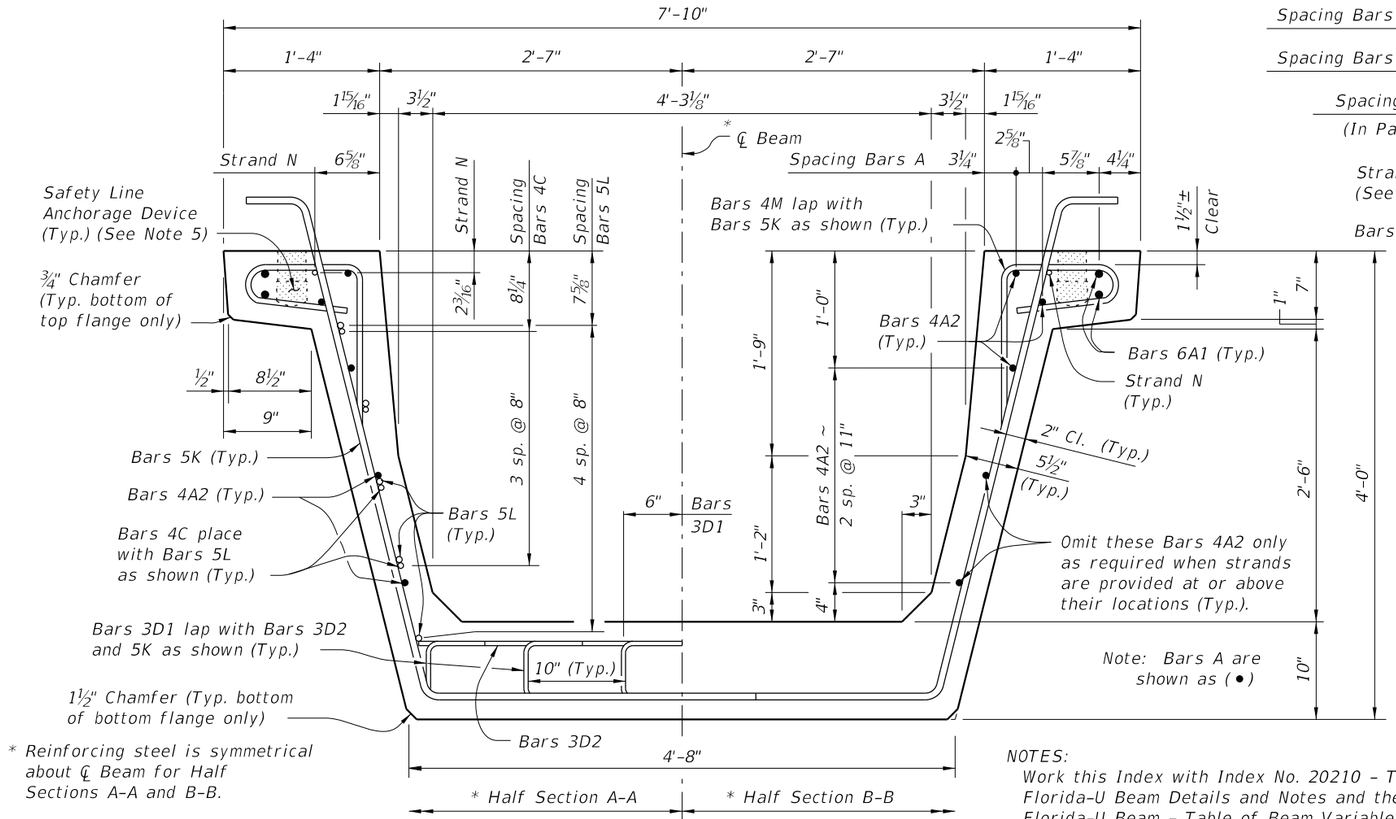


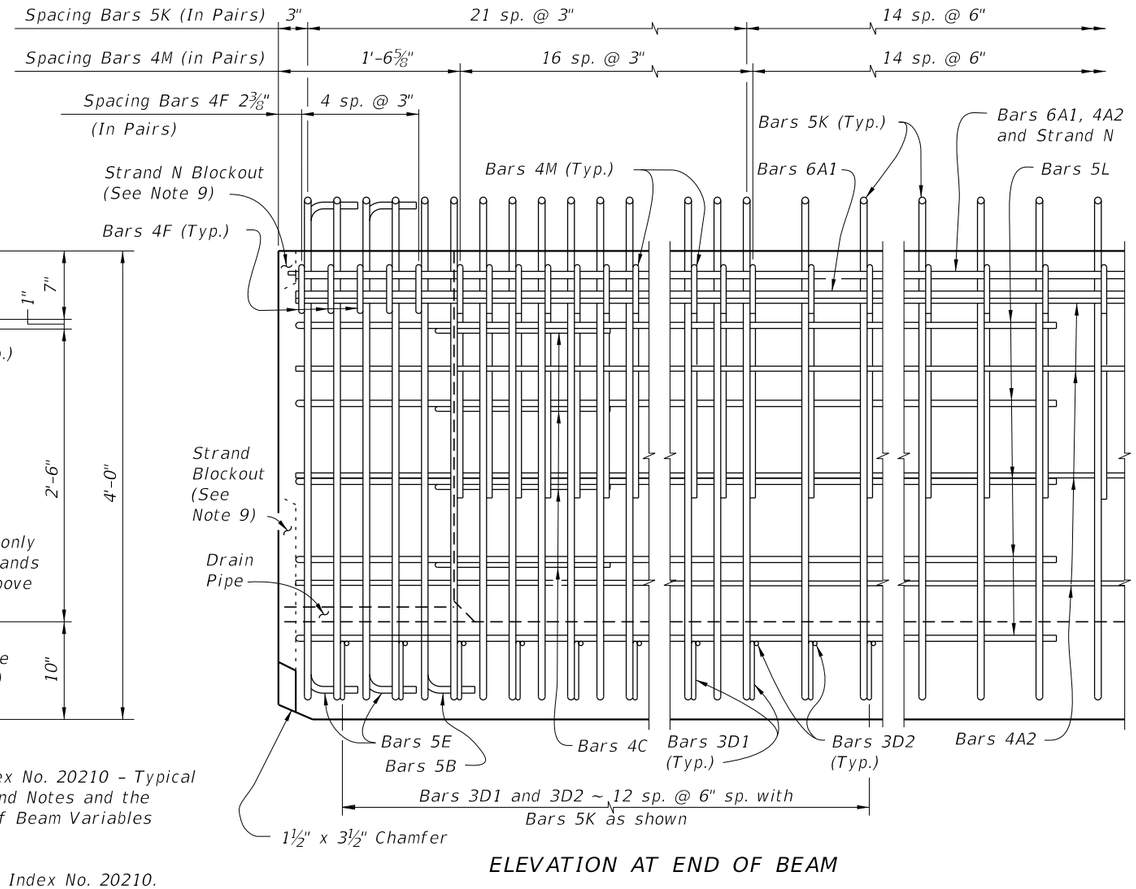
* Reinforcing steel is symmetrical about ℄ Beam for Half Sections A-A and B-B.

** Intermediate Diaphragms shall be provided:
(1) – At midspan.
