# Origination Form Proposed Revisions to a Standard Plans Index

Originator:	Turley, Joshua	Index Number:	460-475
Date:	5/15/2024	Sheet Number(s):	1-4
E-mail:	Joshua.Turley@dot.state.fl.us	Index Title:	TRAFFIC RAILING - (THRIE-BEAM RETROFIT) WIDE CURB TYPE 1

## Summary of the changes:

Sheets 1-4: Added a note to the details captioning what is shown is the Adhesive anchor option.

### Commentary/Background:

We have recently finished research into screw anchors and are now allowing them as an option on this Standard and we needed to add a note clarifying that that is the case. Otherwise the user might think that what is shown is the only option.

Other Affected Documents/Offices	Person Contacted	Affected (Yes/No)
Other Standard Plans		No
FDOT Design Manual		No
Standard Specifications		No
Basis of Estimates Manual		No
Approved Product List		No
Construction Office		No
Maintenance Office		No

### Implementation

["FY-Standard Plans (Next Release)"]

PARTIAL ELEVATION OF INSIDE FACE OF RAILING (Existing Traffic Railing not shown for clarity)

=== TYPICAL TREATMENT OF RAILING ALONG BRIDGE ======

#### NOTES:

- 1. On approach end provide Index 536-002 (as shown) or other site specific treatment, see Roadway Plans. For treatment of trailing end see Roadway Plans.
- 2. Actual joint dimension and orientation vary. For Intermediate Deck Joints use the Modified Post Spacing at Intermediate Deck Joints Detail, Index 460-470, Sheet 2, as required.
- 3. Areas where existing structure has been removed shall match adjoining areas and shall be finished flat by grouting or grinding as required. Exposed existing reinforcing steel shall be burned off 1" below existing concrete and grouted over.

CROSS REFERENCES: For Section A-A see Sheet 2. For Traffic Railing Notes and Details see Index 460-470.

REVISION <del>-01/01/08</del> 11/01/24

DESCRIPTION:

FDOT

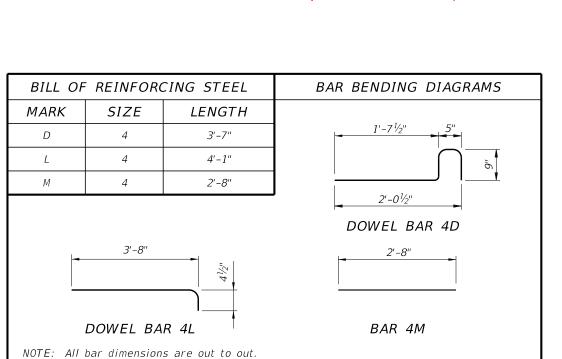
FY 2023-24 STANDARD PLANS

INDEX

SHEET 1 of 4

460-475





Shim with washers around Anchors as required to maintain tolerance.

Match Front Face of

Asphalt Overlay

Final Riding

when present

Surface -

Approach

Slab Varies

Schemes 3 & 4 - Overhang Varies

Schemes 5 & 6 - 2" Nominal Overhang

Control Line (Schemes 5 & 6)

Bridge) (Schemes 3 & 4)

Control Line (Projected from

(Varies)

ADDED: Screw **Anchor Detail** 

Thrie-Beam Guardrail along Bridge

Offset Block(s) as required

Thrie-Beam

Guardrail-

 ← Thrie-Beam
 

1'-2" x 10" x 1/8"

See Detail "A"

Thick Neoprene Pad

-Existing

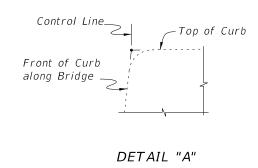
Approach

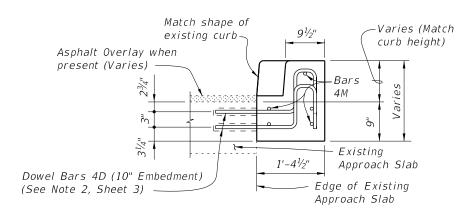
Slab

Varies 5½" \*\*

Guardrail-

Offset may vary  $\pm$  1" for Adhesive-Bonded Anchors to clear existing curb reinforcing and provide minimum edge clearance. Offset shall be consistent along length of bridge.





