



MINIMUM CLEARANCE: 3" greater than bridge members at all locations. (All Obstructions)
All welds to be continuous unless otherwise shown. All welding to be done in

WELDING:

accordance with current AWS DL1 Structural Welding Code (Steel) and the Standard Specificiations.

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 MI64 (A325),

ASTM A449, or approved alternate. All fasteners shall be hot dip galvanized per AASHTO M232 unless otherwise specified.

GALVANIZING:

MATERIALS:

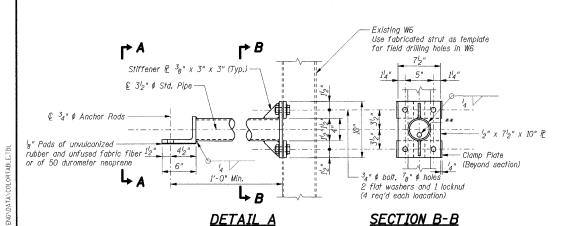
ANCHOR RODS:

M232 Unless otherwise specified.

All Steel Grafting, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO MIII. Painting is not permitted.

All-threaded rod conforming to ASTM A307, 3/4 & 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 Constitution. While they are before the section 584 of the Standard

Specifications. Minimum embedment in concrete shall be 9".



No. of Brackets (Total)

the Engineer.

ELEVATION

(Min.)

Existing Bridge Mounted Sign Structure

Structure shall be removed, stored and reinstalled. The sign structure shall be reinstalled prior to the

installation of the Bridge Fence Railing. The cost shall be included with Removal of Existing Concrete Deck.

of construction shall be repaired or replaced by the

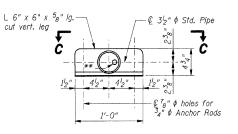
Damage to the guide signs or supports after commencement

Contractor at his/her own expense to the satisfaction of

* See Note 1

(Max.)

Structure Number



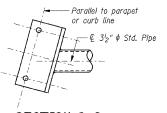
Bridge Fence Railing New Strut - See Detail A

Top of Parapet -

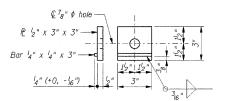
€ 34" Ø Anchor Rods -

2 2 2 2 2 2 2 3

VIEW A-A ** 1 ₁₆" holes for galvanizing. After galvanizing, install 7 ₈" 9 A 307 hot-dip galvnized bolt to close hole in angle. (No bolt required in 1 ₂" plate.)



SECTION C-C Skewed connection detail for 312" pipe to parapet.



CLAMP PLATE DETAILS

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

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

DATE: 01/16/09

DRAWN BY: TMH CHECKED BY: JLR

TENG