

# FY 2026-27 Standard Plans Update Training

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## **Standard Plans Update – Panelists:**

- 1) Jimmy Frimmel – Standard Plans Publication Manager**
  - *Curb Ramps, Drainage (End Walls and Sand Filters), Sign Supports*
- 2) Ryan Gray – Standard Plans Specialist**
  - *Pavement Markings*
- 3) Shae Gibbs – Standard Plans Specialist**
  - *Fencing, Shoulder Treatment, Special Signs*
- 4) Richard Stepp, P.E. – Senior Standard Plans Engineer**
  - *Barriers, Guardrails, Curb and Gutter*
- 5) Joshua Turley, P.E. – Structures Standard Plans Engineer**
  - *Various Structures Related Indexes*












(<https://www.fdot.gov/design/standardplans>)

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Administrator: Rick A. Jenkins, P.E. - State Standard Plans Engineer

- **Current Standard Plans**
- **Past Versions of Standard Plans**
- **Developmental Standards**
- **CADD Files**
- **Training**
- **Revisions**

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 <b>Design Standards</b> <a href="#">Design Standards (FY 2017-18 and Earlier)</a> <a href="#">Developmental Design Standards</a>	 <b>Resources</b> <a href="#">Documents and Publications</a> <a href="#">Programs and Services</a> <a href="#">Other Links of Interest</a> <a href="#">Meetings and Events</a>	 <b>Contact Us</b> <a href="#">Rick Jenkins</a> (State Standard Plans Engineer) <a href="#">Staff Directory</a>
 <b>Temporary Traffic Control (TTC) Maintenance of Traffic (MOT)</b> <a href="#">Current TTC Handbook</a> <a href="#">TTC Website</a>	 <b>Roadway Lighting</b> <a href="#">Coming Soon</a>	 <b>Roadside Barriers</b> <a href="#">Coming Soon</a>

# FY 2026-27 Standard Plans Update Training

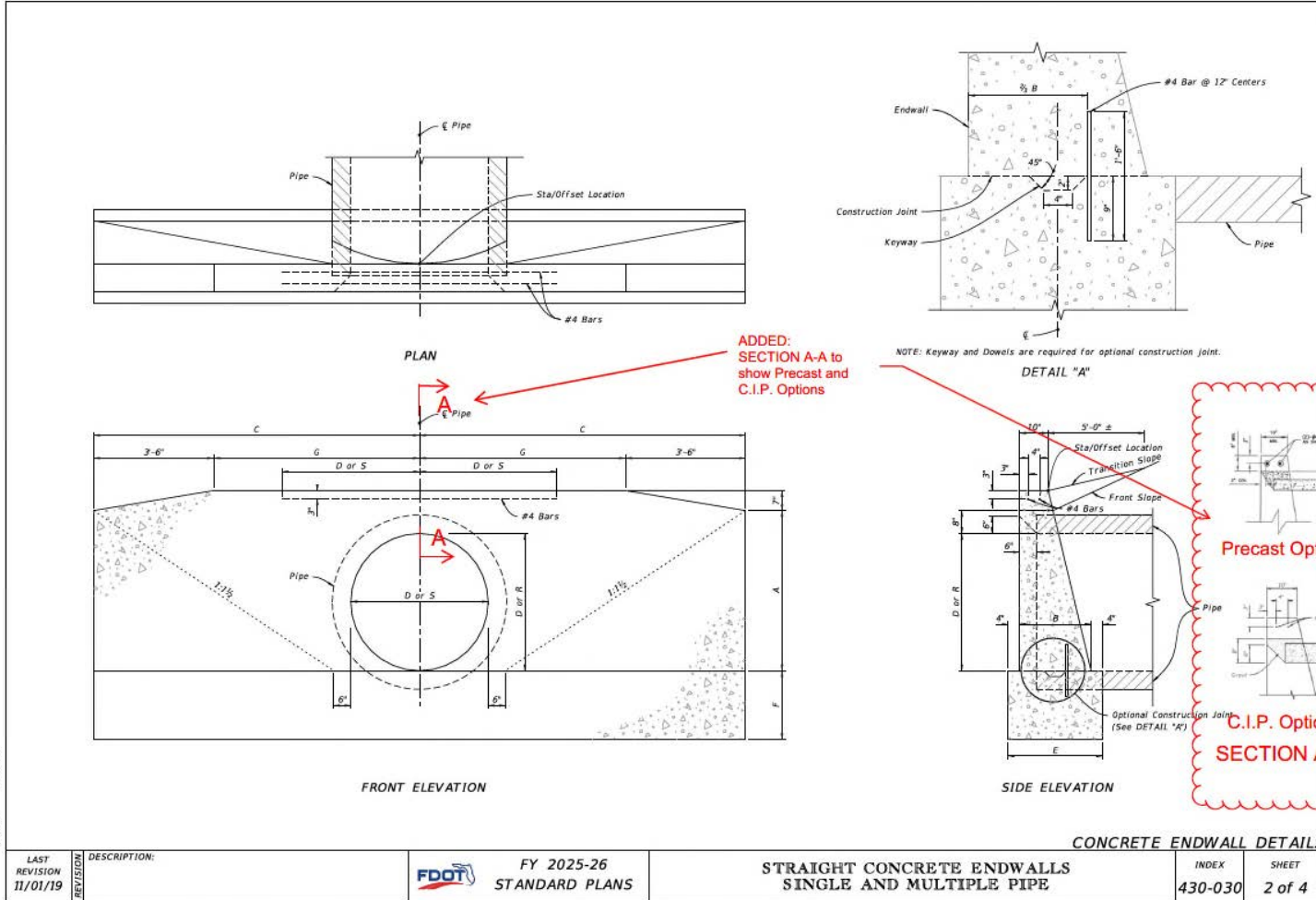
Jimmy Frimmel, CPM  
Standard Plans Publication Manager  
Roadway Design Office  
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## **Standard Plans – Primary Updates:**

- 1) **Index 430-030 – Straight Concrete Endwalls – Single and Multiple Pipe**
  - *Added Section A-A to show precast and cast-in-place options*
  
- 2) **Index 440-001 – Underdrain**
  - *Clarified notes, added new sheet to table of contents*
  - *Added an underdrain detail for wet detention side bank filters*
  
- 3) **Index 522-002 – Detectable Warnings and Sidewalk Curb Ramps**
  - *Added/moved notes and removed previous curbed return details*
  
- 4) **Index 700-101 – Typical Sections for Placement of Single and Multi-Column Signs**
  - *Modified Note 7 to provide additional guidance for placing signs along a shared use path or urban side path.*
  - *Added details showing the sidewalk, shared use path and urban side path*

## Sheet 2: Redlines



- Added Option I or II in Section A-A.
- This allows for either a precast or cast-in-place option.



