPPORT, 6/SD-2 29. INSTALL ISOLATION FLANGE KIT 30. 10" FLANGED COUPLING ADAPTER. COAT AND WRAP ALL BURIED COUPLINGS. REF: 5/SD-1 |
|---|---|

- NOTES:**
- 1. ALL PIPING, VALVES, FITTINGS, ETC. TO BE COATED AND LINED IN ACCORDANCE WITH THE SPECIFICATIONS. ALL NON-FLANGED PIPE AND FITTINGS SHALL BE WELDED
 - 2. FLANGE GASKETS SHALL BE IN ACCORDANCE WITH SECTION 15136.
 - 3. ALL BURIED VALVES (EXCEPT FOR OPERATING NUT), COUPLINGS AND HARDWARE SHALL BE WRAPPED IN 2 COATS OF WAX TAPE.
 - 4. ALL STEEL PIPE SHALL BE RATED FOR MINIMUM 250 PSI WORKING PRESSURE.
 - 5. ALL PLUGS SHALL BE BOLTED AND FLANGED.
 - 6. ALL FLANGES SHALL BE 250 PSI CLASS.

**TABLE B
PZ 2 SUCTION**

PUMP NO.	CL ELEVATION
PZ 1-2	601.86
PZ 2-2	601.88
PZ 3-2	601.89

PS-4 PZ2 PUMP STATION TYPICAL SECTION
1/2" = 1'-0"



Date: 8/31/2015
 Designed by: NC
 Drawn by: NC
 Checked by: ERE
 Scale: AS SHOWN

FRESE AND NICHOLS
 4040 Broadway Street, Suite 600
 San Antonio, Texas 78209-6350
 Phone - (210) 298-3800
 Fax - (210) 298-3801

**SAN ANTONIO
WATER SYSTEM**

SAWS JOB NO. 13-6102(DSP) & NO. 13-6005
 SOUTHEAST TANK AND
 PUMP STATION
 PUMP STATION
 PZ2 MECHANICAL PIPING SECTION

ACAD Rel 19.0s (LMS Tech) User: ddn
 [SWB13497] N:\util\Drawings\UT-PST-SC-PIPE02.dwg LAYOUT: PZ2 MECHANICAL PIPING SECTION
 Aug 10, 2015 - 3:44pm LIS: 1
 REFERENCES: 34BORDER, UT-DSP-XS-BASE, X-DIBSEAL, 101935

QUESTIONS AND ANSWERS

1. **Question:** Following the project DSP Southeast Tank and Pump Station - SAWS Job Nos. 13-6102 (DSP) & 13-6005, we would like to know if it will be possible to have an alternative supplier for Electric actuator to operate the valve?

From specification: 15103 - 5

2.03 ELECTRIC VALVE OPERATORS

K. Manufacturers and Products:

1. EIM Co.; Model 2000/MG.
2. Limitorque; Model MX or Model L120.
3. No other manufacturers will be considered.

As an alternative actuator manufacturer we would like to enter in contact with the Approval department for products registration if there will have a possibility to participate to actual and future bidding projects.

1. **Answer:** Per paragraph 5.11 “Equal Materials” of the General Conditions (page GC-30), requests for product substitutions will not be accepted until after the Contract has been awarded. There shall be no product approval during the bid phase other than what is already stated in the Specifications. For future reference, vendors must follow the product approval process as it is available via SAWS website before a project is advertised. The link is as follows:
http://www.saws.org/business_center/specs/product_submittal/
2. **Question:** Spec section 16481, 2.01.A does not list Benshaw as an acceptable manufacturer (Eaton, Siemens, GE, SQD, AB, & Siemens are listed) and there isn't an or equal clause. I understand that SAWS currently owns Benshaw soft starters and probably would accept them on the project however I want to ensure that you can get them approved by Gupta Engineering. Please advise if Benshaw will be an acceptable manufacturer; I attached a data sheet for review.

2. **Answer:** Please reference response to Question #1.
3. **Question:** Spec section 16481, 2.03.B.6 (not defined); the starter enclosures are to be installed indoors in an electrical room. The spec paragraphs for NEMA 7, 4X, Non Metallic, Aluminum, and NEMA 12 enclosures but doesn't specify which to use. The plans don't either. The spec states that wherever the enclosure is not defined that NEMA 4X 316 stainless steel enclosures should be provided. Can you please confirm NEMA 12 is acceptable or should I just clarify it on the bid.

