

# ORIGINATION FORM

Proposed Revisions to a Standard Plans Index  
(Please provide all information – Incomplete forms will be returned)

## Contact Information:

Date: June 19, 2019  
Originator: Cheryl Hudson  
Phone: (850) 414-5332  
Email: cheryl.hudson@dot.state.fl.us

## Standard Plans:

Index Number: 450-078  
Sheet Number (s): 1  
Index Title: Florida-I 78 Beam - Standard Details

## Summary of the changes:

Deleted Intermediate Diaphragm Inserts

## Commentary / Background:

Diaphragms not required; therefore Inserts not required.

## Other Affected Offices / Documents: (Provide name of responsible personnel)

- | Yes                      | No                                  |                             |
|--------------------------|-------------------------------------|-----------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Other Standard Plans –      |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | FDOT Design Manual –        |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Basis of Estimates Manual – |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Standard Specifications –   |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Approved Product List –     |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Construction –              |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Maintenance –               |

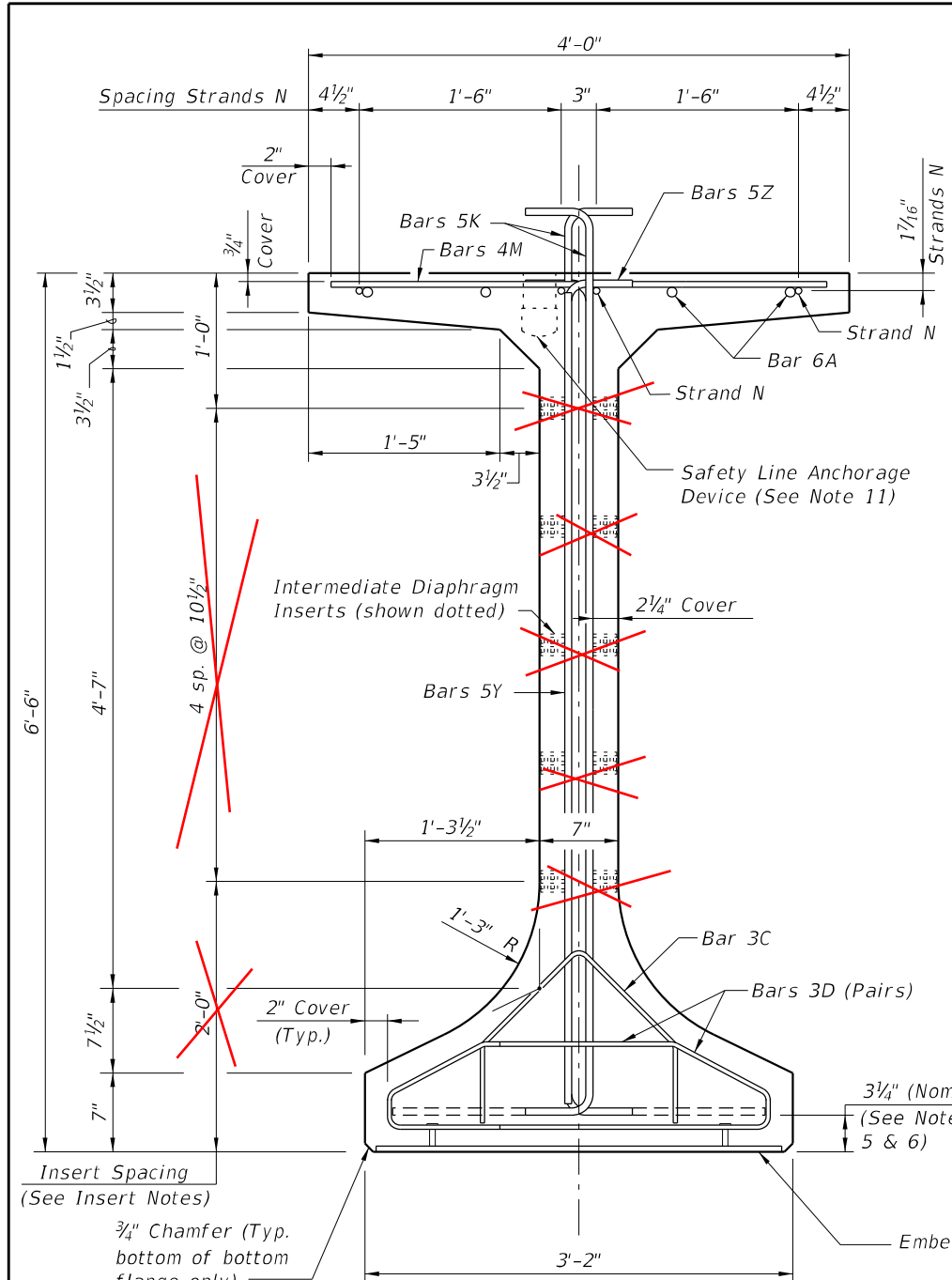
## Origination Package Includes: (Email or hand deliver package to Derwood Sheppard)