## Sheet 1: Redlines

### GENERAL NOTES:

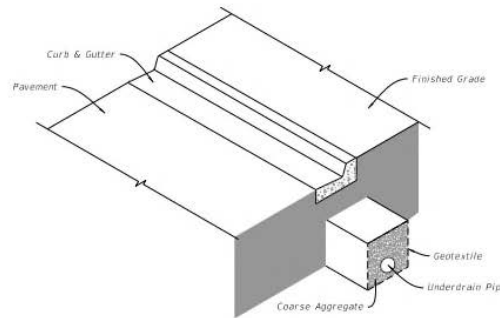
1. Install underdrain pipe that is either 4" smooth or 5" corrugated tubing unless otherwise shown in the Plans. The size to be furnished will be based on the nominal internal diameter of a pipe with a smooth interior wall. Except when prohibited by the Plans, the special provisions of this standard, pipe with a corrugated interior wall may be provided based on the following size equivalency:  
 4" smooth interior equivalent to 5" corrugated interior  
 5" smooth interior equivalent to 6" corrugated interior  
 6" smooth interior equivalent to 8" corrugated interior  
 8" smooth interior equivalent to 10" corrugated interior
2. Fine aggregate is quartz sand meeting the requirements of Specifications 902-4.
3. Coarse aggregate is gravel or stone meeting the requirements of Specification 901-2 or 901-3. The gradation is in accordance with Specifications 901, Grades 4, 467, 5, 56 or 57 stone unless otherwise shown restricted in the Plans.
4. Install Underdrain Type I, II, III and V in accordance with Specification 440.
5. Install Type D-3 geotextile in accordance with Specifications 514. The internal geotextile of Type V underdrain has a permittivity of 0.7 /sec. and an AOS of #40 sieve.
6. When Type I is used, use a geotextile sack in accordance with Specification 948.
7. See Index 120-002 for the standard location of Type I, II, and III underdrain. The location of Type V underdrain and nonstandard locations of Type I, II, and III underdrain will be as detailed in the plans.
8. Install geotextile joints with an overlap a minimum of 1'. Install the internal geotextile of Type V underdrain with an overlap into the coarse aggregate or the fine aggregate a minimum of 1'.
9. Use nonperforated pipes for underdrain outlet and make all bends using 1/4 (45 deg.) elbows. Construct 90 deg. bends with two 1/4 elbows separated by at least 1' of straight pipe. Outlet pipes stubbed into inlets or other drainage structures must be a minimum 6" above the structure flow line. Install concrete aprons, hardware cloths, and sads for outlet pipes discharging to grassed areas as shown in Index 446-001 for Edge drain Outlets.

**ADDED NOTE 10:**  
 Anchor an additional 6" length of geotextile under soil or coarse aggregate as shown.

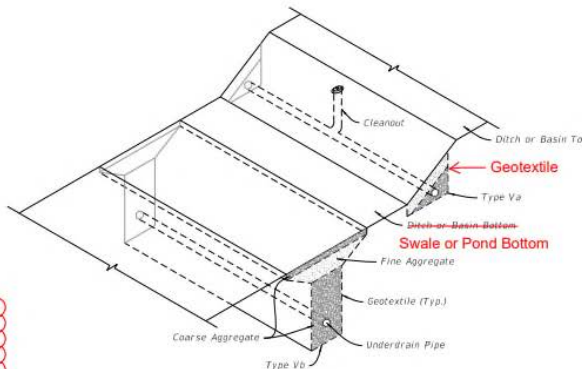
TABLE OF CONTENTS:	
Sheet	Description
1	General Notes and Contents
2	Type I, II, and III Underdrains
3	Type Va, Vb, and Cleanout

ADDED NEW SHEET - UPDATED TOC

ADDED:  
 Type Va (WET) Assembly



UNDERDRAIN TYPE I, II, AND III ASSEMBLY  
 (Type II Shown, Others Similar)



(DRY)  
 UNDERDRAIN TYPE Va AND Vb ASSEMBLY

CHANGED: 4

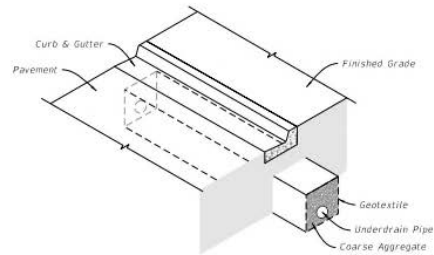
- Added new sheet, updated table of contents
- Added note 10 addressing geotextile anchoring requirements
- Added an underdrain detail for wet detention side bank filters – Type Va (Wet Detention)

LAST REVISION 11/01/23	DESCRIPTION 11/01/25	FDOT FY 2025-26 STANDARD PLANS	UNDERDRAIN	INDEX 440-001	SHEET 1 of 3
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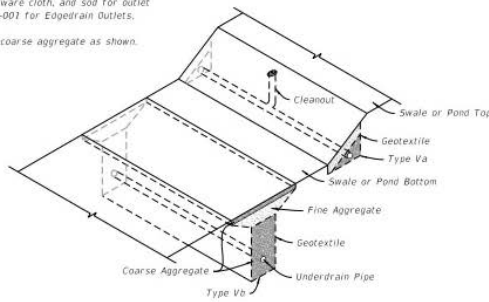
## Sheet 1: Published Index

