**PLAN**

Evenly transition from single slope to existing barrier.

**CONCRETE QUANTITIES**

Per End Section

0.93 cy

**VERTICAL**

<table>
<thead>
<tr>
<th>Location</th>
<th>Shape</th>
<th>Weight</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.93</td>
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</table>

**VERTICAL**

16.4

**SHAPE**

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<th>Location</th>
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<th>Length</th>
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<tbody>
<tr>
<td>5f3</td>
<td></td>
<td>59.7</td>
<td>12'-2&quot;</td>
</tr>
<tr>
<td>5f2</td>
<td></td>
<td>32.3</td>
<td>18'-0&quot;</td>
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**REINFORCING BAR LIST**

<table>
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<th>Length</th>
<th>Weight</th>
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</thead>
<tbody>
<tr>
<td>6f1</td>
<td>VERTICAL</td>
<td></td>
<td>6'</td>
<td>9.5&quot;</td>
</tr>
<tr>
<td>5g2</td>
<td>VERTICAL</td>
<td></td>
<td>5'</td>
<td>9.0&quot;</td>
</tr>
</tbody>
</table>

**SAWED CONTRACTION JOINT**

Saw out top and front face. Saw out back if exposed.

Use Grade 60 epoxy-coated reinforcing bars. Provide 2 inches minimum cover. Anchor all reinforcement to prevent movement. Secure each section at the front, back, and at 3'-6" intervals using a method approved by the Engineer.

1. Expansion joints are necessary only where specifically required by project plans. Conform expansion material to the shape of the barrier. No sealer is required.

2. Where abutting sections are placed as separate pours, a butt joint may be used. Extend longitudinal reinforcement into the abutting section a minimum of 3 feet.

3. Fill all exposed corners with a 1/2 inch dressed and beveled strip.

4. Use 1 inch diameter deformed dowel bars of sufficient length to ensure 6 inch minimum embedment in barrier and supporting surface. Install dowels either in supporting surface when placed, or in drilled holes using polymer grout complying with Materials I.M. 491.11 or hydraulic cement grout complying with Materials I.M. 491.13.

**Possible Tabulation:**

Concrete Barrier, BA-110

Possible Contract Item: 108-18B

**REVISIONS:**

New

APPROVED BY DESIGN METHODS ENGINEER

**STANDARD ROAD PLAN**

BA-110

34" SINGLE SLOPE TO 34" F-SHAPE (HALF SECTION)