ADDENDUM NO. 2
TO
CONTRACT DOCUMENTS, DRAWINGS, AND SPECIFICATIONS
FOR CITY OF YANKTON, SD
2014 WATER TREATMENT PLANT IMPROVEMENTS, HORIZONTAL COLLECTOR WELL

City Project No. ES14-5
HDR Project No. 135-223788

TO: PROSPECTIVE BIDDERS AND OTHER INTERESTED PARTIES

Addendum No. 2 is being sent out to all plan holders.

THE CONTRACT DOCUMENTS AND SPECIFICATIONS, INCLUDING THE CONTRACT DRAWINGS ARE HEREBY MODIFIED BY THE FOLLOWING ITEMS:

SPECIFICATIONS

AD-2 ITEM 1: BID PROPOSAL

1. The SRF Project Number is C462038-05.

AD-2 ITEM 2: SECTION 01010: SUMMARY OF WORK

1. PART 1 – GENERAL, Page 01010-2, under 1.4 WORK SEQUENCE, following line 25, **add** the following sentence A.5.:
   "5. The City of Yankton will be hosting the 2015 World Youth Archery Championships from June 8 – 14, 2015. This event will take place near the construction area. The Contractor will not be able to work during this week and will be required to secure the construction site prior to the start of the Archery event."

AD-2 ITEM 3: SECTION 01020: MEASUREMENT AND PAYMENT

1. PART 1 – GENERAL, 1.1 SUMMARY, add the following paragraph 1.1.E.:
   "Fasteners (i.e. nuts and bolts) as identified throughout the specifications sized 1¼-inch and smaller are exempt as defined in the National De Minimis Exemption (http://water.epa.gov/grants_funding/upload/Deminimis-Waiver-04-15-14.pdf) from the American Iron and Steel provisions of the State Revolving Fund (http://water.epa.gov/grants_funding/upload/AIS-final-guidance-3-20-14.pdf)."

AD-2 ITEM 4: SECTION 02515: PRECAST CONCRETE MANHOLE STRUCTURES

1. PART 2 – PRODUCTS, 2.1.A.1.a. (Page 02515-2, Line 6) **add** "R-1772 w/T-Seal and Concealed Pickholes" after the words "Neenah Foundry".

AD-2 ITEM 5: SECTION 03308: CONCRETE, MATERIALS AND PROPORTIONING

1. PART 1 – GENERAL, **delete** 1.1.A.2.b (Page 03308-1, Line 10) "Dowels and anchors into concrete." in its entirety.
2. PART 2 – PRODUCTS, 2.2A.1 (Page 03308-2, Line 41), after the word "Type II" **insert** "Low Alkali".
3. PART 2 – PRODUCTS, 2.2.E.5 (Page 03308-3, Lines 26 and 27), **replace** the word "bridge" with the word "pavement".
4. PART 2 – PRODUCTS, **delete** 2.2.E.6 (Page 03308-3, Lines 28 and 29) which reads "Pozzolan or other additives shall not be used to compensate for alkali reactivity of aggregates." in its entirety.
5. PART 2 – PRODUCTS, **add** the following to 2.3.E.3.a (Page 03308-5, Lines 2, 3, and 4) "Minimum content of fly ash used shall correspond to the selected aggregate and South Dakota DOT Concrete Pavement design standards. Fly ash to be Class F, low alkali per South Dakota DOT Concrete Pavement Design standards"

6. PART 2 – PRODUCTS**, replace** 2.3.E.3.b (Page 03308-5, Lines 5 and 6) "If fly ash is used, the water to fly ash plus cement ratio not to exceed the maximum water cement ratio specified in this Specification Section." With "The water to fly ash plus cement ratio shall not exceed the maximum water cement ratio specified in this Specification Section."

AD-2 ITEM 6: SECTION 05505: METAL FABRICATIONS

1. PART 2 – PRODUCTS, 2.3.B (Page 05505-8, Line 16) **change** "8 IN DIA" to read "6 IN DIA" and **add** "(Minimum ¼" wall thickness)" at the end of the sentence.

AD-2 ITEM 7: SECTION 10200: LOUVERS AND VENTS

1. Specification Section 10200 is being reissued. Replace Section 10200 in its entirety with attached Specification Section 10200AD-2: Louvers and Vents.