### GENERAL NOTES:

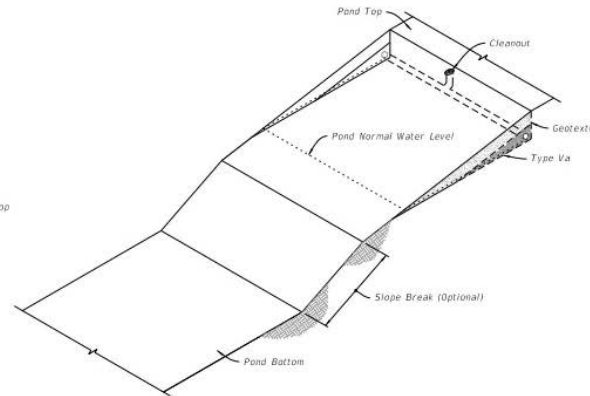
1. Install underdrain pipe that is either 4" smooth or 5" corrugated tubing unless otherwise shown in the Plans. The size to be furnished will be based on the nominal internal diameter of a pipe with a smooth interior wall. Except when prohibited by the Plans, the special provisions or this standard, pipe with a corrugated interior wall may be provided based on the following size equivalency:  
 4" smooth interior equivalent to 5" corrugated interior  
 5" smooth interior equivalent to 6" corrugated interior  
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 8" smooth interior equivalent to 10" corrugated interior
2. Fine aggregate is quartz sand meeting the requirements of Specifications 902-4.
3. Coarse aggregate is gravel or stone meeting the requirements of Specification 901-2 or 901-3. The gradation is in accordance with Specifications 901, Grades 4, 467, 5, 56 or 57 stone unless otherwise shown restricted in the Plans.
4. Install Underdrain Type I, II, III and V in accordance with Specification 440.
5. Install Type D-3 geotextile in accordance with Specifications 514. The internal geotextile of Type V underdrain has a permittivity of 0.7 /sec. and an AOS of #40 sieve.
6. When Type I is used, use a geotextile sock in accordance with Specification 948.
7. See Index 120-002 for the standard location of Type I, II, and III underdrain. The location of Type V underdrain and nonstandard locations of Type I, II, and III underdrain will be as detailed in the Plans.
8. Install geotextile joints with an overlap a minimum of 1'. Install the internal geotextile of Type V underdrain with an overlap into the coarse aggregate or the fine aggregate a minimum of 1'.
9. Use nonperforated pipes for underdrain outlet and make all bends using 1/4 (45 deg.) elbows. Construct 90 deg. bends with two 1/4 elbows separated by at least 1' of straight pipe. Outlet pipes stubbed into inlets or other drainage structures must be a minimum 6" above the structure flow line. Install concrete aprons, hardware cloth, and sod for outlet pipes discharging to grassed areas as shown in Index 446-001 for Eogedrain Outlets.
10. Anchor an additional 6" length of geotextile under soil or coarse aggregate as shown.



===== UNDERDRAIN TYPE I, II, AND III ASSEMBLY =====  
(Type II Shown, Others Similar)



===== UNDERDRAIN TYPE Va AND Vb (DRY) ASSEMBLY =====



===== UNDERDRAIN TYPE Va (WET) ASSEMBLY =====

- New detail is similar to current underdrain Va but along a wet pond.
- This gives designers another tool to meet new ERP stormwater quality standards.

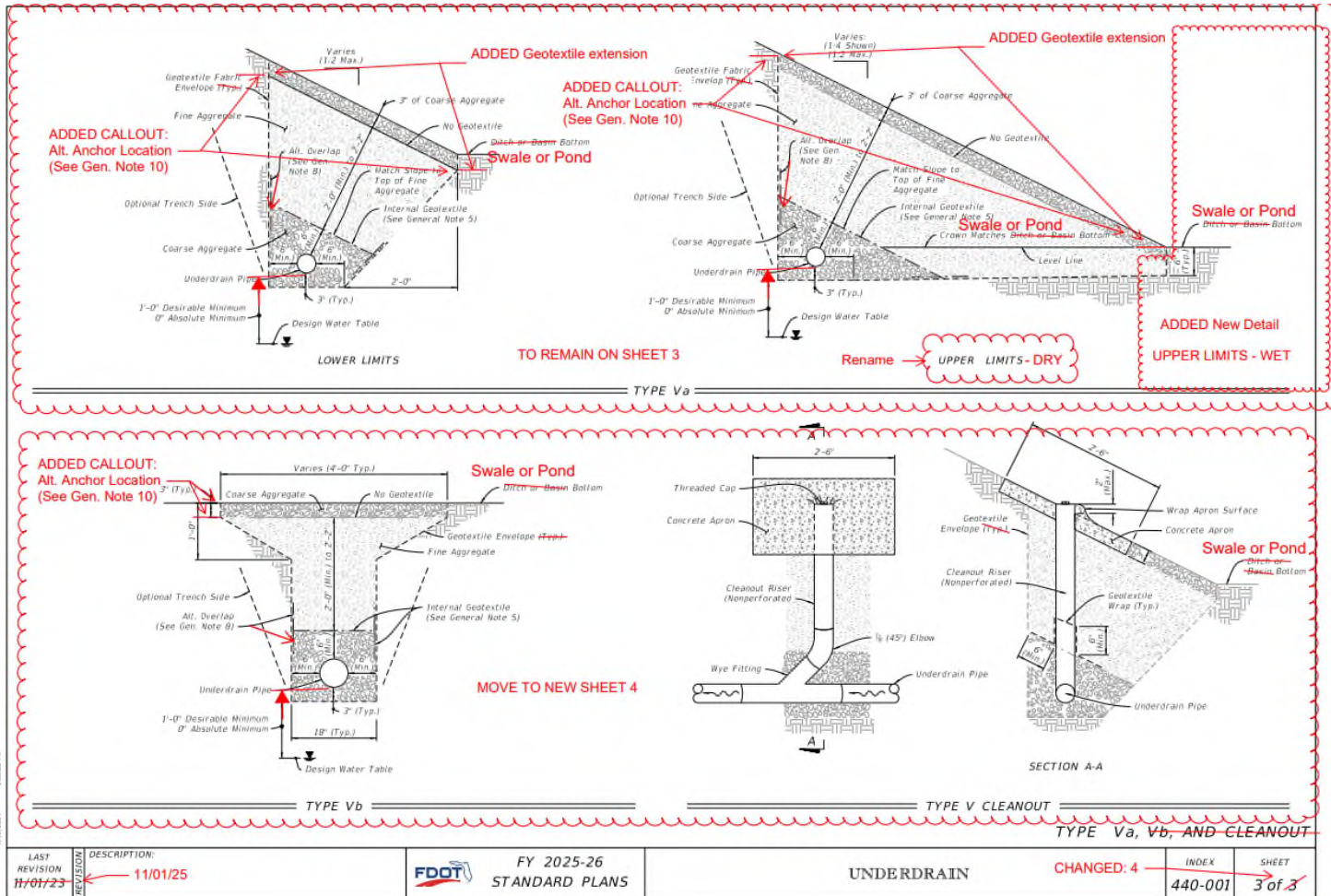
### TABLE OF CONTENTS:

Sheet	Description
1	General Notes and Contents
2	Type I, II, and III Underdrains
3	Type Va
4	Type Vb and Cleanout

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LAST REVISION 11/01/25	DESCRIPTION:	FY 2026-27 STANDARD PLANS	UNDERDRAIN	INDEX 440-001	SHEET 1 of 4
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## Sheet 3: Redlines

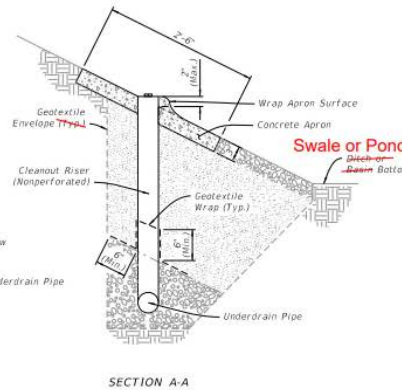
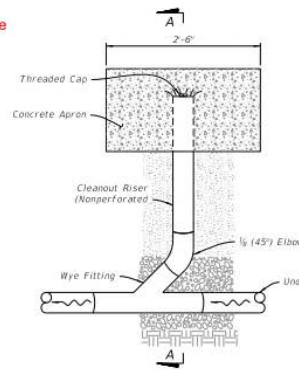
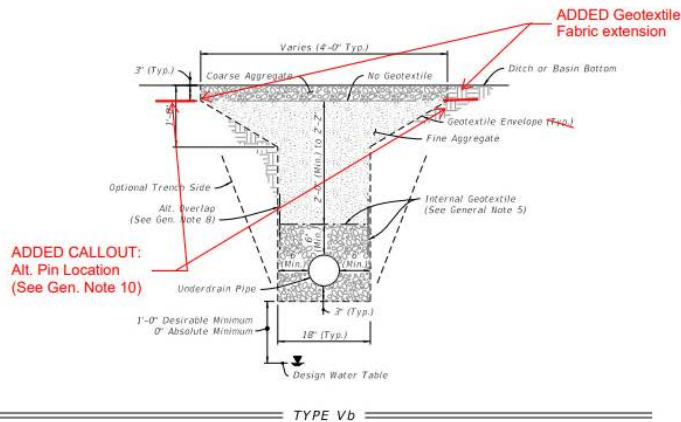


- Added alternative anchor locations and geotextile extensions to the details.
- Renamed upper limits to delineate between dry and wet applications.
- Moved Type Vb and Type V Cleanout details to new sheet 4.
- Changed “Ditch or Basin Bottom” to “Swale or Pond Bottom”

LAST REVISION 11/01/23	DESCRIPTION: 11/01/25	FDOT FY 2025-26 STANDARD PLANS	UNDERDRAIN	CHANGED: 4	INDEX 440-001	SHEET 3 of 3
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## Sheet 4: Redlines