VIEW C-C

#### CROSS REFERENCES:

Varies \*\*

 $(1'-0" \pm Min.)$ 

 $\frac{1}{4}$ "  $\pm \frac{1}{2}$ " Out of

Plumb (Max.) \*

⊷¢ Guardrail Post:

½" Ø Post Bolts (length varies)

-Guardrail Post<sup>'</sup> Assembly "A", "B"

 $\sim \frac{7}{8}$ " Ø x 8" Adhesive-Bonded Anchors

with Heavy Hex Nuts and Washers set in

 $2 \sim 1\frac{1}{4}$ " Ø x 1'-4" (1'-1" Min. Embed. Schemes 3 & 5)

or  $2 \sim 1\frac{1}{4}$ " Ø x 8" (5" Min. Embed. Schemes 4 & 6)

Adhesive-Bonded Anchors with Heavy Hex Nuts and

Washers set in drilled holes  $(1'-1\frac{1}{2}")$  or  $5\frac{1}{2}"$  Max.

drilled holes (5½" Max. Depth)

or "C" (See Roadway Plans) Existing Curb Overhang

and Recessed Nuts

Slope:

Varies

Embedment

.5" Min.

- 3" Cover Min.

SECTION B-B

TYPICAL SECTION THRU RAILING ALONG APPROACH SLAB

(SCHEMES 5 AND 6 SHOWN, SCHEMES 3 AND 4 SIMILAR)

(Adhesive Anchor Option shown solid, Screw Anchor Option shown dashed)

Depth respectively)

Existing Wing Post

Existing Wing

(Type Varies)

For location of Section A-A see Sheet 1, 3 & 4.

For location of Section B-B see Sheet 4.

For location of View C-C see Sheet 3.

For application of Dim. A see Post Dimension Table

on Index 460-470, Sheet 3.

REVISION 01/01/08

DESCRIPTION:

