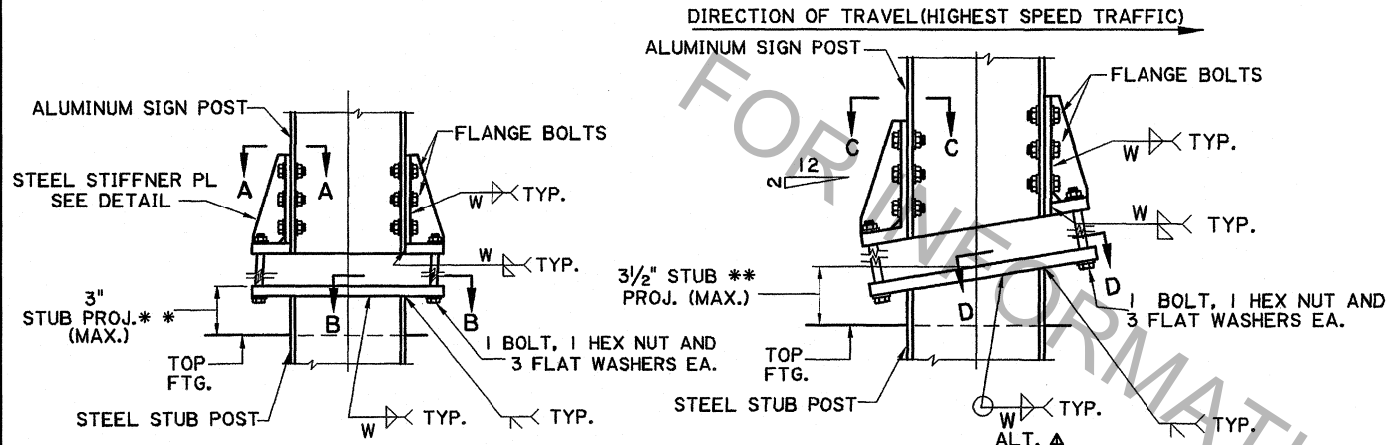


SECTION	DIMENSION (INCH)	BASE CONNECTION DATA													SLIP PLATE & HINGE PLATE DATA							FOOTING DATA								
		BOLT SIZE & TORQUE LIMITS	A	B	C	D	E	F	G	H	t <sub>1</sub>	t <sub>2</sub>	R	W	FLANGE BOLT DIA.	J	K	L	M	N	O	t <sub>3</sub>	R <sub>2</sub>	H.S. BOLT DIA.	STUB LTH.	LTH. OF FTG.	BARS V SIZE	STEEL STUB POST	CU. YD. CONC.	Δ W (ALT.)
W6x4.16		1/2" φ T=95	4	3	2 3/8	2 1/4	7/8	2	1 1/8	6 1/4	3/4	3/8	9/32	1/4	1/2	4	2 1/4	7/8	4	1	3 5/8	3/8	9/32	1/2	24	48	#4	W6 x 12	0.46	5/16
W8x5.90		1/2" φ T=95	5 1/4	3	2 3/8	3	1 1/8	2	1 1/8	6 1/4	3/4	3/8	9/32	1/4	5/8	5 1/4	2 3/4	1 1/4	4 1/2	1 1/8	4 1/8	1/2	1 1/32	5/8	24	48	#5	W8 x 18	0.46	5/16
W8x8.32		5/8" φ T=226	6 1/2	3 1/2	2 3/4	4	1 1/4	2 1/2	1 1/4	7 1/2	3/4	1/2	1 1/32	5/16	5/8	6 1/2	3 1/2	1 1/2	4 1/2	1 1/8	4 1/8	1/2	1 1/32	5/8	30	60	#6	W8 x 24	0.58	7/16
W10x11.41		5/8" φ T=226	8	3 1/2	2 3/4	5	1 1/2	3	1 1/2	9	3/4	1/2	1 1/32	5/16	3/4	8	5 1/2	1 1/4	5	1 1/4	4 5/8	5/8	1 3/32	3/4	30	84	#7	W10 x 33	0.81	7/16
W12x13.84		3/4" φ T=369	8	4	3 3/8	5	1 1/2	3	1 3/4	9 1/2	1	5/8	1 3/32	5/16	7/8	8	5 1/2	1 1/4	5	1 1/4	4 5/8	5/8	1 3/32	3/4	36	96	#8	W12 x 40	0.93	
W12x18.34		3/4" φ T=369	10	4	3 3/8	6	2	3 1/2	2	11	1	5/8	1 3/32	5/16	1	10	5 1/2	2 1/4	6	1 1/2	5 1/2	3/4	1 5/32	7/8	36	108	#9	W12 x 45	1.05	

