

ADDENDUM NO. 2

TO: PLANS AND SPECIFICATIONS FOR STATE OF MISSOURI

Replace Water Distribution System
Algoa Correctional Center
Jefferson City, Missouri
PROJECT NO.: C2403-01

Bid Opening Date: 1:30 PM, March 20, 2025

Bidders are hereby informed that the construction Plans and/or Specifications are modified as follows:

SPECIFICATION CHANGES:

1. Section 223116 – Water Softener

a. ADD Paragraphs 1.1.C and 1.1.C.1 as follows:

C. All equipment described in this section shall be supplied by a single source regularly engaged in water softening equipment manufacture and installation to provide a complete and usable water softening system including controls and monitoring systems as shown on the Drawings.

1. The basis of design for the water softening system is by Walter Louis Fluid Technologies.

b. REVISE Paragraph 1.2.A as follows:

A. Contractor shall coordinate with the Owner's Water Treatment Service Contractor for installation and startup of the water softening system.

c. REVISE Paragraph 1.3.A.4 as follows:

4. ASME compliance for FRP Tanks: comply with ASME Boiler and Pressure Vessel Code. Contractor shall also obtain all required permits (if applicable) from the Missouri Department of Public Safety per Missouri state statutes 650.200 to 650.290 ([Boiler & Pressure Vessel Safety | Fire Safety | Missouri Department of Public Safety](#)).

d. REVISE Paragraph 2.1.A as follows:

A. Provide a pressure type water softener, consisting of a softener tank, valves, piping, controls and monitoring equipment, and all appurtenances required for a complete and usable system. See Drawings for components that are being replaced.

e. ADD Paragraph 2.1.C as follows:

C. Acceptable Manufacturers:
1. Walter Louis Fluid Technologies
2. TonkaWater
3. Marlo

4. Approved equal
- f. REVISE Paragraph 2.3.C as follows:
 - C. Each tank shall be 63 inches in diameter and 86 inches tall.
- g. REVISE Paragraph 2.4.A, ADD 2.4.B and 2.4.C as follows:
 - A. Existing Brine system shall be replaced with equipment like the existing system. The brine tank and pump shall be fully integrated into the supplied water softener system by the water softener supplier.
 - B. The brine tank shall be corrosion-proof.
 - C. The brine tank shall be similar in size to the current brine tank. The current tank is 72 inches in diameter and 62 inches in height, with a volume of approximately 1,100 gallons.
- h. REVISE Paragraph 2.6.A.1 as follows:
 1. Resin: 140 cubic feet, maximum, of 10% Cross Linked water softener resin.
- i. ADD Paragraph 2.11 as follows:

2.11 MONITORING SYSTEM – Chlorine Analyzer with Trending Capability

- A. The monitoring system shall consist of a chlorine analyzer with a sample valve, flow cell, and buffer and indicator solutions under positive pressure. The analyzer shall measure chlorine with a colorimetric chemistry utilizing EPA accepted DPD method.
- B. The monitor shall perform an analysis every 240 (4 hours) minutes. In between analysis the unit shall perform a self-test auto blanking feature to eliminate potential drift. The unit shall operate unattended for 30 days between chemical reagent changes and sample cell cleaning.
- C. The unit shall include as standard a sample conditioning element consisting of a pressure regulator, strainer and shut off valve.
- D. The analyzer shall have a range of 0-5mg/L free or total residual chlorine. Accuracy shall be +/- 5% of reading or +/- 0.05 mg/L, whichever is greater. Minimum detection shall be 0.035 mg/L and analyzer resolution shall be 0.01 mg/L. Repeatability shall be 0.05 mg/L.
- E. The chlorine analyzer shall be equipped with an optically isolated analog output selectable as 0-20mA or 4-20 mA. The output span shall be field programmable over any portion of the analyzer range.
- F. Direct serial connection to a computer or USB flash drive through a USB port on the analyzer. Verifiable text reports shall be exported from the analyzer to the USB flash drive or computer.