(2) – At 20'-0" Max. from midspan when beam length (L) exceeds 60 Ft.

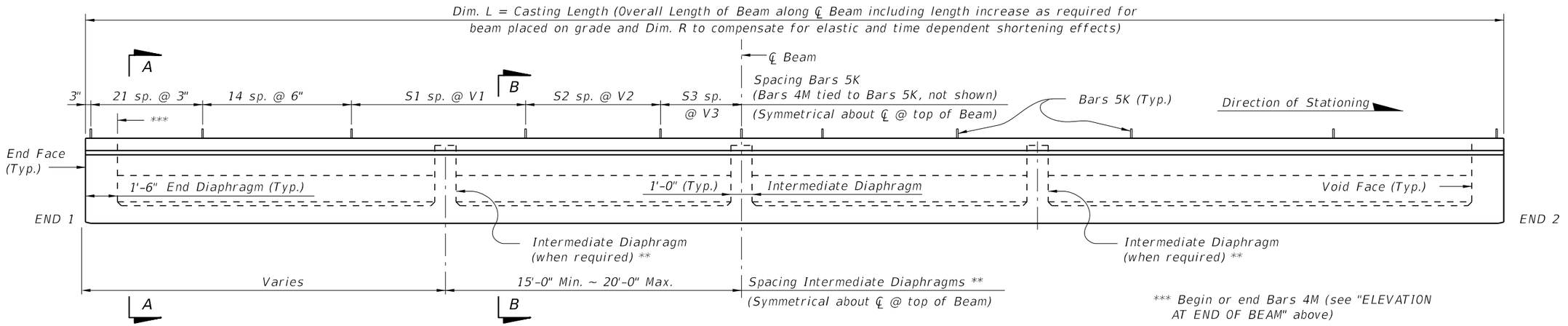
TYPICAL SECTION

NOTES:
Work this Index with Index No. 20210 – Typical Florida-U Beam Details and Notes and the Florida-U Beam – Table of Beam Variables in Structures Plans.