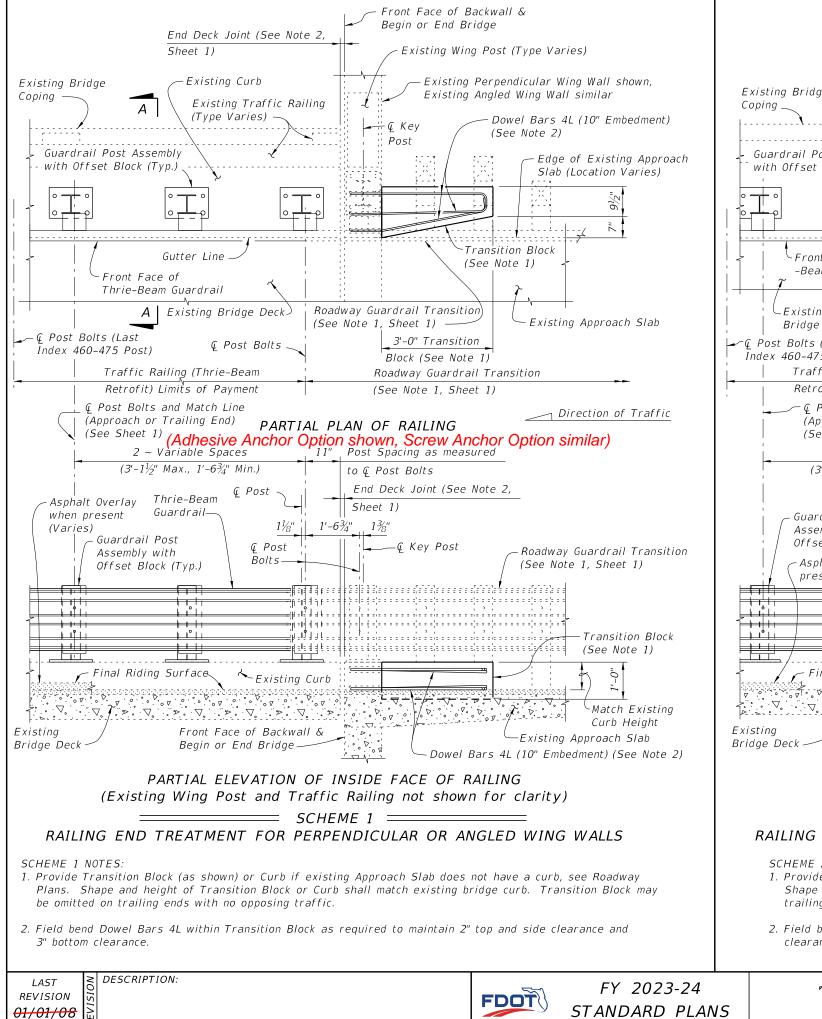
FDOT

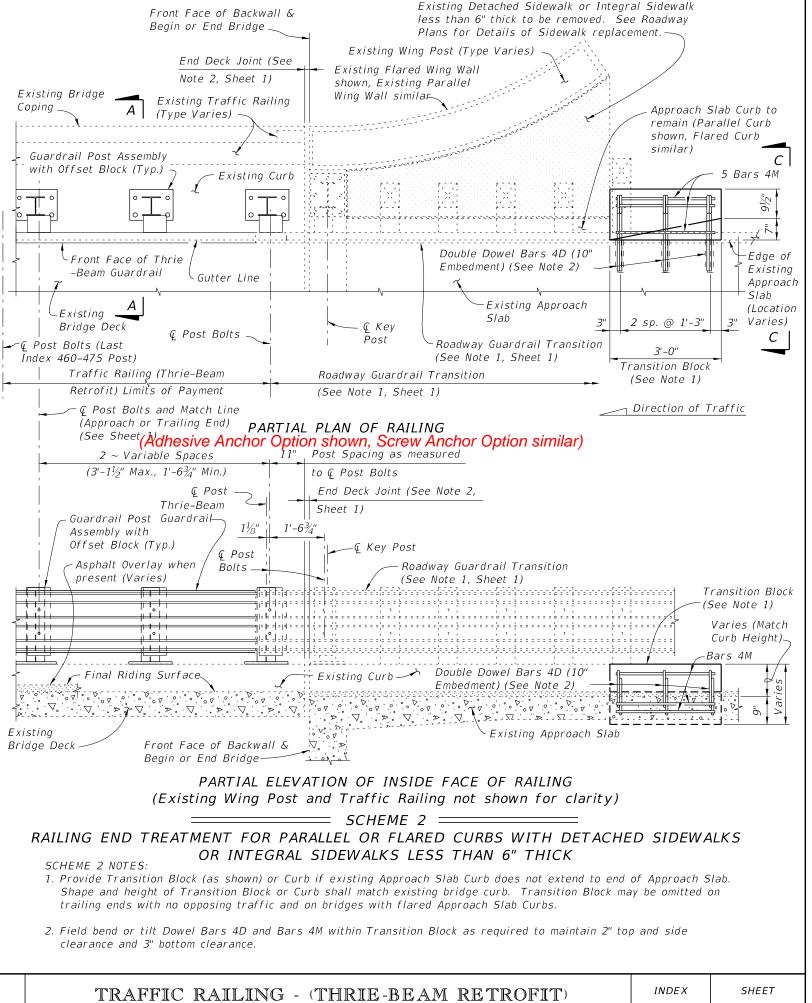
FY 2023-24 STANDARD PLANS

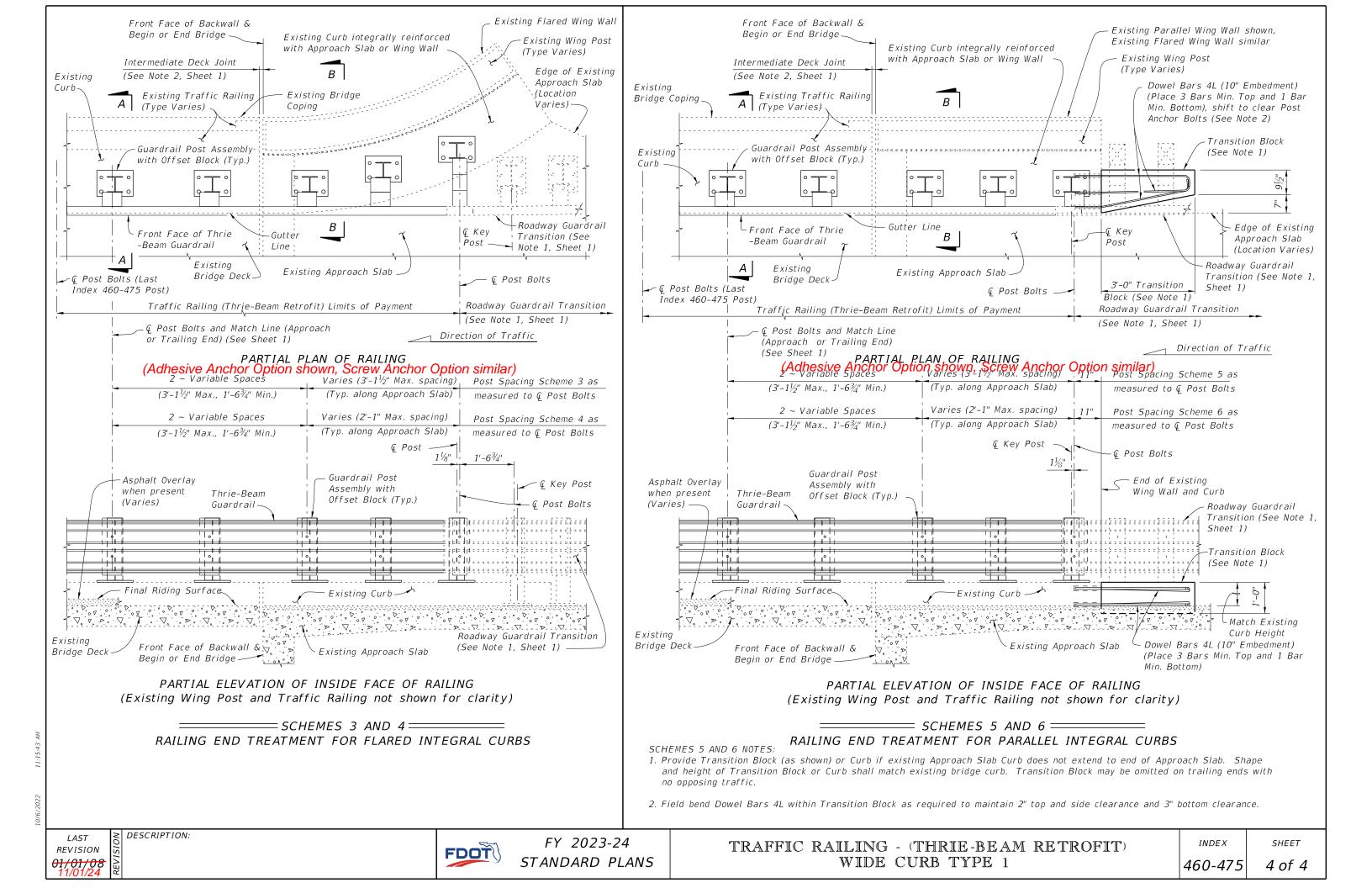
WIDE CURB TYPE 1

INDEX 460-475

SHEET







PARTIAL ELEVATION OF INSIDE FACE OF RAILING (Existing Traffic Railing not shown for clarity)

=== TYPICAL TREATMENT OF RAILING ALONG BRIDGE ======

NOTES

- 1. On approach end provide Index 536-002 (as shown) or other site specific treatment, see Roadway Plans. For treatment of trailing end see Roadway Plans.
