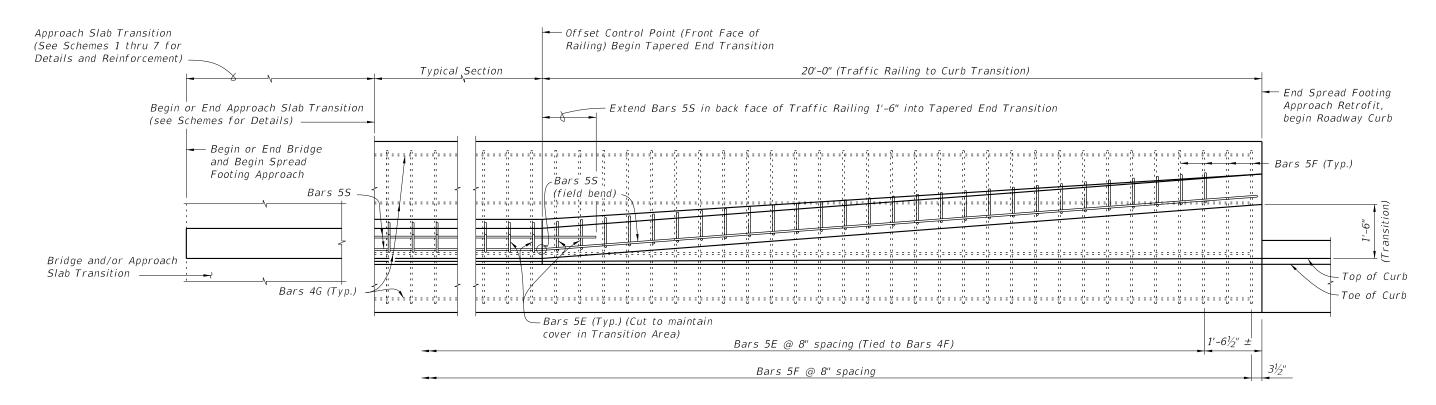


CROSS REFERENCES:

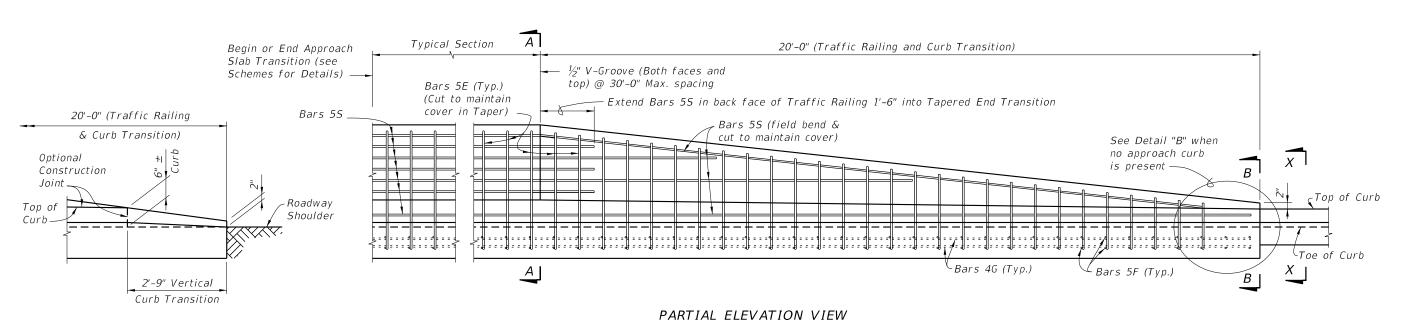
For General Notes, Dowel Details, Expansion Dowel Details, Reinforcing Steel Notes and Reinforcing Steel Bending Diagram see Index 521-480.

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DESCRIPTION:



PARTIAL PLAN VIEW



DETAIL "B" TRANSITION TO NON-CURB APPROACH (Reinforcing Not Shown For Clarity)

TAPERED END TRANSITION =

CROSS REFERENCES: For Section A-A, B-B and X-X see Sheet 4.