For referenced notes see Index No. 20210.



ELEVATION AT END OF BEAM



*** Begin or end Bars 4M (see "ELEVATION AT END OF BEAM" above)

ELEVATION

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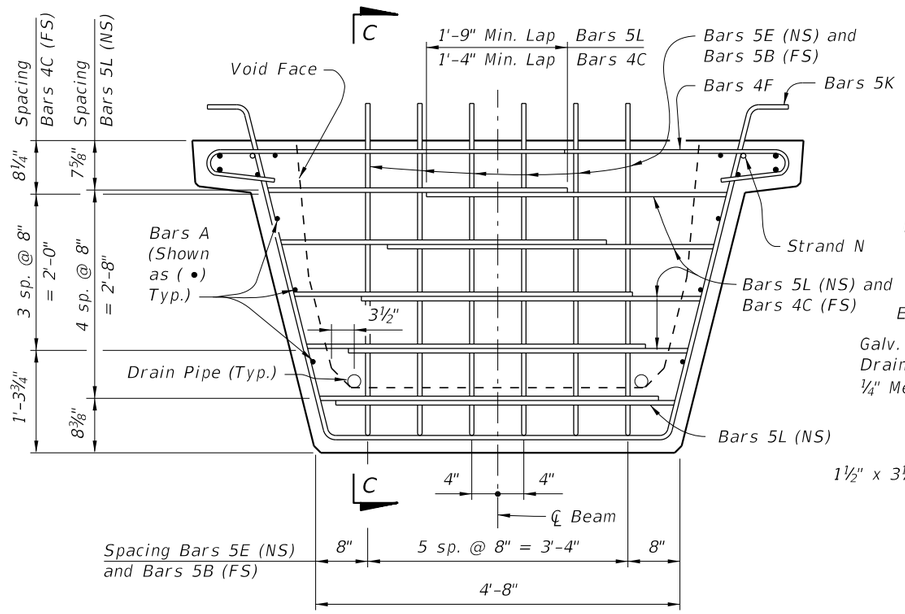
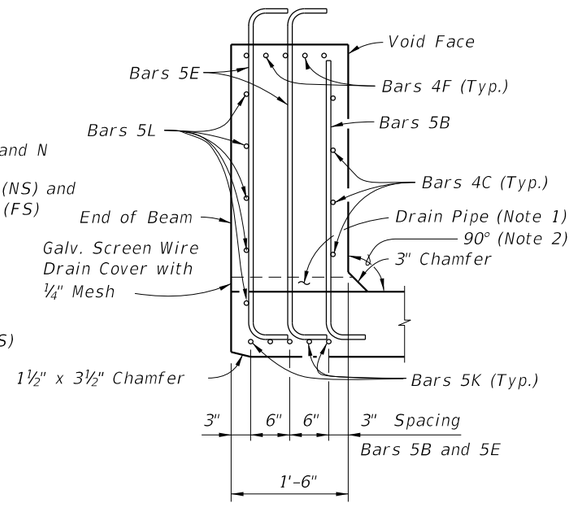
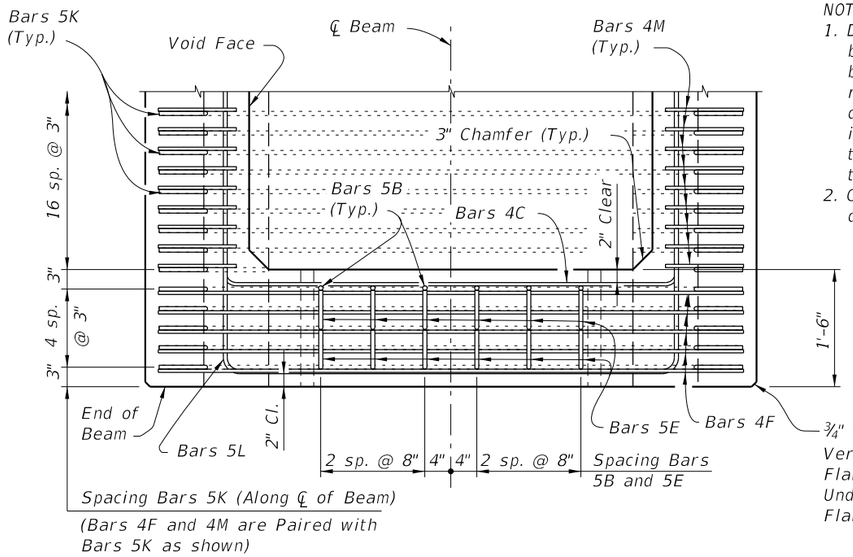


