**SECTION\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Stainless Steel Fabricated Flap Gate**

PART 1 GENERAL

* 1. SCOPE OF WORK
1. The CONTRACTOR shall furnish all labor, materials, equipment and incidentals required

to install and ready for operation the flap gate as shown on the Contract Drawings and as specified herein.

* 1. SUBMITTALS
1. 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 of all structural components of the frame, cover, lugs, hinge links, bushings and washers.
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.
	1. QUALITY ASSURANCE
4. Qualifications
5. All of the equipment specified under this Section shall be furnished by a single manufacturer with a minimum of 20 years’ experience designing and manufacturing flap gates. The manufacturer shall have manufactured flap gates for a minimum of 100 projects.
6. The specification is based on the stainless steel flap gate as manufactured by Waterman Valve, of Exeter, California.

PART 2 EQUIPMENT

2.01 GENERAL

1. The flap gate shall be designed to allow free outflow and prevent backflow for a maximum seating head of 30 feet or as specified by the owner. Gates shall be Waterman Model SSF-43 or engineer approved equal 14 days prior to bid opening.

1. Materials:

Components Materials

Frame and cover Stainless Steel ASTM A240, A 276, AISI Type 304, 304L, 316, 316L.

Pivot Pin Stainless Steel ASTM A 276, AISI Type 304, 304L, 316, 316L.

Hinge Link Stainless Steel ASTM A 240, AISI Type 304, 304L, 316, 316L.

Bushings and Washers Commercial Bronze, non-metallic

 UHMWPE ASTM-D4020, D-6712

Anchor studs, hardware Stainless steel 18-8, 304 or 316

Seals Neoprene ASTM D2000 Grade 2

 EPDM ASTM D2000

2.02 CONSTRUCTION

1. Frame shall be fabricated stainless steel of flatback design, with seating surface inclined from vertical at a minimum of 2.5 degrees to assure positive closure. For flatback gates mounted to thimbles or flanges, or concrete wall, the gate flange shall be machined and drilled to match.
2. Cover shall be fabricated stainless steel with reinforcing ribs, designed to withstand the seating head specified. A lifting eye shall be provided for manual lifting of the cover.
3. Seating surfaces for frame and cover shall be neoprene or EPDM “J” seal with stainless steel retainer.
4. Gate shall be provided with an adjustable, double pivoted hinge linkage so designed to permit complete seating, full opening and with stops or other arrangement to prevent the cover from rotating sufficiently to become wedged in the open position. The hinge links shall be bronzed bushed stainless steel or UHMWPE bushed stainless steel. All assembly hardware shall be type 18-8 stainless steel, 316, 304 as specified.

 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 instructions prior to

 Installing the gates.

 C. The CONTRACTOR shall fill any void between the guide frames and the structure with non-

 shrink grout as shown on the installation drawing and in accordance with the grout

 manufacturer’s recommendations.

 3.02 FIELD TESTING

 A. After installation, all gates will be field tested in the presence of the CONTRACTOR and THE

 OWNER to ensure that all items of equipment are in full compliance with this Section.

END OF SECTION

NOTHING FOLLOWS