March 21, 2025

Mr. Keith Amoroso
Chief Program Development
Rhode Island Department of Health
Center for Drinking Water Quality
3 Capitol Hill, Room 209
Providence, RI 02908

Re: **Smithfield Water Supply Board**
North Providence Pressure Control Project
Double Check Valve Assembly AIS Waiver Request
(Pare Project No. 03066.62)

Dear Mr. Amoroso:

Pare Corporation (Pare) has summarized the pertinent information required to request a waiver to the American Iron and Steel (AIS) provisions for the above referenced project.

WAIVER REQUEST

A detailed description of the requested information is provided as follows:

1) Description of the foreign and domestic construction materials

   i) The Contract specified the [redacted] *3-inch double check valve assembly manufactured by* [redacted] *or approved equivalent. This product is manufactured with foreign materials and does not meet AIS requirements.*

2) Unit of measure

   i) Each

3) Quantity

   i) 2

4) Price

   i) [redacted]

5) Time of delivery or availability

   i) Installation of vaults to commence week of March 24th. Will need to install this item by the end of April 2025.

6) Location of the construction project

   i) Forestwood Drive, North Providence, Rhode Island
   ii) Riverview Drive, North Providence, Rhode Island

7) Name and address of the proposed supplier

[redacted]

8) A detailed justification for the use of foreign construction materials

   a) The Contractor was not able to obtain AIS certification for the specified double check valve assembly. [redacted] *provided a statement as to why the specified double check valve assembly does not meet the AIS certification requirements and, to the best of their knowledge, none are offered by any of their competitors.*

   b) In a request to another supplier [redacted]*, they responded that they do not have any options that would have AIS certification and noted that their understanding is that* [redacted] *controls the market.*

   Based on information provided herein, there does not appear to be an equivalent double check valve available that would meet the AIS certification.

Please let me know if you have any questions or require additional information.

Sincerely,

Peter B. Georgetti, P.E.
Managing Engineer

PBG/MWS

Attachments
1. Shop Drawing Review – Double Check Valve Assembly
2. Statement from [redacted]
3. Correspondence from Contractor
4. Relevant Specification

cc: Mr. Gene Allen, Smithfield Water Supply Board

[redacted]

Town of Smithfield

Request for Proposals

RFP # 231005

North Providence Pressure Control Project

EXCERPT FOR DOUBLE CHECK VALVE

CONFORMED DOCUMENTS 03-12-24

PARE PROJECT NO. 03066.62

PROJECT MANUAL AND SPECIFICATIONS
FOR THE
TOWN OF SMITHFIELD/
SMITHFIELD WATER SUPPLY BOARD
NORTH PROVIDENCE PRESSURE CONTROL PROJECT

Prepared for:
Town of Smithfield (Town)/
Smithfield Water Supply Board (SWSB)
3 Spragueville Road
Smithfield, RI 02917

Prepared by:
Pare Corporation
8 Blackstone Valley Place
Lincoln, RI 02865

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ISSUED FOR BID

OCTOBER 2023

PARE CORPORATION

CONFORMED DOCUMENTS 03-12-24

PROJECT MANUAL

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CONFORMED DOCUMENTS 03-12-24

DIVISION 03 – CONCRETE

DIVISION 26 – ELECTRICAL

DIVISION 31 – EARTHWORK

DIVISION 32 – EXTERIOR IMPROVEMENTS

DIVISION 33 – UTILITIES

APPENDICES

10. Hydrants shall be post type.
11. Hydrants shall be so arranged that the direction of outlets may be turned 90 degrees without interference with the drip mechanism or obstructing the discharge from any outlet.
12. Hydrants shall be furnished with caps, double galvanized steel hose cap chain, galvanized steel pumper hose cap chain, a galvanized steel chain holder and any other hooks and/or appurtenances required for proper use.
13. All hydrants shall be equipped with a 6" gate valve in accordance with Section 2.4 above and be fully restrained as shown on the drawings. Joints shall be mechanically restrained.
14. Hydrants shall be installed with sufficient height that when installed a 15-inch hydrant wrench will not contact the ground when making a full 360-degree turn on any nozzle cap. The Contractor shall verify all hydrant bury depths prior to installation.