3. **Answer:** Specification 16481 was modified through Addendum No. 2.
4. **Question:** In section 02626 Steel Pipe discusses the application of fusion bonded epoxy(FBE) as a lining for the interior and refers to the coatings specification 09905 for details. Section 09905 does not speak to FBE coating or to epoxy pipe lining the only reference is the chart on page 11 of section 09905 that talks about submerged piping. Can you clarify what is needed for the interior joint repair?
4. **Answer:** Per Specification Section 02626, 2.01.C.3, “Lining repair for pipe and fittings shall be in accordance with AWWA C213 and as recommended by the manufacturer.”
5. **Question:** On the interior of the 24” pipe for the field applied lining this can be made from the inside but anything smaller cannot be accessed to do the field applied lining. How do you want we handled the smaller pipe diameters?

5. **Answer:** Please reference response to Question #4.

6. **Question:** I need a clarifications on the specifications for the magnetic flow meters under Section 13310, Part 2.01.

On the output specifications you list “EtherNet/IP” protocol, but from a previous meeting with SAWS it was our understanding that they would request HART protocol for instrumentation going forward. Is the “EtherNet/IP” an old specification or it is what the project manager is requesting?

6. **Answer:** EtherNet/IP as currently appears in the magnetic flow meter specification is as intended. Respondent should read the entire specification for the remaining details.
7. **Question:** If “EtherNet/IP” is correct, do you mean the “EtherNet/IP” proprietary protocol from Allen Bradley? The way it is currently spelled makes it confusing.
7. **Answer:** Please reference response to Question #6.
8. **Question:** Specification Section 13310 specifically the Magnetic Flowmeters page 4 item e. states that measuring electrodes shall be ANSi 316 SS. Siemens std. electrode material is Hastelloy C which is more corrosion resistant than stainless steel. Are hastelloy C electrodes acceptable?

8. **Answer:** Hastelloy C electrodes are acceptable. Refer to Part 2 – Technical Specifications, Item No. 2 of this Addendum.
9. **Question:** Specification Section 13310 specifically the Magnetic Flowmeters page 4 item under Options H. 3. States that Electrode Cleaning system shall be provided where listed in the instrument device schedule or where indicated on the plans. The electrode cleaning system could prove to be beneficial on the incoming meters to burn off any potential deposits/build-up where lower velocities may be present. Are electrode cleaning systems required for any of the magnetic flowmeters for the project?
9. **Answer:** Provide as indicated in the plans and specifications.
10. **Question:** Specification Section 11243, Chlorine Gas Feed Equipment – The specifications make a couple of references to chlorine vaporizing equipment when there are none on this project. Sub section 2.02 asks for a remote pressure reducing valve (model 861M). this model has been replaced by a new unit. However, there is no need for this device without high capacity vaporizers on the project.
10. **Answer:** Agree that chlorine vaporizing equipment is not included in this project. References to remote pressure reducing valve have been removed. Refer to Part 2 – Technical Specifications, Item No. 2 of this Addendum.
11. **Question:** Sub section 2.07, chlorine scales; most sites have the scale reading going back to SCADA via 4-20mA output. Checking to see if that is an option that should be added.
11. **Answer:** The chlorine scales should provide a 4-20 mA output signal to the SCADA system to be displayed on the HMI per Section 13400 “Control Loop Descriptions” 3.02M. Refer to Part 2 – Technical Specifications, Item No. 2 of this Addendum.
12. **Question:** Noticed no listing for emergency shut off valves on cylinders. SAWS has used the Robo-Control shut-off valves at other sites.
12. **Answer:** Yes, emergency shut off valves will be required on all chlorine cylinders. Refer to Part 2 – Technical Specifications, Item No. 2 of this Addendum.
13. **Question:** I’d like to know how we can be an approved vendor with SAWS. There were a couple of bids that we would have like to bid on but Prime Controls and Richards were the only business listed that could bid on Control Panels, Instrumentation and Control, SCADA, Programming. If you are not the person, can you please direct me to the appropriate person. Thank you!

13. **Answer:** The Approved Vendor Listing for this project shall remain as is. Contractor shall contact the SAWS Production and Treatment Operations at 210-233-3772 to discuss any future opportunities and how to be included in the Approve Vendor List.

14. **Question:** Smith Pump Company is very interested in bidding the subject project as a representative for Flowserve pumps. Smith Pump will not bid with project without the following specification changes. Please review with the engineer for response by addendum. 1.08 B.1. Pumping Conditions for PZ830: Table requires a minimum operating head of 165' TDH. The specified TDH of 165' would be outside Flowserve's Acceptable Operating Range (AOR) and at 145% of BEP flow. Intersection of the proposed Flowserve pump on the MD, Minimum Head - 2028 system curve indicates a runout head of 190' which is within the pump's AOR. Flowserve requests a spec change to 190' for the minimum operating head on PZ830.