ΔBASE PLATE TO STUB POST WELD ALTERNATE (AS AN ALTERNATE TO WELDS SHOWN IN DETAILS, THE POST MEMBERS TABULATED MAY BE WELDED ALL AROUND WITH A FILLET WELD .

\* ALL BOLTS SHALL HAVE A MINIMUM OF 3 THREADS BEYOND THE NUT. BOLT TORQUE LIMITS "-# LB. FOR NON-BREAKAWAY USE TORQUE LIMITS GIVEN IN THE STANDARD SPECIFICATIONS.

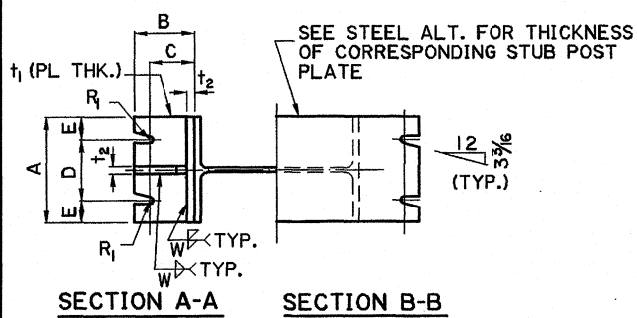


ELEVATION OF HORIZONTAL CONNECTION W SECTION

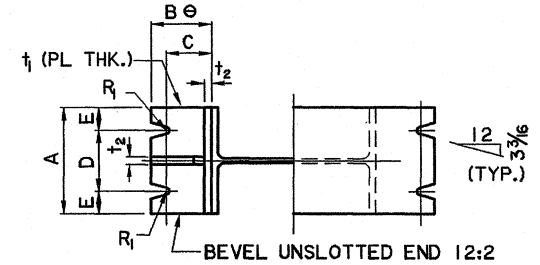
ELEVATION OF BEVELED CONNECTION W SECTION

\*\* TO MAINTAIN CORRECT STUB PROJECTION RECESS CONCRETE AS NECESSARY FOR BOLT INSTALLATION RECESS SHAPE TO DRAIN.

