TEMPORARY BLOCKING OF BEAM ENDS

TYPICAL STRAND BLOCKOUT DETAIL

BEAM NOTES
1. All bar dimensions are out-to-out.
2. Strands # (Girder Strands) shall be either ASTM A416, Grade 250 or Grade 275, seven-wire strands 0.060 or larger, stressed to 10,000 lbs. each.
3. Unless otherwise noted in Structures Plans, the minimum concrete cover for reinforcing steel/sheath shall be 2".
4. At the option of the Contractor and with the Engineer’s Approval, deformed welded wire reinforcement may be used in lieu of bars #4, #6, #8, #10, #12, #16, #20, or #24 and #3/4" and less. Reinforcing bars shall be placed parallel to the top flange of the beam, spaced on 3'-0" centers. The remaining bars #4 and #5 shall be spaced on 3'-0" centers. The remaining bars #4 and #5 shall be placed parallel to the top flange of the beam, spaced on 3'-0" centers. The remaining bars #4 and #5 shall be placed parallel to the top flange of the beam, spaced on 3'-0" centers. The remaining bars #4 and #5 shall be placed parallel to the top flange of the beam, spaced on 3'-0" centers. The remaining bars #4 and #5 shall be placed parallel to the top flange of the beam, spaced on 3'-0" centers.
5. Steel wire reinforcement shall conform to ASTM A490.
6. For beams with vertically banded end conditions when "G/M" exceeds 1", the bar 6G and the first bar 4G shall be placed parallel to the top flange of the beam. The remaining bars 4G and 5G shall be placed parallel to the top flange of the beam.
7. Welded deformed wire reinforcement shall be placed parallel to the top flange of the beam. The remaining bars 4G and 5G shall be placed parallel to the top flange of the beam.
8. Bars 6G shall be placed and tied to the fully bonded strands in the bottom row (per "STRAIN PATTERN" in Structures Plans).
9. Strand Protection at beam ends shall consist of a 2" deep recess formed around all strands (including vertical or strand groups). Extend recess to face of web and bottom of flange for bottom row of strands. After detensioning, cut strands at 2" from recessed surface and tie the recess with 1/2" Type F-2 or 1/2" Epoxy Compound in accordance with Section 926 of the Specifications.
10. The Contractor shall use the Contractor’s own modified aggregate.
11. Stay-in-Place metal deck forms shall be used inside the beams.
12. The Contractor shall evaluate the need for temporary bracing between U Beams.
13. For referenced Dimensions, Angles and Case Numbers see Table of Beam Variables in Structures Plans.

INSTRUCTIONS TO DESIGNER:
To limit vertical or splitting forces in the ends of beams, the maximum prestressing force of beam ends from fully bonded strands must be limited to the following:

<table>
<thead>
<tr>
<th>Beam Type</th>
<th>Strands</th>
<th>Prestressing Force</th>
</tr>
</thead>
<tbody>
<tr>
<td>Florida U60 &amp; U54</td>
<td>2750 Kips</td>
<td>20478 &amp; 20474</td>
</tr>
<tr>
<td>Florida U63 &amp; U72</td>
<td>5070 Kips</td>
<td>20265 &amp; 20272</td>
</tr>
</tbody>
</table>

No losses shall be applied when calculating the Bonded Prestressing Force. The reinforcing in the ends of the beams must not be modified without the approval of the State Structures Design Engineer.

NOTE: Work this Index with Florida U Beam - Table of Beam Variables in Structures Plans.