

BOLT HOLE DETAIL

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 232.

Downspouts located on the exterior side of a fascia beam shall be painted under a separate painting contract.

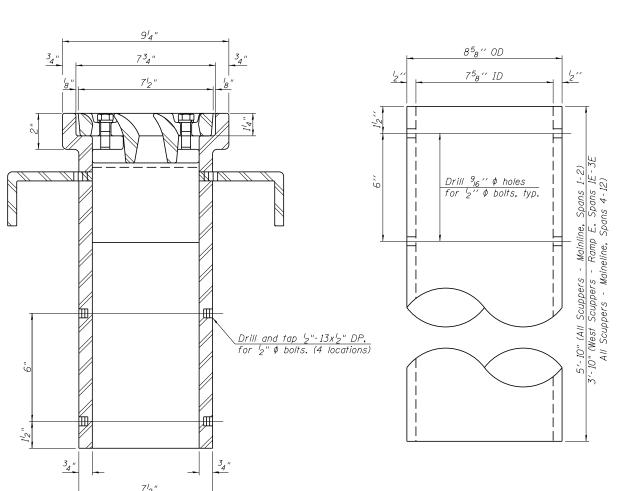
As an alternate, bolts, anchor studs, washers and nuts may be stainless steel according to Article 1006.29(d) of the Standard Specifications.

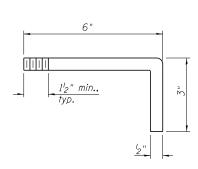
Structural steel weldments of equal sections and of the same configuration may be substituted for the cast iron scupper frame. Fillet or full penetration welds shall be used for the weldments. Details shall be submitted to the Engineer for approval. Structural steel weldments shall not be substituted for the cast iron scupper grate. Structural steel frames and downspouts shall be galvanized according to AASHTO M111.

The Contractor shall take appropriate measures to assure that Protective Coat is not applied to the scupper.

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.

Alternate fiberglass downspout conforming to ASTM D 2996 with a short-time rupture strength hoop tensile stress of 30,000 psi min, may be used in lieu of the cast iron or steel equivalent.





## SECTION A-A

See sheet SD45 for scupper location relative to parapet.

6"

7½"

benescl

162457\_60J16\_047\_scupper\_DS-11.dgn

DS-11

Alfred Benesch & Company

7 - 1 - 10

95<sub>8"</sub>

Drill and tap scupper

steel hexagon head bolts

for 4 ½" \$\phi\$ stainless

with lock washers

205 North Michigan Avenue, Suite 2400 Chlcago, Illinois 60601 312-565-0450 Job No. 10093		
USER NAME = ksnider	DESIGNED - FSM	REV
	CHECKED BAM	DEV

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SECTION B-B

DRAINAGE SCUPPER, DS-11 STRUCTURE NO. 016-2457				
SHEET NO. SD47 OF SD83 S	SHEETS			

**DOWNSPOUT** 

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	2013-038B-R	соок	821	422
		CONTRACT	NO. 60	)J16
	TILINOIS EED A	ID PROJECT		

UNIT QUANTIT

BILL OF MATERIAL

ainaae Scupper, DS-11

VISED REVISED PLOT SCALE = DRAWN - FSM REVISED PLOT DATE = 12/20/2013 CHECKED - RMM REVISED

typ.

Drill and tap  $\frac{1}{2}$ "-13x $\frac{3}{4}$ " DP.

for 1/2" \$ Anchor Studs

4 locations

 $B \blacktriangleleft$ 

<u>PLAN</u>

1'-5<sup>l</sup>8"

1'-44" 1'-4"

1'-2"

1'-0"