

SCHEMATIC PLAN VIEW - OPPOSING LANE APPROACH

Design Speed (mph)	Length of Advancement, Ft. (X)
≤ 40	= 16 (D-d)

- 1. The minimum length of advancement for both near lane and opposing lane approaches is 20'.
- 2. For Design Speeds greater than 40 mph the Tapered End Transition is not permitted. See Index No. 400 for length of Advancement of guardrail or other project specific end treatments.

= LENGTH OF ADVANCEMENT - TAPERED END TRANSITION (40 MPH OR LESS) =====

DESIGN NOTES:

The Tapered End Transition should only be used when space is limited which precludes the use of a quardrail end treatment or crash cushion.

- D = Distance in feet from near edge of near approach traffic lane to either: (a) the back of hazard, when the hazard is located inside the clear zone or horizontal clearance; (b) the clear zone or horizontal clearance outer limits, when hazard extends to, or goes beyond the clear zone or horizontal clearance limits. For left side hazards on two way undivided facilities, "D" is measured from the inside edge of the near approach traffic lane as shown above.
- d = Distance in feet from near edge of near approach traffic lane to face of traffic railing (at offset control point). For left side hazards on two-way undivided facilities "d" is measured from the inside edge of the nearest opposing traffic lane as shown above.

CROSS REFERENCES:

For General Notes, Dowel Details, Expansion Dowel Details, Reinforcing Steel Notes and Reinforcing Steel Bending Diagram see Index No. 480.