AD-2 ITEM 8: SECTION 11072: PUMPING EQUIPMENT: VERTICAL TURBINE (LINE SHAFT)

1. PART 2 – PRODUCTS, paragraph 2.2.A. 2.a. (Page 11072-2, line 14), **change** "86 percent bowl efficiency" to read "85 percent bowl efficiency".
2. PART 2 – PRODUCTS, paragraph 2.5 MAINTENANCE MATERIALS (Page 11072-5):
   a. A.2. (Line 5), **delete** the word "Rubber".
   b. A.4. (Line 7), **change** to read: "Provide Flange Column SST Bolts for One (Flange) on each pump for a total of approximately 48 each SST bolts".
   c. A.7. (Line 10), **change** to read: "Only provide one set of spare line shaft bearings for one pump for a total of ten (10) line shaft bearings."
   d. A.8. (Line 11), **delete** the words in parenthesis, which reads "(only provide one spare seals for similar pumps)" and **add** "(a mechanical seal and gland to be provided for each pump for a total of three (3) mechanical seals and glands)".
   e. A.9. (Line 12), **change** to read: "Only provide one set of spare shaft couplings for one pump for a total of ten (10) shaft couplings".

AD-2 ITEM 9: SECTION 15060: PIPE AND FITTINGS: BASIC REQUIREMENTS

1. PART 3 – EXECUTION, 3.1.A (Page 15060-6, Lines 16 through 18) delete in its entirety and replace with the following: "Install piping in vertical and horizontal alignment as shown on the drawings."
2. PART 3 – EXECUTION, 3.11.A.2.a.2).a) (7) (Page 15060-14, Lines 39 and 40). Add the following sentence: "EBAA Flex 900 will also be acceptable."

AD-2 ITEM 10: SECTION 15062: PIPE: DUCTILE

1. PART 2 – PRODUCTS, 2.1.A.10.b (Page 15062-2, Line 39) **change** to read "American (FlexRing) – Above 12 IN."
2. PART 2 – PRODUCTS, 2.2 MATERIALS, C. Nuts and Bolts:
   a. C.1 (Page 15062-3, lines 5 and 6), delete in its entirety and replace with "1. Buried: Core-Blue or 304 Stainless Steel for buried application."
   b. C.2 (Page 15062-3, line 7) delete in its entirety and replace with "2. Exposed: Zinc coated in accordance with ASTM F2329 or 304 stainless steel per ASTM F593.

AD-2 ITEM 11: SECTION 15100: VALVES: BASIC REQUIREMENTS

1. In Addendum No. 1, Item 20.2: In the second line, change "1-1/4 Ø" to "1-1/2 Ø". **Add** the following sentence: "Stainless steel valve extension stems to be as manufactured by Trumbull or engineer approved equal."
2. PART 2 – PRODUCTS, in 2.3.6.f., which was added by Addendum No. 1, Item 20.3, **delete** the word "Cast-Iron" in the first sentence, and **change** the second sentence to read "Stem guides shall be spaced at 8 to 10 ft. (maximum) or as recommended by the valve stem manufacturer. Stem guides to be Trumbull Item No. 367-4960 or Engineer Approved Equal."
3. PART 2 – PRODUCTS, in 2.3.6.e., which was added by Addendum No. 1, Item 20.3, at the end of the sentence after the word "stem" insert "or provide thrust collar"

4. PART 2 – PRODUCTS, 2.3 VALVE ACTUATORS (Page 15100-3, after line 6), **add** the following paragraphs 6.g, and 6.h. (Note paragraphs 6.e. and 6.f. were added in Addendum No. 1):
   "g. Provide each valve extension stem with a valve Position Indicator with Ductile Iron Wall Bracket, Position Indicator Adapter Plate, and Bronze Bushing. Valve position indicator to be Trumbull Model 57T, Item No. 367-9404 or engineer approved equal.
   "h. Ductile iron wall bracket and stem guides to be epoxy coated in accordance with Specification Section 09905AD1."

AD-2 ITEM 12: SECTION 15101: GATE VALVES

1. PART 2 – PRODUCTS, 2.3.B.3.d (Page 15101-2, line 47), **change** "RS" to read "NRS".

DRAWINGS

AD-2 ITEM 13: SHEET 01C102: PROPOSED OVERALL SITE PLAN

1. In General Note 2.f., **add** the following sentences: "Concrete pavement replacement to match existing pavement. Existing concrete pavement is 5" thick with 6X6/W2.9xW2.9 Welded Wire Fabric. Provide 6" minimum aggregate base under concrete pavement."

AD-2 ITEM 14: SHEET 01C105: GENERATOR SITE PLAN

1. **Add** the following note to the drawing: "1. Contractor to provide 10 bollards as shown in Detail 6/Sheet 01C503 for placement around the Transformer and ATS Pad and Generator Pad. Location of Bollards to be determined in the field by the Owner and Engineer."

AD-2 ITEM 15: SHEET 01E101: COLLECTOR WELL SITE ELECTRICAL PLAN

1. **Add** the following note to the drawing: "Scale is 1"= 40' at 22" x 34" sheet size (Full Size); 1"= 80' at 11"x17" sheet size (Half-Size)".

