RAISED SIDEWALK NOTES:

1. APPLICATIONS: This raised sidewalk is only applicable for a TL-4 crash test rating. For TL-5 crash test rating increase Expansion Joint spacing to 60'-0" minimum and Bars 4C to Bars 5C or provide Bars 4C @ 4" spacing with the 42" Vertical Shape Traffic Railing.

2. CONSTRUCTION REQUIREMENTS: Construct the raised sidewalk level transversely and expansion joints plumb; do not construct the raised sidewalk or C.I.P. coping perpendicular to the roadway surface. Slip forming is not permitted.

3. Provide Class II concrete for slightly aggressive environments or Class IV for moderately or extremely aggressive environments.

4. Dowel Load Transfer Devices will be ASTM A36 smooth round bar and hot-dip galvanized in accordance with Specification Section 962. Install Dowel Load Transfer Devices in accordance with Specification Section 260.

5. Construct ½" Expansion Joints in raised sidewalk and C.I.P. copings plumb and perpendicular or radial to the Gutter Line. Provide at 90'-0" maximum intervals as shown.


7. Construct ½" Open Joints in raised sidewalk and C.I.P. coping plumb and provide at 30'-0" maximum intervals as shown. Space V-Grooves equally between ½" Expansion Joints and/or Begin or End Retained Sidewalk. V-Groove locations are to coincide with V-Groove locations in the Traffic Railing.

8. Spacing shown is along the Gutter Line.

9. For MSE Walls, provide Dowel Bars 4D and extend 8" above the top of retaining wall panel. Field cut as necessary to maintain 2" minimum cover (Typ.) to the top of the buildup concrete.

10. Finish Sidewalks in accordance with Specification Section 522.

11. Work this Index with the following:
   - Bars 5S (Top of Sidewalk) (Required only when Raised Sidewalk is skewed).
   - Bars 5T and 5X @ 6" sp. (tie Bars 5S to Bars 5T) (Typ.) (See Note 7)
   - Bars 5A @ 6" sp. (tie to alternating Bars 5T and 5X) (Typ.)
   - Bars 5U1 @ 6" sp. (tie to alternating Bars 5T and 5X) (Typ.)

12. The following Indexes contain details of the intersection of the retaining wall at approach slabs:
   - Index No. 20900 - Approach Slabs (Flexible Pavement Approaches)
   - Index No. 20910 - Approach Slabs (Rigid Pavement Approaches)

CROSS REFERENCE: For Detail "B", see Sheet 2.

INDEX REFERENCE:
- Index No. 20910 - Approach Slabs (Rigid Pavement Approaches)
- Index No. 20900 - Approach Slabs (Flexible Pavement Approaches)
- Index No. 423 - Traffic Railing - (32" Vertical Shape)
PARTIAL END VIEW OF TRAFFIC RAILING END TRANSITION FOR GUARDRAIL ATTACHMENT
(Showing Bars SS, Bars ST and Bars SX)
(Precast Coping Shown, C.I.P. Coping Similar)

NOTE: See Index No. 422 and Index No. 423, Railing End Detail for details.

ESTIMATED QUANTITIES FOR PRECAST COPING

<table>
<thead>
<tr>
<th>ITEM</th>
<th>UNIT</th>
<th>QUANTITY</th>
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<tbody>
<tr>
<td>Concrete (Precast Coping)</td>
<td>CY/FT</td>
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<tr>
<td>Concrete (C.I.P. Raised Sidewalk)</td>
<td>CY/FT</td>
<td>0.232</td>
</tr>
<tr>
<td>Reinforcing Steel (Precast Coping) excluding Bars ST, SX and SS (Typ.)</td>
<td>LB</td>
<td>21.47</td>
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<td>Reinforcing Steel (C.I.P. Raised Sidewalk) (Typ.)</td>
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<td>11.92</td>
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<tr>
<td>Additional Reinfl. @ Expansion Joints</td>
<td>LB</td>
<td>32.04</td>
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The above concrete quantities are based on a Type D Concrete Curb (See Note 2).