DESCRIPTION: LAST REVISION



DOT DESIGN STANDARDS 2013

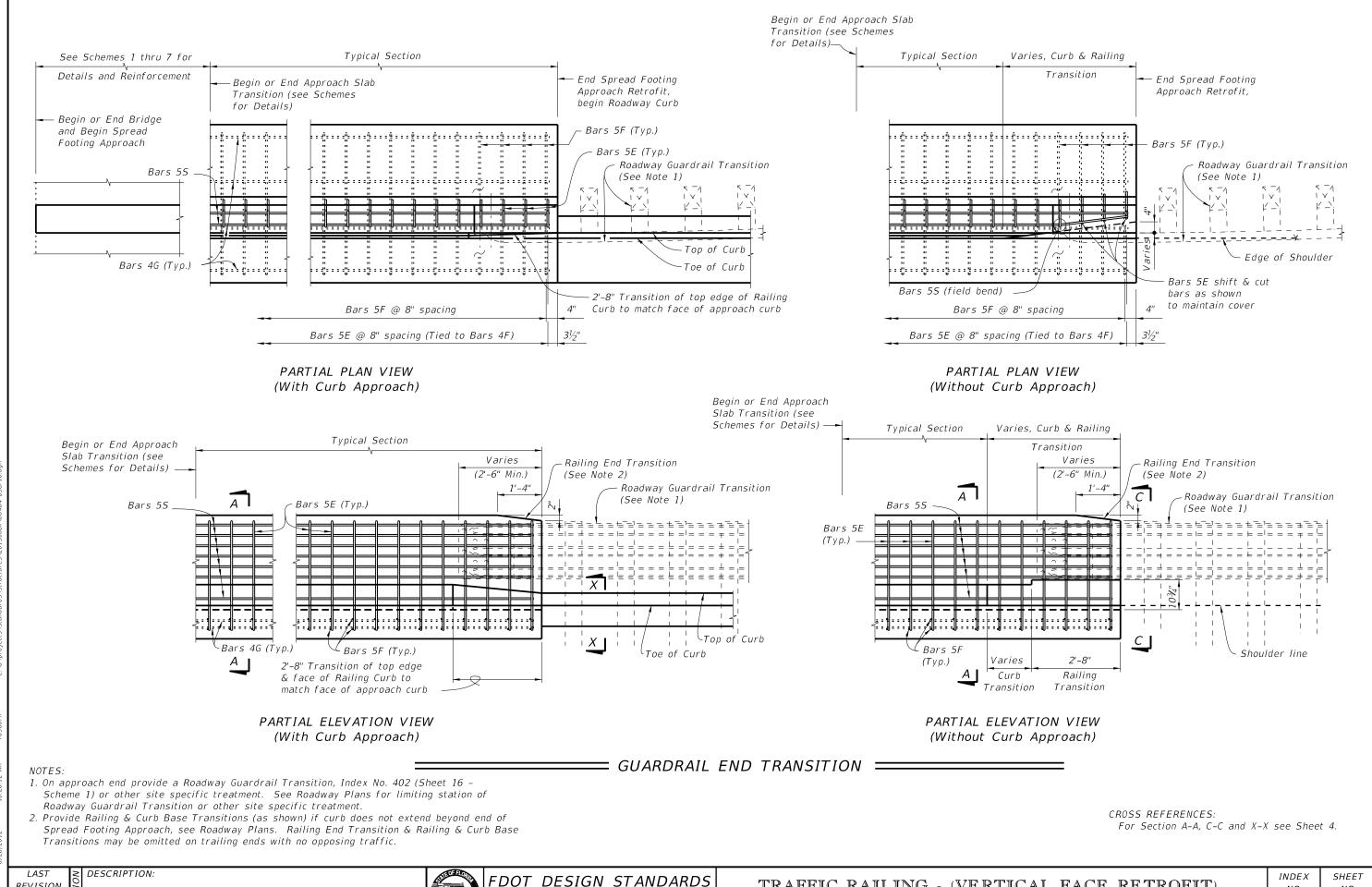
TRAFFIC RAILING - (VERTICAL FACE RETROFIT) SPREAD FOOTING APPROACH

SHEET *INDEX* NO. 484

NO.

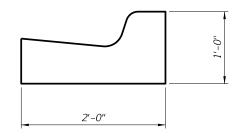
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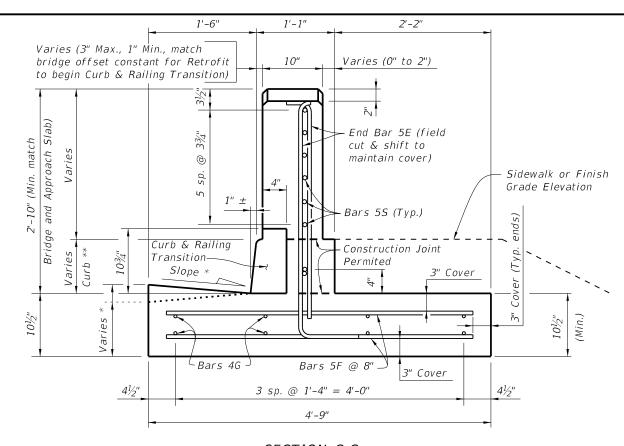
REVISION 07/01/09