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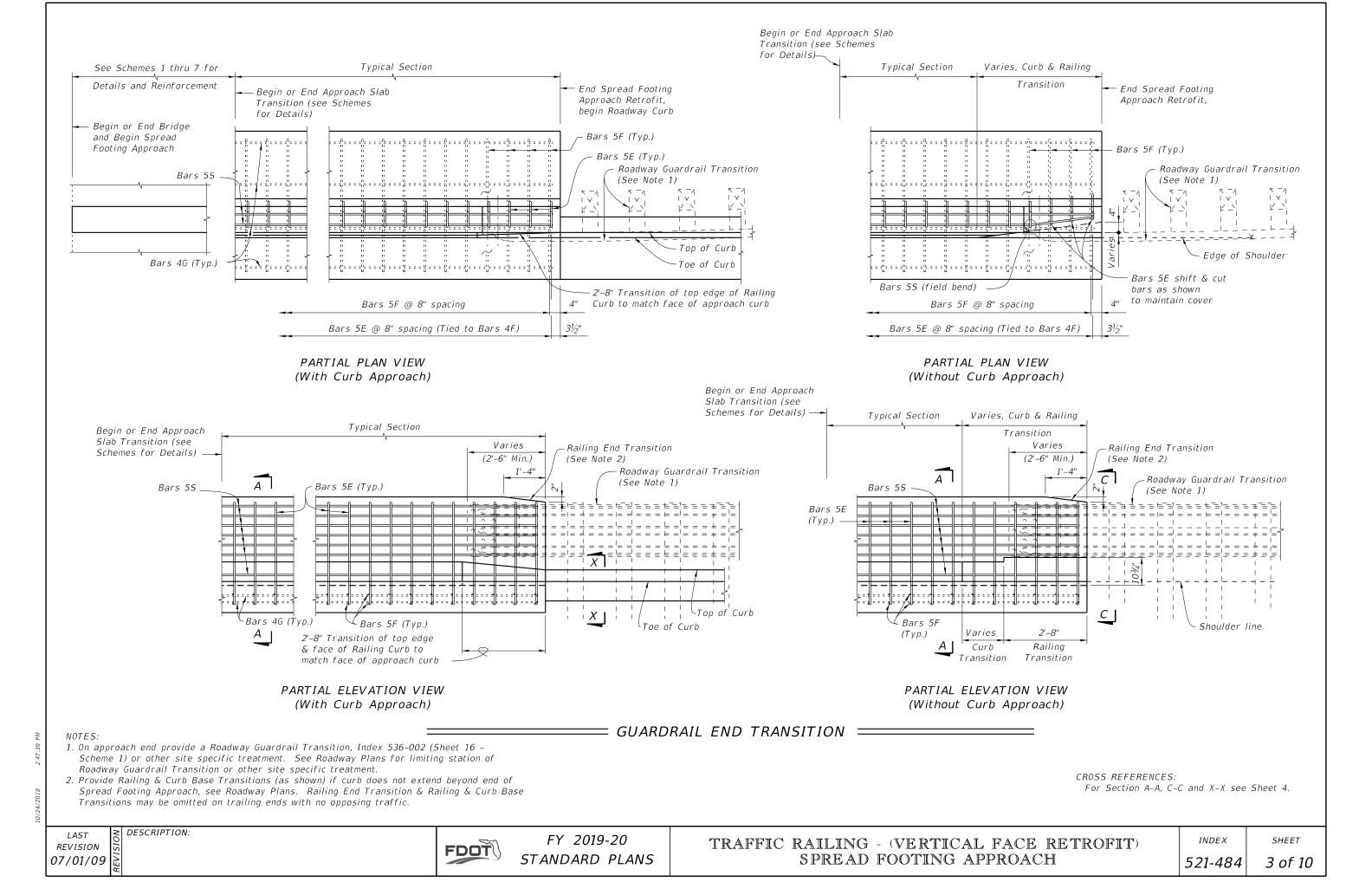
SPREAD FOOTING APPROACH

INDEX

SHEET

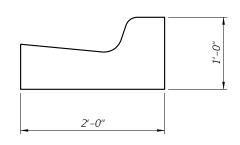
DESCRIPTION:

TRAFFIC RAILING - (VERTICAL FACE RETROFIT)



