
Special Specification 4011

Deck Drains



1. DESCRIPTION

Furnish and install a deck drain system for the railroad underpass structure in accordance with details shown on the plans and the requirements of this specification.

2. MATERIALS

Use the base metal and zinc coating conforming to the requirements of AASHTO Designation M 218 and fabricate the one-half round pipe conforming to AASHTO Designation M 36.

Unless otherwise shown on the plans, provide deck drains consisting of the following: One-half round perforated corrugated galvanized metal pipe (8 in. nominal diameter) placed in a perforated galvanized metal bottom pan 9-1/8 in. wide and 1 in. deep. Fabricate the one-half round pipe and the pan of 12 gage metal with a 14 gage minimum end plate tack welded to the ends. Fit the downstream end of the pan with a stub to fit the outlet pipe which carries the water from the structure.

Provide perforations for the one-half round pipe consisting of a row of approximately 3/8 in. by 9/16 in. slots along the bottom on each side and a row of approximately 3/8 in. x 3/4 in. slots about 1 in. to 2 in. above the bottom on each side, all at approximately 2-2/3 in. spacing. Ensure the bottom pan is also perforated with approximately 3/8 in. x 3/4 in. slots along each side at the bottom of the turned up edges at about 2-2/3 in. spacing.

3. CONSTRUCTION

Construct deck drains on the bridge deck as shown on the plans. During the entire construction period, keep the ends capped or plugged.

4. MEASUREMENT

Work and accepted materials of "Deck Drains" will be measured by the foot. Measurement will be made between the ends and along the axis of the pipe.

5. PAYMENT

Work performed and materials furnished as prescribed by this specification measured as provided under "Measurement" will be paid for at the unit price bid for "Deck Drain" of the type and size specified, which price is full compensation for furnishing and placing materials, for plugs, outlet stubs, screens, and for labor, tools, equipment, and incidentals.