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

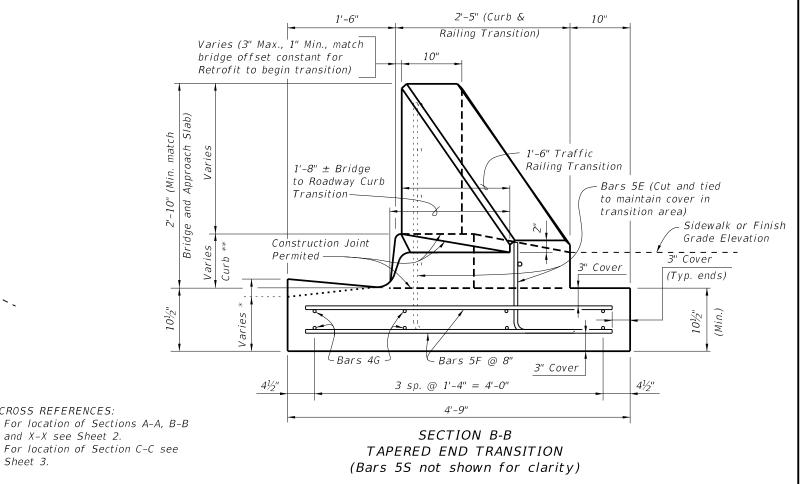


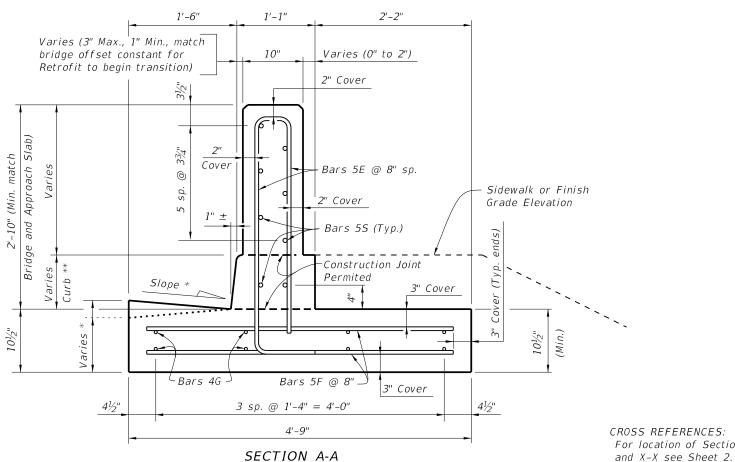
SECTION X-X (TYPICAL CURB, TYPE VARIES, TYPE F SHOWN) (See Index No. 300 and Plans for Details)

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



SECTION C-C (GUARDRAIL END TRANSITION)





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

FDOT DESIGN STANDARDS 2013

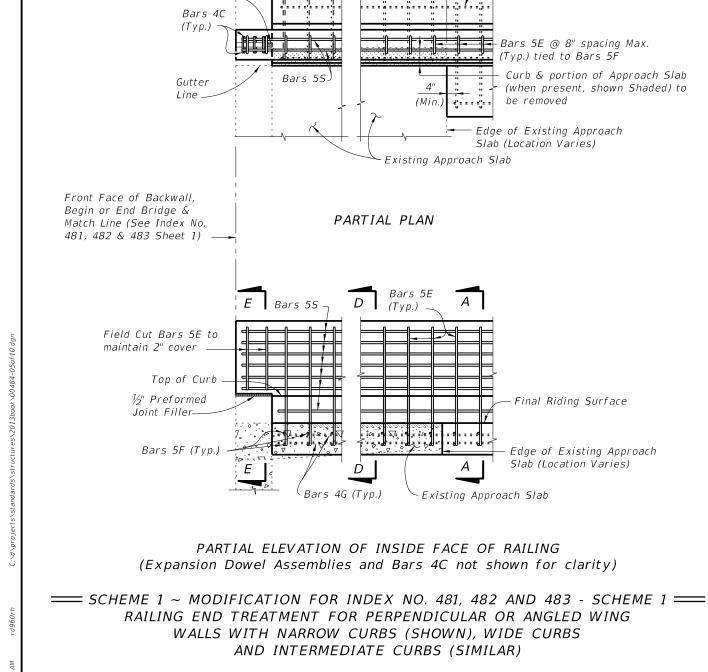
Sheet 3.

TRAFFIC RAILING - (VERTICAL FACE RETROFIT) SPREAD FOOTING APPROACH

INDEXNO. 484

SHEET NO. 4

LAST REVISION 07/01/09 DESCRIPTION:



Approach Slab Transition

4" (Min.)

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Existing Perpendicular Wing

Wall shown, Existing Angled

CROSS REFERENCE:

see Index 480.

DESCRIPTION:

LAST

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07/01/09

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

Expansion Dowel

Sleeve Assembly

Wing Wall similar_

Typical Section

Bars 4G (Typ.)

be removed

Bars 5E @ 8" spacing Max.

