END VIEW AT END DIAPHRAGM

NOTES:
1. Drains shall be placed adjacent to each web at each beam end (four drains per beam). Drain Pipe shall be 2” Nominal Pipe Size, Schedule 80 PVC. Provide removable pipe plugs to prevent concrete entrance during beam casting. Plugs to be removed from the inside after casting. Galvanized screen wire shall cover the end of the pipe and bent down around the sides of the pipe, a minimum of 1” and secured prior to casting.
2. Concrete face may be sloped with a maximum 1:24 draft to facilitate formwork removal.

TOP VIEW OF END DIAPHRAGM
(Bars 3D1 And 3D2 Not Shown For Clarity)
FLORIDA-U 54 BEAM - STANDARD DETAILS

### BILL OF REINFORCING STEEL FOR ONE BEAM ONLY

<table>
<thead>
<tr>
<th>MARK</th>
<th>SIZE</th>
<th>NO. REQD.</th>
<th>LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>6</td>
<td>4</td>
<td>Dim. L - 4'</td>
</tr>
<tr>
<td>A2</td>
<td>4</td>
<td>12</td>
<td>Dim. L - 4'</td>
</tr>
<tr>
<td>B</td>
<td>5</td>
<td>12</td>
<td>4'-7&quot;</td>
</tr>
<tr>
<td>C</td>
<td>4</td>
<td>20</td>
<td>5'-3&quot;</td>
</tr>
<tr>
<td>D1</td>
<td>3</td>
<td>180</td>
<td>1'-6&quot;</td>
</tr>
<tr>
<td>D2</td>
<td>3</td>
<td>30</td>
<td>4'-6&quot;</td>
</tr>
<tr>
<td>F</td>
<td>5</td>
<td>24</td>
<td>5'-9&quot;</td>
</tr>
<tr>
<td>G</td>
<td>4</td>
<td>See Table</td>
<td>4'-9&quot;</td>
</tr>
<tr>
<td>H</td>
<td>4</td>
<td>See Table</td>
<td>4'-9&quot;</td>
</tr>
<tr>
<td>I</td>
<td>5</td>
<td>24</td>
<td>18'-2&quot;</td>
</tr>
<tr>
<td>J</td>
<td>4</td>
<td>See Table</td>
<td>3'-11&quot;</td>
</tr>
<tr>
<td>N</td>
<td>½ Ø Strand</td>
<td>2</td>
<td>Dim. L - 3'</td>
</tr>
<tr>
<td>L</td>
<td>5</td>
<td>24</td>
<td>18'-2&quot;</td>
</tr>
</tbody>
</table>

### NOTES:
1. Drains shall be placed adjacent to each web at each intermediate diaphragm (two drains per intermediate diaphragm). Drain Pipe shall be 2" Nominal Pipe Size, Schedule 80 PVC. Provide removable pipe plugs to prevent concrete entrance during beam casting. Plugs to be removed from the inside after casting.
2. Concrete face may be sloped with a maximum 1:24 draft to facilitate formwork removal.
3. Intermediate diaphragms must be cast and concrete release strength obtained prior to removing beam from casting bed.

### DESIGN STANDARDS

- Bars 4G (Typ.)
- Bars 4H (Typ.)
- Bars 4I (Typ.)
- Bars 4J (Typ.)
- Bars 4K (Typ.)
- Bars 4L (Typ.)

### SECTION D-D

- Top of Intermediate Diaphragm
- Top Flange of Beam
- Bottom Flange of Beam
- Pipe Drain

### CONVENTIONAL REINFORCING STEEL BENDING DIAGRAMS

- Bars 3D1
- Bars 5E
- Bars 6A1, 4A2 and 3D2

### Field Bend as Required for Skew

- Bars 4C
- Bars 4G
- Bars 4H

### Top View of Intermediate Diaphragm

- Bars 4G (Typ.)
- Bars 4H (Typ.)
- Bars 5K (Typ.)
- Bars 5L (Typ.)
- Bars 4M (Typ.)

### Section at Intermediate Diaphragm

- Bars 4G (Typ.)
- Bars 4H (Typ.)
- Bars 5K (Typ.)
- Bars 5L (Typ.)

### Top of Intermediate Diaphragm

- Bars 4G (Typ.)
- Bars 4H (Typ.)
- Bars 5K (Typ.)
- Bars 5L (Typ.)
- Bars 4M (Typ.)

### Diagram

- Bars 3D1
- Bars 5E
- Bars 6A1, 4A2 and 3D2

### Field Bend as Required for Skew

- Bars 4C
- Bars 4G
- Bars 4H