NEW SHEET 4

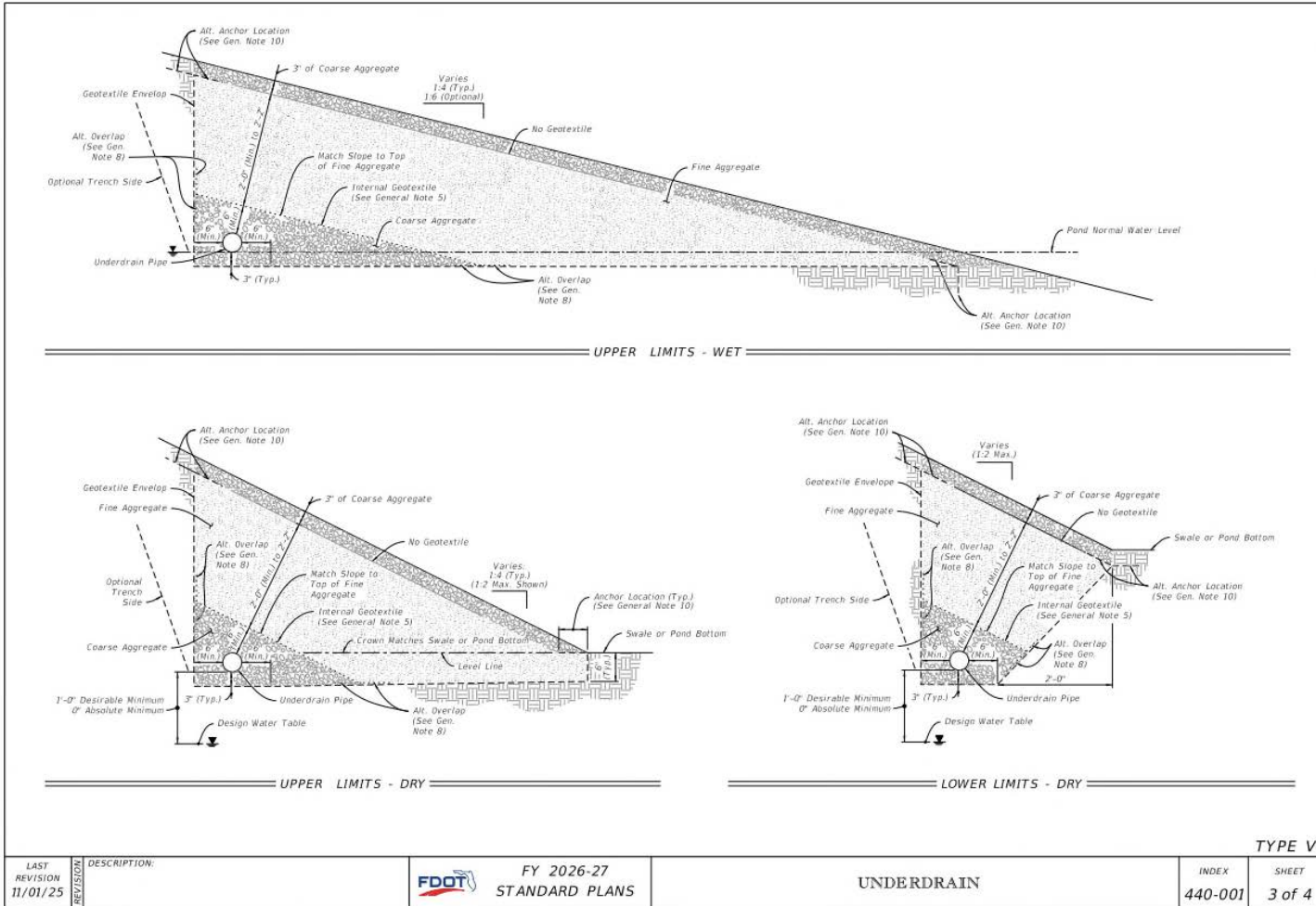


TYPE Vb, Vc, AND CLEANOUT

LAST REVISION 11/01/23	DESCRIPTION 11/01/25	FDOT FY 2025-26 STANDARD PLANS	UNDERDRAIN	CHANGED: 4 of 4	INDEX 440-001	SHEET 3 of 3
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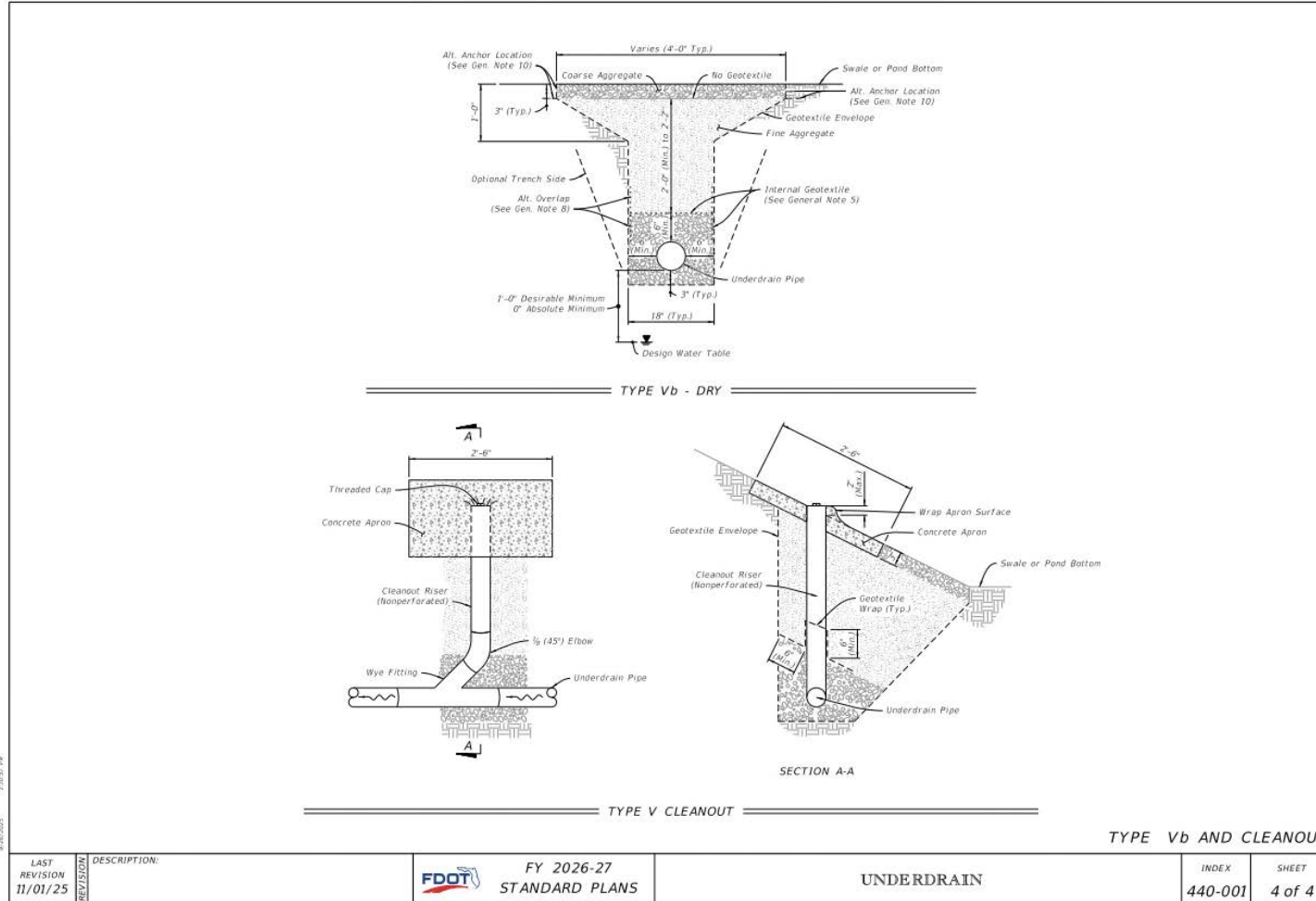
- Added alternative anchor locations and geotextile extensions to the Type Vb details
- Changed “Ditch or Basin Bottom” to “Swale or Pond Bottom”

