



ADDENDUM NO. 2

APRIL 21, 2023

FOR

FARGO REGIONAL WATER DISTRIBUTION EXTENSION: SOUTH SEGMENT

CITY OF FARGO

FARGO, NORTH DAKOTA

MARCH 2023

This Addendum No. 2 forms a part of the Contract Documents and modifies the original Bidding Documents as noted within this Addendum. All provisions of the Contract Documents not in conflict with this Addendum shall remain in full force. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

This addendum consists of one (1) page and one (1) attachment.

**SPECIFICATIONS**

1. Specification Section 00 41 00 – Bid Form:
  - a. Page 00 41 00 – 4, Paragraph 7.01.B, **DELETE** Paragraph 7.01.B Non-Collusion Affidavit in its entirety. **A Non-Collusion Affidavit form is not required to be submitted with the Bid.**
2. Specification Section 00 01 10 – Table of Contents:
  - a. Page 00 01 10 – 1, **ADD** 40 73 13 – PRESSURE AND DIFFERENTIAL PRESSURE GAUGES to the table of contents.
  - b. **ADD** the attached Specification Section 40 73 13 – PRESSURE AND DIFFERENTIAL PRESSURE GAUGES consisting of three (3) pages to the specifications.

**DRAWINGS**

1. SHEET C503 REISSUED BY ADDENDUM NO. 1:
  - A. Detail 1/C503: **DELETE** Note 4 in its entirety and **REPLACE** with the following:  
"4. DRAIN LINE SHALL PROVIDE POSITIVE SLOPE TO ROCK OUTSIDE OF MANHOLE. FURNISH AND INSTALL A 1-INCH DOUBLE BALL CHECK VALVE THAT MEETS THE REQUIREMENTS OF AWWA C514 AND TEN STATES STANDARDS (VAL MATIC FLOODSAFE INFLOW PREVENTER MODEL 1301 OR EQUAL) ON THE 1-INCH TAP/DRAIN PIPE AND JUST ABOVE THE 2-INCH AIR GAP. FURNISH AND INSTALL A 1-INCH X 3-INCH REDUCER FITTING ABOVE THE AIR RELEASE VALVE TO TRANSITION FROM THE 1-INCH OUTLET OF THE AIR RELEASE VALVE TO A 3-INCH VENT PIPE. THE LOCATION OF THE DRAIN LINE AND ROCK DRAIN FIELD SHALL BE COORDINATED WITH THE ENGINEER IN THE FIELD."

**END OF ADDENDUM NO. 2**

*Fargo, North Dakota*

*Fargo Regional Water Distribution Extension:  
South Segment*

*April 21, 2023*

*Addendum No. 2 - 1*

*Project No. P00803-2022-002*

**SECTION 40 73 13**  
**PRESSURE AND DIFFERENTIAL PRESSURE GAUGES**

**PART 1      GENERAL**

1.01 SUMMARY

A. Section Includes:

1. Furnishing and installation of the following, as indicated, in accordance with the provision of the Contract Documents:
  - a. Pressure Gauges.
  - b. Stopcocks.
  - c. Pressure Impulse Dampeners.
  - d. Diaphragm Seal.

B. Related Sections include:

1. Section 00 73 40 – Funding Agency Requirements.
2. Section 01 33 00 – Submittal Procedures.
3. Section 01 45 00 – Quality Control.
4. Section 01 61 00 – Common Product Requirements.
5. Section 01 75 00 – Starting and Adjusting.
6. Section 01 77 00 – Closeout Procedures.
7. Section 01 78 23 – Operation and Maintenance Data.
8. Section 01 79 00 – Demonstration and Training.
9. Division 40 - Process Interconnections.
  - a. SUBMITTALS

C. Shop Drawings and Product Data shall be submitted in accordance with specification Section 01 33 00 – Submittal Procedures and shall include detailed specifications, drawings, and data covering all materials, parts, devices, equipment, and other accessories forming part of equipment for the complete operational system.

D. Operations and Maintenance Data shall be submitted in accordance with specification Section 01 78 23 – Operation and Maintenance Data.

1.02 QUALITY ASSURANCE

A. The equipment and material to be furnished under this Contract shall be in accordance with Section 01 45 00 – Quality Control and Section 01 61 00 – Common Product Requirements.

