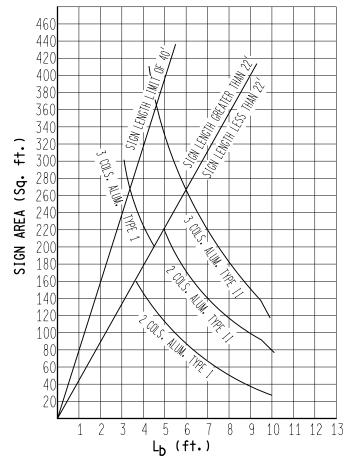


TYPE	ALUMINUM COLUMN
I	5" x 5" x 5.37 lbs/ft WIDE FLANGE-ARMY-NAVY SERIES
ΙΙ	6" x 6" x 7.85 lbs/ft WIDE FLANGE-H BEAMS



COLUMN SELECTION PROCEDURE

- 1. Determine B using the longest required column. (B = 0.0" 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 10ft x 2ft = 20.0 (ft2) A= Parent sign 15ft x 7.5ft = $\frac{112.5 \text{ (ft2)}}{132.5 \text{ (ft2)}}$

Average height = H = $\frac{\text{TOTAL AREA (ft2)}}{\text{Parent sign length (ft)}}$ Average height = H = $\frac{132.5 \text{ (ft2)}}{\text{Parent sign length (ft)}}$

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

TO BE USED FOR MAINTENANCE PURPOSES FOR EXISTING BRIDGE CONNECTIONS ONLY

NOTES:

- 1. All bolts shall be galvanized high strength bolts.
- 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 per current MDOT Standard Specifications For Construction. All steel components shall be hot-dip galvanized
- 4. Sign location may be shifted to avoid joints or stiffeners.
- 5. Bottom edge of sign shall be horizontal when erected and shall be a minimum of 18" above the lower bridge beam flange at all points.
- 6. Type C Connection denotes a two-bracket sign connection.
- 7. Type D Connection denotes a three-bracket sign connection.
- 8. Sign connections to mounting support columns shall have the samebolt arrangement as shown for connections for sign to mounting supports for cantilevers and trusses. (Typical Plan Sign-700 Series)

OLD VIII-820E

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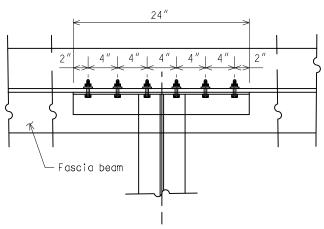
(SPECIAL DETAIL)

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SIGN-898-A

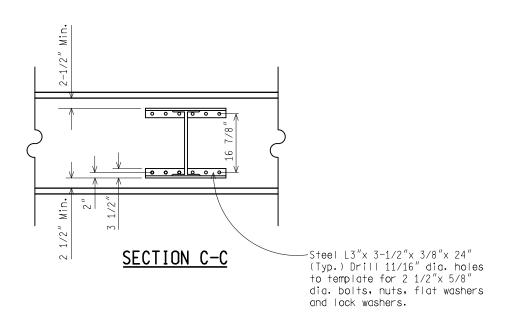
SHEET 3 OF 4

- 9. When the sign support is attached to A-588 Bridge Beams the connection interface shall be blast cleaned, and primed with organic zinc-rich paint before placing the new connection. The paint shall overlap the perimeter of the connection by 2 inches. The paint color shall be "brown weathering steel", Federal Code Number 10062. The perimeter of the contact surface of the sign supports connection to the beam web shall be sealed in accordance to Subsection 713.03.F of the Standard Specifications for Construction.
- 10. The bolted connection of the sign support to the beam web shall be according to Subsection 707.03.D.7 of the Standard Specifications For Construction.



If beam web is less than 7/16" thick add $3/8" \times 3" \times 24"$ steel $\mathbb R$ on inside face.

DETAIL B



TO BE USED FOR MAINTENANCE PURPOSES FOR EXISTING BRIDGE CONNECTIONS ONLY

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(SPECIAL DETAIL)

F.H.W.A. APPROVAL

03/20/12 PLAN DATE SIGN-898-A

98-A SHEET