- 2. Actual joint dimension and orientation vary. For Intermediate Deck Joints use the Modified Post Spacing at Intermediate Deck Joints Detail, Index 460-470, Sheet 2, as required.
- 3. Areas where existing structure has been removed shall match adjoining areas and shall be finished flat by grouting or grinding as required. Exposed existing reinforcing steel shall be burned off 1" below existing concrete and grouted over.

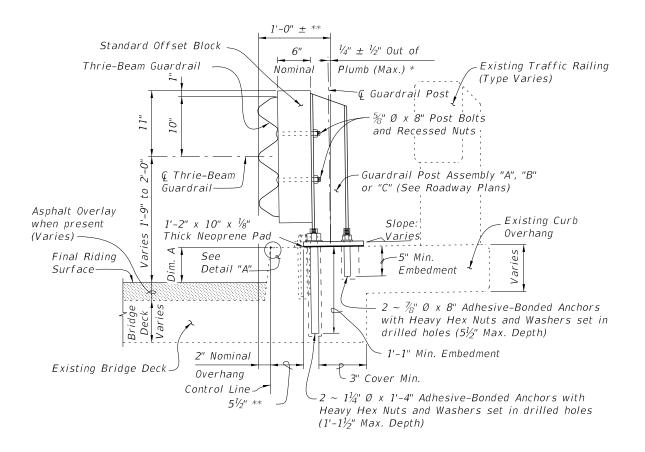
CROSS REFERENCES:
For Section A-A see Sheet 2.
For Traffic Railing Notes and Details
see Index 460-470.