1.03 REGULATORY REQUIREMENTS

A. All products that may come into contact with water intended for use in a public water system shall meet American National Standards Institute (ANSI)/National Sanitation Foundation (NSF) International Standards 60 and 61, as appropriate. A product will be considered as meeting these standards if so certified by NSF, the Underwriters Laboratories, or other organization accredited by ANSI to test and certify each product.

#### 1.04 WARRANTY REQUIREMENTS

- A. A written warranty shall be provided for the equipment specified in this Section. The warranty shall be for a minimum period identified herein and shall begin from the date of Substantial Completion, as defined in Section 01 77 00 – Closeout Procedures. Such warranty shall cover all defects or failures of materials or workmanship that occur as the result of normal operation and service. No prorated warranty will be accepted.
  - 1. Contractor's Warranty: One (1) Year.
  - 2. Manufacturer's Warranty: Minimum of one (1) year but not less than manufacturer's standard warranty period.

### **PART 2 PRODUCTS**

#### 2.01 WORKING PRESSURE

- A. Working pressure of pipe specialties to be equal to working pressure of connecting pipes, unless specified otherwise.

#### 2.02 APPROVED MANUFACTURERS

- A. Pressure Gauges:
  - 1. Terice No. 450.
  - 2. Ashcroft 1259.
  - 3. Approved Equivalent.

#### 2.03 PRESSURE GAUGES

- A. General:
  - 1. Case: Fiberglass reinforce polypropylene, turret, solid front with blow-out back.
  - 2. Size:
    - a. -inch diameter when mounted 7-feet or greater above finished floor.
    - b. -inch diameter when mounted less than 7-feet above finished floor.
  - 3. Units: PSI
  - 4. Window: Laminated safety glass.
  - 5. Provide with dial having white background and black figures and graduations. Pointer shall be micro-adjustable.
  - 6. Install brass tee handle cock on each pressure gauge.
  - 7. Fill gauge with glycerin.
  - 8. Accuracy shall be ASME Grade 2A per ANSI/ASME B40.100.
  - 9. Gauges shall be selected so that normal operating pressures fall at approximately mid-scale and so that continuous operation does not exceed 75% of full scale.
- B. Taps and Bends: As required for proper positioning of gauge for reading and maintenance.

- C. Stopcocks: Trerice Series 865L gauge cock. Provide required brass nipples and associated piping accessories for a complete and functional installation.
- D. Pressure Impulse Dampeners: Trerice Series 870 suitable for water service.
- E. Diaphragm Seal
  - 1. Install diaphragm seal on all raw water pressure gauges.
  - 2. Components:
    - a. Compact series 3 by Trerice.
    - b. Provide with ¼ inch NPT flushing connection.
    - c. Glycerin filled.
    - d. Body, bolts, nuts, and all other components shall be stainless steel.

#### 2.04 Ball Valves

- A. Manual ball valves up to 2-inches in size for use with metallic pipe systems:
  - 1. Body: 316 Stainless Steel.
  - 2. Ball and Stem: Stainless Steel.
  - 3. Valve Style: Quarter-Turn Full Port Ball.
  - 4. Actuator Type: Lever Handle, 304 Stainless Steel.
  - 5. Seat Material: PTFE
  - 6. Pressure Rating: 125 psi WSP.
  - 7. Manufacturer and Type: Full-port, Series S-FBV-1 ball valve as manufactured by Watts Regulator Company or equal.

#### 2.05 Pressure Transmitter

- A. A pressure transmitter **is not** required for this installation.

### **PART 3 EXECUTION**

#### 3.01 INSTALLATION

- A. Refer to the Drawings for design details for each installation.
- B. Install gauges with shut off cocks in straight runs of piping so that they may be read from floor.
- C. Provide extension necks on pressure taps in insulated piping, vessels, and equipment.
- D. Provide isolating seal complete with bleed/fill screw where process media are injurious to gauge internals or otherwise required.
- E. Install pressure gauges, filter snubbers, and miscellaneous accessories at all locations indicated on the Drawings.
- F. Furnish and install all required fittings, bushings, reducers, couplings, pipe taps, diaphragm seals, and adapters for a complete and functional installation.

### **END OF SECTION**