- | Yes                      | N/A                                 |   |
|--------------------------|-------------------------------------|---|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Redline Mark-ups                          |
| <input type="checkbox"/> | <input type="checkbox"/>            | Proposed Standard Plan Instructions (SPI) |
| <input type="checkbox"/> | <input type="checkbox"/>            | Revised SPI                               |
| <input type="checkbox"/> | <input type="checkbox"/>            | Other Support Documents                   |

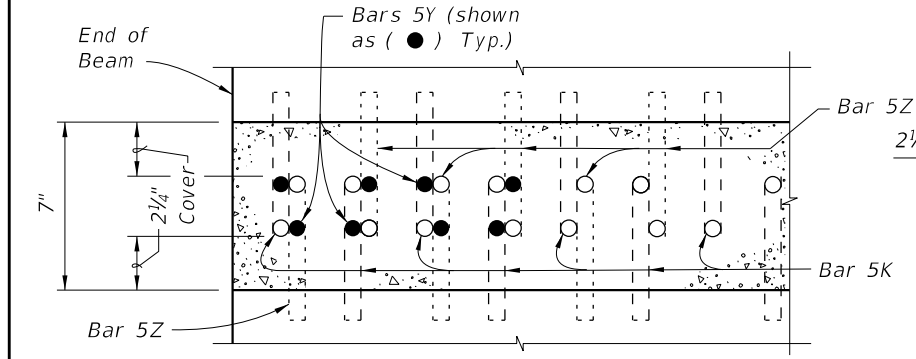
## Implementation:

- Design Bulletin (Interim)    DCE Memo    Program Mgmt. Bulletin    FY-Standard Plans (Next Release)