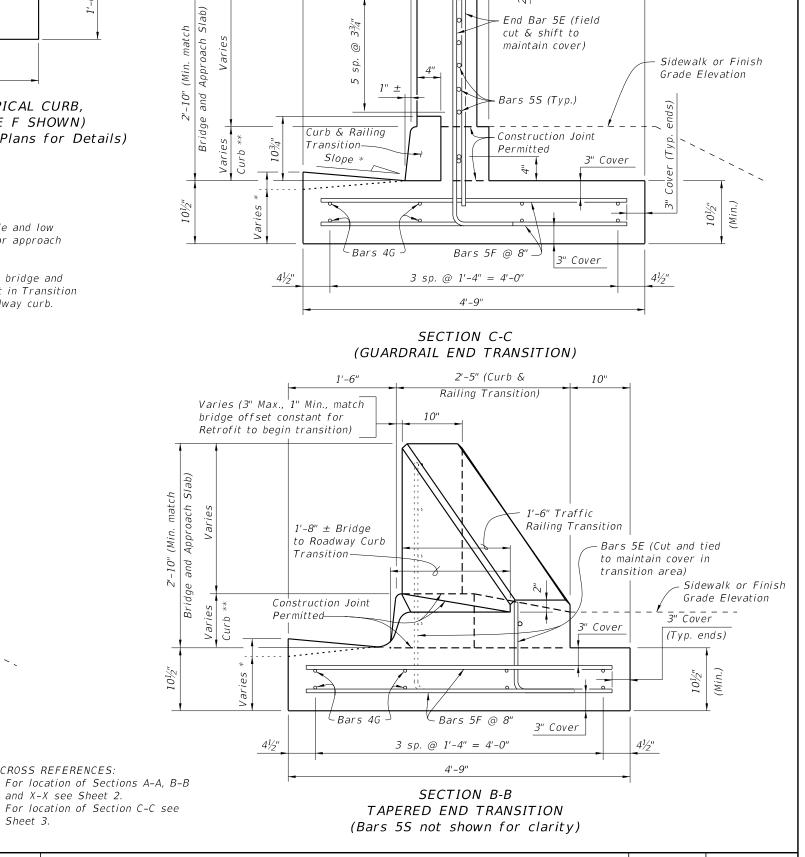
ESTIMATED TRAFFIC RAILING RETROFIT SPREAD FOOTING APPROACH QUANTITIES		
ITEM	UNIT	QUANTITY
		9" Curb
Concrete - Typical Section	CY/Ft.	0.25
Reinforcing Steel – Typical Section	Lb./Ft.	38
Concrete - 20'-0" Tapered End Transition plus Footing	CY	4.57 Total
Reinforcing Steel – 20'–0" Tapered End Transition plus Footing	Lb.	776 Total

NOTE: Quantities are based on a 9" curb, no curb cross slope.



SECTION X-X (TYPICAL CURB, TYPE VARIES, TYPE F SHOWN) (See Index 520-001 and Plans for Details)

- * Match Cross Slope of high side and low side at begin or end bridge or approach
- ** Match curb height of adjacent bridge and approach slab. Adjust height in Transition area to match adjoining Roadway curb.



1'-1"

10"

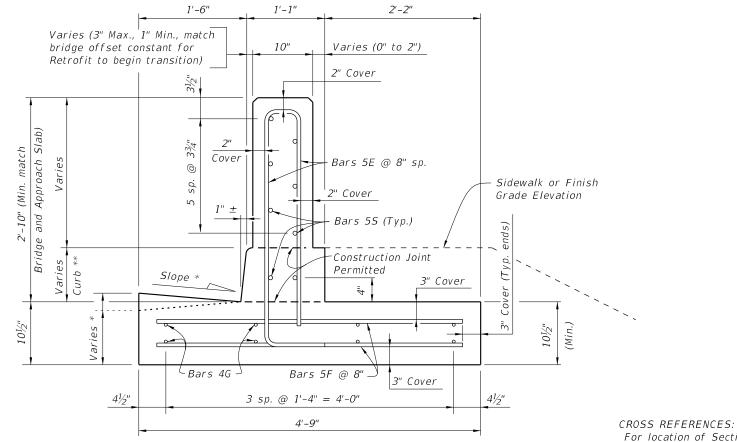
1'-6"