## Sheet 3: Published Index



- These changes clarify notes/details and provide designers with more options

## \*\*NEW\*\* Sheet 4: Published Index



- These changes clarify notes/details and provide designers with more options

9/26/2025 2:38:37 PM

## Sheet 1: Redlines

### GENERAL NOTES:

#### 1. Cross Slopes and Grades:

- A. Sidewalk, ramp, and landing slopes (i.e. 0.02, 0.05, and 1:12) shown in this Index are maximums. With approval of the Engineer, provide the minimum feasible slope where the requirements cannot be met.
- B. Landings must have cross-slopes less than or equal to 0.02 in any direction.
- C. Maintain a single longitudinal slope along each side of the curb ramp. Ramp slopes are not required to exceed 15 feet in length.
- D. Joints permitted at the location of Slope Breaks. Otherwise locate joints in accordance with Index 522-001. No joints are permitted within the ramp portion of the Curb Ramp.

#### 2. Curb, Curb and Gutter and/or Sidewalk:

- A. Refer to Index 522-001 for concrete thickness and sidewalk details.
- B. Remove any existing curb, curb and gutter, or sidewalk to the nearest joint beyond the curb transition or to the extent that no remaining section is less than 5 feet long.
- C. Width of Curb Ramp is 4'-0" minimum. Match sidewalk or Shared Use Path width as shown in the Plans.

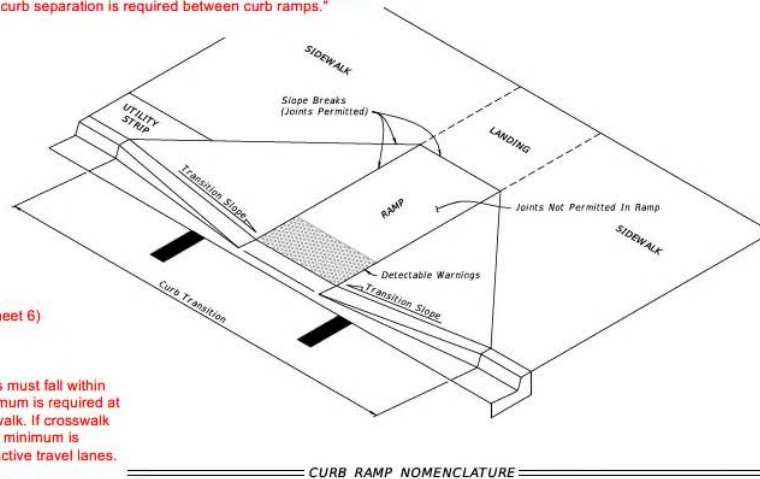
#### 3. Curb Ramp Alpha-Identification:

- A. Sidewalk curb ramp alpha-identifications (e.g. CR-A) are provided for reference purposes in the Plans.
- B. Alpha-identifications CR-I and CR-J are intentionally omitted.

#### 4. Detectable Warnings:

- A. Install detectable warnings in accordance with Specification 527.
- B. Place detectable warnings across the full width of the ramp or landing, to a minimum depth of 2 feet measured perpendicular to the curb line and no greater than 5 feet from the back of the curb or edge of pavement.
- C. If detectable warnings are shown in the Plans on slopes greater than 5%, align the truncated domes with the centerline of the ramp; otherwise, the truncated domes are not required to be aligned.

ADDED New Note 2.D:  
"Where multiple ramps exist, a minimum 48" full-height curb separation is required between curb ramps."



ADDED New Note 5: (From Notes 1 & 2 on Sheet 6)

#### 5. Crosswalks

- A. Where crosswalk markings are used, ramps must fall within the crosswalk limits. A clear space of 48" minimum is required at the bottom of the ramp within a marked crosswalk. If crosswalk markings are not present, a clear space of 48" minimum is required at the bottom of the ramp outside of active travel lanes.
- B. Crosswalk widths and configurations vary; must conform to Index 711-001.

- Moved crosswalk notes from Sheet 6 to Sheet 1 for clarity.
- Added new note addressing requirement of a 48" minimum full-height curb separation between ramps.

11/01/25

2026-27

LAST REVISION: 11/01/25	DESCRIPTION:	FY <del>2025-26</del> STANDARD PLANS	DETECTABLE WARNINGS AND SIDEWALK CURB RAMPS	INDEX 522-002	SHEET 1 of 7
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## Sheet 1: Published Index

**GENERAL NOTES:**

**1. Cross Slopes and Grades:**

- A. Sidewalk, ramp, and landing slopes (i.e. 0.02, 0.05, and 1:12) shown in this Index are maximums. With approval of the Engineer, provide the minimum feasible slope where the requirements cannot be met.
- B. Landings must have cross-slopes less than or equal to 0.02 in any direction.
- C. Maintain a single longitudinal slope along each side of the curb ramp. Ramp slopes are not required to exceed 15 feet in length.
- D. Joints permitted at the location of Slope Breaks. Otherwise locate joints in accordance with Index 522-001. No joints are permitted within the ramp portion of the Curb Ramp.

**2. Curb, Curb and Gutter, and/or Sidewalk:**

- A. Refer to Index 522-001 for concrete thickness and sidewalk details.
- B. Remove any existing curb, curb and gutter, or sidewalk to the nearest joint beyond the curb transition or to the extent that no remaining section is less than 3 feet long.
- C. Width of Curb Ramp is 4'-0" minimum. Match sidewalk or Shared Use Path width as shown in the Plans.