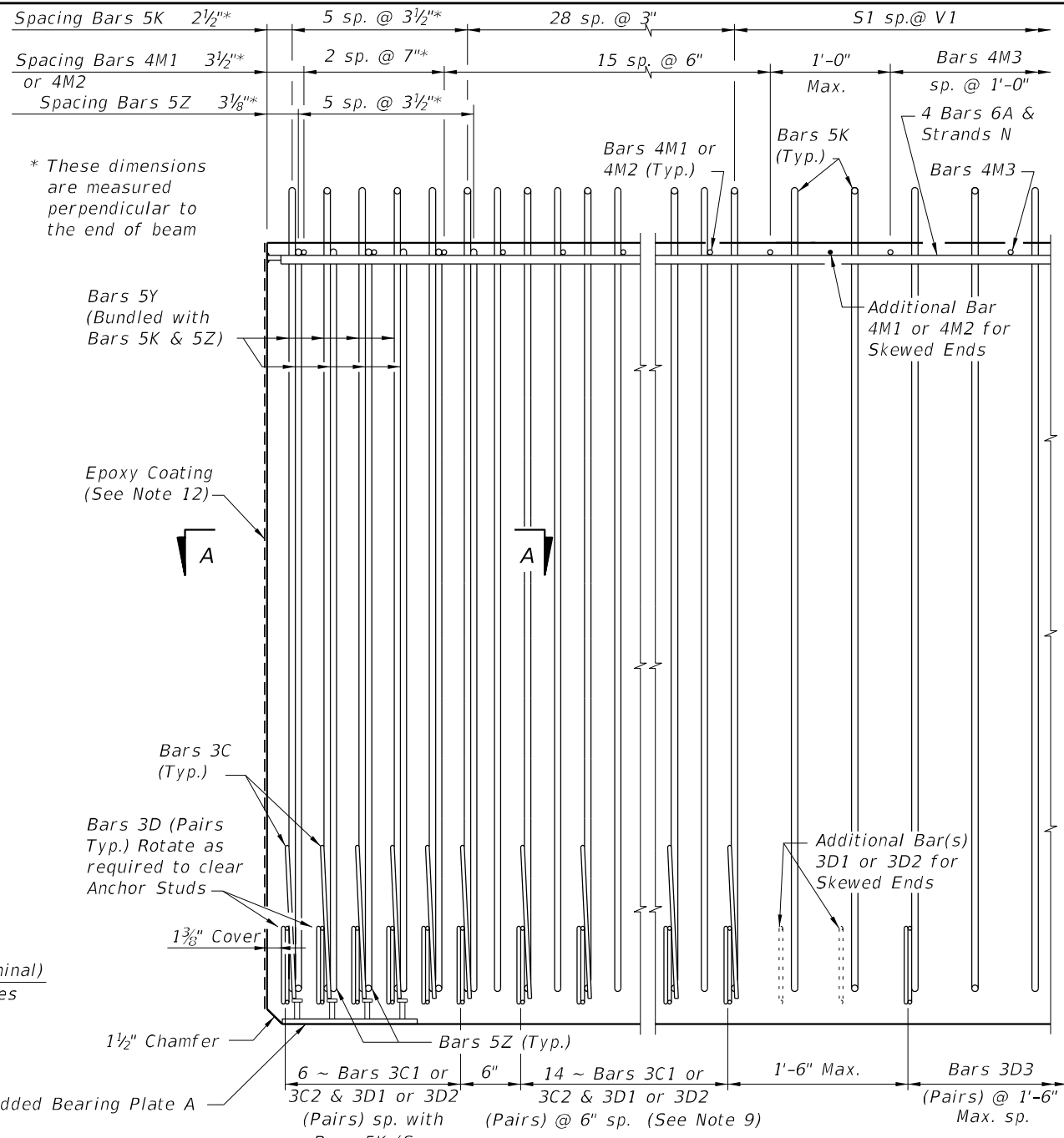
Contact the Roadway Design Office for assistance in completing this form



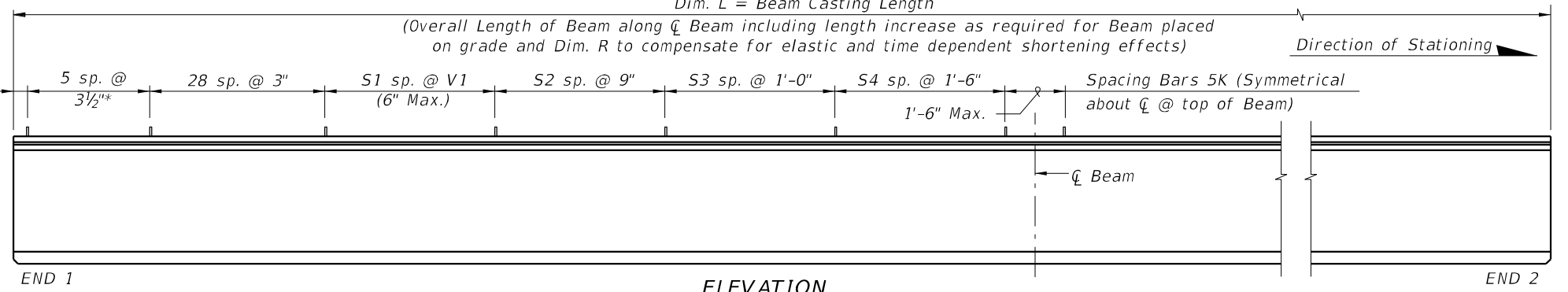
END VIEW



SECTION A-A FOR CONVENTIONAL REINFORCING (Showing Bars 5K, 5Y & 5Z Only)