2.8 3 INCH PRESSURE RELIEF VALVES

A. The 3" pressure relief valve is actuated by line pressure through a pilot control system, opening to maintain steady line pressure but closing gradually to prevent surges. The valve operates automatically and the pressure settings are able to be changed easily.

B. The valve shall consist of a main valve assembly and a pilot control system, completely assembled and tested as a unit and ready for field installation. The main valve body shall be globe style of cast ductile iron conforming to ASTM A536 with integral flanges faced and drilled per ANSI B16.42 Class 150. The valve shall be full-ported with a flow area through the valve no less than the area of its nominal pipe size.

C. Provide a direct-acting, diaphragm-operated, spring-loaded bronze reducing pilot. Pilot spring shall be factory set at the desired reduced pressure, but easily field adjustable from near zero to 10% above the factory setting. Provide an adjustable closing speed control, y-strainer with stainless steel screen, pilot isolating valves and brass pilot piping. Pilot system shall be suitable for the working pressure.

D. All exposed interior ferrous surfaces of valve body and cover shall be painted with two (2) coats of NSF-61 approved two-part epoxy. All exposed exterior ferrous surfaces of valve body and cover shall be painted with one (1) coat of manufacturer's standard primer.

E. The pressure reducing valve shall be a [redacted], or approved equivalent.

2.9 3 INCH DOUBLE CHECK VALVE ASSEMBLY

A. The 3" double check valve assembly (DCVA) is installed to prevent the backflow of polluted waters into a potable water supply line.

B. The assembly shall consist of two positive seating check modules with captured springs and rubber seat discs. The check module seats and seat discs shall be replaceable. All internal components shall be serviceable through a single access cover secured with stainless steel bolts. The assembly shall also include two resilient seated isolation valves; four top mounted, resilient seated test cocks.

C. The double check valve assemblies shall be constructed using lead free cast copper silicon alloy. The assembly shall meet the requirements of ASSE Standard 1015 and AWWA Standard C510.

D. The valve body shall utilize a coating system with built in electrochemical corrosion inhibitor and microbial inhibitor.

E. The pressure reducing valve shall be a [redacted], or approved equivalent.

PART 3 EXECUTION

3.1 INSTALLATION

A. General:

1. All tapping sleeves, valves, and accessories shall be carefully inspected by the contractor for defects before installation and all defective, unsound, or damaged materials shall be rejected.
2. The Owner will make such additional inspections as deemed necessary and the Contractor shall furnish all necessary assistance for such inspection.
3. Proper implements, tools, and facilities satisfactory to the Owner shall be provided by the Contractor for the proper and satisfactory execution of the work.

B. Tapping sleeves, valves, couplings, and appurtenances shall be new and unused and shall be of the types and materials specified as indicated or as directed.

C. The interior of tapping sleeves, valves, and fittings shall be thoroughly cleaned of foreign matter before being lowered into the trench and shall be kept clean during laying operation.

D. Tapping sleeves, valves, and fittings shall be constructed in dry trenches and shall not be laid when the conditions of the trench or the weather are unsuitable for such work.

E. Tapping sleeves, valves, and couplings shall be laid to the line and grade in such a manner as to form a close concentric joint with the adjoining pipe and to prevent sudden offsets of the flow line.

F. At times when work is not in progress, open ends of tapping sleeves, valves, couplings, and fittings shall be securely closed so that no trench water, earth or other substances will enter.

G. Any tapping sleeves, valves, couplings, or fittings that have been disturbed after laying shall be taken up and re-laid.

H. All materials found to be defective during the progress of the work will be rejected by the Owner and the Contractor shall promptly remove such defective material from the site of the work and replace with new material at no additional expense to the Owner.