Final Riding Surface

Slab (Location Varies)

Edge of Existing Approach

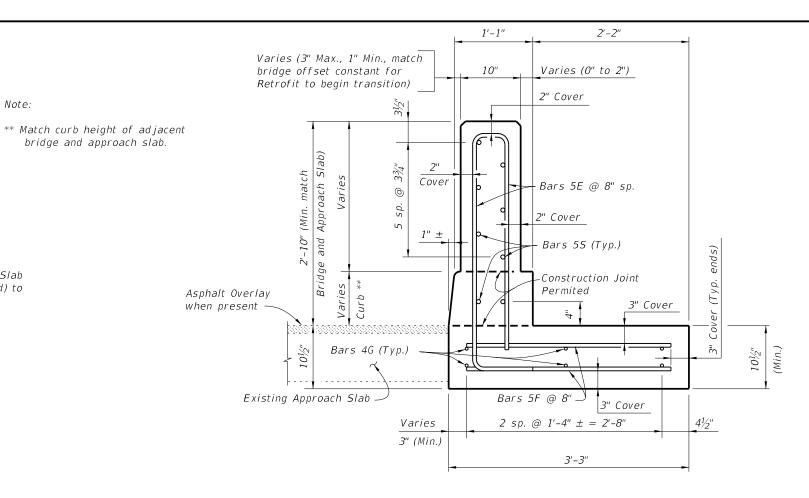
Curb & portion of Approach Slab

(Typ.) tied to Bars 5F

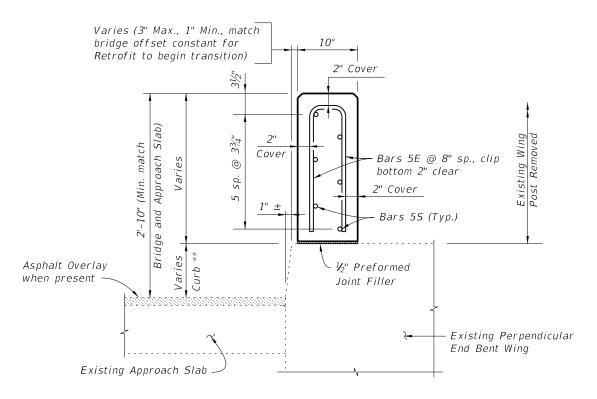
Bars 5F (Typ.) Clip bars as

Reqd. to maintain Cover

Note:



SECTION D-D



SECTION E-E (NARROW CURB SHOWN, WIDE AND INTERMEDIATE CURBS SIMILAR)