TO BE USED ON ALL MULTI-POSTSIGNS WITH DISTANCE BETWEEN POSTS 7'-0" & TO & OR LESS

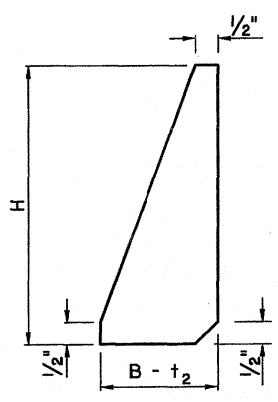


SECTION A-A SECTION B-B

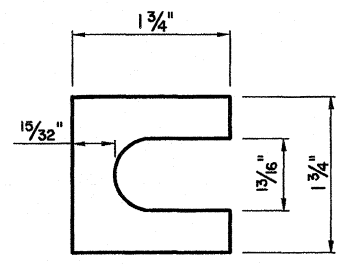


SECTION C-C SECTION D-D

⊕ ADD 1/4" FOR BEVELED CONNECTIONS

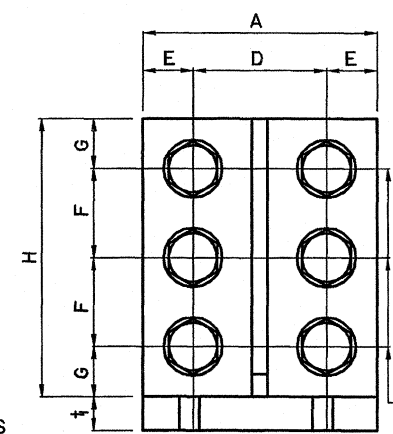


STEEL STIFFENER PLATE DETAIL

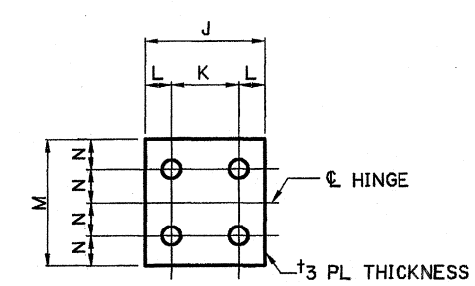


\* SHIM DETAIL  
BOLTS UP TO 3/4" φ BOLTS

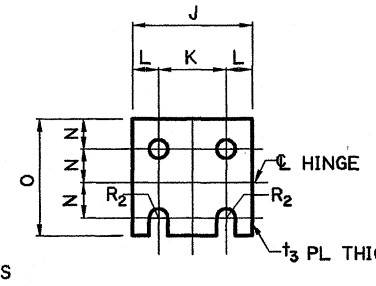
\* FURNISH 2 SHIMS 0.012" ± THICK AND 2 SHIMS 0.032" ± THICK PER POST. SHIMS SHALL BE BRASS CONFORMING TO ASTM. SPEC. B-36 AND BE USED AS DIRECTED BY THE PROJECT ENGINEER.



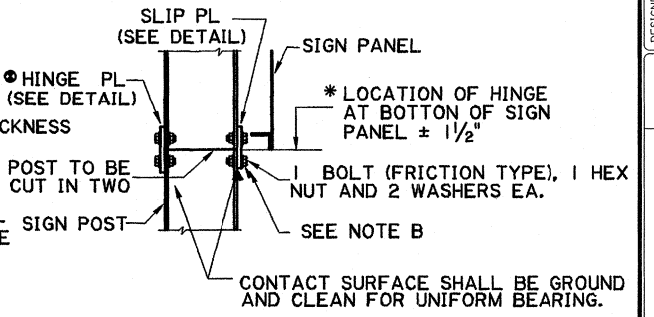
STEEL BASE DETAIL



STEEL HINGE PLATE DETAIL



STEEL SLIP PLATE DETAIL



HINGE DETAIL

- SLIP PLATE CONNECTION NOTES:
- SLIP PLATE SHALL BE INSTALLED WITH H.S. BOLTS AT MINIMUM BOLT TENSION.
  - TIGHTING SHALL BE OBTAINED BY
    - TURN OF NUT METHOD
    - DIRECT TENSION INDICATOR METHOD USING LOAD INDICATOR WASHER. SEE NOTE A.
  - TIGHTING SHALL BE TO SUCH A DEGREE AS TO OBTAIN MINIMUM BOLT TENSION AS SPECIFIED IN STANDARD SPECIFICATIONS SUBSECTION 807.05.1.1, CURRENT AT TIME OF FABRICATION.
  - TIGHTEN BOLTS IN A SYSTEMATIC ORDER TO THE PRESCRIBED MINIMUM BOLT TENSION.