AD-2 ITEM 16: SHEET 02S101: LOWER AND INTERMEDIATE LEVEL PLANS

1. In Section A at the lower corner of the buttress where the sloped portion meets the caisson wall, **add** the following note with leader. "Elevation = 1157.92".

AD-2 ITEM 17: SHEET 02D101: LOWER AND INTERMEDIATE LEVEL PLANS

1. In the COLLECTOR WELL LOWER LEVEL PLAN, in the note that reads "12"Ø Flanged R/W Gate Valve with SST Extension Stem and Stem Guides with 2" Square Operating Nut Located 3' Above Intermediate Landing. Stem Guide Spacing to be determined by Valve Manufacturer. (Typ of 13)", **change** the last sentence to read "Stem Guide Spacing to be 8' to 10' (maximum) or as recommended by Valve Stem Extension Manufacturer. (Typ of 13)".
2. In the COLLECTOR WELL INTERMEDIATE LEVEL PLAN, in the note that reads "SST Operating Stem Extensions For 12"Ø Flanged R/W Gate Valve Below with 2" Square Operating Nut Located 3' Above Intermediate Landing. Stem Guide Spacing to be determined by Valve Manufacturer. (Typ of 13)". **Change** the last sentence to read "Stem Guide Spacing to be 8' to 10' (maximum) or as recommended by valve stem extension manufacturer. (Typ of 13)" and **add** the following sentence: "Provide Valve Position Indicator 6" Above Intermediate Landing with Ductile Iron Wall Bracket, Position Indicator Adapter Plate and Bronze Bushing. (Typ of 13)."

AD-2 ITEM 18: SHEET 02D301: PROCESS SECTION

1. In the PARTIAL SECTION THROUGH LOWER LEVEL, in the note that reads "Valve Operator Stem Guides, Number, Type, and Spacing of Guides To Be Determined by Valve Manufacturer (Typ)", **change** "Spacing of Guides To Be Determined By Valve Manufacturer (Typ)" to read "Spacing of Guides To Be 8' to 10' (maximum) or As Determined By Valve Stem Extension Manufacturer (Typ)".
2. In the PARTIAL SECTION SHOWING INTERMEDIATE AND MAIN LEVELS, In the note that reads "Valve Operator Stem Guides, Number, Type, and Spacing of Guides To Be Determined by Valve Manufacturer (Typ)", **change** "Spacing of Guides To Be Determined By Valve Manufacturer (Typ)" to read "Spacing of Guides To Be 8' to 10' (maximum) or As Determined By Valve Stem Extension Manufacturer (Typ)". **Add** the following sentence: "Provide Valve Position Indicator 6" Above Intermediate Landing with Ductile Iron Wall Bracket, Position Indicator Adapter Plate and Bronze Bushing. (Typ)."

AD-2 ITEM 19: SHEET 02D302: PROCESS SECTION

1. In the PARTIAL SECTION SHOWING LOWER LEVEL, in the note that reads "Valve Operator Stem Guides, Number, Type, and Spacing of Guides To Be Determined by Valve Manufacturer (Typ)", **change** "Spacing of Guides To Be Determined By Valve Manufacturer (Typ)" to read "Spacing of Guides To Be 8' to 10' (maximum) or As Determined By Valve Stem Extension Manufacturer (Typ)".

2. In the PARTIAL SECTION SHOWING INTERMEDIATE AND MAIN LEVELS:
   a. In the note that reads "Valve Operator Stem Guides, Number, Type, and Spacing of Guides To Be Determined by Valve Manufacturer (Typ)", **change** "Spacing of Guides To Be Determined By Valve Manufacturer (Typ)" to read "Spacing of Guides To Be 8' to 10' (maximum) or As Determined By Valve Stem Extension Manufacturer (Typ)". **Add** the following sentence: "Provide Valve Position Indicator 6" Above Intermediate Landing with Ductile Iron Wall Bracket, Position Indicator Adapter Plate and Bronze Bushing. (Typ of 13)."
   b. In the concrete caisson wall, just above finished ground **add** a 30"Ø Flange End x Plain End Wall Casting with thrust collar and a blind flange with key note 23 next to it. The flanged end of the pipe will be to the outside of the caisson wall.
3. Under the Key Notes **add** the following key note 23:
   "⟨23⟩ 30"Ø Flanged End x Plain End Wall Casting with Thrust Collar. Provide Blind Flange with Gaskets and Bolts on the Flanged end of the wall casting."