DOT DESIGN STANDARDS

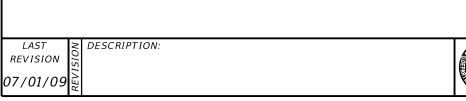
TRAFFIC RAILING - (VERTICAL FACE RETROFIT) SPREAD FOOTING APPROACH

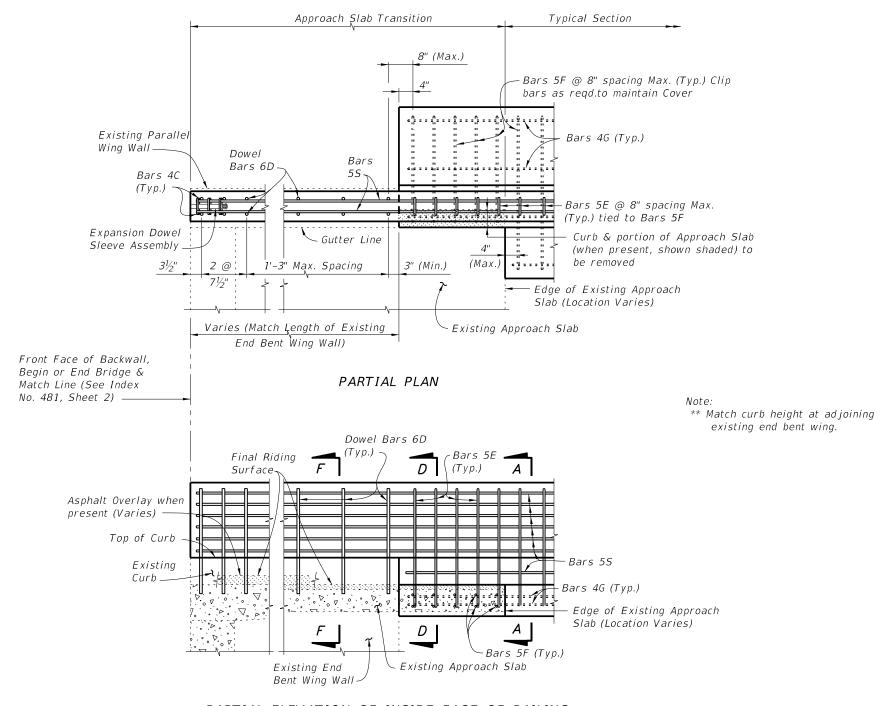
INDEX NO. 484

SHEET NO. 5

2013





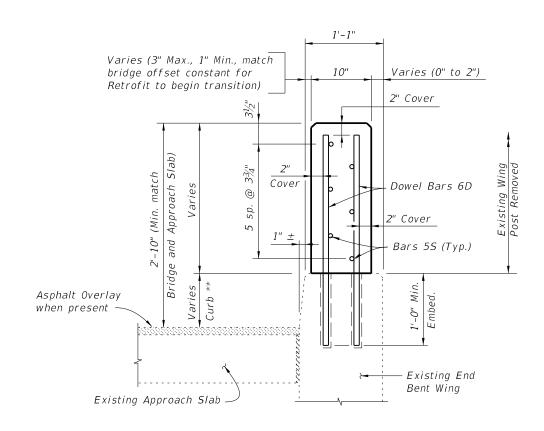


PARTIAL ELEVATION OF INSIDE FACE OF RAILING (Expansion Dowel Assemblies and Bars 4C not shown for clarity)

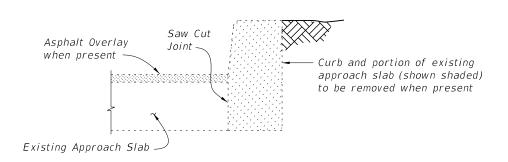
SCHEME 2 ~ MODIFICATION FOR INDEX NO. 481 - SCHEME 2 ====== RAILING END TREATMENT FOR PARALLEL WING WALLS WITH NARROW CURBS

NOTES:

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



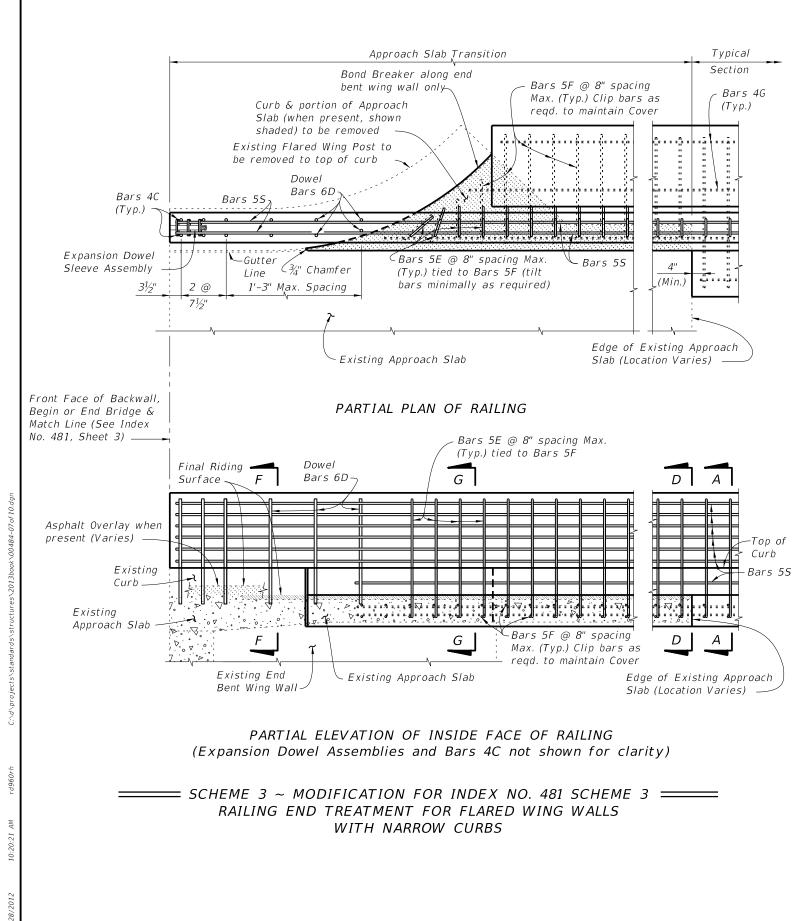
SECTION THRU EXISTING CURB AND APPROACH SLAB TO BE REMOVED (Free Standing Curb Similar)