ELEVATION AT END OF BEAM (Flanges Not Shown For Clarity) (End 1 Shown, End 2 Similar)



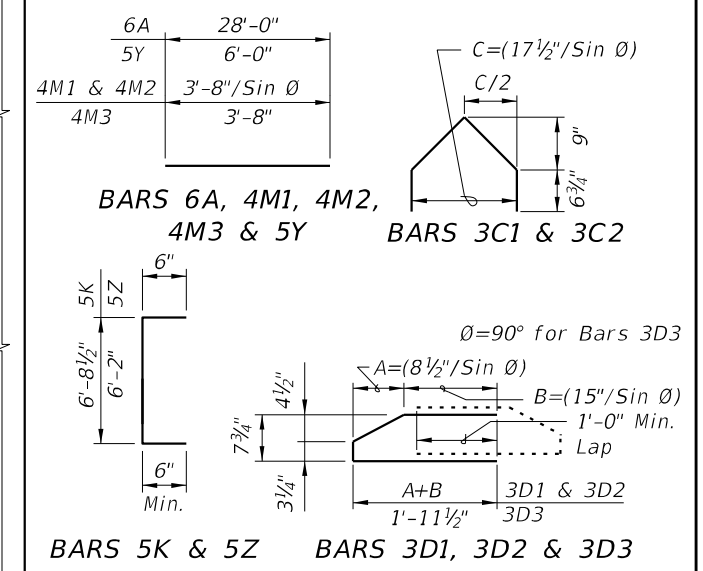
ELEVATION

CONVENTIONAL REINFORCING BAR BENDING DETAILS

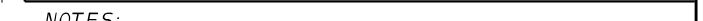
BILL OF REINFORCING STEEL

MARK	NOTE NUMBERS	SIZE	NUMBER REQUIRED	LENGTH (NOTE 2)
A	—	6	8	28'-0"
C1	7, 8 & 9	3	20 (End 1)	Varies
C2	7, 8 & 9	3	20 (End 2)	Varies
D1	7, 8, 9 & 10	3	40 (End 1)	Varies
D2	7, 8, 9 & 10	3	40 (End 2)	Varies
D3	9 & 10	3	See Table	4'-3"
K	5, 6, 8, 9 & 10	5	See Table	7'-8"
M1	7 & 9	4	18 (End 1)	Varies
M2	7 & 9	4	18 (End 2)	Varies
M3	9	4	See Table	3'-8"
N	4 & 12	3/8" Ø Strand	4	Dim. L
Y	8 & 9	5	16	6'-0"
Z	5, 6, 8, 9 & 10	5	12	7'-2"

BENDING DIAGRAMS (See Note 2)