**3. Curb Ramp Alpha-Identification:**

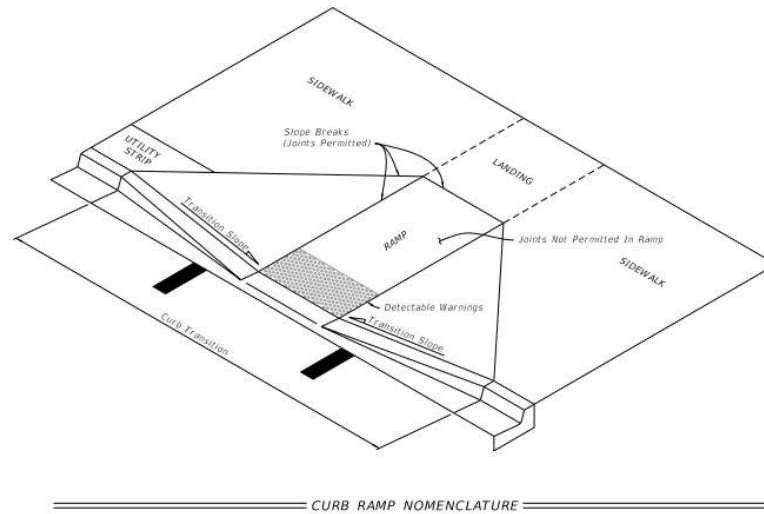
- A. Sidewalk curb ramp alpha-identifications (e.g. CR-A) are provided for reference purposes in the Plans.
- B. Alpha-identifications CR-I and CR-J are intentionally omitted.

**4. Detectable Warnings:**

- A. Install detectable warnings in accordance with Specification 527.
- B. Place detectable warnings across the full width of the ramp or landing, to a minimum depth of 2 feet measured perpendicular to the curb line and no greater than 5 feet from the back of the curb or edge of pavement.
- C. If detectable warnings are shown in the Plans on slopes greater than 5%, align the truncated domes with the centerline of the ramp; otherwise, the truncated domes are not required to be aligned.
- D. Where multiple ramps exist, a minimum 48" full-height curb separation is required between curb ramps.

**5. Crosswalks**

- A. Where crosswalk markings are used, ramps must fall within the crosswalk limits. A clear space of 48" minimum is required at the bottom of the ramp within a marked crosswalk. If crosswalk markings are not present, a clear space of 48" minimum is required at the bottom of the ramp outside of active travel lanes.
- B. Crosswalk widths and configurations vary; must conform to Index 711-001.



- These changes consolidate all sidewalk curb ramp notes to one sheet and address an often-overlooked separation requirement.

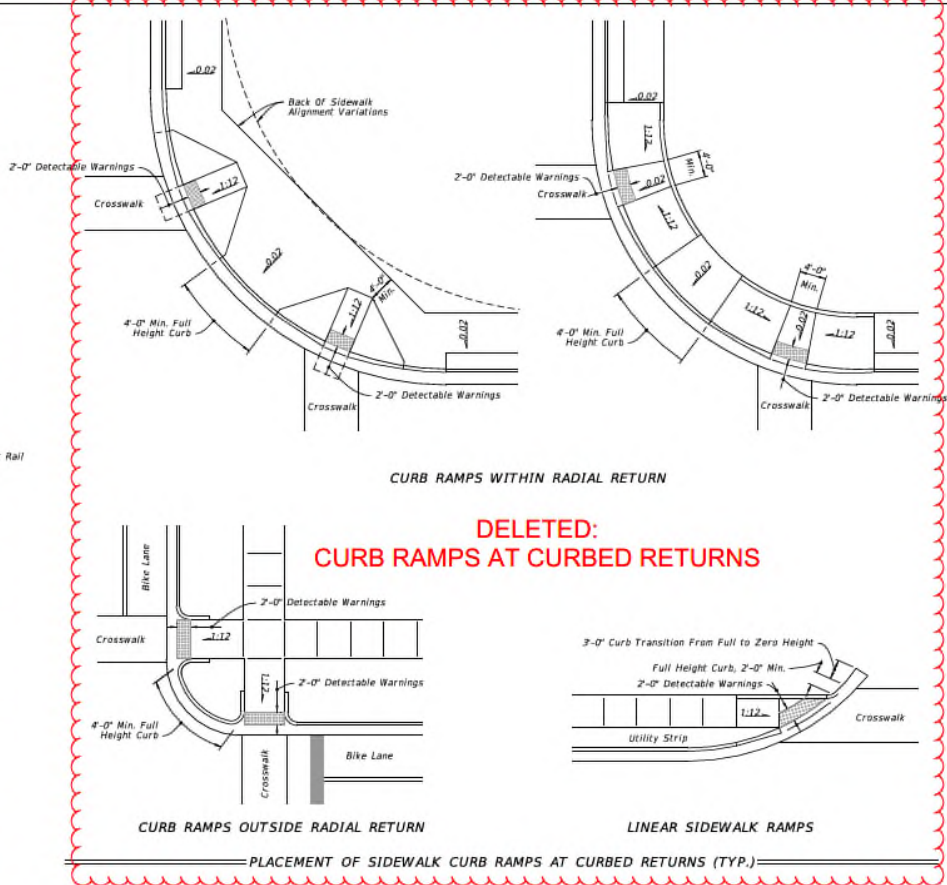
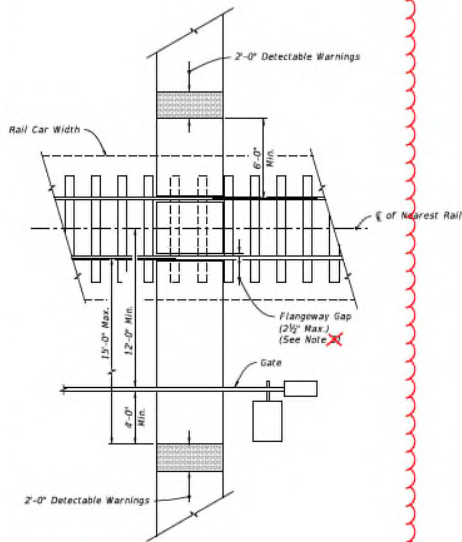
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<b>LAST REVISION</b> 11/01/25	<b>REVISION</b>	<b>DESCRIPTION:</b>	 <b>FY 2026-27</b> <b>STANDARD PLANS</b>	DETECTABLE WARNINGS AND SIDEWALK CURB RAMPS	INDEX 522-002	SHEET 1 of 7
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## Sheet 7: Redlines

