TRAFFIC RAILING - (32" VERTICAL SHAPE)

3'-0" Maximum

NAME OR DATE
Bridge Number

ELEVATION OF INSIDE FACE OF RAILING
(Reinforcing Steel not shown for clarity)

For Railing End Transition see Railing End Detail
(Typical where Guardrail Connection is required)

PLAN
(Rails, Posts and Reinforcing Steel not shown for clarity)

For treatment of Railings on skewed bridges see Index 521-427.

RAILINGS ON RETAINING WALLS: If the Traffic Railing is to be provided on a retaining wall, the railing section will be the same as shown on Sheet 2. All other details such as the End Transition, Guardrail Connection, the maximum spacing of the 3/8" open joints and 3/8" V-Groove shall apply.

NAME, DATE, AND BRIDGE NUMBER: The Name and Bridge Number shall be placed on the Traffic Railing so as to be seen on the driver's right side when approaching the bridge. The Date shall be placed on the driver's left side when approaching the bridge. The Date shall be as shown in the General Notes of the Structures Plans. The Date shall be the year the bridge is completed. For a widening when the existing railing is removed, use both the existing date and the year of the widening. Black letters or numbers shall be used, as approved by the Engineer, in lieu of the letters or numbers formed by 3/8" V-Grooves. V-Grooves shall be formed by preformed letters and figures 3" in height may be used, as approved by the Engineer, in lieu of the letters and figures formed by 3/8" V-Grooves.

BARRIER DELINEATORS: Install Barrier Delineators on top of the Traffic Railing 2" from the face on the traffic side in accordance with Specification Section 705. Match the Barrier Delineator to the color (white or yellow) of the near edgeline.

When Bullet Railing is continuous, provide Tapered End Transition at terminus of Bullet Railing.

CROSS REFERENCE:
For Section 4-4 and View B-B, see Sheet 2.
For Detail "A" see Sheet 3.

CONCRETE AND REINFORCING STEEL: See Structures Plans, General Notes.

GUARDRAIL: For Guardrail Connection details, see Index 539-001.

PEDESTRIAN/BICYCLE RAILING AND SPECIAL HEIGHT BICYCLE RAILING DETAILS: See Index 515-022

V-GROOVES: Construct 3/8" V-Grooves plumb. Space V-Grooves equally between 3/8" Open Joints and/or Deck Joints and at V-Groove locations on Retaining Wall Footings. BARRIER DELINEATORS: Install Barrier Delineators on top of the Traffic Railing 2" from the face on the traffic side in accordance with Specification Section 705. Match the Barrier Delineator to the color (white or yellow) of the near edgeline.

END TRANSITION: When guardrail approaches are shown in the plans, provide Railing End Transition.
CONVENTIONAL REINFORCING STEEL BENDING DIAGRAMS

<table>
<thead>
<tr>
<th>MARK</th>
<th>SIZE</th>
<th>LENGTH</th>
<th>ROADWAY CROSS-SLOPE</th>
<th>LOW GUTTER</th>
<th>HIGH GUTTER</th>
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</thead>
<tbody>
<tr>
<td>5</td>
<td>5</td>
<td>As Req'd</td>
<td>0% to 2%</td>
<td>90°</td>
<td>90°</td>
</tr>
<tr>
<td>7</td>
<td>5</td>
<td>9'-0&quot;</td>
<td>2% to 6%</td>
<td>87°</td>
<td>93°</td>
</tr>
<tr>
<td>X</td>
<td>5</td>
<td>5'-10&quot;</td>
<td>6% to 10%</td>
<td>84°</td>
<td>96°</td>
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DETAIL "A" - SECTION
AT INTERMEDIATE OPEN JOINT

INTERMEDIATE JOINT SEAL NOTES:
1. At Intermediate Open Joints, seal the lower 6" portion of the open joint with Pre-cured Silicone Sealant in accordance with Specification Section 932.
2. Apply sealant prior to any Class V finish coating and remove all curing compound and loose material from the surface prior to application of bonding agent.
3. The cost of the Pre-cured Silicone Sealant shall be included in the Contract Unit Price for the Traffic Railing.

REINFORCING STEEL NOTES:
1. All bar dimensions in the bending diagrams are cut to out.
2. The 3'-8" vertical dimensions shown for Bars 5T and 5X 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

<table>
<thead>
<tr>
<th>ITEM</th>
<th>UNIT</th>
<th>QUANTITY</th>
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<tbody>
<tr>
<td>Concrete</td>
<td>CY/CF</td>
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<tr>
<td>Reinforcing Steel</td>
<td>LB/CF</td>
<td>25.90</td>
</tr>
</tbody>
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(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.)