5/31/2024

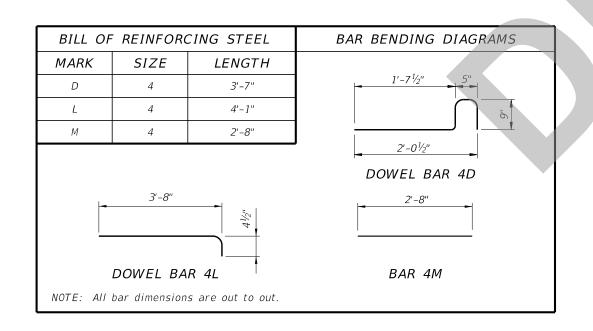
LAST REVISION 11/01/24

DESCRIPTION:





SECTION A-A TYPICAL SECTION THRU RAILING ON BRIDGE DECK (Adhesive Anchor Option shown solid, Screw Anchor Option shown dashed)



Shim with washers around Anchors as required to maintain tolerance.

Match Front Face of

Asphalt Overlay

Final Riding

when present

Surface -

Approach

Slab Varies

Schemes 3 & 4 - Overhang Varies

Schemes 5 & 6 - 2" Nominal Overhang

Control Line (Schemes 5 & 6) \( \times \)

Control Line (Projected from

Bridge) (Schemes 3 & 4)

(Varies)

Thrie-Beam Guardrail along Bridge

Offset Block(s) as required

Thrie-Beam

Guardrail-

 ← Thrie-Beam

1'-2" x 10" x ½"

See

Thick Neoprene Pad

Detail "A".

—Existing

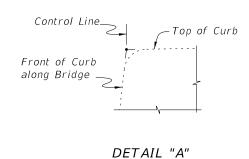
Approach

Slab

Varies 5½" \*\*

Guardrail-

Offset may vary ± 1" for Adhesive-Bonded Anchors to clear existing curb reinforcing and provide minimum edge clearance. Offset shall be consistent along length of bridge.



Match shape of -Varies (Match existing curbcurb height) Asphalt Overlay when present (Varies) Bars 4 M Existing  $1'-4\frac{1}{2}''$ Approach Slab Dowel Bars 4D (10" Embedment) Edge of Existing (See Note 2, Sheet 3) Approach Slab

VIEW C-C

CROSS REFERENCES:

Varies \*\*

 $(1'-0" \pm Min.)$ 

 $\frac{1}{4}$ "  $\pm \frac{1}{2}$ " Out of

Plumb (Max.) \*

-@ Guardrail Post

%" Ø Post Bolts (length varies)

-Guardrail Post Assembly "A", "B"

 $2 \sim \frac{7}{8}$ " Ø x 8" Adhesive-Bonded Anchors

with Heavy Hex Nuts and Washers set in

 $2 \sim 1\frac{1}{4}$ " Ø x 1'-4" (1'-1" Min. Embed. Schemes 3 & 5)

Adhesive-Bonded Anchors with Heavy Hex Nuts and

or  $2 \sim 1\frac{1}{4}$ " Ø x 8" (5" Min. Embed. Schemes 4 & 6)

Washers set in drilled holes  $(1'-1\frac{1}{2}")$  or  $5\frac{1}{2}"$  Max.

drilled holes (5½" Max. Depth)

or "C" (See Roadway Plans) Existing Curb Overhang

and Recessed Nuts

Slope:

\_Varies

Embedment

-5" Min.

~ 3" Cover Min.

SECTION B-B

TYPICAL SECTION THRU RAILING ALONG APPROACH SLAB

(SCHEMES 5 AND 6 SHOWN, SCHEMES 3 AND 4 SIMILAR) (Adhesive Anchor Option shown solid, Screw Anchor Option shown dashed)

Depth respectively)

Existing Wing Post

Existing Wing

(Type Varies)

For location of Section A-A see Sheet 1, 3 & 4.

