Approach Slab in end taper section as required to maintain cover.

Approach Slab & Bars 5X

Bars 5S (Typ.)

Bars 5T & 5X

Alternating at 6"

Bars 5S (Typ.) — Bars 5T — Bars 5X

Raised Sidewalk

Approach Slab

RAILING END DETAIL

SECTION A-A

TYPICAL SECTION THRU TRAFFIC RAILING

SECTION THRU BRIDGE DECK SHOWN

NOTES:

Onset Railing End Taper and Guardrail if Concrete Barrier Wall is used beyond the Approach Slab. See Structures Plans, Plan and Elevation Sheet and Roadway Plans. If Railing End Taper is omitted, extend Typical Section to the end of the Approach Slab. Begin placing Railing Bars 5T and 5X on Approach Slab at the railing end and proceed toward Begin or End Bridge to ensure placement of guardrail bolt holes. If required, adjustments to the bar spacing for Bars 5T and 5X shall be made immediately adjacent to Begin or End Bridge. Shift and rotate Bars 5T and 5X on Approach Slab in end taper section as required to maintain cover.

VIEW B-B

APPROACH SLAB END VIEW

OF TRAFFIC RAILING

CROSS REFERENCE:

For location of Section A-A and View B-B, see Sheet 1.

NOTE: For Post "B1", Post "C" and Rail Details, see Index No. 822.

RAILING END DETAIL

TRAFFIC RAILING - (32" VERTICAL SHAPE)
**CONVENTIONAL REINFORCING STEEL BENDING DIAGRAMS**

<table>
<thead>
<tr>
<th>MARK</th>
<th>SIZE</th>
<th>LENGTH</th>
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<tbody>
<tr>
<td>5</td>
<td>5</td>
<td>As Req'd</td>
</tr>
<tr>
<td>T</td>
<td>5</td>
<td>2'-6&quot;</td>
</tr>
<tr>
<td>X</td>
<td>5</td>
<td>5'-10&quot;</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>ROADWAY CROSS-SLOPE</th>
<th>LOW GUTTER</th>
<th>HIGH GUTTER</th>
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</thead>
<tbody>
<tr>
<td>0% to 2%</td>
<td>90°</td>
<td>90°</td>
</tr>
<tr>
<td>2% to 6%</td>
<td>87°</td>
<td>93°</td>
</tr>
<tr>
<td>6% to 10%</td>
<td>84°</td>
<td>96°</td>
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</table>

**REINFORCING STEEL NOTES:**

1. All bar dimensions in the bending diagrams are out to out.
2. The 3'-8" vertical dimensions shown for Bars ST and SX are based on a bridge deck with a 6" thick x 6' wide raised sidewalk at low side of deck, 2% deck cross slope, and a counter 2% raised sidewalk cross slope. If the raised sidewalk thickness, width, or cross slopes vary from the above amounts, adjust these vertical dimensions accordingly to achieve a 6" minimum embedment into the bridge deck.
3. The reinforcement for the railing on a Retaining Wall shall be the same as detailed with ØA = 90°.
4. All reinforcing steel at the open joints shall have a 2" minimum cover.
5. Bars 5S may be continuous or spliced at the construction joints. Bar splices for Bars 5S shall be a minimum of 2'-2".
6. The Contractor may utilize Welded Wire Reinforcement (WWR) when approved by the Engineer. WWR must consist of Deformed wire meeting the requirements of Specification Section 931.

**SECTION THRU RECESSED "V" GROOVE TO FORM INSCRIBED LETTERS AND FIGURES**

**ESTIMATED TRAFFIC RAILING QUANTITIES**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>UNIT</th>
<th>QUANTITY</th>
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<tbody>
<tr>
<td>Concrete</td>
<td>CY/LF</td>
<td>0.095</td>
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<tr>
<td>Reinforcing Steel</td>
<td>LB/LF</td>
<td>25.90</td>
</tr>
</tbody>
</table>

(The above quantities are based on a 6" thick x 6' wide raised sidewalk at low side of deck, 2% deck cross slope and counter 2% sidewalk cross slope.)