14. **Answer:** No changes to the specifications will be made. PZ830 minimum operating head to remain as specified.

15. **Question:** 1.08 B.1. Pumping Conditions for PZ2: Table requires a minimum operating head of 90' TDH. The specified TDH of 90' would be outside Flowserve's Acceptable Operating Range (AOR) and at 153% of BEP flow. Flowserve requests a spec change to 115' for the minimum operating head on PZ2.

15. **Answer:** No changes to the specifications will be made. PZ2 minimum operating head to remain as specified.

16. **Question:** 2.01.C.4 and 3.02 B. 3. Flowserve will not guarantee vibration limits that are more stringent than current HI Standards. Note that 2009 HI standards stipulate a vibration limit of .15 in/sec which is much more stringent than the 2000 HI Standard of .22 in/sec. Please remove "... 50% of..." from the last sentence.

Please feel free to contact me with any questions or comments.

16. **Answer:** No changes to the specifications will be made. Vibration limits to remain as specified.

17. **Question:** We could not find a specification for the Insta Valves shown on P-10 and P-13. Please provide a specification stating materials, manufacturers, and model numbers. We're assuming Hydra Stop is an approved manufacturer.

17. **Answer:** Valves shall be Hydra Stop IVP 250 or Engineer approved equal. Sizes of valves shall be as indicated on sheets P-10 and P-13. Refer to Part 3 – Drawings, Item No. 1 and Item No. 2 of this Addendum.

18. **Question:** We have contacted all the approved manufacturers listed in the steel pipe specification 02626. Three have decided not to quote the project at all. Two have decided not to quote this project directly to contractors, but to team up with steel pipe fabricators. The approved manufacturers will supply the pipe to the fabricators. The fabricators will quote the fabricated steel pipe to the contractors. The fabricator's name is not listed in the spec, but they are qualified in the industry to perform steel pipe fabricating. Please confirm that this is acceptable.

18. **Answer:** Per Specification 02626, paragraph 1.02.A.3, "Approved manufacturers include: ... f. Or Owner/Engineer approved equal." Contractor to provide fabricator submittal information for Owner/Engineer consideration.

19. **Question:** Drawing P-10 shows 16" x 12" Tapping Sleeves with a 12" Bypass Line. However note 1 describes 16" x 8" Tapping Sleeves with an 8" Bypass Line. What is the correct size for the Tapping Sleeve and Bypass ?

19. **Answer:** The tapping sleeves shall be 16"x12" and the bypass line shall be 12". Sheet P-10 is revised in Part 3 – Drawings, Item No. 1 of this Addendum.

20. **Question:** Spec 15136.2.05 describes Cloth Inserted NSF 61 gaskets. One of our suppliers stated that Cloth Inserted NSF 61 Gaskets may not be available. They are researching other NSF 61 gaskets. Please confirm.

20. **Answer:** Supply gaskets as specified.

21. **Question:** Spec 02626.2.01.D describes buried and submerged 316SS Bolts. It also describes zinc plated in the same paragraph. What is the correct material for buried & submerged bolts ?

21. **Answer:** Per 2.01.D.1, "For Class E and F flanges the bolts shall be ASTM A194 grade 2H nuts with bolt and nuts to be zinc plated in accordance with ASTM B633." Bolts and nuts for Class E and F flanges shall be zinc plated. All other nuts and bolts for buried and submerged flanges shall be Type 316 stainless steel.

22. **Question:** Question 3 in Addendum 2 states the Permit Allowance in the bid form does not cover a building permit. But in the Supplemental Conditions, Article V., it states, "reimburse

Contractor for fees associated with acquiring building and site work permits from the City of San Antonio, and for fees associated with any electrical connection/disconnection charges imposed by City Public Service. Fees shall be reimbursed using the price allowance items shown on the Price Proposal. Any unused portions of the allowances shall be credited to Owner by deductible change order.” Please confirm a building permit is required, and will not be paid for by allowance.

22. **Answer:** Per the Supplemental Conditions, Article V., “The Owner will reimburse Contractor for fees associated with acquiring building and site work permits for the City of San Antonio...” The COSA Sitework permit allowance will include the allowance for any COSA building permit necessary. This response supersedes the response provided for Question No. 3 in the Questions and Answers document in Addendum No. 2.

23. **Question:** Why is only Cla-Val listed in the 15114-4 specification? Isn't this a competitive bid? There should be “or equal” in the spec if it's not a sole source.

Bermad Control Valves are currently *used and approved by SAWS*. We have recently supplied this model valve on SAWS projects and would like to listed in the specification as we are an approved manufacturer and should be allowed to offer a competitive price quote.
Thanks

23. **Answer:** Please reference response to Question #1.