SCHEMATIC PLAN VIEWS AT BEAM ENDS

SCHEMATIC END ELEVATIONS OF BEAMS
(Showing Vertical Bevel of Beam End)

BEAM NOTES
1. Work this Index with the Florida-I Beam Standard Details (Index 20036, 20045, 20054, 20063, 20072, 20078, 20084 and 20096) and the Table of Beam Variables in Structures Plans.
2. All bar bend dimensions are out-to-out.
3. Concrete cover: 2 inches minimum.
4. Strands: Φ minimum, stressed to 10,000 lbs. each.
5. Place one (1) Bar 3K or 3Z at each location. Alternate the direction of the ends for each bar. See "ELEVATION AT END OF BEAM" in Standard Details.
6. Tie Bars 3K and 3Z to the fully bonded strands in the bottom or center row (see "STRAND PATTERN" on the Table of Beam Variables sheet in Structures Plans).
7. Place Bars 3C1, 3D1 and 4M1 in beam END 1, and Bars 3C2, 3D2 and 4M2 in beam END 2. END 1 and END 2 are shown on the Standard Details "ELEVATION".
8. For Beams with vertically beveled end conditions: Place one (1) Bar 3C1, 3C2, 3D1, 3D2, 5K, 5Z 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 deformed WWR, cut top cross wire and rotate bars as required or reduce end cover at top of the beam to 1" minimum.
9. For beams with skewed end conditions:
   a. Place envelopes of reinforcement parallel to the skewed end of the beam. End reinforcement is defined as Bars 3C1, 3C2, 3D1, 3D2, 5K, 5Z and 5Z placed within the limits of the spacing for Bars 3C in "ELEVATION AT END OF BEAM".
   b. Beyond the limits of the spacing for Bars 3C, place Bars 3D3, 5K and 4M3 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, 4M3, 3D1 and 3D2 as required; additional bars are not included in the "BILL OF REINFORCING STEEL". For placement locations see the "SKewed Beam End Details for Widening Existing Bridges"...

10. Contractor Options:
   a. Deformed WWR may be used in lieu of Bars 3C1, 3C2, 3D1, 3D2, 5K, 5Z and 5Z as shown on the Standard Details except at skewed ends (see Note 9).
   b. Bars 3D3, 5K and 3D3 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.

11. Embedment of Safety Line Anchorage Devices are permitted at bottom of the beam, or the length of the bottom legs may be extended to facilitate tying to the exterior strands.

12. For beams with ends that will not be permanently encased in concrete diaphragms, cut wedges and recess prestressing strands at the end of the beam without damaging the surrounding concrete. See "STRAND CUTTING AND PROTECTING DETAIL" on Sheet 2. Protect end of wedged recessed strands in accordance with Specification Section 450.
Bar Size 5K spaced perpendicular to end of beam @ 3/8".
Skewed Bars 5Z, 4M1 or 4M2 placed with Bars 5K *

Bars 5Z (shown dotted, Typ.)
Bars 3D1 or 3D2 (Pairs)
Bars 3C1 or 3C2

WWR not permitted for Bars 4M1 or 4M2 (shown dashed) Begin WWR Option when applicable, Pieces 0-3 & 5-1, see Sheet 2 of Index 20036 thru 20096

WWR not permitted for Bars 3D1 or 3D2 in this area, for skewed beam ends

Bars 3C1 or 3C2
Bars 5K (Typ.)
Bars 3D1 or 3D2 (Pairs)

PARTIAL PLAN VIEW (SHOWING TOP FLANGE)
(End 1 Shown, End 2 Similar)
Bars 5A, 5Y & Strands N not shown for clarity

6" Chamfer

Bars 5Z (shown dotted, Typ.)
Bars 3D1 or 3D2
Bars 3C1 or 3C2

WWR not permitted for Bars 4M1 or 4M2

1 - Additional Bar 4M1 or 4M2 (shown dashed)

Begin WWR Option when applicable, Pieces 0-3 & 5-1, see Sheet 2 of Index 20036 thru 20096

PARTIAL SECTION THRU WEB (SHOWING BOTTOM FLANGE)
(End 1 Shown, End 2 Similar)
(Bars 5Y, Strands, and Embedded Bearing Plate "A" not shown for clarity)

Strand Cutting and Protecting Detail

Epoxy Coating (1/2" minimum thickness) (See Note 12, Sheet 1)

Typical Section Showing Cut Strand Recess Limits

Typical Section After Protecting

INDEX NO. SHEET NO. 20010 2 of 2