

General Waiver Request

1. Description of Material.
 - 18" Knife Gate Valves
2. Unit of measure.
 - Each
3. Quantity.
 - Two (2)

NOTE: Information in this waiver may have been redacted or removed due to issues of proprietary business information or incompatibility with Federal accessibility requirements. To request the information redacted for purposes of accessibility requirements, please email CWSRFWaiver@epa.gov.

4. Price.
 - [Redacted]
 - [Redacted]

5. Time of Delivery.
 - 60 weeks after approved shop drawings - AIS, Domestic.
 - 26 weeks after approved shop drawings - Non-AIS, Import.

6. Location of Construction Project.
 - Manhattan Water Resource Recovery Facility
 - Town of Manhattan
 - Manhattan, MT 59741

7. Name and Address of Proposed Supplier.
 - [Redacted]
 - [Redacted]
 - [Redacted]

8. Detailed justification for the use of foreign construction materials.

The material procurement time for an AIS knife gate valve is 60 weeks after approved shop drawings, exceeding the project completion period. The knife gates allow the outfall of the UV disinfectant water to be diverted to either the outfall or the lift station. The original AIS Knife gate valves are also too tall for the allocated space within the diversion vault. The non-AIS valves allow for an offset actuator to allow for a shorter overall height to fit within the diversion vault.

Availability Waiver Requests.

1. Supplier Information or pricing information.
 - See ([email attachment 1](#)) for correspondence.
 - Multiple phone conversations were had about procurement of AIS Knife gate valves

2. Description of the process for identifying suppliers and a list of suppliers.
 - [REDACTED]

3. Project Schedule.
 - Vales must arrive onsite by November 18, 2024, this will allow the project to have a minimum number of shutdowns of the UV disinfectant system and outfall. This allows for project phasing for the installation of bypass pumping, outfall piping, diversion structure vault, and knife gate valves. Construction started on April 15th, 2024, with final completion of June 9th, 2025.


4. Relevant excerpts from project plans, specifications showing quantity and quality of materials.
 - See the attached Specification section [40 27 20- Process Valves](#). Pages 6-7, Part 2.10 Knife Gate Valves.
 - See attached [plans](#) and [details](#) for the knife gate valves.

5. Waiver request includes statement from the prime contractor.
 - [REDACTED]

6. Has the State received other waiver requests for the materials described in this waiver request, for comparable projects?
 - We are unaware of any other waiver requests described above at this time.