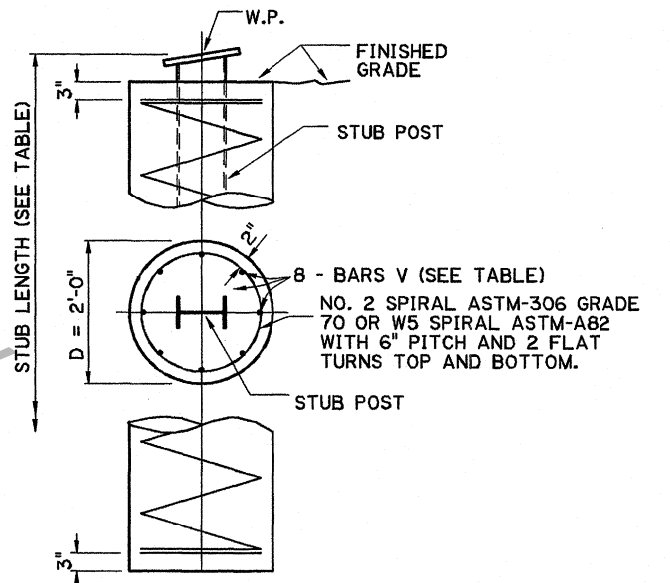
NOTE A:  
WHEN HIGH STRENGTH BOLT IS TIGHTENED BY USE OF A DIRECT TENSION INDICATOR, THE INSTALLATION AND INSPECTION SHALL BE IN ACCORDANCE WITH SPECIFICATIONS FOR STRUCTURAL JOINTS, SECTION 5 AND 6 FOR ASTM A-325 BOLTS, APPROVED BY THE RESEARCH COUNCIL ON RIVETED AND BOLTED STRUCTURAL JOINTS. FOR DETAILED INSTALLATION AND INSPECTION PROCEDURES FOLLOW MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR SHALL BE REQUIRED TO SUBMIT BROCHURES TO THE BRIDGE DESIGN ENGINEER FOR APPROVAL.

NOTE B:  
WHEN HIGH STRENGTH BOLT IS TIGHTENED BY USE OF A DIRECT TENSION INDICATOR METHOD, THE WASHER UNDER THE BOLT HEAD SHALL BE A LOAD INDICATOR WASHER.

- PROCEDURE FOR ASSEMBLY OF BASE CONNECTION: \*\*\*
- BASE SHALL BE ALIGNED AND SET PLUMB BEFORE OR IMMEDIATELY AFTER POURING CONCRETE FOOTING.
  - H.S. BOLTS IN BASE PLATE SHALL BE TIGHTENED TO THE PRESCRIBED TORQUE. CARE SHALL BE TAKEN TO AVOID OVERTIGHTENING.
- \*\*\* SEE STEEL ALTERNATE FOR ORIENTATION AND USE OF SLOTS AND HOLES.

THIS SHEET TO BE USED WITH WIND LOAD MAP AND GENERAL NOTE SHEET.

- WHEN SIGN IS LOCATED ON SIDE OF ROADWAY WITH TWO WAY TRAFFIC, A SLIP PLATE WILL BE USED ON SIDES OF THE POST IN LIEU OF THE HINGE PLATE SHOWN
- FOR EXTRUSION SIGN PANEL ALTERNATE, LOCATION OF & HINGE SHALL BE 3 1/2" FROM BOTTOM OF SIGN PANEL.



FOOTING DETAIL

SHEET NUMBER

DESIGNED BY: J.C. PORTER  
CHECKED BY: D. HUVEL

RETAINED BY: E. DEARMOND  
CHECKED BY: A. BRIDGES

DATE: JULY 2, 2000  
SHEET: 11 OF 11

PARISH: K.M.B.  
FEDERAL PROJECT: BY  
STATE PROJECT: NO.

12-02-16 UPDATE FOR 2016 SPECIFICATIONS

NO. 0

ROADSIDE MOUNTED SUPPORT DETAILS  
TYPE D SIGNS

BD-2.7.2.0.11 - ROADSIDE TRAFFIC SIGNS

BRIDGE AND STRUCTURAL DESIGN

STATE OF LOUISIANA  
PAUL B. FOSSIER, JR.  
REG. No. 21028  
REGISTERED PROFESSIONAL ENGINEER  
IN CIVIL ENGINEERING

8/21/00