

## **SECTION 1043 -- FLAP GATES**

### **1043.01 -- Description**

Flap gates shall be a double-hinged type furnished in accordance with the dimensions shown in the plans. The gates shall be on the NDR Approved Products List and shall be furnished with seats and anchor devices or be factory mounted on the corrugated metal pipe.

### **1043.02 -- Material Characteristics**

1. The gates shall consist of a flap and a seat with a circular opening of the size shown in the plans. The flaps and seats shall be designed to withstand the maximum hydraulic head above the centerline of the gate.
2. The gates shall be designed to open and close under a differential head of 60 mm and shall provide a watertight seat against backflow.
3. The cast iron gates shall be manufactured in accordance with the requirements of ASTM A 126 Class B.
4. Any devices necessary to fasten the gate to the culvert pipe must be approved by the Engineer.

### **1043.03 -- Acceptance Requirements**

Flap gates approved for use are shown on the NDR Approved Products List.