END VIEW AT END DIAPHRAGM



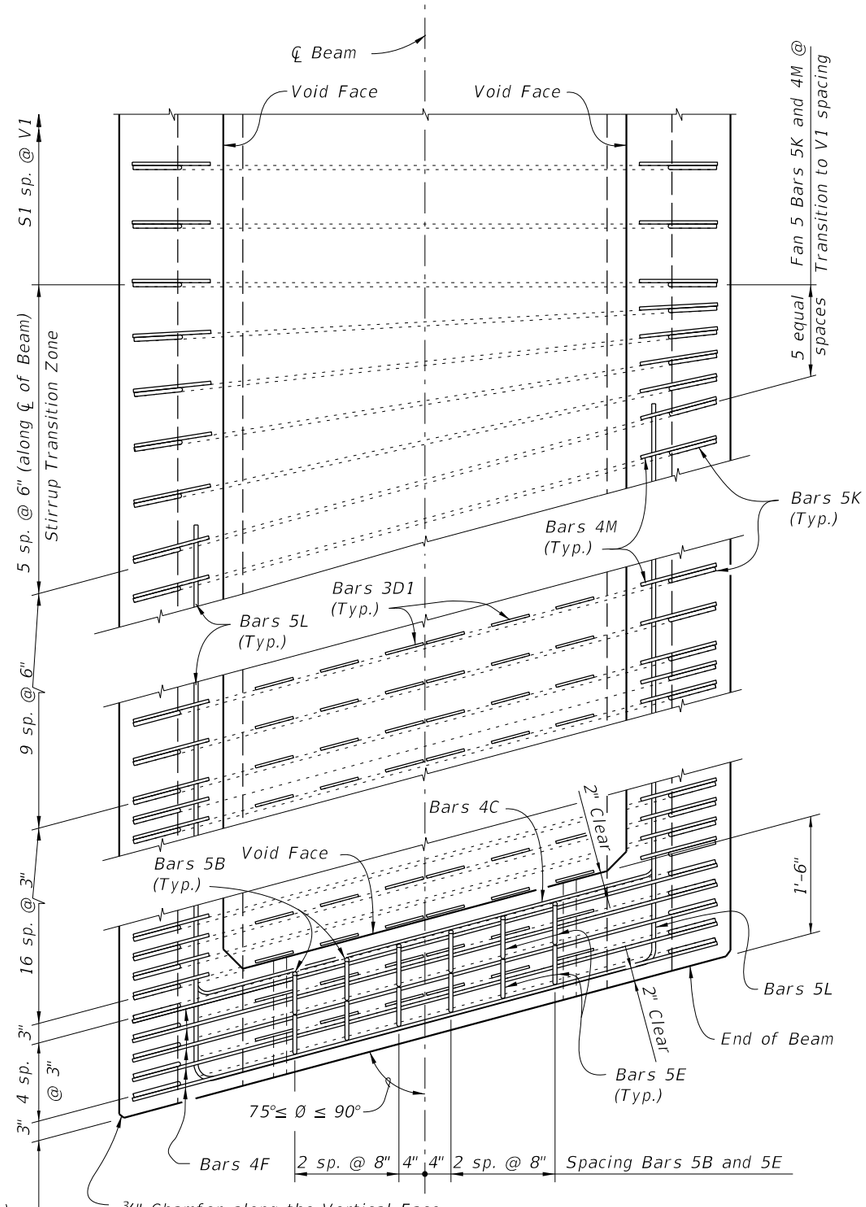
SECTION C-C

NOTES:
1. Drains shall be placed adjacent to each web at each beam end (four drains per beam). Drain Pipe shall be 2" Nominal Pipe Size, Schedule 80 PVC. Provide removable pipe plugs to prevent concrete entrance during beam casting. Plugs to be removed from the inside after casting. Galvanized screen wire shall cover the end of the pipe and bent down around the sides of the pipe, a minimum of 1" and secured prior to casting.
2. Concrete face may be sloped with a maximum 1:24 draft to facilitate formwork removal.