Varies (3" Max., 1" Min., match

bridge offset constant for Retrofit to begin Curb & Railing Transition) 2'-2"

Varies (0" to 2")

– End Bar 5E (field cut & shift to maintain cover)

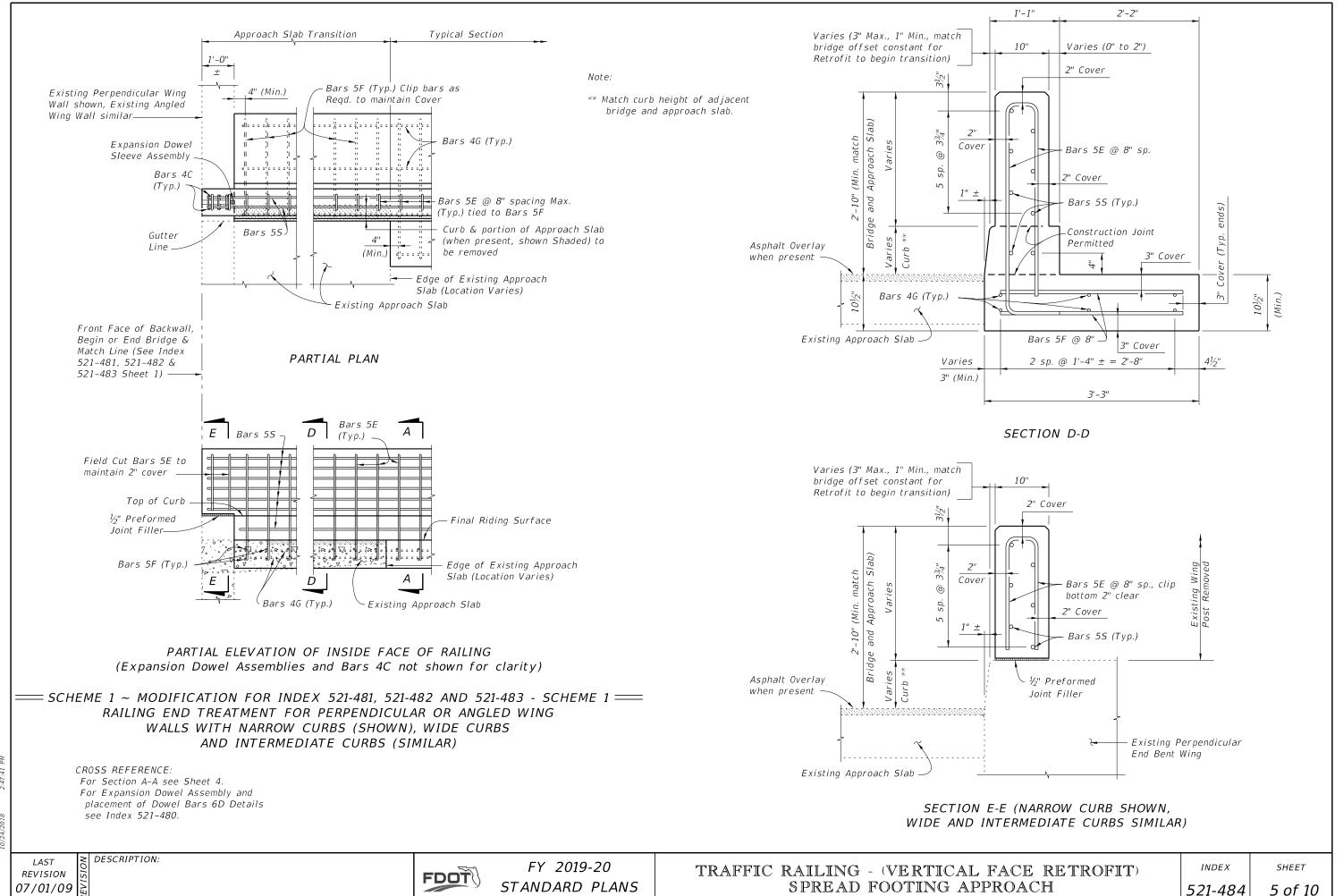


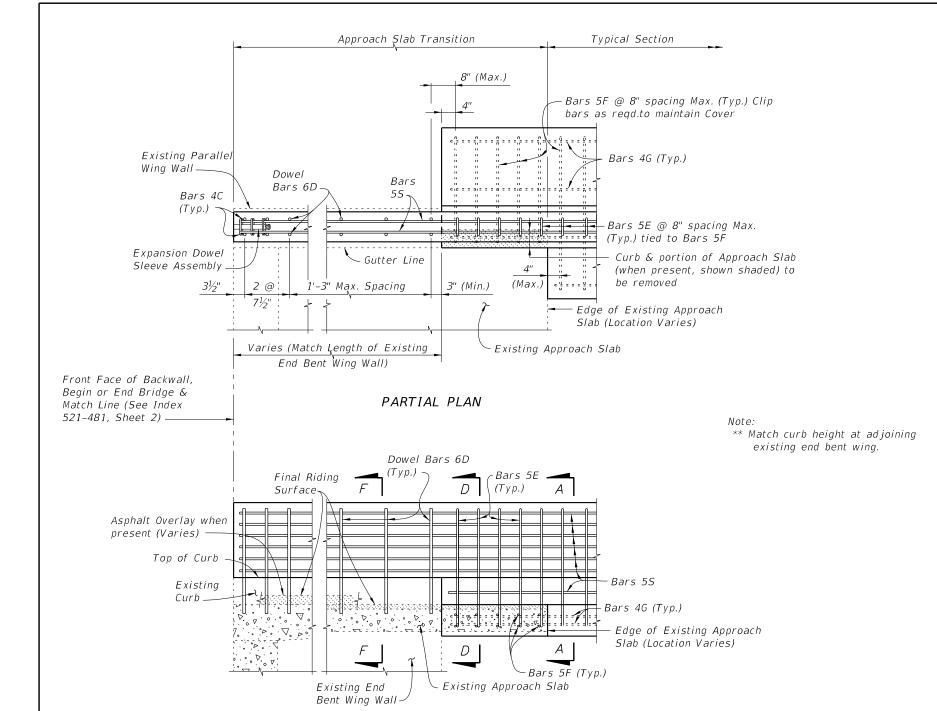
SECTION A-A TYPICAL SECTION (9" Curb shown, 6" Curb similar)

For location of Section C-C see Sheet 3.

and X-X see Sheet 2.

TRAFFIC RAILING - (VERTICAL FACE RETROFIT) SPREAD FOOTING APPROACH

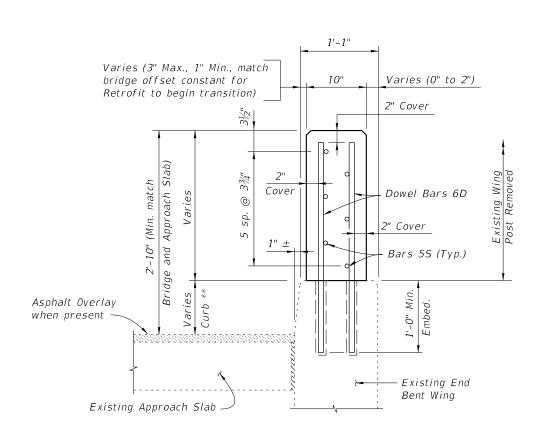




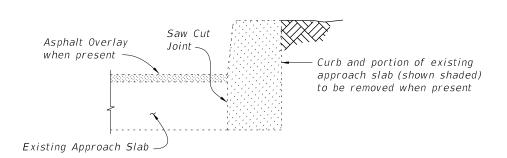
PARTIAL ELEVATION OF INSIDE FACE OF RAILING (Expansion Dowel Assemblies and Bars 4C not shown for clarity)

SCHEME 2 ~ MODIFICATION FOR INDEX 521-481 - SCHEME 2 ====== RAILING END TREATMENT FOR PARALLEL WING WALLS WITH NARROW CURBS

1. Remove existing concrete along saw cut joints. Existing reinforcing steel may be cut at joint or extended into new concrete. Exposed existing reinforcing not encased in new concrete shall be removed 1" below existing concrete surface and grouted over.



