

HINGE ASSEMBLY

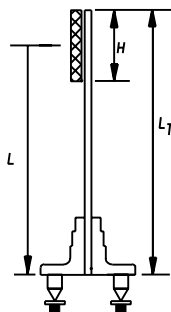
- 1) BUTT UPPER AND LOWER POSTS TOGETHER ON FLAT SURFACE.
- 2) PLACE HINGE PLATES (13) ON OUTER FLANGES AND SECURE WITH $\frac{3}{4}$ "- UNC BOLTS (14) (5) AND (16) - SNUG BUT DO NOT TIGHTEN.
- 3) MAKE SURE UPPER AND LOWER POSTS ARE IN ALIGNMENT: THEN TIGHTEN ALL NUTS (16) TO PROOF LOAD - ONE HALF OF A TURN BEYOND SNUG.

GENERAL NOTES

- 1) MEETS ALL AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS".
- 2) ALL HARDWARE TO BE HOT DIP GALVANIZED PER A 153.
- 3) FASTENERS, EXCEPT FOR SPECIAL BOLT AND COUPLING, SHALL BE INSTALLED WITH LOCKWASHERS OR LOCKNUTS AND DO NOT HAVE SPECIFIC TORQUE REQUIREMENTS. FASTENERS SHOULD BE MADE AS TIGHT AS POSSIBLE WITH CONVENTIONAL WRENCHES.
- 4) SQUARE AND LEVEL INDIVIDUAL COMPONENTS TO MINIMIZE NEED FOR SHIMMING.
- 5) NO MORE THAN TWO SHIMS UNDERNEATH ANY ONE COUPLING AND NO MORE THAN THREE SHIMS UNDERNEATH ANY TWO COUPLINGS SHALL BE USED.
- 6) STRUCTURAL STEEL TO BE HOT DIP GALVANIZED PER A 123 FABRICATION
- 7) ALL BRACKETS TO BE PERMANENTLY LABELED WITH THE APPROPRIATE BRACKET TYPE AND BRACKET SELECTION NUMBER.
- 8) SELECT CORRECT BRACKET NUMBER FROM BRACKET SELECTION TABLE USING THE PROPER 'L' VALUE AS SHOWN IN THE FIGURE BELOW.

BRACKET SELECTION TABLE						
Post Width	Bracket #1		Bracket #2		Bracket #3	
	Min. 'L'	Max. 'L'	Min. 'L'	Max. 'L'	Min. 'L'	Max. 'L'
6"	12'	29'	9'	12'	————	9'
8"	14'	29'	10'	14'	————	10'
10"	16'	29'	11'	16'	————	11'
12"	18'	29'	13'	18'	————	13'
14"	19'	29'	14'	19'	————	14'

$$L = L_T - H/2$$



BRACKET NUMBER	E (INCHES)
1	0.100
2	0.150
3	0.200

SPECIFICATION
821

CATEGORY CODE ITEMS

APPROVED

DIRECTOR - OFFICE OF TRAFFIC AND SAFETY



APPROVAL • SHA
REVISIONS
APPROVAL 10-10-00
REVISED 10-1-01
REVISED
REVISED

APPROVAL • FEDERAL
HIGHWAY ADMINISTRATION
APPROVAL 2-1-01
REVISED
REVISED
REVISED

Maryland Department of Transportation
STATE HIGHWAY ADMINISTRATION
STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES

**BREAKAWAY BASE SUPPORT
SYSTEM FOR HIGHWAY SIGNS**

STANDARD NO.

MD 821.09