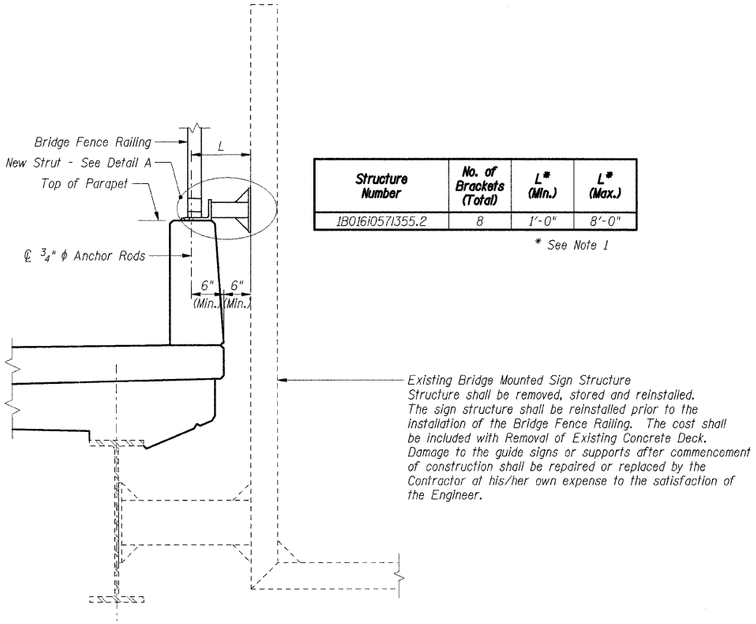
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	2021.1B-R	COOK	101	079
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

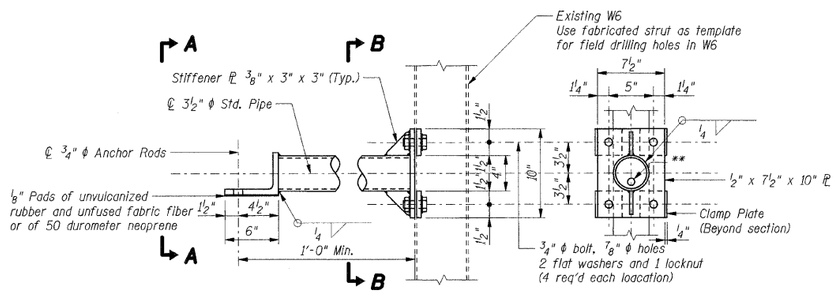
CONTRACT NO. 62532



Structure Number	No. of Brackets (Total)	L* (Min.)	L* (Max.)
1B01610571355.2	8	1'-0"	8'-0"

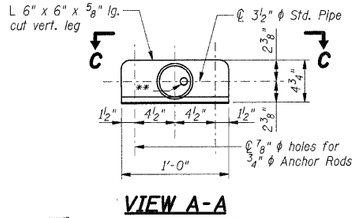
* See Note 1

ELEVATION



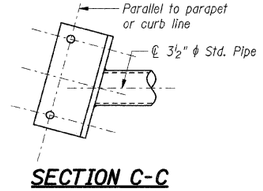
DETAIL A

SECTION B-B



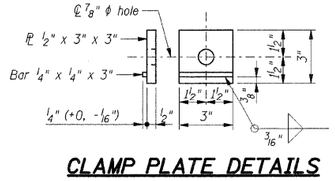
VIEW A-A

**13/16" holes for galvanizing. After galvanizing, install 7/8" ϕ A307 hot-dip galvnized bolt to close hole in angle. (No bolt required in 1/2" plate.)



SECTION C-C

Skewed connection detail for 3 1/2" pipe to parapet.



CLAMP PLATE DETAILS

GENERAL NOTES

MINIMUM CLEARANCE: 3" greater than bridge members at all locations. (All Obstructions)

WELDING: All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 Structural Welding Code (Steel) and the Standard Specificiations.

MATERIALS: All Structural Steel Pipe shall be ASTM A53 Grade B with a minimum yield of 35,000 p.s.i., or A500 Grade B or C with a minimum yield of 46,000 p.s.i. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53.
All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 50

HIGH STRENGTH BOLTS: All bolts, washers, nuts and locknuts shall satisfy the requirements of ASTM designation A307 unless noted as "H.S." which shall require AASHTO M164 (A325), ASTM A449, or approved alternate. All fasteners shall be hot dip galvanized per AASHTO M232 unless otherwise specified.

GALVANIZING: All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111. Painting is not permitted.

ANCHOR RODS: All-threaded rod conforming to ASTM A307, 3/4" ϕ x 12" long, each with one plate washer and locknut and be hot dip galvanized per AASHTO M232. They shall be either cast into the concrete or epoxy grouted in accordance with Section 584 of the Standard Specifications. Minimum embedment in concrete shall be 9".

Notes:

1. Contractor shall field check all pertinent existing bridge dimensions shown on plans before submitting shop drawings.
2. The Contractor must install upper brackets prior to Bridge Fence Railing installation.
3. Quantity of structural steel to be used in the modifications to the existing sign structure is included in the quantity for the pay item Furnishing and Erecting Structural Steel.

SHT. S-015

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. ROUTE 57 (INTERSTATE 57)
111TH STREET BRIDGE DECK REPLACEMENT
111th STREET OVER I-57
SN 016-0989 STA. 556+99.89
COOK COUNTY

SIGN STRUCTURE DETAILS

DRAWN BY: TMH
DATE: 01/16/09 CHECKED BY: JLR

TENG

TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
205 N. MICHIGAN AVE., CHICAGO, IL 60601
TELEPHONE 312.616.0000

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11-16-2009, 14:52:41 MITCHJL
pen tables: N/A
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