BEAM NOTES

1. All bar dimensions are out-to-out.
2. Place one (1) Bar SK or SZ at each location as detailed alternating the direction of the ends for each bar (see "ELEVATION AT END OF BEAM", Index Nos. 20036, 20045, 20054, 20063, 20072 and 20078).
3. Strands N shall be either ASTM A416, Grade 250 or Grade 270, seven-wire strands with a minimum 8 ksi.
4. Cut wedge to recess Prestressing Strands at the end of the beam after detensioning without damaging the surrounding concrete. See "STRAND RECESS DETAIL" on Sheet 2.
5. Epoxy coat ends of beams, including clipped and chamfer surfaces, with two layers of Type F-1 epoxy compound within 7 days of detensioning. Prepare concrete surface and apply in accordance with the manufacturer's recommendations. The finish thickness of the epoxy coating must be a minimum 16 mils.
6. Unless otherwise noted, the minimum concrete cover for reinforcing steel shall be 2".
7. At the Contractor's option, welded deformed wire reinforcement may be used in lieu of Bars 3D, 5K, 4M, and 5Z as shown on the Standard Details for each beam size. Welded deformed wire reinforcement shall conform to AASHTO M221, with a minimum yield strength of 75 ksi.
8. Install Safety Sleeves approximately 2'-0" from ends of beam and spaced on 8'-0" (Max.) centers. Safety Sleeves shall be 2" IPS x 5" Sch. 40 PVC Pipe with Cap. Holes shall be free of debris and water prior to casting deck.
9. For beams with skewed end conditions, the end reinforcement, defined as Bars 3C1, 3C2, 3D1, 3D2, 5K, 4M, 4M1, 4M2, 5Y, and 5Z placed within the limits of the spacing for Bars 3C in "ELEVATION AT END OF BEAM", shall be parallel to the skewed end of the beam. Bars 3D3, 5K, and 4M located beyond the limits of Bars 3C shall be placed perpendicular to the longitudinal axis of the beam. Fan Bars as needed to avoid overlapping bars at the transition to Bars 3D3 and 4M3, and field cut to maintain minimum cover. Provide additional Bars 4M1, 4M2, 3D1, 3D2 and 3D3 as required; additional bars are not included in the number required on the "BILL OF REINFORCING STEEL". For placement locations, see "SCHEMATIC BEAM END DETAILS".
10. Placement of Bars 3C1, 3D1 and 4M1 correspond to END 1, and Bars 3C2, 3D2 and 4M2 correspond to END 2. END 1 and END 2 are shown on the beam "ELEVATION".
11. For beams with vertically beveled end conditions, place first row of Bars 3C1, 3C2, 3D1, 3D2, 5K, 5Y and 5Z parallel to the end of the beam. Progressively rotate remaining bars within the limits of Bars 5Z until vertical by adjusting the spacing at the top of beam up to a maximum of 1". For welded deformed wire reinforcement, cut top cross wire and rotate bars as required or reduce end cover at top of the beam where necessary.
12. For beams with skewed end conditions, welded deformed wire reinforcement shall not be used for end reinforcement (Bars 3D1, 3D2, 4M1 and 4M2).
13. Bars SK and SZ shall be placed and tied to the fully bonded strands in the bottom or center row (See "STRAND PATTERN" on the Table of Beam Variables in Structures Plans). At the Contractor's option the length of the bolt legs of Bars SK and SZ may be extended to facilitate tying to the exterior strands. For welded deformed wire reinforcement, supplemental transverse #4 bars are permitted to support pieces K & S under the cross wires on the bottom row of strands.
14. At the Contractor's option Bars 301, 302 and 303 may be fabricated as a single bar with a 1'-0" minimum lap splice of the top legs, or the length of the bottom legs may be extended to facilitate tying to the exterior strands.
15. For referenced Dimensions, Angles and Case Numbers, see the Table of Beam Variables in Structures Plans.

SCHEMATIC PLAN VIEWS AT BEAM ENDS

SCHEMATIC END ELEVATIONS OF BEAMS
(Showing Vertical Bevel of Beam End)
**NEW DESIGN STANDARD**

When Intermediate Diaphragms are Required by Design

**DATE**
01/01/10

**BY**
SJN

**DESCRIPTION**
New Design Standard

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**DATE**
01/01/11

**BY**
GJM

**DESCRIPTION**
Changed Strand Recess Detail

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**DATE**
07/01/10

**DESCRIPTION**
Changed first sentence of INSERT NOTE 3.

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**DATE**
01/01/11

**DESCRIPTION**
Added RECESSED STRAND GROMMET DETAIL AT BEAMS ENDS.

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**DATE**
01/01/11

**DESCRIPTION**
Changed STRAND RECESS DETAIL.

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**REVISIONS**

2010 Interim Design Standard

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**TYPICAL FLORIDA-I BEAM DETAILS AND NOTES**

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**PAGE 2 OF 2**

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