BARS 6A, 4M1, 4M2, 4M3 & 5Y BARS 3C1 & 3C2

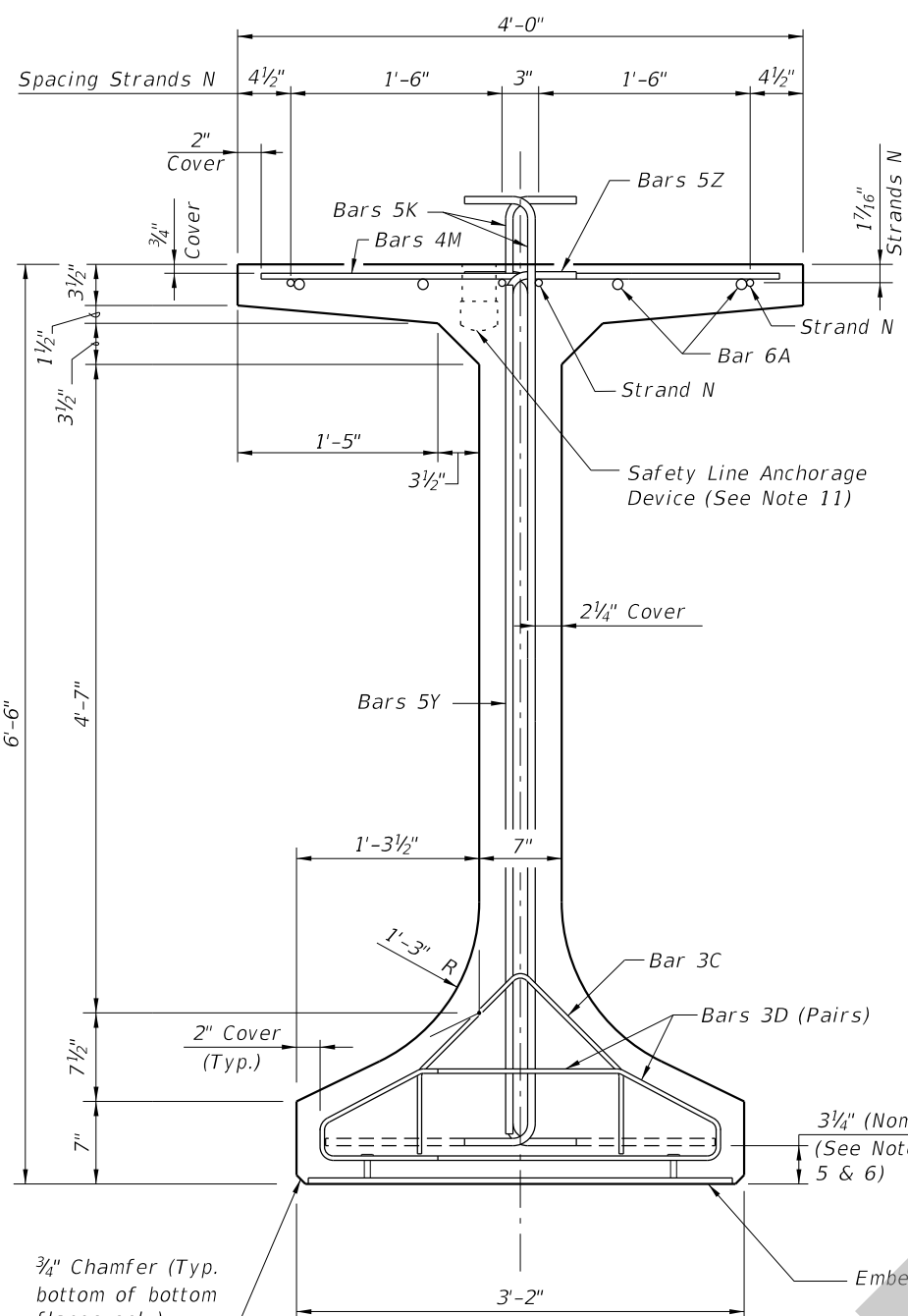


BARS 5K & 5Z BARS 3D1, 3D2 & 3D3

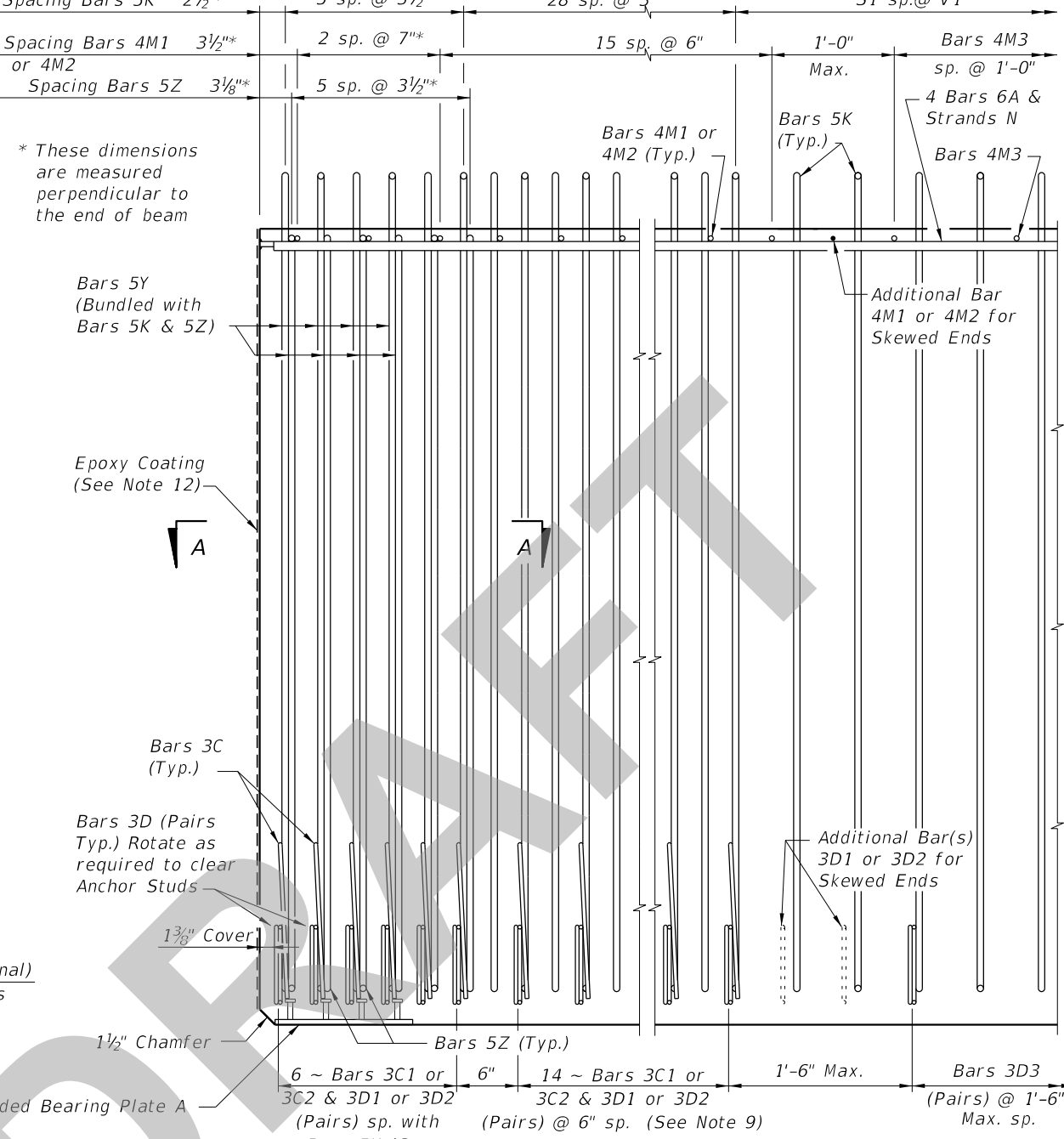
- NOTES:
- A. Work this Index with Index 450-010 - Typical Florida-I Beam Details and Notes and the Florida-I Beam - Table of Beam Variables in Structures Plans.
  - B. For referenced notes, see Index 450-010.
  - C. For Dimensions A, B, C, D, L, R & V1 and number of spaces S1 thru S4, see Florida-I Beam - Table of Beam Variables in Structures Plans.