For location of Section B-B see Sheet 4.

For location of View C-C see Sheet 3.

For application of Dim. A see Post Dimension Table

on Index 460-470, Sheet 3.

DESCRIPTION: LAST REVISION

FY 2024-25 STANDARD PLANS

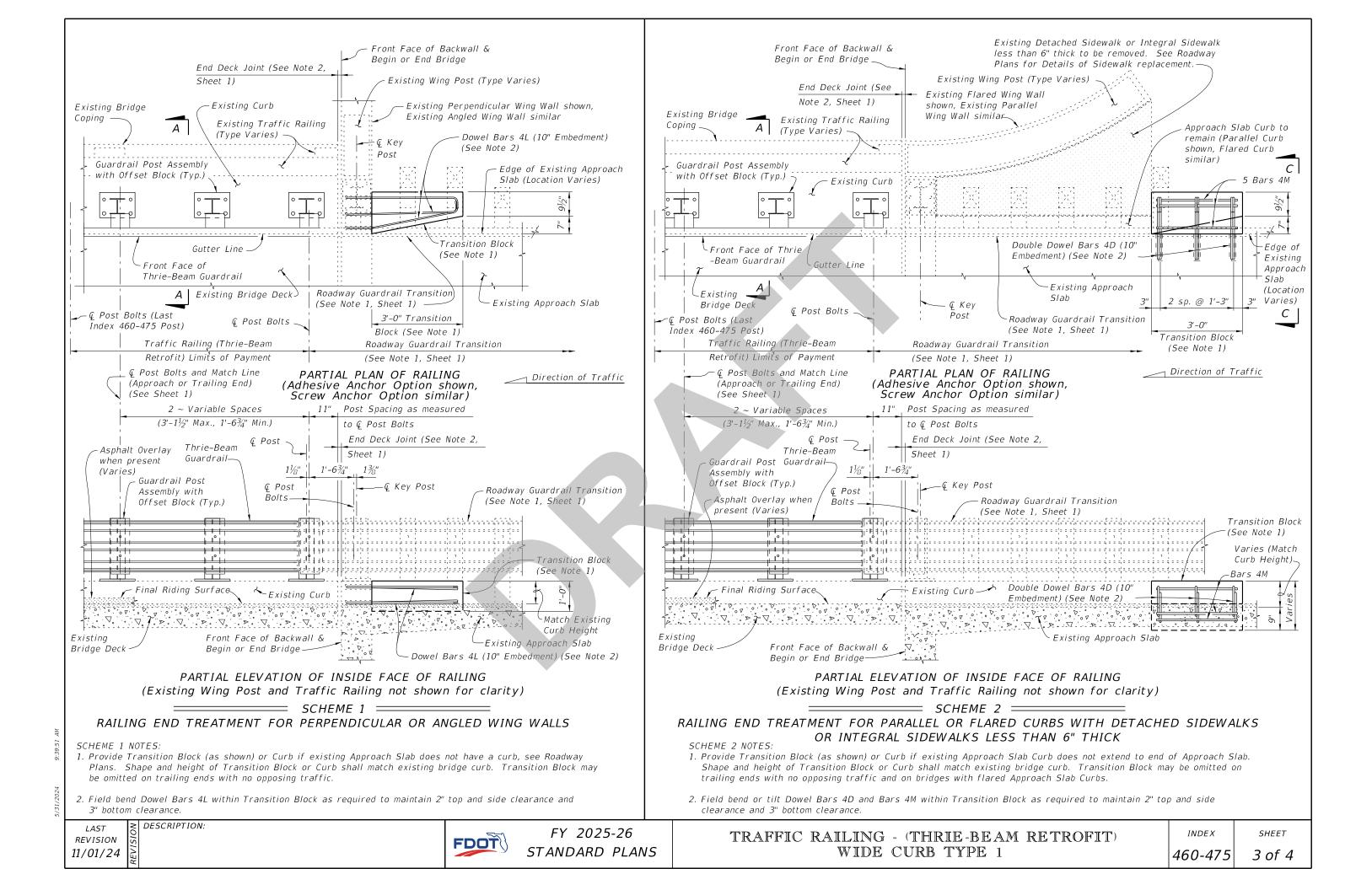
TRAFFIC RAILING - (THRIE-BEAM RETROFIT) WIDE CURB TYPE 1

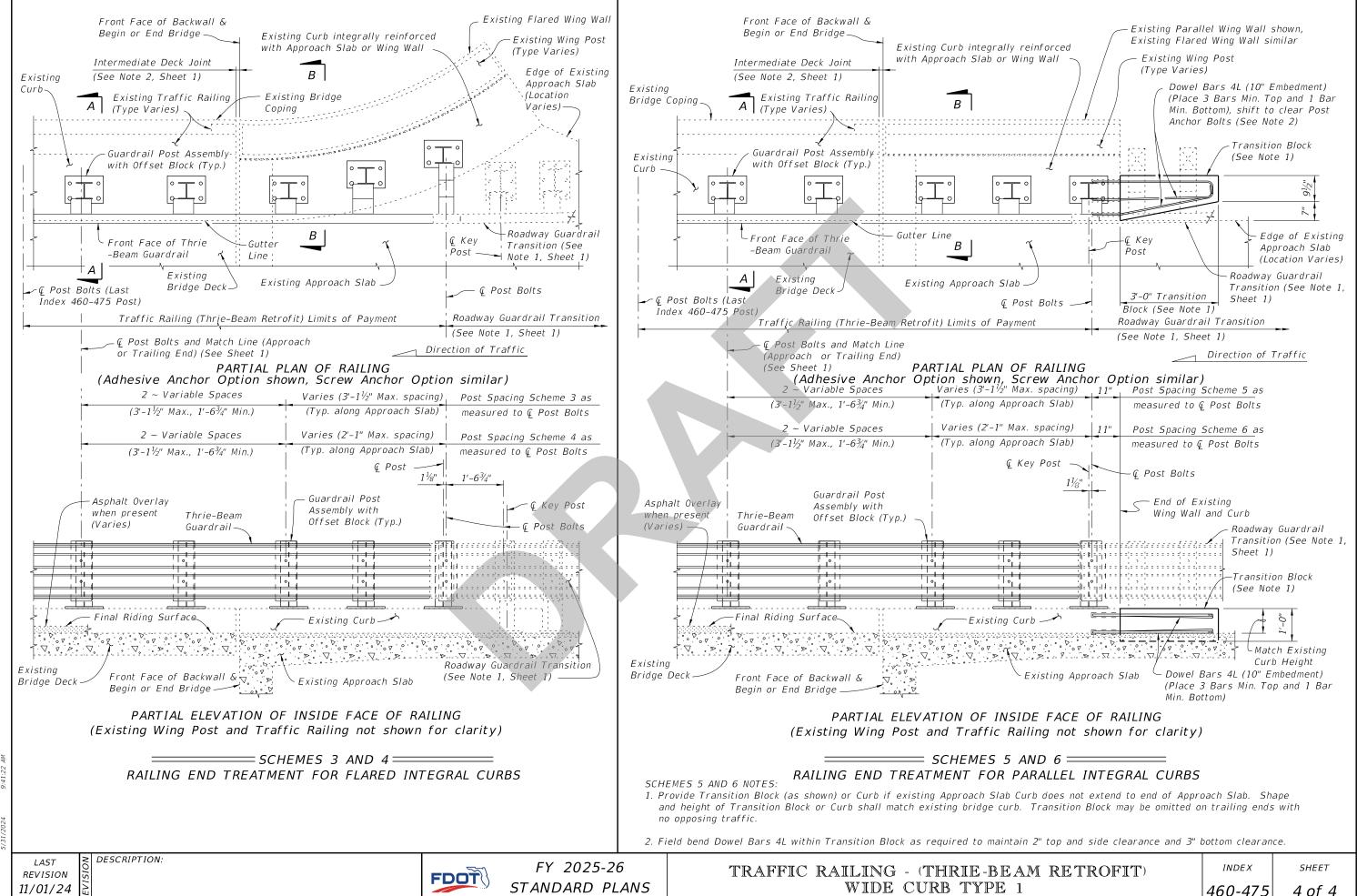
INDEX 460-475

SHEET 2 of 4

11/01/24

FDOT





1/20/1/2/3