TOP VIEW OF END DIAPHRAGM
(Bars 3D1 And 3D2 Not Shown For Clarity)

¾" Chamfer along the Vertical Face of the Top Flange and Web and Underside of the Top Flange (Typ.)



¾" Chamfer along the Vertical Face of the Top Flange and Web and Underside of the Top Flange (Typ.)

TOP VIEW OF SKEWED END DIAPHRAGM
AND STIRRUP TRANSITION ZONE
(Bars 3D2 Not Shown For Clarity)

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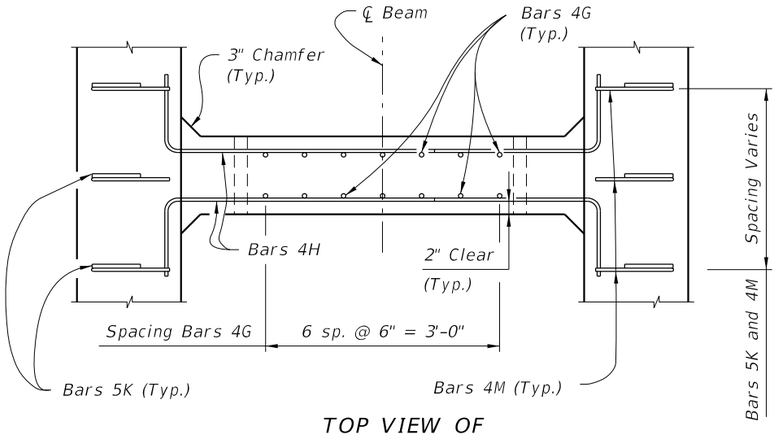
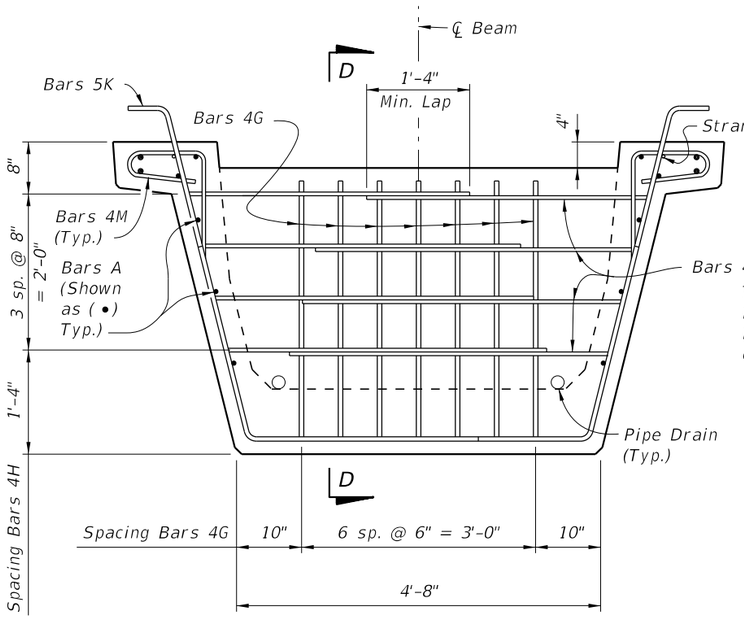
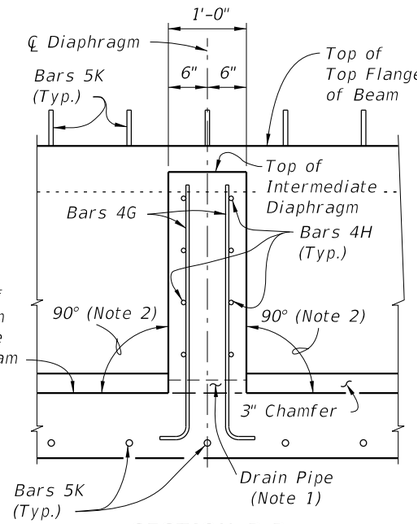