DRAWINGS CHANGES:

1. SHEET C-004 – SOFTENER BUILDING DEMOLITION PLAN, Detail 4-Demo Elevation View
 - a. REVISE Brine Tank Note: Existing brine tank(s) is/are to be replaced with tank(s) of identical volume.
2. SHEET C-006 – SOFTENER BUILDING PROPOSED CONDITIONS
 - a. REVISE DETAIL 1, PROPOSED BUILDING PIPING AND EQUIPMENT, NOTE 1:
 1. Coordinate installation and startup of the proposed water softening system with Owner's water treatment service contractor:

Walter Louis Fluid Technologies
530 S. 5th Street
Quincy, IL 62301
217.223.2017
sales@walterlouis.com

GENERAL COMMENTS:

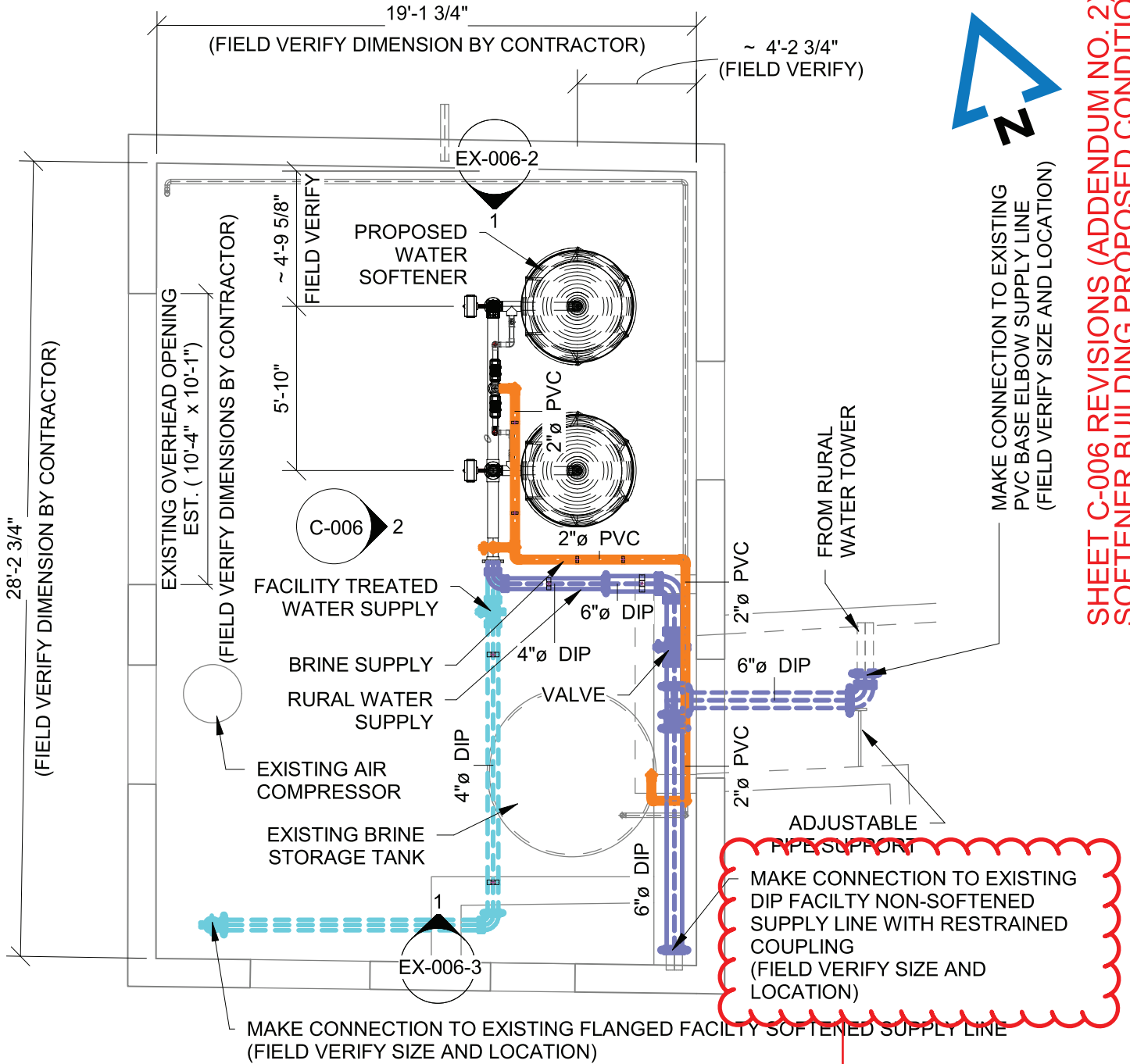
1. The Pre-Bid Meeting was held March 3, 2025, followed by an inspection of the project site. The sign-in sheet is attached.
2. Bidders desiring to perform a site inspection should contact DOC staff Mike Karaff or Joe Coffelt, at (573) 751-3911 or (573) 522-4647, Mike.Karaff@doc.mo.gov, or Joe.Coffelt@doc.mo.gov to schedule a time to enter the facility.
3. Please contact Mandy Roberson, Contract Specialist, at (573) 522-0074, Mandy.Roberson@oa.mo.gov for questions about bidding procedures, MBE\WBE\SDVE Goals, and other submittal requirements.
4. The deadline for technical questions is now March 12, 2025, at noon (12 pm).
5. Changes to, or clarification of, the bid documents are only made as issued in the addenda.
6. All correspondence with respect to this project must include the State of Missouri project number as indicated above.
7. Current Planholders list is available online at: [C2403-01 Replace Water Distribution Center - Algoa Correctional Center :: Plan Holders :: State of Missouri Office of Administration](#).
8. Prospective Bidders contact American Document Solutions, 1400 Forum Blvd Suite 7A, Columbia MO 65203, (573) 446-7768 to get plans and specifications.
9. **All bids shall be submitted on the bid form without additional terms and conditions, modifications, or stipulations. Each space on the bid form shall be properly filled. Failure to do so will result in rejection of the bid.**
10. **MBE/WBE/SDVE participation requirements can be found in DIVISION 00. The MBE/WBE/SDVE participation goals are 10%/10%/3%, respectively. Only certified firms as of the bid opening date can be used to satisfy the MBE/WBE/SDVE participation goals for this project. If a bidder is unable to meet a participation goal, a Good Faith Effort Determination Form must be completed. Failure to complete this process will result in rejection of the bid.**

