Aluminum column (see graph on sheet #4 for size)

3/4" Dia. stainless steel expansion anchor bolt with one flat washer and nylon insert locknut.

Field drill 11/16" dia. hole for 5/8" dia. high strength bolt (Typ.) **

3/4" Dia. stainless steel expansion anchor and stainless steel bolt with one flat washer and nylon insert locknut.

Field drill aluminum column to fit angle (Typ.)

Diagonal brace (L3 1/2"x 3 1/2"x 3/8") required when bottom WT 4"x 14 lbs/ft is > 4'

clip ends to fit.

Type I sign

Field drill 11/16" dia. hole for 5/8" dia. h.s. bolt (Typ.)

Place 1/8" elastomeric (or equivalent) pad to cover entire surface area between steel and aluminum sections

Prestressed I-Beam Size

<table>
<thead>
<tr>
<th>Size</th>
<th>A</th>
</tr>
</thead>
<tbody>
<tr>
<td>28&quot; (TYPE I)</td>
<td>4&quot;</td>
</tr>
<tr>
<td>36&quot; (TYPE II)</td>
<td>4&quot;</td>
</tr>
<tr>
<td>45&quot; (TYPE III)</td>
<td>4 1/2&quot;</td>
</tr>
<tr>
<td>54&quot; (TYPE IV)</td>
<td>6 1/2&quot;</td>
</tr>
</tbody>
</table>

** Bolt Detail

** To be used for maintenance purposes for existing bridge connections only.

OLD VIII-800E
TO BE USED FOR MAINTENANCE PURPOSES FOR EXISTING BRIDGE CONNECTIONS ONLY

PLAN VIEW
2 SUPPORT

PLAN VIEW
3 SUPPORT

NOT TO SCALE

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

NOTE: THE ORIGINAL SIGNED COPY IS KEPT ON FILE AT THE MICHIGAN DEPARTMENT OF TRANSPORTATION.
ALUMINUM COLUMN CONNECTION DETAIL
(USE FOR ALL CONNECTIONS TO ALUMINUM COLUMNS)

SECTION B-B

TO BE USED FOR MAINTENANCE PURPOSES FOR EXISTING BRIDGE CONNECTIONS ONLY

NOT TO SCALE

MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DEVELOPMENT STANDARD PLAN

NOTE: THE ORIGINAL SIGNED COPY IS KEPT ON FILE AT THE MICHIGAN DEPARTMENT OF TRANSPORTATION.
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