TOP VIEW OF INTERMEDIATE DIAPHRAGM



SECTION AT INTERMEDIATE DIAPHRAGM



SECTION D-D

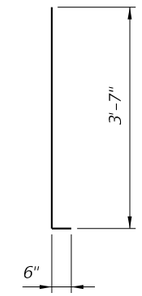
NOTES:

1. Drains shall be placed adjacent to each web at each intermediate diaphragm (two drains per intermediate diaphragm). Drain Pipe shall be 2" Nominal Pipe Size, Schedule 80 PVC. Provide removable pipe plugs to prevent concrete entrance during beam casting. Plugs to be removed from the inside after casting.
2. Concrete face may be sloped with a maximum 1:24 draft to facilitate formwork removal.
3. Intermediate diaphragms must be cast and concrete release strength obtained prior to removing beam from casting bed.

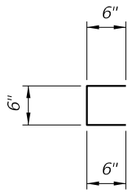
CONVENTIONAL REINFORCING STEEL BENDING DIAGRAMS

BILL OF REINFORCING STEEL FOR ONE BEAM ONLY

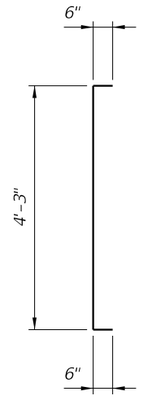
MARK	SIZE	NO. REQD.	LENGTH
A1	6	4	Dim. L – 4"
A2	4	10	Dim. L – 4"
B	5	12	4'-1"
C	4	16	5'-1"
D1	3	156	1'-6"
D2	3	26	4'-6"
E	5	24	5'-3"
F	4	20	6'-2"
G	4	See Table	4'-0"
H	4	See Table	4'-7"
K	5	See Table	8'-0"
L	5	20	14'-0"
M	4	See Table	3'-11"
N	3/8" Ø Strand	2	Dim. L – 3"



Bars 5B



Bars 3D1



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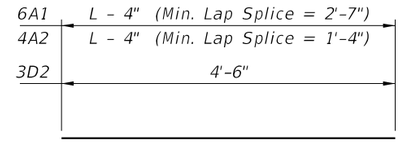
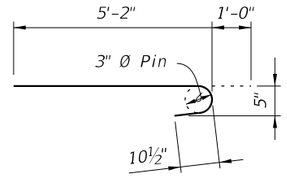
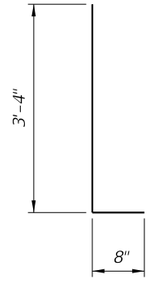


Bars 6A1, 4A2 and 3D2



Bars 4F



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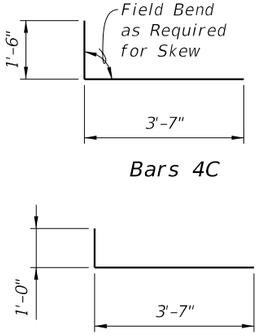
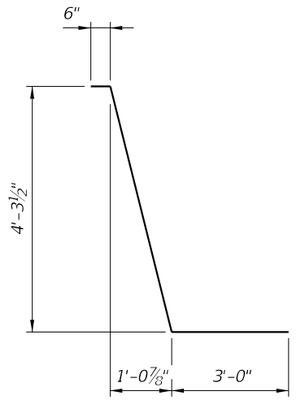


Bars 4C

Bars 4H



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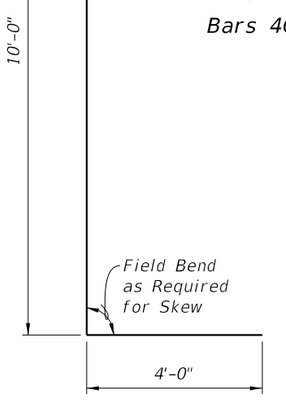

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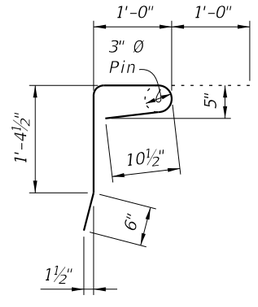

Bars 4M

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01/01/11			FY 2016-17 DESIGN STANDARDS	FLORIDA-U 48 BEAM - STANDARD DETAILS	INDEX NO. 20248 / SHEET NO. 3 of 3