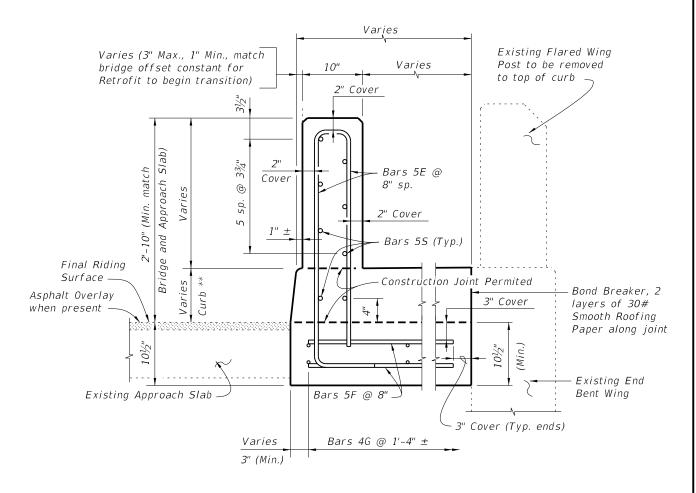
CROSS REFERENCES:

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 480.

FDOT DESIGN STANDARDS 2013

TRAFFIC RAILING - (VERTICAL FACE RETROFIT)





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.

