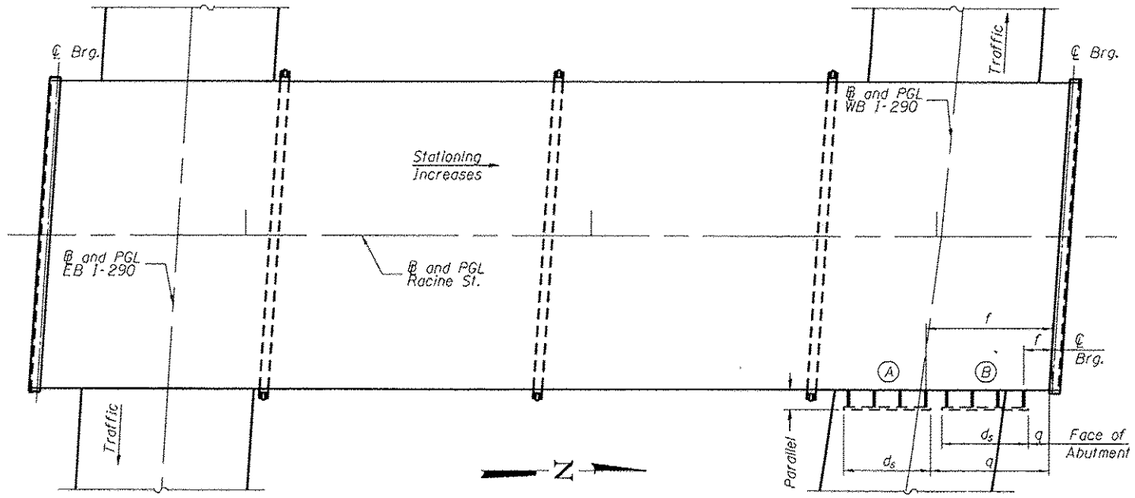

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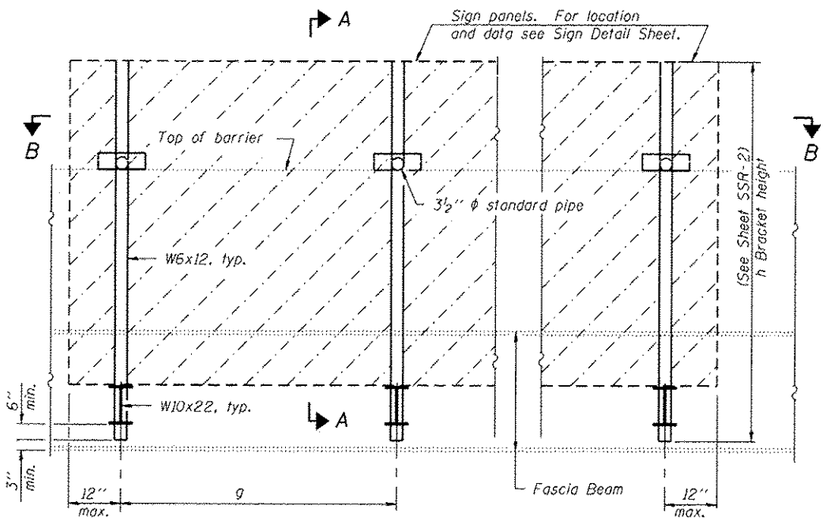
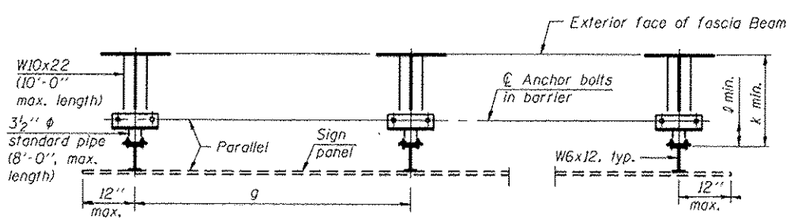


TYPICAL FRONT ELEVATION



SECTION B-B

NOTES:

1. "a" and "f" are measured from ℄ bearing along ℄ of fascia beam/girder to center of bracket.
2. "p" and "q" are measured from front face of abutment along ℄ of fascia beam/girder to edge of sign.
3. c_s & d_s = sign width
4. For Section A-A, see sheet SSR-2.
5. c_s and d_s are pay item limits for Overhead Sign Structure-Bridge Mounted.

GENERAL NOTES

SPECIFICATIONS:

DESIGN: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. ("AASHTO Specifications")

CONSTRUCTION: Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Special Provisions. ("Standard Specifications")

LOADING: 90 M.P.H. WIND VELOCITY

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. 36, Gr. 50 (M183, M223 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 shall conform to ASTM F1554 Grade 105, ¾" 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".

INDEX OF SHEETS

SSR-1 Bridge Mount Sign Structures General Plan and Elevation
SSR-2 Bridge Mount Sign Structures and Connection Details
SSR-3 Bridge Mount Sign Structures Connection Details

Structure Number	WB I-290 Station	WB I-290 Offset	Bridge Structure Number	Contract Route Designation	a	c_s	d_s	f	g	No. of Brackets (Total)	p	q
1B0161290L029.3A	5262+87.63	7.36LT	016-2115	WB I-290	-	-	15'-6"	37'-4¼"	4'-6"	4	-	35'-4¼"
1B0161290L029.3B	5262+91.17	19.55RT	016-2115	WB I-290	-	-	17'-0"	9'-5½"	5'-0"	4	-	7'-5½"

Dimensions f & g may vary as approved by the Engineer, see Specifications.

TOTAL BILL OF MATERIAL

OVERHEAD SIGN STRUCTURE-BRIDGE MOUNTED	Foot	33

STATE OF ILLINOIS
MOUSSA A. ISSA
081-005738
CHICAGO, ILLINOIS
LICENSED STRUCTURAL ENGINEER

Signed Mousa A-Issa
Dr. Mousso A. Isso, S.E. Il. Lic. No. 081-005738
Expires 11-30-2014
Date 07/19/13

HBM ENGINEERING GROUP, LLC
CONSULTING & DESIGN
INSPECTION & RATING
RESEARCH & TESTING
4415 WEST HARRISON ST.
SUITE 231
HILLSIDE, IL 60162
PHONE: (708) 236-0900
FAX: (708) 236-0901

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		PLOT DATE = 7/22/2013	DATE - 6/17/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE MOUNT SIGN STRUCTURES GENERAL PLAN AND ELEVATION
EXISTING STRUCTURE NO. 016-2115

SCALE: | SHEET SSR-1 OF 3 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-007R	COOK	317	119
		CONTRACT NO. 60W25		
		ILLINOIS FED. AID PROJECT		