NOTES
1. See Standard Specification 8-21.3(9) for construction requirements.
2. Use a template to locate and secure the bolts during foundation installation.
3. When connecting between cast-in-place and precast Single-Slope Barrier, provide a Connection Blockout and Rebar Grid as shown in Standard Plan C-70.10.
4. Grounding Conductor shall be non-insulated #4 AWG stranded copper; provide 3'-0" min. slack. Clamp steel reinforcing bar with connector suitable for use embedded in concrete.
5. Install Conduit Coupling flush with top of Barrier. Do not glue PVC stubout.

MATERIAL SPECIFICATIONS

SHAFT CONCRETE
CLASS 4000P

ALL OTHER CONCRETE
CLASS 4000

STEEL
AASHTO M 31 GRADE 60

ANCHOR RODS
ASTM F 1564 GRADE 105

ANCHOR NUTS
AASHTO M 291

ANCHOR WASHERS
AASHTO M 283

ANCHORAGE GALVANIZED
AASHTO M 232

STEEL PLATE
ASTM A 36

SHAFT DEPTH

<table>
<thead>
<tr>
<th>Z</th>
<th>TOTAL SIGN AREA (SF)</th>
<th>ALLOWABLE LATERAL BEARING PRESSURE (PSF)</th>
<th>FRICTION ANGLE (DEGREED)</th>
</tr>
</thead>
<tbody>
<tr>
<td>13'-0&quot;</td>
<td>200 OR LESS</td>
<td>1500 AND UP</td>
<td>28 MIN.</td>
</tr>
<tr>
<td>16'-0&quot;</td>
<td>200 OR LESS</td>
<td>1000 - 1499</td>
<td>25 MIN.</td>
</tr>
<tr>
<td>18'-0&quot;</td>
<td>200 - 400</td>
<td>1500 AND UP</td>
<td>28 MIN.</td>
</tr>
<tr>
<td>22'-0&quot;</td>
<td>200 - 400</td>
<td>1000 - 1499</td>
<td>25 MIN.</td>
</tr>
</tbody>
</table>

EXPANSION JOINT WITH 3/4" (IN) PREMOLDED JOINT FILLER (TYP.)

SEE SECTION "A" SHEET 2 FOR GROUNDING CONDUCTOR DETAILS (SEE NOTE 4)

SEE SECTION "A" SHEET 2 FOR SHAFT REINFORCEMENT DETAILS

(C) 2015 USA CYDOR
ANCHOR ROD - 1 3/4" (IN) DIAM. + (BARRIER HEIGHT + 4' - 2") LONG, THREADED 8" (IN) MIN. EACH END, WITH FOUR HEAVY HEX NUTS AND TWO WASHERS - GALVANIZE EXPOSED ANCHOR ROD END 1' - 0" MIN. (TYP.);

TOP OF ROADWAY.

GROUNDING CONDUCTOR - ROUTE TO GROUNDING STUD (SEE NOTE 4).

CONDUIT COUPLING (SEE NOTE 5).


1/2" BAR - 2'- 10" MAX.

SECTION A

SECTION B

SECTION C

GRADE SEPARATION BARRIER HEIGHT A B C D E Q

0 TO 1" 3' - 8" 8 2' - 0" 4' - 7" 3' MIN. 4 10

UP TO 7" 4' - 0" 9 1/2" 2' - 2 1/4" 4' - 9 1/4" 7' MIN. 5 12

UP TO 10" 4' - 6" 10 1/2" 2' - 4 1/2" 4' - 11 1/2" 10' MIN. 6 14

BAR LIST

MARK NO. LOCATION QTY LENGTH SIZE TYPE

1 BARRIER - TOP VERTICAL 32 VARIES # 4

2 BARRIER - BOTTOM VERTICAL 32 VARIES # 4

3 BARRIER - HORIZONTAL 23' - 8" # 5 STR.

4 BARRIER - HORIZONTAL 1' - 0" # 5 STR.

5 BARRIER - TOP VERTICAL 8 VARIES # 4

6 BARRIER - BOTTOM VERTICAL 8 VARIES # 4

7 CAP - HOOK 5 15' - 0" # 9

8 CAP - TOP 4 10'- 10" # 5

9 CAP - VERTICAL EACH CORNER 4 3'- 4" # 4 STR.

10 SHAFT - SPIRAL 1 AS REQD # 4

11 SHAFT - VERTICAL 12 2'- 0" MINUS CLEARANCES # 9 STR.

CONSTRUCTION JOINT WITH ROUGHENED SURFACE.

SEE TABLE, THIS SHEET, COLUMN "Q".

IF JOINING TWO SPIRALS, SEE LAPsplice DETAIL, STANDARD PLAN G-65.20, SHEET 2.

ADD TWO (2) #9 BARS, EQUALLY SPACED, AT THE TOP OF THE FOUNDATION BARRIER.

ALL BENDS ARE 2" (IN) RADIUS.

ALL DIMENSIONS ARE OUT TO OUT.