**ANCHOR BOLT DETAIL**

**DESCRIPTION:**

- Weight: 1 Lbs.
- Channels: @ 5.4 Lbs./LF

**DIMENSIONS AND QUANTITIES PER U-ENDWALL**

<table>
<thead>
<tr>
<th>Slope</th>
<th>Pipe Size</th>
<th>Quantity</th>
<th>F</th>
<th>Lbs</th>
<th>M-F</th>
<th>Lbs</th>
<th>P</th>
<th>Lbs</th>
<th>Total Weight-Lbs</th>
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<tbody>
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<td>1.6</td>
<td>3'-3&quot;</td>
<td>10</td>
<td>2.5' 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5</td>
<td>60</td>
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<td>290</td>
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</tr>
</tbody>
</table>

**SECTION AA**

**GRATE DETAIL**

- 3/4" Galvanized Anchor Bolts (4 Required)

- 2" x 1/2" Bar

**SECTION BB**

**GRATE SEAT DETAIL**

- 3/4" Galvanized Anchor Bolts (4 Required)

**ANCHOR BOLT DETAIL**

**GENERAL NOTES**

1. For use criteria see "Steel Grating Use Criteria" Index 430-011.
2. Grates shall be ASTM A36, A72, or A998, Grade 50 steel, and galvanized in accordance with Section 975 and 425-3.2 of the Standard Specifications.
3. Channel section C4 x 5.4 may be substituted for the C4 x 5.4 channel.
4. All steel reinforcing bars are #4 with 2" cover except as noted. Spacings shown are center-to-center. Laps to be 1'-5" minimum. Welded wire fabric (two cages max.) with an equivalent cross section area (0.20 sq. in.) may be substituted for bar reinforcement.
5. Drill 1/2" holes 8" deep with a rotary drill in existing endwall for dowel bars. Holes shall be thoroughly cleaned prior to installing Adhesive-Bonded Dowels.
6. Endwall to be paid for under the contract unit price for Class I Concrete (Endwalls), CY and Reinforcing Steel (Roadway), LB. Cost of Adhesive-Bonded Dowels to be included in the contract unit price for reinforcing steel. Cost of grates to be paid for under the contract unit price for Endwall Grate, LB, plan quantity. Cost of galvanized bolts and nuts to be included in the contract unit price for the grate.
7. Sod slopes 5' each side and above endwall. Sodding to be paid for under the contract unit price for Performance Turf, SY.