3. Seats: Teflon.
4. Seals: Viton "O" rings.
5. Stem: Blow out proof.
6. Connector: True union.

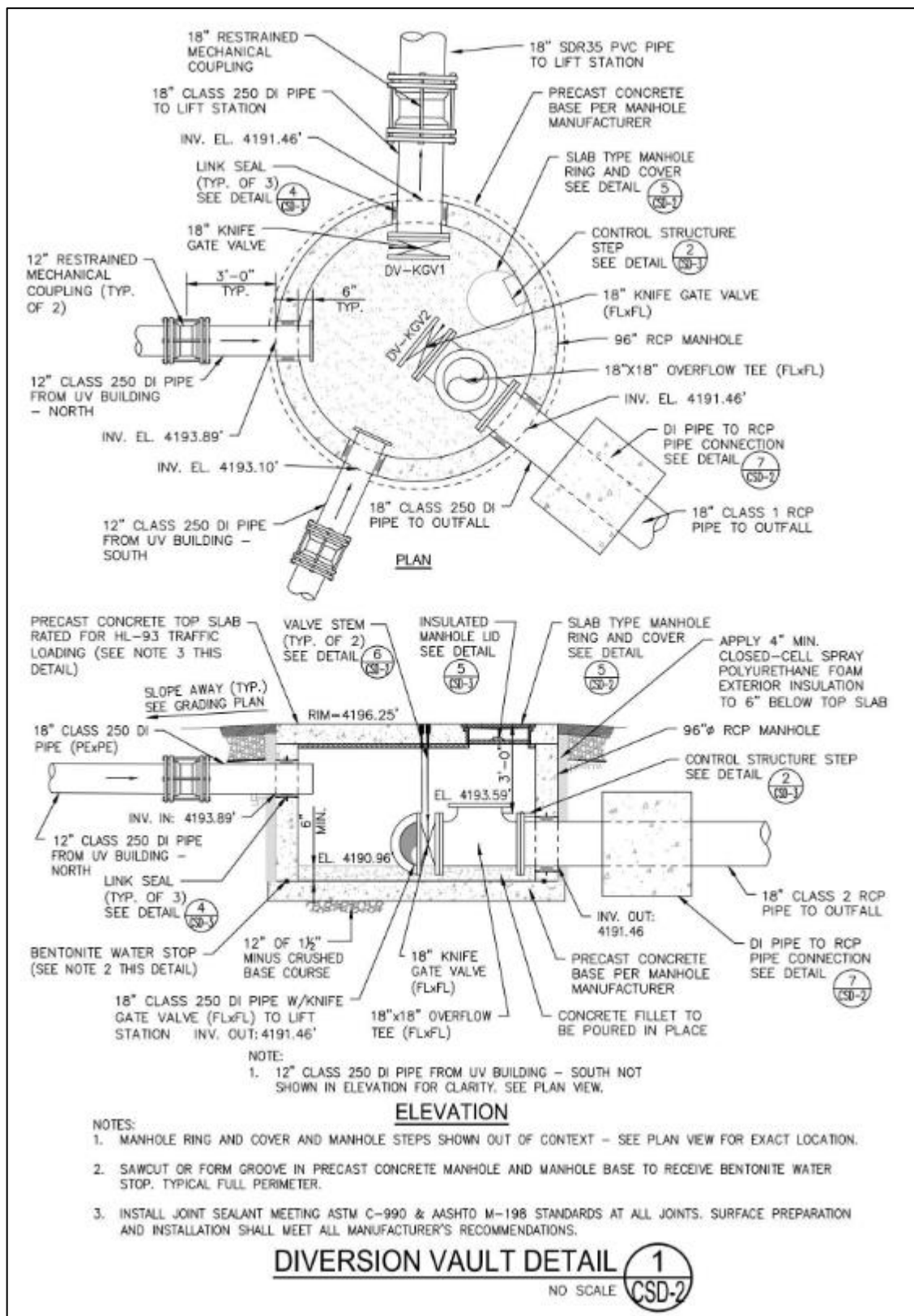
2.09 GATE VALVES

- A. 
- B. Gate valves 2-inches to 48-inches in diameter shall be resilient wedge type gate valves rated for 250 psi working pressure with all ferrous components ductile iron in accordance with ASTM A536. Gate valves 3-inches to 36-inches in diameter shall be in full compliance with the requirements of AWWA C515.
- C. Manufacturer shall provide an affidavit stating that the valve and materials conform to the applicable AWWA requirement and test specified under the respective standard have been performed and met. Valves shall be NSF 61 certified.
- D. The wedge shall be cast or ductile iron encapsulated with polyurethane rubber. The polyurethane shall be permanently bonded to the wedge.
- E. The interior of the body and bonnet shall be coated with a fused epoxy coating meeting the requirements of AWWA C550.
- F. Valves shall be non-rising stem with a 2-inch square operating nut, unless noted otherwise. All valves shall open right unless noted otherwise.
- G. Stems shall be cast bronze with integral thrust collars. The stuffing box shall be the P-ring seal type with a triple O-ring seal. The rings shall be replaceable with the valve fully open at full rated working pressure.
- H. There shall be two (2) low torque thrust washers or bearings located above and below the integral stem collar. The stem nut shall be separate and shall be of solid bronze or copper alloy.
- I. Markings shall be cast on the bonnet or body of each valve and shall show the manufacturer's name, year valve casting was made, size of valve, the letters and numbers "C515", and the designated working water pressure.
- J. Valves shall be equipped with indicators to show the position of the gate in relation to the water way.
- K. Valves shall be suitable for exposed service. All nuts, bolts, and hardware shall be stainless steel.
1. Provide geared operators, unless noted otherwise. Gears shall be steel, housed in a heavy-duty cast iron grease case.

2.10 KNIFE GATE VALVES

- A. Bonnetless wafer body type, outside stem and yoke, rated for 150 psi, ASME B16.1 flanged ends, self-cleaning, non-clogging, with round port, resilient neoprene seat, drip tight shutoff.
- B. Wetted metal parts and stem, Type 316 stainless steel, yoke sleeve bronze, gate finish ground both sides with a sharp knife edge.
- C. Packing system leak-tight seal around the gate, valve superstructure and yoke designed for full peripheral access to gland bolts when valve is equipped with manual or power actuator.
- D. In compliance with MSS SP-81

Knife Gate Valve Plan Details



(TD&H,AE2S, 2023)