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SECTION _____
STAINLESS STEEL SHEAR GATE

PART 1 GENERAL

1.01 SCOPE OF WORK

- A. The CONTRACTOR shall furnish all labor, materials, equipment and incidentals required to install and ready for operation shear gates and appurtenances as shown on the Contract Drawings and as specified herein.

1.02 SUBMITTALS

- A. Provide the following information to confirm compliance with the specification in addition to the submittal requirements specified in Section _____.
 - 1. Complete description of all materials including the material thickness.
 - 2. Installation drawings showing all details of construction, details required for installation, dimensions and anchor bolt locations.
 - 3. The location of the company headquarters and the location of the principle manufacturing facility. Provide the name of the company that manufactures the equipment if the supplier utilizes an outside source.

1.03 QUALITY ASSURANCE

- A. Qualifications
 - 1. All of the equipment specified under this Section shall be furnished by a single manufacturer with a minimum of 10 years experience designing and manufacturing water control gates.
 - 2. The specification is based on the Series 703 Shear Gate as manufactured by Whipps, Inc. of Athol, Massachusetts.

PART 2 EQUIPMENT

2.01 GENERAL

- A. Shear gates shall be as specified herein and have the characteristics and dimensions shown on the Contract Drawings.
- B. The shear gate shall utilize a resilient seal mounted on the frame to seal between the cover and the frame.
- C. All welds shall be performed by welders with AWS D1.6 certification.
- D. Finish: Mill finish on stainless steel. Welds shall be sandblasted to remove weld burn and scale.
- E. Materials:

Components

Frame and Cover
 Lifting handle
 Anchor Studs, Fasteners and Nuts
 Seal
 Bushings

Materials

Stainless Steel, Type 316L, ASTM A240
 Stainless Steel, Type 316, ASTM A276
 Stainless Steel, Type 316, ASTM A276
 Urethane, Neoprene or EPDM
 UHWM or Bronze ASTM B584

2.02 FRAME

- A. The shear gate frame shall be constructed of stainless steel structural members with a minimum thickness of 1/4-inch.
 - 1. The frame shall be suitable for mounting to a concrete wall or standard pipe flange as shown on the Contract Drawings.
 - 2. The frame shall be outfitted with a resilient seal to restrict leakage when the cover is in the closed position.

2.03 COVER

- A. The shear gate cover shall be constructed of stainless steel with a minimum thickness of 1/4-inch.
 - 1. The cover shall have a hinged connection to the frame.
 - 2. The hinge shall consist of UHMW or bronze bushings and stainless steel hardware.
 - 3. A stainless steel lifting handle shall be mounted to the cover on the opposite side from the hinge.
 - 4. The lifting handle shall be constructed of pipe.

2.04 ANCHOR BOLTS

- A. Anchor bolts shall be provided by the gate manufacturer for mounting the shear gate frame (when applicable) and appurtenances.
 - 1. Quantity and location shall be determined by the shear gate manufacturer.
 - 2. If epoxy type anchor bolts are provided, the gate manufacturer shall provide the studs and nuts.
 - 3. Anchor bolts shall have a minimum diameter of 1/2-inch.

PART 3 EXECUTION

3.01 INSTALLATION

- A. Installation of the gates and appurtenances shall be done in a workmanlike manner. It shall be the responsibility of the CONTRACTOR to handle, store and install the equipment specified in this Section in strict accordance with the manufacturer's recommendations.
- B. The CONTRACTOR shall review the installation drawings and installation instruction prior to installing the gates.
- C. The gate assemblies shall be installed in a true vertical plane, square and plumb.
- D. The CONTRACTOR shall fill the void in between the gate frame and the floor as shown on the installation drawing and in accordance with the manufacturer's recommendations.
- E. The CONTRACTOR shall add a mastic gasket between the gate frame and pipe flange (when applicable) in accordance with the manufacturer's recommendations.

3.02 FIELD TESTING

- A. After installation, all gates shall be field tested in the presence of the ENGINEER and OWNER to ensure that all items of equipment are in full compliance with this Section. Each gate shall be cycled to confirm that they operate without binding, scraping, or distorting.

END OF SECTION