

**ADDENDUM NO. 2
TO
PLANS AND SPECIFICATIONS
FOR
2024 LAKE ICARIA RAW WATER PUMP STATION REPLACEMENT
Corning Municipal Utilities
Corning, Iowa**

DETAILED SPECIFICATIONS

SECTION 13570 – INSIDE PROCESS PIPING

Page 13570-7, side heading “2.12 Slanting Disc Check Valves”, delete paragraphs A, B, C and D and insert the following:

- “A. Body shall be ASTM A126 Gr. B cast iron or ASTM A536 Ductile Iron with two piece design. Body halves shall be O ring sealed and bolted together to capture seat ring on 55° angle. Area through seat section shall be 40% larger than inlet and outlet of valve. Each body half shall have access cover for internal inspection. Machine each body half to accept top mounted oil dashpot. Cast disc stabilizers into valve body.

- B. Disc shall have hydrofoil design to create lift and provide low head loss. Discs shall be ASTM A536 ductile iron with 316 stainless steel disc ring for sizes 12” and larger. Body seat and disc ring shall be 316 stainless steel per ASTM A296 and manufactured to be field replaceable without any special tools. Pivot pins shall be 303 stainless steel per ASTM A582. Pivot pin bushings shall be aluminum bronze per ASTM B150 Alloy 2 for sizes 6” through 10” and 304 stainless steel per ASTM A269 for sizes 12” and larger. Provide stainless steel indicator to show disc position.

- C. Provide top mounted dashpot for controlled opening and non slam closing to minimize surge and water hammer. Dashpot shall be self contained oil system, separate and independent from the pipeline media. Opening and closing speeds shall be independently adjustable by color coded micrometer type control valves. Provide internal adjustable cushion chamber in head of cylinder for slower speed during last few degrees of disc closing. Oil reservoirs shall be Carbon Steel, painted with 8 mil of Carboguard 891 and hydraulic hoses S.A.E. certified.

- D. Check valves shall be APCO Model CSD-TMD, Series 800T, Pratt Tilting Disc Check Valve, or equal.”

SECTION 16455 – VARIABLE FREQUENCY DRIVE UNITS

Page 166455-2, side heading “2.01 General”, paragraph A, modify table to change Booster Pump RPM criteria from 1800 to 3600.

SECTION 17100 - PROCESS CONTROL AND INSTRUMENTATION SYSTEMS

Page 17100-3, under side heading "1.04 Controls Integrator Experience And Capabilities" paragraph D, after subparagraph 3, add the following:

"4. HOA Solutions; Contact: Lincoln Williams, (402) 467-3750, lincoln@hoa-solutionsinc.com"

SECTION 17300 – CONTROL PANELS

Page 17300-9, Delete subheading "2.05 Distributed Control Software" in its entirety and renumber succeeding heading.

SECTION 17400 – CONTROL DESCRIPTIONS

Page 17400-7, Delete subheading "2.07 SCADA Integration" in its entirety.

PLANS

DWG NO. 10-P-1, Section A, add note "Eccentric reducer connection size is dependent of equipment supplied. Contractor shall adjust reducer connection size based on equipment provided.

Supplemental drawing included herein shows the existing booster from the 1978 Raw Water Pumping project drawings.

Clarification: The contractor is responsible for supplying the dehumidifier. See dehumidifier schedule on Dwg. No. 10-P-1.

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

Signed:

Date:



April 26, 2024

Michael J. Shoup, P.E.

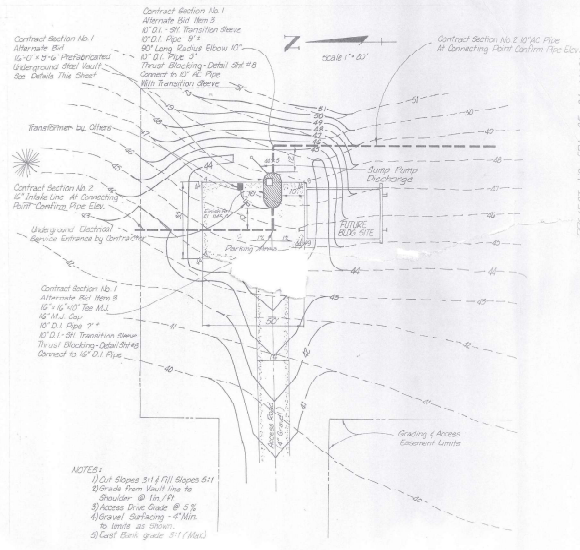
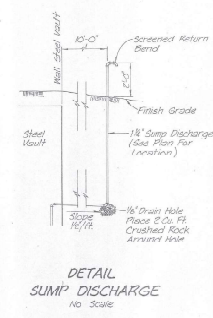
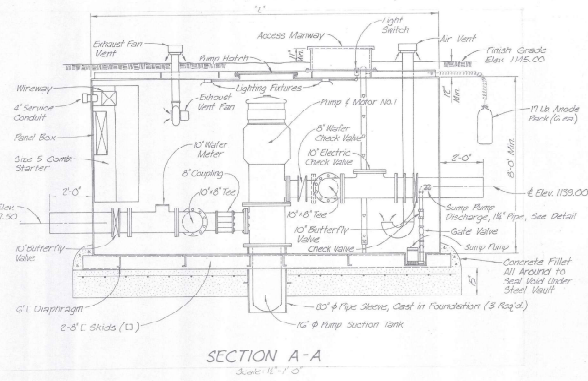
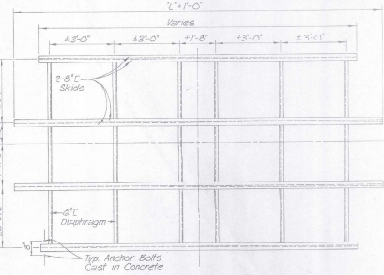
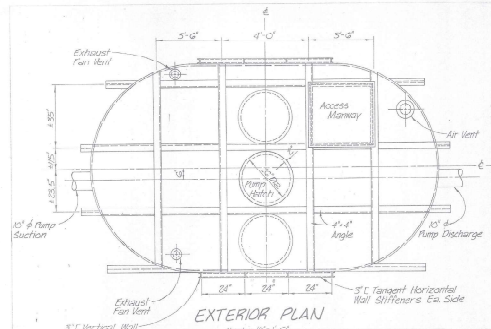
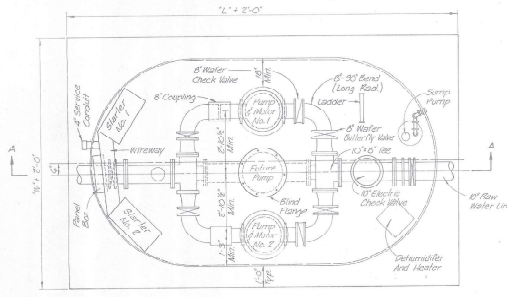
Iowa License No. 16922

My license renewal date is December 31, 2025



Detailed parts covered by this seal:

All



Note: Dimensions shown for structural details are based on a 12' wide x 10' long structure. Dimension, size & location of structural members shall be the responsibility of the manufacturer to fit the equipment proposed. Clearances for electrical equipment shall meet current N.E.C. standards. Provide clearance for ladder, top & bottom, to meet safety standards.

- NOTES:
- 1) Cut Slopes 3:1 & Fill Slopes 5:1
 - 2) Grade from Mainline to Shoulder @ 1in/1ft
 - 3) Access Drive Grade @ 5:5
 - 4) Gravel Surfacing - 6" Min. to limits as shown.
 - 5) East Elev. given - 1171.00