10/23/2018 12:25:39 PM

LAST REVISION	DESCRIPTION:
11/01/18	19



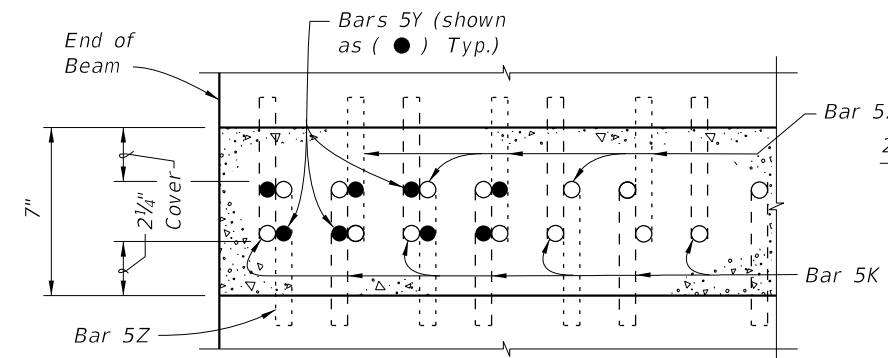
END VIEW



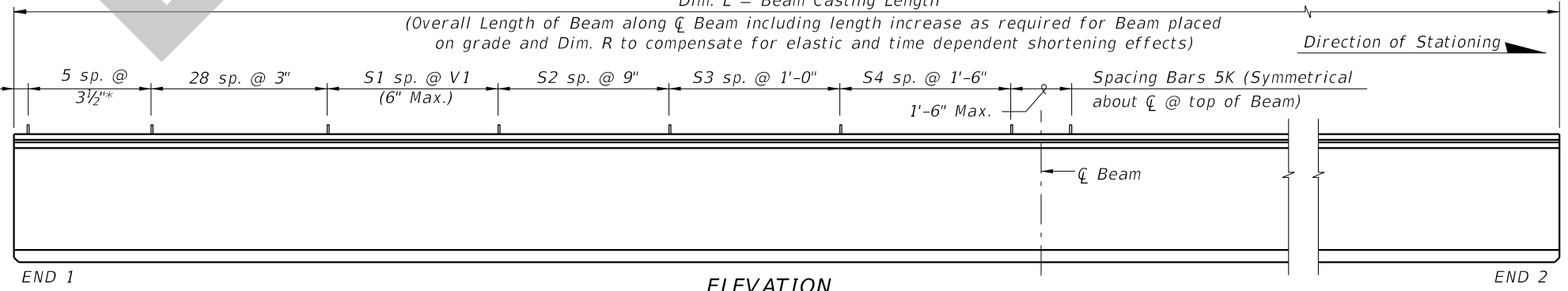
ELEVATION AT END OF BEAM  
(Flanges Not Shown For Clarity)  
(End 1 Shown, End 2 Similar)

Dim. L = Beam Casting Length

(Overall Length of Beam along  $\bar{C}$  Beam including length increase as required for Beam placed on grade and Dim. R to compensate for elastic and time dependent shortening effects)



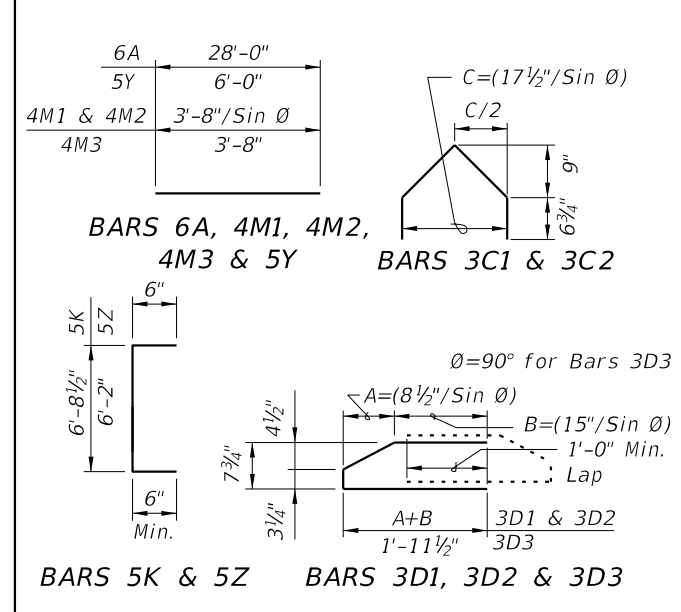
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(Showing Bars 5K, 5Y & 5Z Only)



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BAR BENDING DETAILS

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SDATES

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11/01/19	