SECTION F-F



SECTION THRU EXISTING CURB AND APPROACH SLAB TO BE REMOVED (Free Standing Curb Similar)

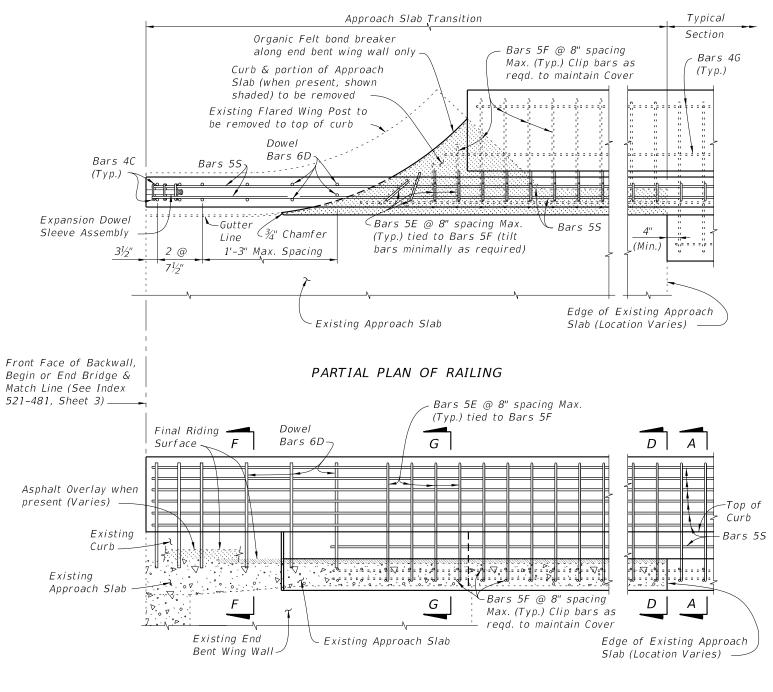
CROSS REFERENCES:

For Section A-A see Sheet 4. For Section D-D see Sheet 5. For Expansion Dowel Assembly and placement of Dowel Bars 6D Details see Index 521-480.

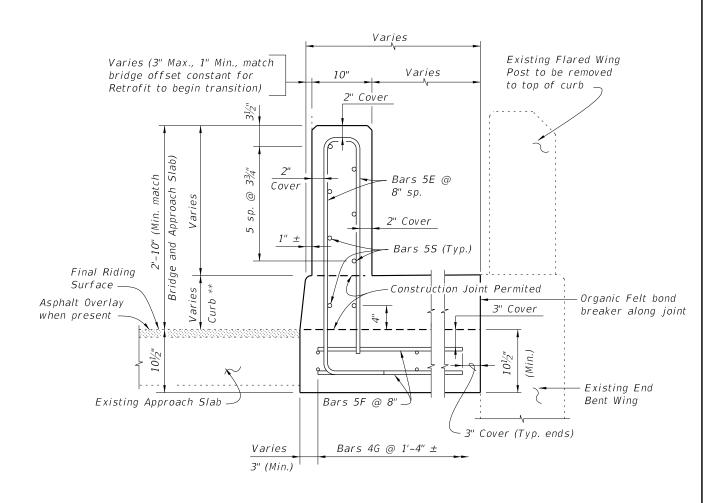
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PARTIAL ELEVATION OF INSIDE FACE OF RAILING (Expansion Dowel Assemblies and Bars 4C not shown for clarity)



SECTION G-G

Note:

** Match curb height at adjoining existing end bent wing.

CROSS REFERENCES:

For Section A-A see Sheet 4.

For Section D-D see Sheet 5. For Section F-F see Sheet 6.

For Expansion Dowel Assemblies Details and placement of Dowel Bars 6D see Index 521-480.

LAST REVISION 11/01/16

DESCRIPTION:

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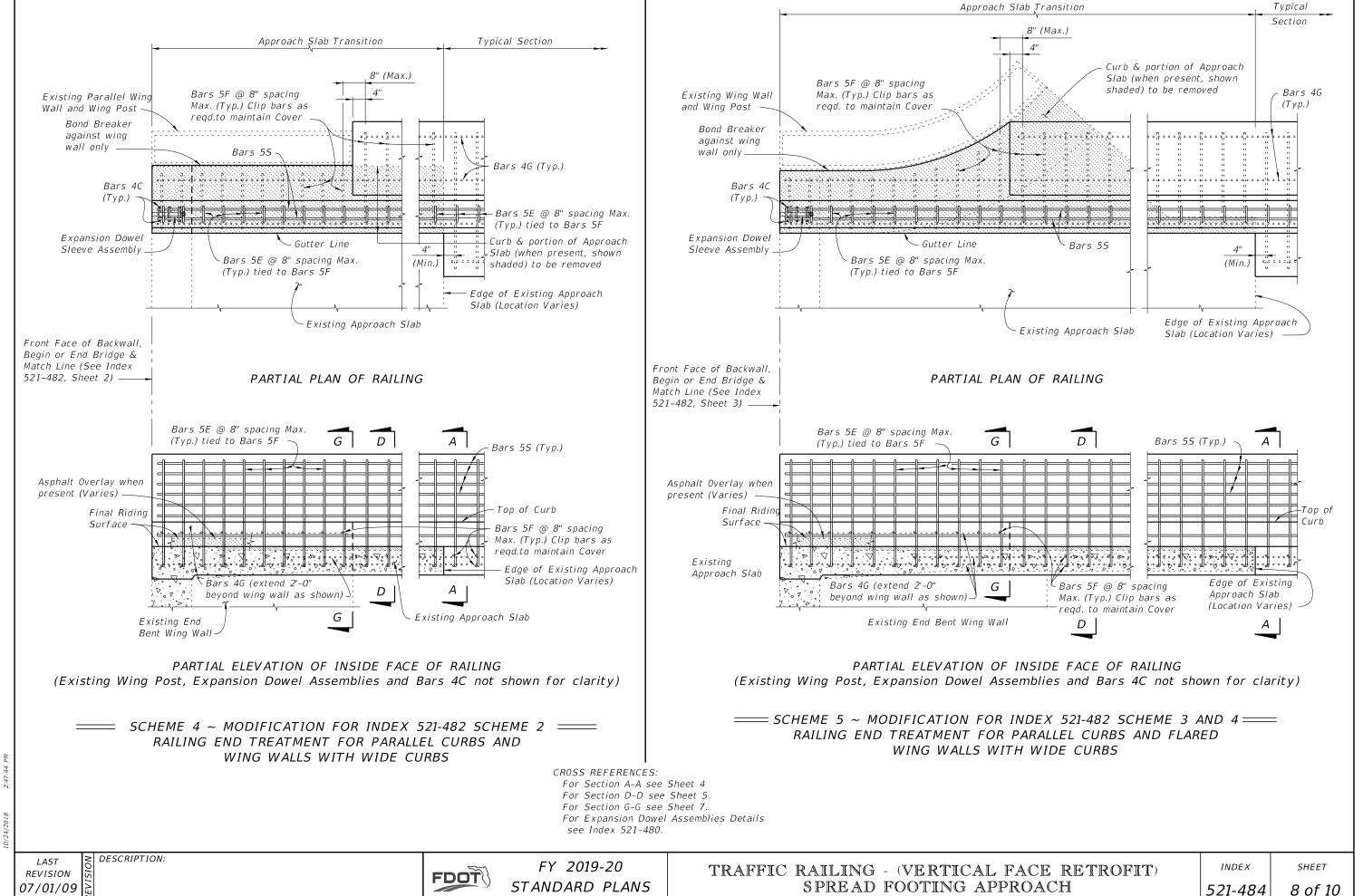
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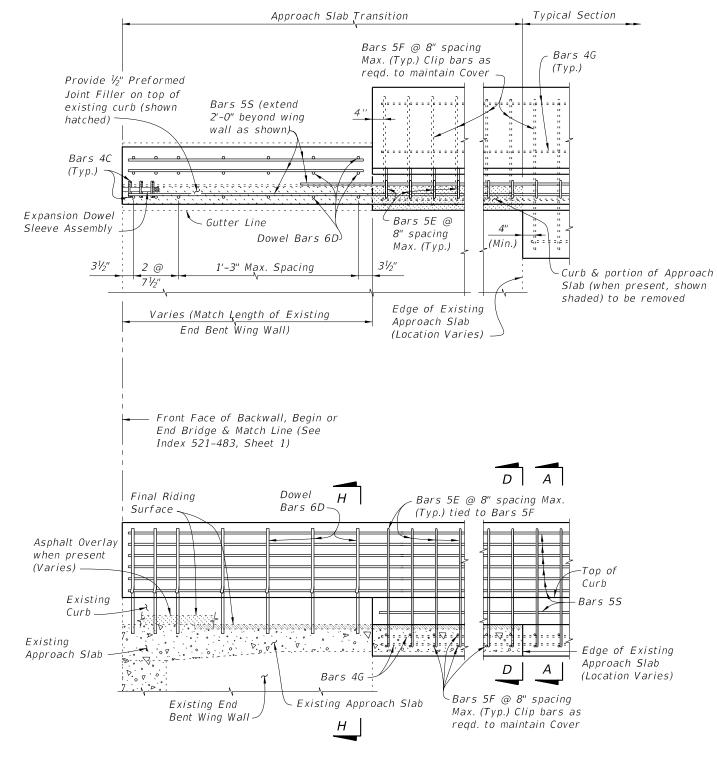
TRAFFIC RAILING - (VERTICAL FACE RETROFIT)
SPREAD FOOTING APPROACH

