**Beam Notes**

1. Work this Index with the Florida-U Beam Standard Details (Index 450-248, 450-254, 450-263 and 450-272) and the Table of Beam Variables in Structures Plans.
2. All bar bend dimensions are out-to-out.
3. Concrete cover: 2 inches minimum. Maximum aggregate size is a No. 67.
4. Concrete face may be sloped with a maximum 1:24 draft to facilitate formwork removal.
5. Strands: ⅜" Ø minimum, stressed to 10,000 lbs. each.
6. Tie bars 5K in the fully bonded strands in the bottom row (see "Strand Pattern" on the Table of Beam Variables sheet in Structures Plans).
7. For beams without skewed ends or vertically beveled end conditions (see Note B) the Engineer may approve the use of deformed WRH or other required embedded hardware.
8. Embedment of Safety Line Anchorages are permitted in the top flange to accommodate fall protection systems. See shop drawings for details and spacing of any anchorage devices or other required embedded hardware.
9. Intermediate diaphragms must be cast and concrete release strength obtained prior to removing the beam from casting bed.

10. **Intermediate diaphragms** must be cast and concrete release strength obtained prior to removing the beam from casting bed.

11. Place drains pipes adjacent to every web at each beam end (four drains per beam).
   A. Drain Pipe: 2" NPS Schedule 80 PVC.
   B. Cover and secure wire screen around the end of the pipe prior to casting. Extend screen a minimum of 1" down the pipe sides.
   C. Provide removable pipe plugs during casting. Remove plugs from the inside of pipes after casting.

12. Protection of Strands:
   A. Provide a 2" deep recess around all strands (including dormant) or strand groups. Extend the recessed blockout to the web face and bottom of the flange for the bottom row of strands.
   B. After detensioning, cut strands ½" from recessed surface and fill the blockout to accommodate fall protection systems. See shop drawings for details and spacing of any anchorage devices or other required embedded hardware.

13. Use Stay-In-Place metal deck forms inside the beams.

14. Prior to deck placement, provide temporary blocking under each web at both ends of every beam. Ensure the temporary blocking is adequate to resist movements and rotations during deck placement. Leave temporary blocking in place for a minimum of 10 days after the deck is placed.

15. Based on the deck forming system and deck placement sequence, evaluate and provide any required temporary bracing between the beams.

**Beam Details**

**CASE 1**

**CASE 2**

**CASE 3**

**Schematic Plan Views at Beam Ends**
**TYPICAL STRAND BLOCKOUT DETAIL**

**TEMPORARY BLOCKING OF BEAM ENDS**

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**CONDITION 1**

\( \theta = 0.0 \)

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**CONDITION 2**

**CONDITION 3**

**SCHEMATIC END ELEVATIONS OF BEAMS**

(Showing Vertical Bevel of Beam End)

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**TYPICAL STRAND BLOCKOUT DETAIL**

**TEMPORARY BLOCKING OF BEAM ENDS**

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**Trim Strands after Detensioning**

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**FLORIDA-U BEAM - TYPICAL DETAILS & NOTES**

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**LAST REVISION**

**INDEX**

**SHEET**

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**DESCRIPTION:**

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**REVISION:**

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**SAE 2019-20 STANDARD PLANS**

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**FLORIDA-U BEAM**

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**INDEX**

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**SHEET**

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