RAISED SIDEWALK NOTES:
1. Actual width varies depending on type of Retaining Wall used.
2. Match roadway curb shape (Type) and height. See Roadway Plans and Index No. 300. 5'-11" dimension is based on a 32" Vertical Shape Traffic Railing with a Type D curb attached to a 6'-0" wide sidewalk. Adjust this dimension as required for other curb types or transitions at Begin or End Retaining Wall.
3. See Index No. 422 and Index No. 423 for Bars SS, ST & SX and Bullet Railing details. Adjust vertical dimension of Bars ST and SX. See Reinforcement Steel Note 3.
4. Trim end of Bars ST and SX to clear construction joint for 42" Vertical Shape Traffic Railing.
5. At the Contractor's option, mechanical couplers may be used to splice reinforcing. Complete details, including reinforcement lengths are required in the Shop Drawings. Mechanical couplers shall develop 125% of the bar yield strength.
6. Contractor to maintain stability of precast coping prior to junction slab completion.

PRECAST COPING

C.I.P. COPING

DETAIL "B"
(Showing Locations of 1/2" V-Grooves and 3/4" Preforemed Expansion Joint Filler)
**REINFORCING STEEL BENDING DIAGRAMS - RAISED SIDEWALK**

**BILL OF REINFORCING STEEL**

<table>
<thead>
<tr>
<th>MARK</th>
<th>SIZE</th>
<th>LENGTH</th>
<th>C.I.P. COPING/RAILING</th>
</tr>
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<tbody>
<tr>
<td>A</td>
<td>5</td>
<td>4'-7&quot;</td>
<td></td>
</tr>
<tr>
<td>B1</td>
<td>5</td>
<td>9'-6&quot;/11'-6&quot;</td>
<td>N/A</td>
</tr>
<tr>
<td>B2</td>
<td>5</td>
<td>AS REGD</td>
<td>AS REGD</td>
</tr>
<tr>
<td>C</td>
<td>4</td>
<td>5'-5&quot;</td>
<td>N/A</td>
</tr>
<tr>
<td>F</td>
<td>5</td>
<td>5'-0&quot;</td>
<td>5F</td>
</tr>
<tr>
<td>L</td>
<td>5</td>
<td>4'-5&quot;</td>
<td>4F</td>
</tr>
</tbody>
</table>

**BARS 5B1, 5B2, 5C & 5F**

| BAR 5A | 6' | 6" |
| BAR 5L | 7 | 1|

**REINFORCING STEEL NOTES:**

1. All bar dimensions in the bending diagrams are out to out.
2. All reinforcing steel at expansion joints will have a 2" minimum cover.
3. Lap splices for Bars 5B will be a minimum of 2'-2".
4. Lap splice Bars 5A with Bars 5C. Lap splices will be a minimum of 2'-2".
5. See Index No. 422 and Index No. 423 for Bars 5S, 5T & 5X and Bullet Railing details. Adjust vertical dimensions of Stirrup Bars 5T and 5X to 3'-0" for 32" Vertical Shape or 3'-10" for 42" Vertical Shape.
6. Dimension shown is for lap splice option. For mechanical coupler option, this dimension is 2'-2".
7. Dimension shown is for lap splice option. For mechanical coupler option, this dimension is 2'-2".
8. The Contractor may use Welded Wire Reinforcement when approved by the Engineer. Welded Wire Reinforcement will conform to ASTM A 497.

**ESTIMATED QUANTITIES FOR C.I.P. COPING**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>UNIT</th>
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The above concrete quantities are based on a Type D Concrete Curb (See Note 1).

**RAISED SIDEWALK NOTES:**

1. Match roadway curb shape (Type) and height. See Roadway Plans and Index No. 300. 6'-0" dimension is based on a 32" Vertical Shape Traffic Railing with a Type D curb adjacent to a 6'-0" wide sidewalk. Adjust this dimension as required for other curb types or transitions at Begin or End Retaining Wall.
2. See Index No. 422 and Index No. 423 for Bars 5S, 5T & 5X and Bullet Railing details. Adjust vertical dimension of Bars 5T and 5X, see Reinforcing Steel Note 5.