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SHEET

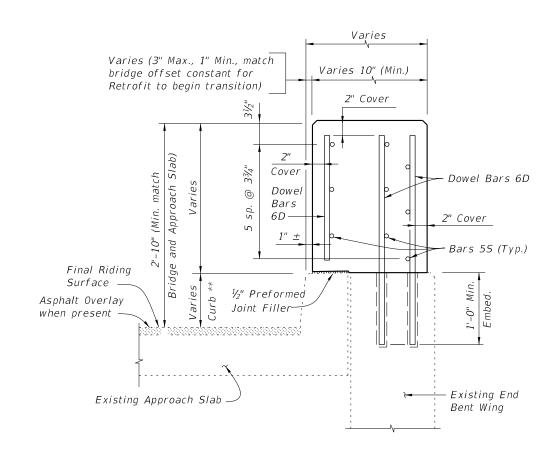
521-484 7 of 10





PARTIAL ELEVATION OF INSIDE FACE OF RAILING (Expansion Dowel Assemblies and Bars 4C not shown for clarity)

= SCHEME 6 ~ MODIFICATION FOR INDEX 521-483 SCHEME 2 ===== RAILING END TREATMENT FOR PARALLEL CURBS AND WING WALLS WITH INTERMEDIATE CURBS



SECTION H-H

Note:

** Match curb height at adjoining existing end bent wing.

CROSS REFERENCES:

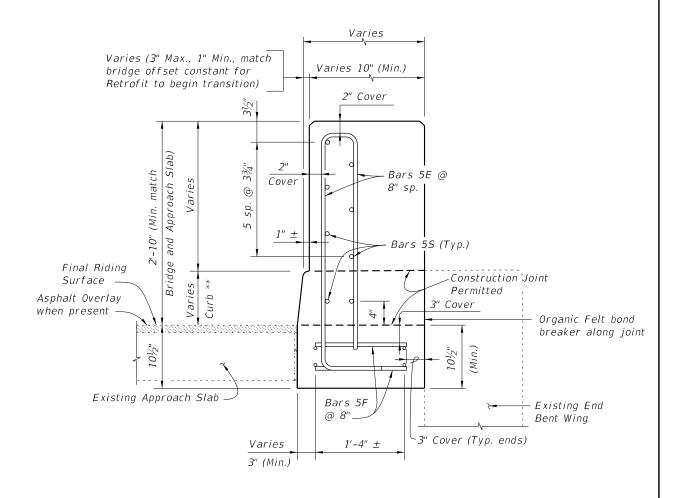
For Section A-A see Sheet 4. For Section D-D see Sheet 5. For Expansion Dowel Assembly and placement of Dowel Bars 6D Details see Index 521-480.

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DESCRIPTION:

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SECTION I-I

Note:

** Match curb height at adjoining existing end bent wing.

CROSS REFERENCES:

For Section A-A see Sheet 4.
For Section D-D see Sheet 5.
For Section H-H see Sheet 9.
For Expansion Dowel Assemblies and placement of Dowel Bars 6D Details see Index 521-480.

REVISION

11/01/16

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