

SECTION 151060
FLAP GATE (DRAINAGE) (S-76A)

1. Description

This specification shall govern all materials and work required for furnishing and installing flap gates required to complete project.

2. Materials

Frame Ring and Slide Cover

The frame ring and slide cover shall be cast iron with machined seating faces. A cast iron flap (cover) shall be domed construction and have machined seating faces, or have a resilient rubber seal permanently bonded in a groove and be flush with the surrounding cast iron seat face. The flap cover shall be attached to the slide cover in such a manner as to allow full opening of the cover and prevent jamming of the cover in the open waterway. Flap seat shall be inclined from the vertical a minimum of 2 2E. Flap cover hinge linkage shall be galvanized steel structural. Pivot points in flap cover shall be bronze bushed. Hinge bolts shall be stainless steel. Assembly hardware and structural steel shall be galvanized. Flap gates shall be Waterman Drainage, Model FC-10 or approved equal.

Frame Ring, Flap Cover

Cast Iron - ASTM A-126, Class B

Structural Steel - ASTM A-36 - Galvanized per ASTM A-123

Assembly Hardware and Fasteners

Steel - ASTM A-307 - Galvanized per ASTM A-153 & ASTM A-123

Paint

Manufacturer's Standard

3. Construction

The frame shall be secured to the concrete with four (4) 3/4" x 6" Type 304 stainless steel bolts and nuts.

A 3" Schedule 40 Galvanized Steel Pipe & Assembly shall be provided and installed for each gate as required to secure the gate in a normally open position. The 3" pipe shall be grouted into the 4" sleeve with a lean sand cement grout. The galvanized steel hooking device shall be secured to the gate. The assembly shall be adjusted as necessary.

4. Measurement & Payment

Unless indicated otherwise in the Proposal, Flap Gates shall not be measured for pay, but shall be considered subsidiary to other work.