**ALTERNATE REINFORCING STEEL (WWR) DETAILS**

**PLAN VIEW**

**PIECE M-1** (2 Required)

Match spacing of adjacent Piece S-1, S-2, S-3 or S-4

9 = D25's (BF) @ 6" = 4'-0"

5 = D31's @ 3'/4" sp. = 1'-2"

Piece M-1 ties to Piece K-2

**PIECE K-1** (Aligned EF) (4 Required ~ 2 Pairs)

Piece D-1 ties to Piece K-1

W12.4 (Piece K-1)

W10 (Pieces K-2 & S)

D31 (Piece K-3)

D25 (Pieces K-2 & S)

W12.4 (Piece K-1)

W10 (Pieces K-2 & S)

**PLAN VIEW**

**PIECE M-3** (2 Required)

Varies 1'-6" Max.

9 = D11's @ 6" sp. = 4'-0"

Optional W6.4

**PIECE K-2** (FF Shown Solid, BF Shown Dashed) (4 Required)

6" (Typ.)

3' Offset (Typ.)

**PIECE S-1, S-2, S-3 or S-4** (2 Required Each Piece)

S1 ~ D25's @ V1 sp. (Piece S-1 shown)

S2 ~ D25's @ 9" sp. (Piece S-2)

S3 ~ D25's @ 1'-0" sp. (Piece S-3)

S4 ~ D25's @ 1'-6" sp. (Piece S-4)

Varies 9" Max.

END OF BEAM 5 ~ D11's @ 3'/0" sp. = 1'-2"

End of Beam

Wires D31 (shown as (    ) Typ.)

Wires D31 (shown as (    ) Typ.)

SECTION A-A

FOR WELDED WIRE REINFORCEMENT

**PIECES M** (2 Required)

**PIECE M-3**

2 Cover (Typ.)

Wires 3/4" Cover

**PIECES M** (2 Required)

**PIECE M-1**

Wires 2 1/2" Cover

Bars 5Y (12 Required) (shown as (    ) Typ.)

Wires D31 (shown as (    ) Typ.)

**PARTIAL BEAM END VIEW** (Conventional Reinforcing Bars A, C, Y and Strands not shown for Clarity)

**NOTES:**

a. See Sheet 1 for placement details & Table of Beam Variables in Structures Plans for variables S1, S2, S3, S4 & V1.

b. Place Conventional Reinforcement Bars 5A & 3C as shown on Sheet 1. Place additional Bars 5Y as shown in Section A-A for WWR. Bars 5Z will not be used with the WWR Option.

c. Pieces may be fabricated in multiple length sections.

d. For beams with skewed end conditions, Pieces D-1, D-2 & M-1 shall not be used, Conventional Reinforcement Bars D1, D2, C1, C2, M1 & M2 shall be used. See Index 450-010 Skewed Beam End Details and Note 9 for placement details. Shift Pieces K & Bars 5Y to accommodate skewed end conditions and align with Bars C and D.