ATTACHMENTS:

Sheet C-006-Updated Details

March 10, 2025

END ADDENDUM NO. 2



PROPOSED BUILDING PIPING AND EQUIPMENT

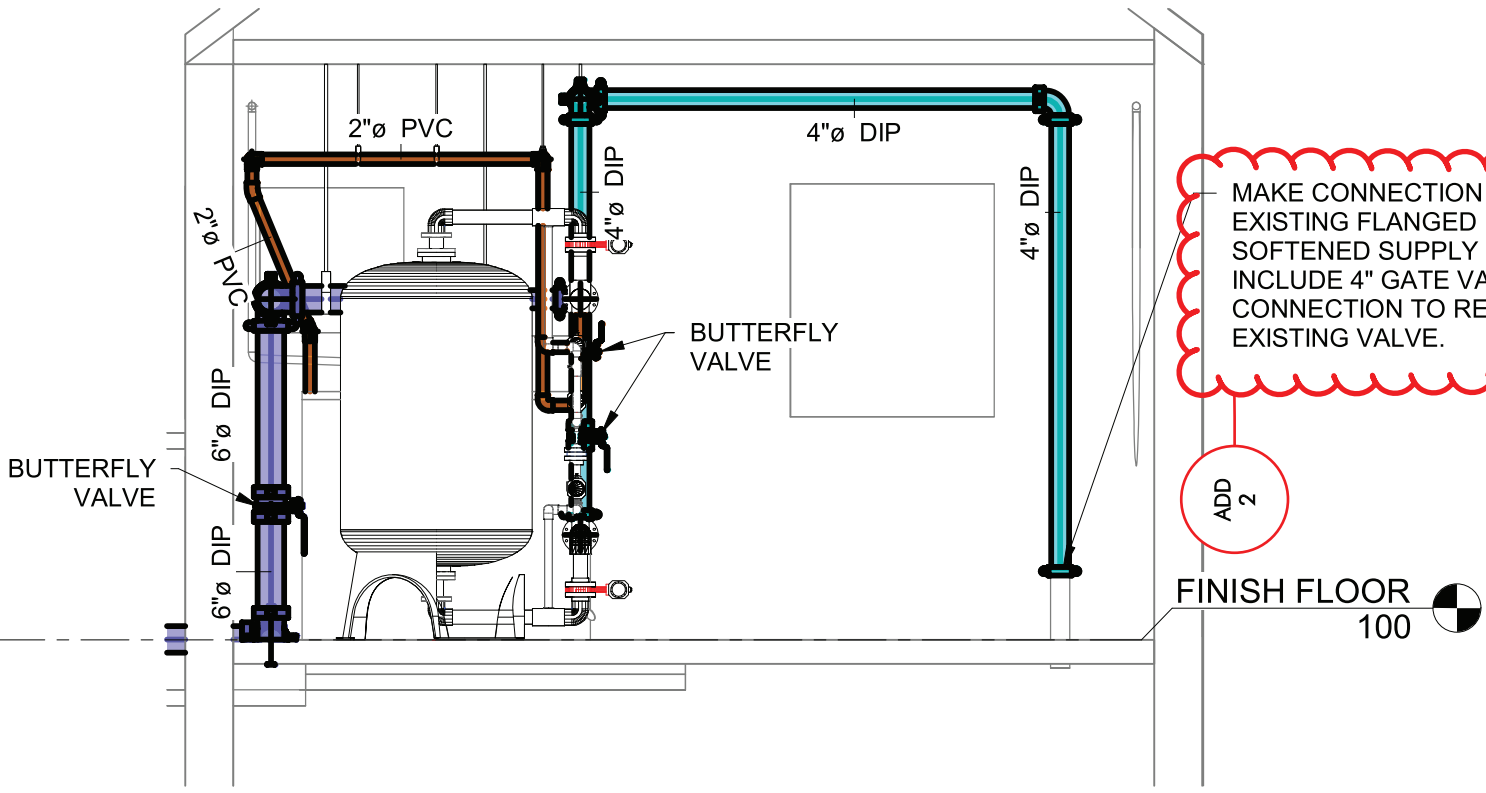
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NOTES:

