6" I.D. '8" R typ. Ø (A) B**∢**₁ 8-<sup>9</sup>16" Ø holes on an 6 0 8<sup>3</sup>4" ¢ bolt circle Α **A** I (1)  $(\uparrow)$ σ BOLT HOLE DETAIL \_Drill and tap ½"-13x<sup>3</sup>4" DP. for ½" ∮ Anchor Studs 8 locations ø 1<u>\_\_\_\_</u> Drill and tap scupper for 4\_ l<sub>2</sub>" φ stainless steel hexagon B◀┘ head bolts with lock washers 10" O.D. 2" 6" I.D. . 2" PLAN 5°<u>Draft</u> typ. 6" I.D. - 10' 7" O.D. Drill and tap 8 holes for <sup>1</sup>2"-13 bolts on an 8<sup>3</sup>4" Ø bolt circle, (2 blind holes are 1<sup>1</sup>4" deep, 6 thru holes) DOWNSPOUT G VIEW C-C 2'-0" 1'-11'8" 1-10% <sup>9</sup>32"-. 9<sub>32</sub>" 1-8% 94 14"-· 1/2 734" 1'-55g" 716" R 7 σ Ш n Û an. DA A ØR T С С 6" ~ Æ 4 1'-3%6" 10" 2'-1916' SECTION B-B SECTION A-A 01/1201-1300/ See Sht. S39 for scupper location relative to parapet. BA DESIGNED IDOT DATE: 4192 FILENAME: CHECKED CSD DRAWN CLK CHECKED JPD

1'-8%"

101

os/drai/a-du

dis.

-9

2001.1240

10" O.D.

| <br>ROUTE NO,         | SECTION | COUNTY .  |                         | TOTAL<br>SHEETS | SHEET<br>NO. |
|-----------------------|---------|-----------|-------------------------|-----------------|--------------|
| F.A.I. 70             | *       | ST. CLAIR |                         | 111             | 1Ø7          |
| FER. ROAD DIST. NO. 7 |         | ILLINOIS  | FED. AID PROJECT- 1M-70 |                 |              |
| * 82-3HVE             | 3-3R-3  |           | SHEET                   | S-40 0          | S-44         |

CONTRACT NO. 76305



## ANCHOR STUD DETAIL



Notes: 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.

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. 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 cast iron. Fillet or full penetration welds shall be used for the weldments. Details shall be submitted to the Engineer for approval.

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-12.

|           |     | DRAINAGE SCUPPER - DS-12  |  |  |  |
|-----------|-----|---|--|--|--|
| REVISIO   | DNS | STATE OF ILLINOIS   |  |  |  |
| NAME DATE |     | DEPARTMENT OF TRANSPORTATION<br>REHABILITATION AND RETROFIT REPAIRS |  |  |  |
|           |     | FAI ROUTE 70  |  |  |  |
|           |     | POPLAR STREET BRIDGE APPROACHES                                     |  |  |  |
|           |     | ST. CLAIR COUNTY  |  |  |  |
|           |     | STRUCTURE NO. 082-0142 (RAMP S)                                     |  |  |  |
|           |     | SCALE:  |  |  |  |
|           |     | DATE: 02/28/2006  |  |  |  |