

BOLT HOLE DETAIL

Drill and tap M12-2x19 DP for 12 mm \$\phi\$ bolts. (4 locations)

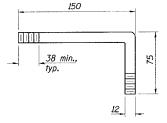
235

197

191

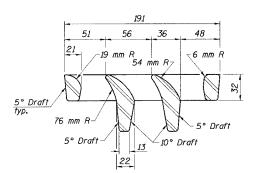
19

SECTION B-B



ANCHOR STUD DETAIL





VANE GRATE DETAIL

- 1. All cast iron parts shall be gray iron conforming to the requirements of AASHTO M 105, Class 35B.
- Bolts, anchor studs, washers and nuts shall conform to the requirements of ASTM A 307 and shall be galvanized according to AASHTO M 232M.
- The grate, frame and downspout shall be galvanized according to AASHTO M 111 and ASTM A 385. Downspouts located on the exterior side of a painted steel fascia beam shall be painted with the finish coat specified for the exterior side of the fascia beam.
- 4. As an alternate, bolts, anchor studs, washers and nuts may be stainless steel according to Article 1006.29(d) of the Standard Specifications.
 5. Structural steel weldments of equal sections and of the same
- configuration may be substituted for cast iron. Fillet or full penetration welds shall be used for the weldments. Details shall
- be submitted to the Engineer for approval.

 6. The Contractor shall take appropriate measures to assure that Protective Coat is not applied to the scupper.
- 7. Cost of the Grate, Frame, Downspout, Anchor Studs, Bolts, Washers and Nuts including complete installation of the scupper shall be paid for at the contract unit price each for Drainage Scupper, DS-11.
- 8. All dimensions are in millimeters (mm) except as noted.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Drainage Scuppers, DS-11	Each	5

ILLINOIS DEPARTMENT OF TRANSPORTATION I-94/IL 394 SOUTH BOUND

DRAINAGE SCUPPER DS-11

WB I-80/94 TO SB IL 394 - RAMP G FAI 80/94 - FAP 332 SECTION 0203.1B COOK COUNTY STA. 120+796.063 STRUCTURE NO. 016-2804

DATE 3/23/05

DESIGNED CHECKED **GPM**

SCALE ---

HNTB