- COORDINATE INSTALLATION, AND STARTUP OF THE PROPOSED WATER SOFTENING SYSTEM WITH THE OWNER'S WATER TREATMENT SERVICE CONTRACTOR:
 WALTER LOUIS FLUID TECHNOLOGIES
 530 S. 5TH STREET
 QUINCY, IL 62301
 217.223.2017
 SALES@WALTERLOUIS.COM
- ALL PIPING IN BUILDING IS TO BE RESTRAINED JOINT PIPE. REPLACE ALL AIR LINES FROM AIR COMPRESSOR TO CONTROL VALVES.
- CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.

**SHEET C-006 REVISIONS (ADDENDUM NO. 2)
 SOFTENER BUILDING PROPOSED CONDITIONS**

ADD 2



MAKE CONNECTION TO EXISTING FLANGED FACILITY SOFTENED SUPPLY LINE INCLUDE 4" GATE VALVE AT CONNECTION TO REPLACE EXISTING VALVE.

ADD
2

1

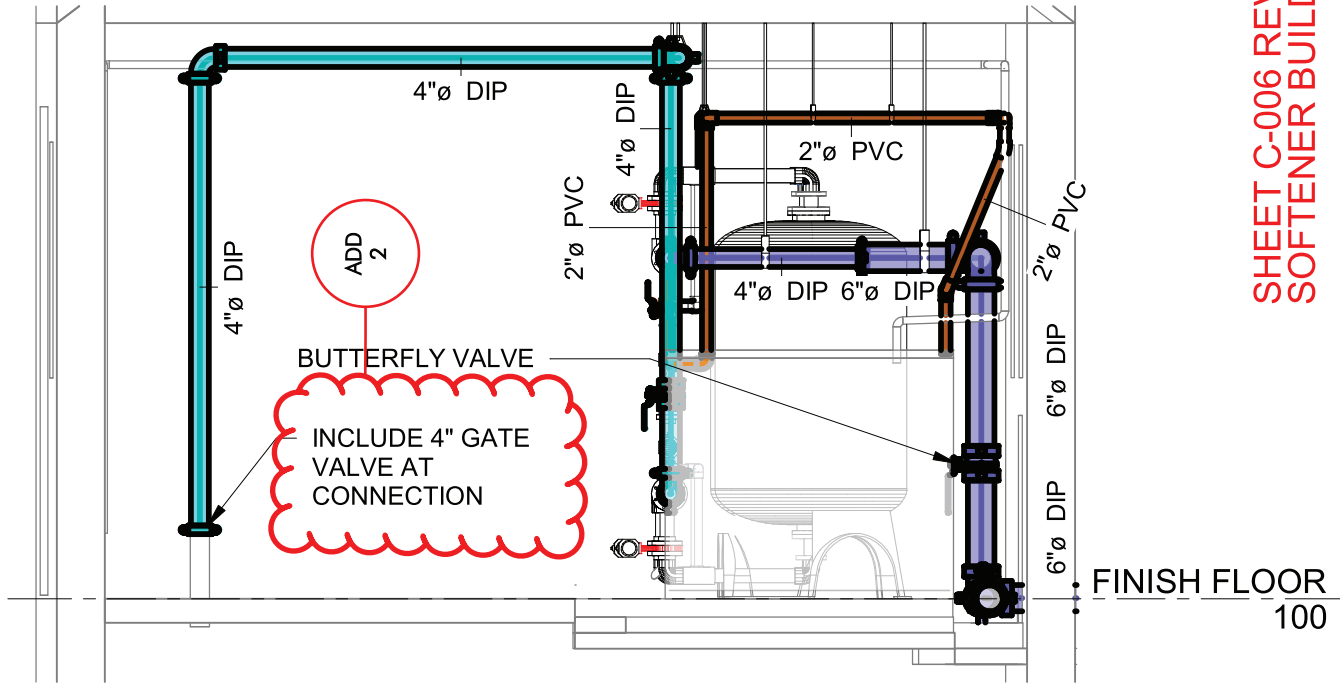
NW PROPOSED ELEVATION

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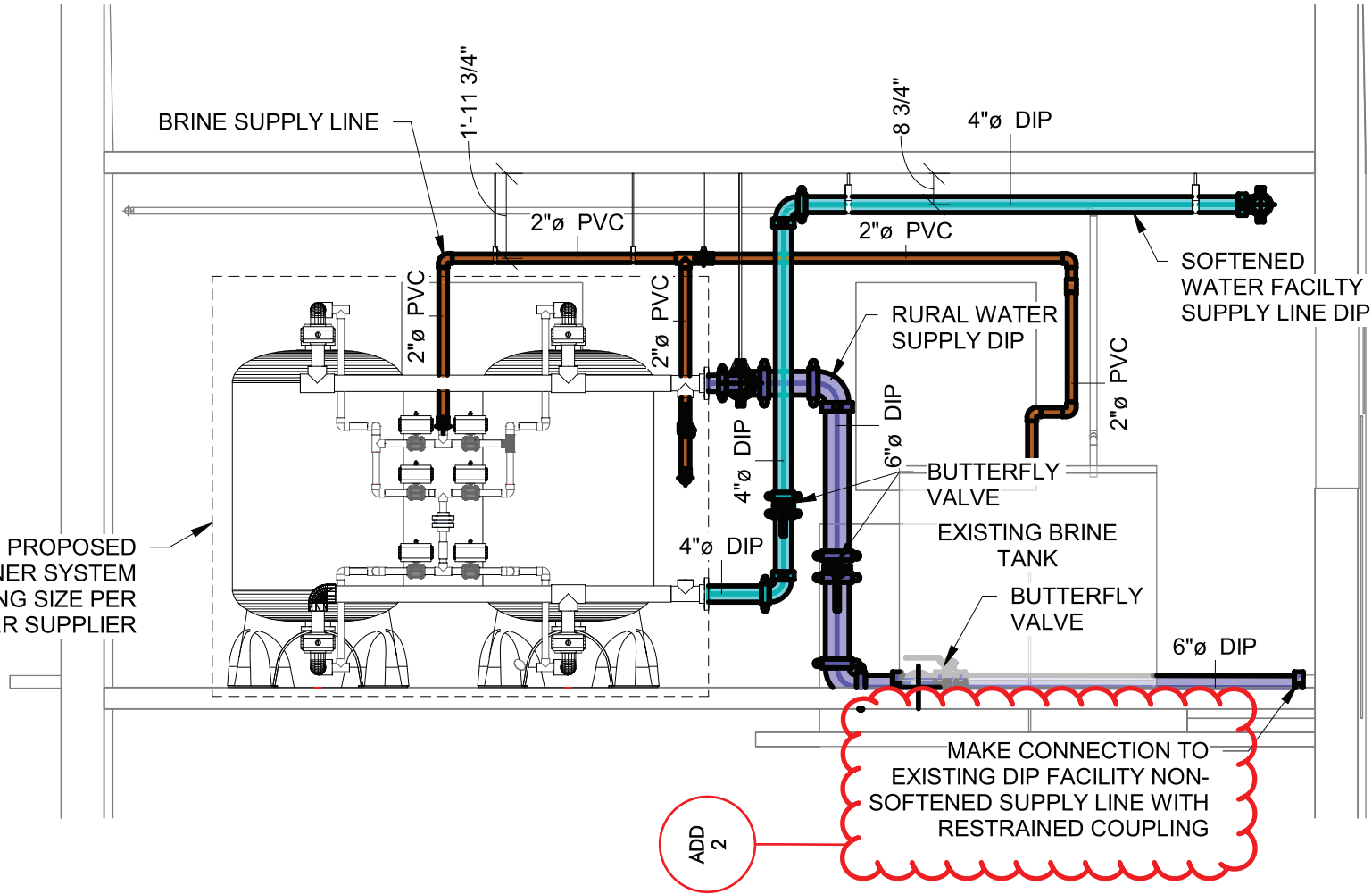
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SE PROPOSED ELEVATION

NOT TO SCALE



SHEET C-006 REVISIONS (ADDENDUM NO. 2)
SOFTENER BUILDING PROPOSED CONDITIONS



1

SW PROPOSED ELEVATION

NOT TO SCALE

SHEET C-006 REVISIONS
(ADDENDUM NO. 2)
SOFTENER BUILDING
PROPOSED CONDITIONS