NOTES:
1. Work with Index 11860.
2. Shop Drawings: Not required.
3. Materials:
   A. Steel Plate: ASTM A36 or ASTM A709 Grade 36
   B. Steel Pipe (Support Post): ASTM A661 Schedule 40
   C. Galvanized U-Bolts, Nuts and Plate Washer
      a. U-Bolts: ASTM A449
      b. Hex Nuts: ASTM A 563 Lock Nuts
      c. Plate Washer: ASTM A 36 or ASTM A709 Grade 36 or 50
   D. Galvanized Anchor Bolts, Nuts and Washers:
      a. Anchor Rod: ASTM F1554 Grade 55 
      b. Anchor Washers: ASTM A493 Heavy Hex Locking
   E. Adhesive Anchor Bonding Material: Specification Section 931 Type HV Adhesive
   F. Weld Material: E70XX
   G. Snap-In Post Cap: UV and weather-resistant glass-filled polyester cap
4. Coating:
   A. U-Bolts, Threaded Rods, Nuts and Washers: ASTM F2329
   B. Other Steel: ASTM A123
5. Fabrication:
   A. Weld: Specification Section 460-6.4
   B. Hot-dip galvanize after fabrication
6. Construction:
   A. Locate Sign Support a minimum of 5 feet from an open joint or transition (sign stationing may be adjusted to accommodate this requirement)
   B. Base plate must be flush with top of Railing
   C. Anchors in Traffic Railings:
      a. Install Adhesive Anchors in accordance with Specification section 416 except perform field test on one anchor per sign support location
      b. Use template and (1) anchors as necessary to maintain correct placement of C-I-P Embedded Anchors
      c. Do not drill into existing reinforcing
   D. Temporary Signs on Permanent Traffic Railings, Same as Permanent except field testing of anchors is not required
   E. Temporary Signs on Temporary Railings/Barriers:
      a. Install Sign Supports at the midpoint along the length of a single segment
      b. Avoid drilling through existing reinforcing, use of metal detector not required.
   F. Anchors in Traffic Railings:
      a. Cut anchor rods flush with the top of the railing
      b. Coat anchors with Type F-1 epoxy to prevent corrosion
      c. Do not drill into existing reinforcing
   G. Snap-In Post Cap: UV and weather-resistant glass-filled polyester cap
7. Removal of Temporary Signs on Permanent Traffic Railings:
   A. Cut anchor rods flush with the top of the railing
   B. Coat anchors with Type F-1 epoxy to prevent corrosion
   C. Do not drill into existing reinforcing
   D. Epoxy coating 1/16"thick minimum
   E. Field testing of anchors is not required
   F. Remove Temporary Signs on Permanent Traffic Railings:
      a. Install Sign Supports at the midpoint along the length of a single segment
      b. Avoid drilling through existing reinforcing, use of metal detector not required.
   G. Field testing of anchors is not required
8. Payment:
   Include the cost of all materials and labor in the cost of the single post sign assembly.

TABLE 1 - SIGN PANEL AND POST SIZING

<table>
<thead>
<tr>
<th></th>
<th>Max. Sign Area (SF)</th>
<th>Post Ø (NPS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temporary Signs</td>
<td>≤ 24</td>
<td>3&quot;</td>
</tr>
<tr>
<td>Permanent Signs</td>
<td>≥ 135 ≥ Sign ≤ 20</td>
<td>3.5&quot;</td>
</tr>
</tbody>
</table>

Parallel to Direction of Traffic
Perpendicular to Direction of Traffic

CONCRETE BARRIER

INDEX NO. 11871
SHEET NO. 1 of 2

FY 2017-18
DESIGN STANDARDS

SINGLE POST MEDIAN BARRIER
MOUNTED SIGN SUPPORT

REV 10/14/16

DESCRIPTION:

INDEX 410 Standard “Full Wall” Median Barrier shown; others similar.

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FAA-270-06-16
NOTES:
1. Place anchor rods in a staggered or linear pattern as necessary to avoid reinforcing.
2. Use a staggered pattern for all temporary barriers.

**TABLE 2 - BASE PLATE TYPE AND ANCHOR ROD SIZING**

<table>
<thead>
<tr>
<th>Index No.</th>
<th>Type/Application</th>
<th>Base Plate Type</th>
<th>Anchor Rod Ø</th>
</tr>
</thead>
<tbody>
<tr>
<td>410</td>
<td>Full Wall</td>
<td>A</td>
<td>1&quot;</td>
</tr>
<tr>
<td>410</td>
<td>Cantilever or L-Wall</td>
<td>A</td>
<td>1&quot;</td>
</tr>
<tr>
<td>420 &amp; 425</td>
<td>When Clear Space between Dual Bridge</td>
<td>A</td>
<td>1&quot;</td>
</tr>
<tr>
<td>421</td>
<td>All Applications</td>
<td>A</td>
<td>1&quot;</td>
</tr>
<tr>
<td>All listed above Plus 414 &amp; 415</td>
<td>Temporary Signs</td>
<td>C</td>
<td>1/2</td>
</tr>
</tbody>
</table>

**BASE PLATE TYPE A**

(Linear Anchor Rod Pattern)

**BASE PLATE TYPE B**

(Staggered Anchor Rod Pattern)

**BASE PLATE TYPE C**

(Staggered Anchor Rod Pattern)