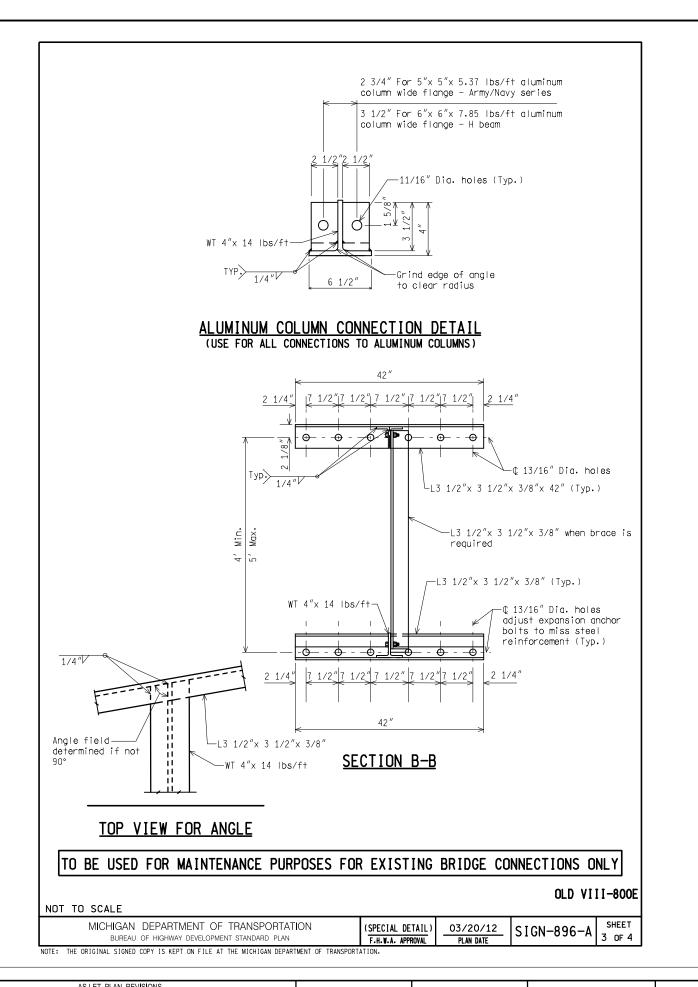


AS-LET PLAN REVISIONS

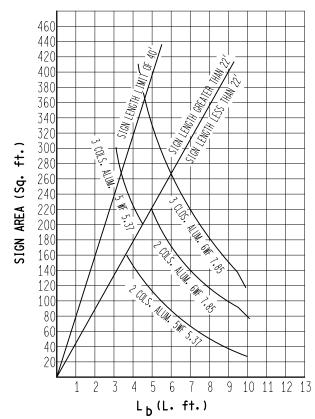
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TYPE	ALUMINUM COLUMN
I	5" x 5" x 5.37 lbs/ft WIDE FLANGE-ARMY NAVY
ΙΙ	6" x 6" x 7.85 lbs/ft WIDE FLANGE-H BEAM



COLUMN SELECTION PROCEDURE

- 1. Determine b using the longest required column. (b=1.25' min.)
- 2. $L_b = 1/2$ of the distance between the top the sign and the top clip angle bolt. $L_b = 1/2$ (h + b - 2')
- 3. Determine the sign area (ft2) according to the example given below include exit no. sign if any,

A= exit no. sign 10 ft x 2 ft = 20.0(ft2) A= parent sign 15 ft x 7.5 ft = 112.5(ft2) TOTAL AREA = 132.5(ft2)

Average height = $H = \frac{TOTAL AREA (f+2)}{PARENT SIGN LENGTH (f+)}$

Average height = $H = \frac{132.5(f+2)}{15.0(f+1)} = 8.83f+$

 Use the chart on this sheet, to determine the size and number of columns required.

NOTES:

- 1. All bolts shall be galvanized high strength bolts except as noted.
- 2. All bolts, nuts, and washers shall be hot dip galvanized. Nuts shall be tapped 0.015" oversize.
- 3. All aluminum and steel components shall be per current MDOT Standard Specifications for Construction.
- 4. All steel components shall be hot-dip galvanized.
- 5. All stainless steel expansion anchors should accommodate 3/4" dia. stainless steel bolt and shall provide a minimum pull-out resistance of 15,000 lbs at 1/16" maximum slippage.
- 6. The bottom edge of the sign shall be horizontal when erected.
- 7. Extreme caution shall be exercised when drilling holes for the 3/4" expansion anchors.
- 8. For open parapet railing top connection should be in the slab fascia.
- 9. Expansion anchors shall be chosen from the current qualified products list.
- 10. Expansion anchors shall be installed as per manufacturer's recommendations.

TO BE USED FOR MAINTENANCE PURPOSES FOR EXISTING BRIDGE CONNECTIONS ONLY

NOT TO SCALE

OLD AIII-800E

MICHIGAN DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAY DEVELOPMENT STANDARD PLAN	(SPECIAL DETAIL) F-H-W-A- APPROVAL	03/20/12 Plan date	SIGN-896-A	SHEET 4 OF 4
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NOTE: THE ORIGINAL SIGNED COPY IS KEPT ON FILE AT THE MICHIGAN DEPARTMENT OF TRANSPORTATION

	AS-LET FLAN REVISIONS						
10.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

	DATE:	CS:	DRAWING	SHEET	
	DESIGN UNIT:	JN:			
FILE:	TSC:				