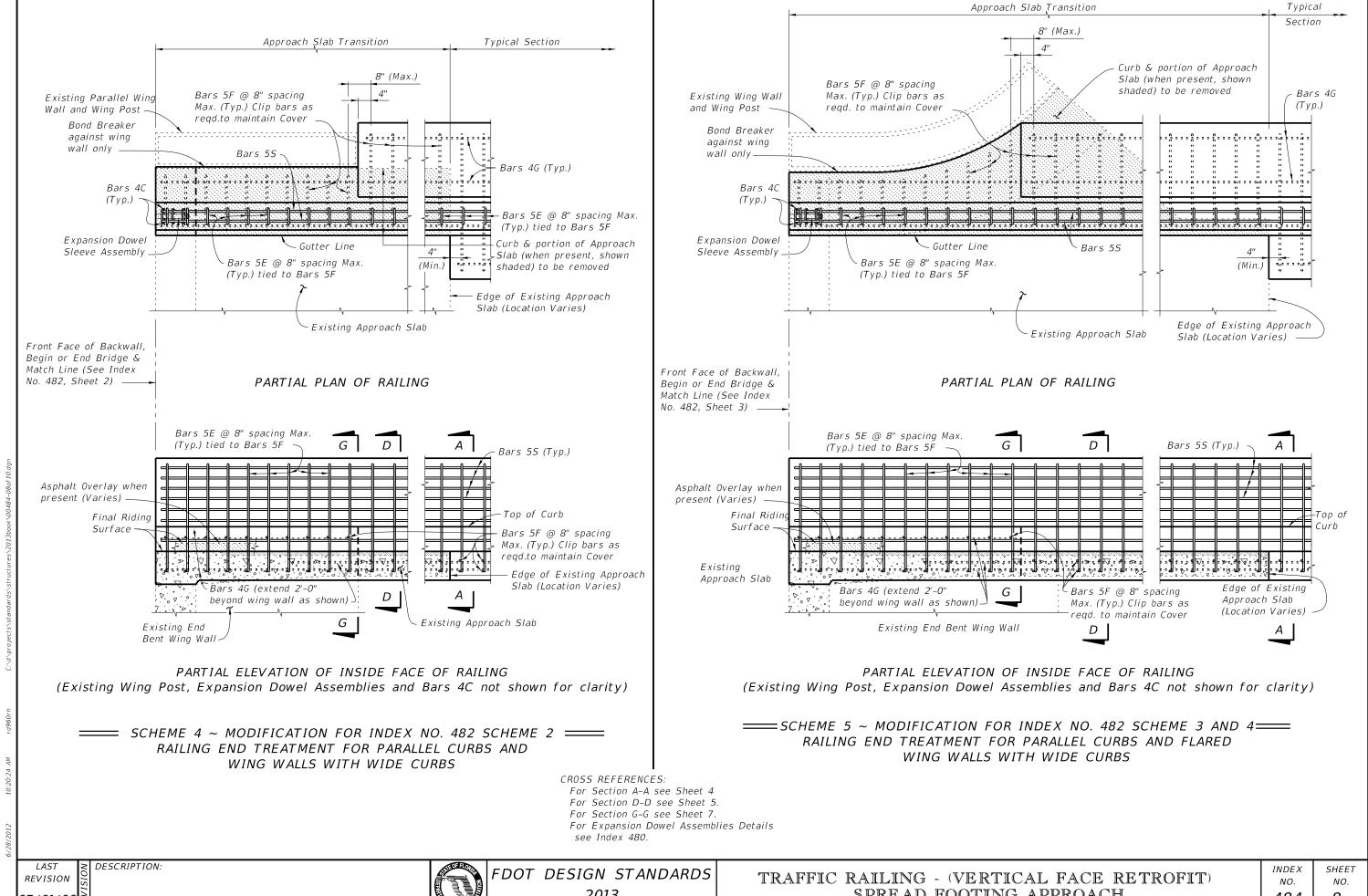
For Section F-F see Sheet 6. For Expansion Dowel Assemblies Details and

placement of Dowel Bars 6D see Index 480.

LAST DESCRIPTION:
REVISION 05



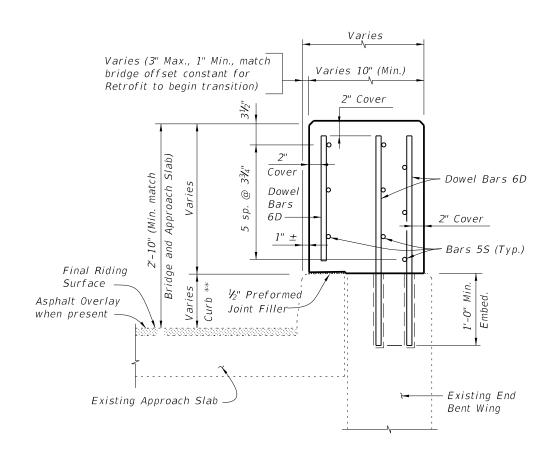
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PARTIAL ELEVATION OF INSIDE FACE OF RAILING (Expansion Dowel Assemblies and Bars 4C not shown for clarity)

── SCHEME 6 ~ MODIFICATION FOR INDEX NO. 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.

