F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
59	*	WILL	608	356

STA.   TO STA.

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

* (2G, 26HB-1 & 114) R-2
CONTRACT NO. 60363

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.

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 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-33.

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.

PLAN

VIEW B-B

Drill and tap 8 holes for $\frac{3}{4}"$-10 UNC bolts on $8\frac{3}{4}"$ diameter bolt circle

$1\frac{1}{2}"\phi$ Recessed $\frac{1}{2}" + \frac{1}{8}"$ Draft 4 places

SECTION A-A

See sheet S-8 for scupper location relative to parapet.

Top of Deck

SECTION C-C

DOWNSPOUT

8-$\frac{9}{16}"\phi$ holes on an $8\frac{3}{4}"\phi$ bolt circle

6'-0" min.

BOLT HOLE DETAIL

FIRST VANE DETAIL

SECOND VANE DETAIL

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Drainage Scupper, DS-33	Each	2

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.P. ROUTE 338 (ILLINOIS ROUTE 59)
IL ROUTE 59 OVER F.A.I. 55 (I-55)
SECTION (2G, 26HB-1 & 114) R-2
STRUCTURE NUMBER 099-4642
STATION 8021+17.13, WILL COUNTY

DRAINAGE SCUPPER

DRAWN BY: TMH
CHECKED BY: MDB

DATE: 03/14/08

TENG

TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
205 N. MICHIGAN AVE. CHICAGO, IL 60601
TELEPHONE: 312/616-0000

DS-33

11-1-06