AD-2 ITEM 20: SHEET 02D303: PROCESS SECTION

1. In the PARTIAL SECTION SHOWING INTERMEDIATE AND MAIN LEVEL, in the note that reads "Valve Operator Stem Guides, Number, Type, and Spacing of Guides To Be Determined by Valve Manufacturer (Typ)", **change** "Spacing of Guides To Be Determined By Valve Manufacturer (Typ)" to read "Spacing of Guides To Be 8' to 10' (maximum) or As Determined By Valve Stem Extension Manufacturer (Typ)". **Add** the following sentence: "Provide Valve Position Indicator 6" Above Intermediate Landing with Ductile Iron Wall Bracket, Position Indicator Adapter Plate and Bronze Bushing. (Typ)."

AD-2 ITEM 21: SHEET 02E641: MOTOR CONTROL DIAGRAMS

1. At the end of Key Note 2, add the following sentence: "Mechanical Controls Contractor to Provide 24V Instrumentation."

ALL ITEMS IN CONFLICT WITH THE ADDENDA ARE HEREBY DELETED.

THIS ADDENDUM IS MADE PART OF THE CONTRACT DOCUMENTS AND SHALL BE NOTED IN THE PROPOSAL.

I hereby certify that this addendum was prepared by me or under my direct supervision and that I am a duly licensed professional engineer under the laws of the State of South Dakota

Kevin F Newman

Kevin F. Newman, P.E.

Date: October 30, 2014 Lic. No: 6247

2014/10/30

SECTION 10200AD-2
LOUVERS AND VENTS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Louvers and vents.

B. Related Sections include but are not necessarily limited to:
   1. Division 00 - Bidding Requirements, Contract Forms, and Conditions of the Contract.
   2. Division 01 - General Requirements.
   3. Section 07600 - Flashing and Sheet Metal.
   4. Section 07900 - Joint Sealants.
   5. Section 08410 - Storefront.

1.2 QUALITY ASSURANCE

A. Referenced Standards:
   1. Aluminum Association (AA):
      a. DAF 45, Designation System for Aluminum Finishes.
   2. Air Movement and Control Association (AMCA).
   3. ASTM International (ASTM):
      a. B221, Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.

1.3 SUBMITTALS

A. Shop Drawings:
   1. See Specification Section 01340 for requirements for the mechanics and administration of the submittal process.
   2. Drawing showing location of each louver or vent, indicating size and arrangement of blank-off plates if required.
   3. Product technical data including:
      a. Acknowledgement that products submitted meet requirements of standards referenced.
      b. Manufacturer's installation instructions.
      c. Color chart showing manufacturer's full line of colors including exotic and special colors for color selection by Engineer.

PART 2 - PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS

A. Subject to compliance with the Contract Documents, the following manufacturers are acceptable:
   1. Louvers:
      a. Airolite Co.
      b. Construction Specialties, Inc.
      c. Ruskin Manufacturing.
      d. Industrial Louvers, Inc.
      e. American Warming.

B. Submit request for substitution in accordance with Specification Section 01640.

2.2 MANUFACTURED UNITS

A. Louvers:
   1. 6 IN deep.
   2. Drainable with blades at 37-1/2 degrees.
   3. Continuous blade appearance.
   4. ASTM B221 extruded aluminum, alloy 6063T5, minimum 0.081 IN thick.
   5. Minimum free area: 8.58 SF for 4 x 4 FT louver.
   6. Maximum pressure drop: 0.10 IN of water at 700 fpm.
   7. Water penetration: 0.01 OZ/SF at 873 fpm.
   8. AMCA certified.
   9. Ruskin "ELF 375DXH".
   10. Insect screen:
      a. 18-16 mesh aluminum.
      b. Install in standard aluminum frame.
   11. Glazing Adapter
      a. Extruded aluminum alloy 6063-T5.
      b. Size as required for louver model.
      c. Thickness: 0.081 IN or as required per manufacturers standard.
      d. Finish to match storefront.
      e. Coordinate with Section 08410 Storefront.

B. Anchors, Fasteners, Reinforcing: Aluminum or stainless steel.

C. Finish:
   1. Architectural Class 1 coating per AA DAF 45.
      a. Champagne, AA-M10C12C22A44.
      b. Finish matching storefront, no exceptions.

D. Size: Refer to Mechanical Drawings for louver size, and refer to Architectural Drawings for louver shapes.

E. Blank-Off Plates:
   1. Aluminum sheet, 0.050 IN minimum thickness.
   2. Factory applied flat black painted finish.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Install products in accordance with manufacturer's instructions.

B. Install anchoring and bracing accessories as required.
   1. Install into storefront frame with glazing adaptor.

C. Seal around perimeter on exterior and interior.
   1. See Section 07900.

D. Install 0.040 IN aluminum flashing at sill to match louver.
   1. See Section 07600.

END OF SECTION