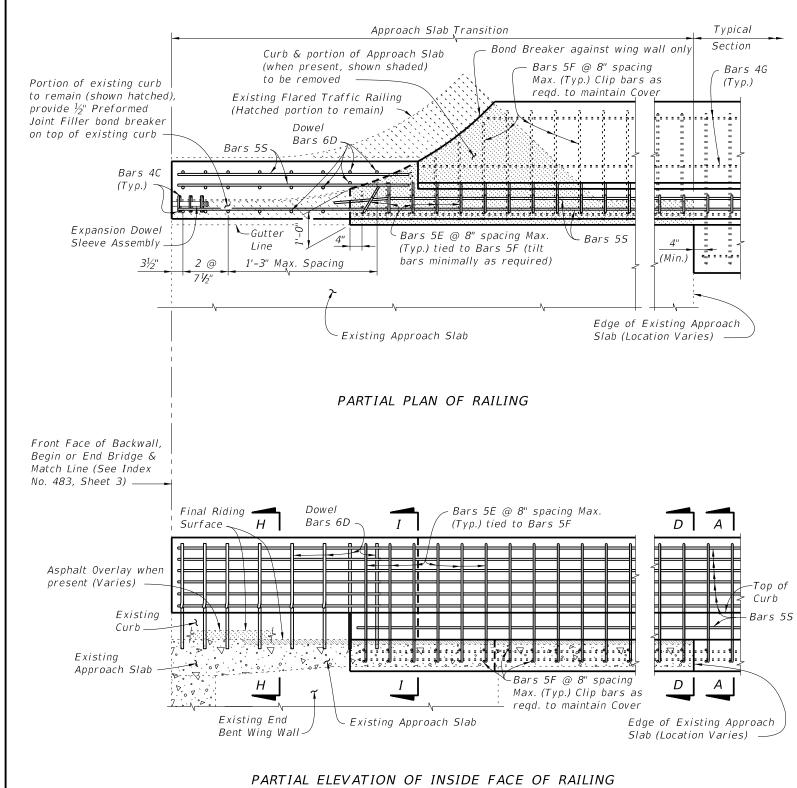
> CROSS REFERENCES: For Section A-A see Sheet 4. For Section D-D see Sheet 5. For Expansion Dowel Assembly and placement of Dowel Bars 6D Details see Index 480.

DESCRIPTION: REVISION 07/01/09



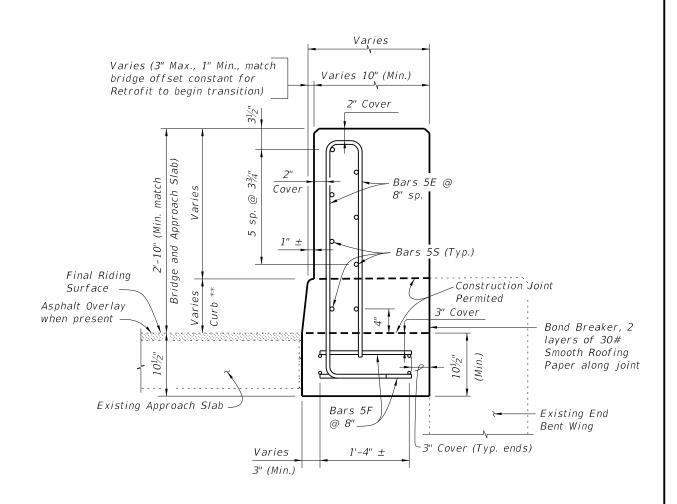
FDOT DESIGN STANDARDS 2013

LAST



(Expansion Dowel Assemblies and Bars 4C not shown for clarity)

=== SCHEME 7 ~ MODIFICATION FOR INDEX NO. 483 SCHEME 3 ====== RAILING END TREATMENT FOR PARALLEL CURBS AND FLARED WING WALLS WITH INTERMEDIATE CURBS



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 480.

LAST REVISION 07/01/09



FDOT DESIGN STANDARDS 2013

DESCRIPTION:

TRAFFIC RAILING - (VERTICAL FACE RETROFIT)