**NOTES: MOVED: Notes 1 and 2 to Sheet 1**

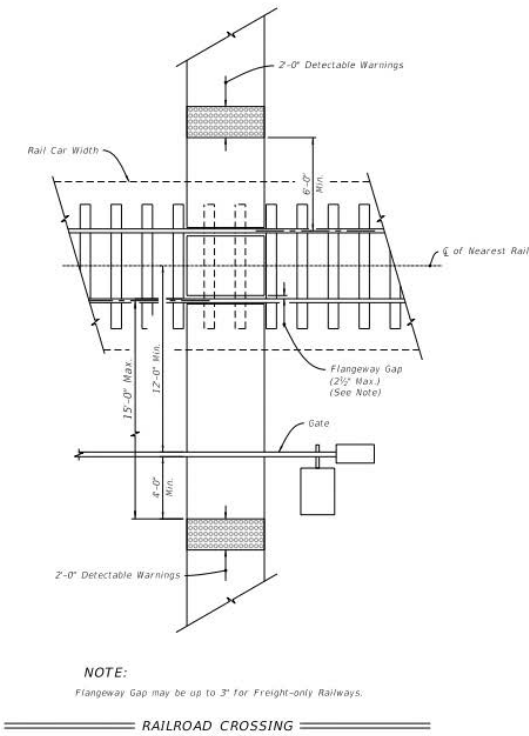
1. ~~When crosswalk markings are used, ramps must fall within the crosswalk limits. A clear space of 48" minimum is required at the bottom of the ramp within a marked crosswalk. If crosswalk markings are not present, a clear space of 48" minimum is required at the bottom of the ramp outside of active travel lanes.~~
2. ~~Crosswalk widths and configurations vary; must conform to Index 711-001.~~
3. ~~Flangeway Gap may be up to 3" for Freight-only Railways.~~



- Moved notes to Sheet 1, retained railroad crossing note.
- Removed the typical curb ramp placement details. Guidance was added to the FDM with regards to priority of curb ramp placement.

11/01/25		2026-27		RAILROAD CROSSING AND CURB RAMPS AT CURBED RETURNS	
LAST REVISION: 11/01/20	DESCRIPTION:	FDOT	FY 2025-26 STANDARD PLANS	INDEX	SHEET
			DETECTABLE WARNINGS AND SIDEWALK CURB RAMPS	522-002	7 of 7

## Sheet 7: Published Index



- *These changes clean up the index and allow for more project-specific curb ramp designs.*

LAST REVISION 11/01/25	DESCRIPTION: FY 2026-27 STANDARD PLANS	RAILROAD CROSSING RAILROAD CROSSING DETECTABLE WARNINGS AND SIDEWALK CURB RAMPS	INDEX 522-002	SHEET 7 of 7
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## Old Sheet 1, New Sheet 2 : Redlines

**GENERAL NOTES: NEW SHEET 1**

- Single-Column Signs Shown, Multi-Column Signs similar. These typical sections serve as a guide for locating the traffic signs required under various roadside conditions. For size and details of sign construction and footing, refer to the appropriate Index and Plans.
- Verify the length of sign supports in the field prior to fabrication.
- Install ground signs at an angle of 1 to 4 degrees away from the traffic flow (see illustration). Install shoulder mounted signs rotated counterclockwise and median mounted signs rotated clockwise. Install signs on a curve as noted above from the perpendicular to the motorist line of sight.
- The setback for Stop and Yield signs may be reduced to 2' minimum from the Edge of Traveled Way if required for visibility in business or residential sections with no curb and speeds of 30 MPH or less.
- The mounting heights are measured from the bottom of the sign panel to a horizontal line extended from the Edge of Traveled Way or from the ground surface at the back of curb. If the standard heights cannot be met, the minimum heights are as follows:
  - Limited Access Roadways - 7'
  - Arterial and Collector Roadways:
    - 7' - Rural
    - 7' - Urban (including residential with parking and/or pedestrian activity)
  - Limited Access Roadways:
    - If a secondary sign is mounted below the major sign, mount the major sign so that the bottom of the sign is at least 8' above the edge of the traveled way and the secondary sign at least 5' above the edge of the traveled way.
  - Arterial and Collector Roadways:
    - Rural, mount the secondary sign at least 5' above the edge of the traveled way.
    - Urban, mount the secondary sign at least 7' above the edge of the traveled way.
- Do not install sign supports in the bottom of ditches.
- Install sign supports so they do not reduce the accessible width of sidewalks or shared use paths to less than 4' min. clear width.
- CASE X sign placement is for Interchange Exit Ramps only. Use CASE 1 through Case VIII as appropriate for all other Wrong Way signs.

**CHANGED NOTE:**

- Sign Supports:
  - A. Install sign supports, so they do not reduce the accessible width of sidewalk to less than 4' min. clear width.
  - B. Install sign supports along shared use paths, so a 4-foot clear area is adjacent to both sides of the shared use path.
  - C. Install sign supports along urban side paths so there is a 2-foot buffer along both sides of the path.

**ADDED DETAILS showing the SIDEWALK, SHARED USE PATH, and URBAN SIDE PATH**

**NOTES:**

- For separators  $\pm 6-0"$ , center the sign within the separator, center sign column on island.
- Offset 6'-0" Std. (2'-0" Min.) from Median or Island Note.

**NOTE:** For more information refer to Section 2H of the MUTCD.

**INSTALL RETROREFLECTIVE STRIP IN ACCORDANCE WITH SPECIFICATION 700 (STATIC SIGNS ONLY)**

**2026-27**

**FDOT** FY 2025-26 STANDARD PLANS

**TYPICAL SECTIONS FOR PLACEMENT OF SINGLE AND MULTI-COLUMN SIGNS**

INDEX 700-101

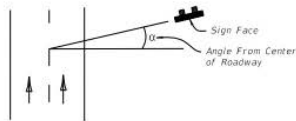
2 SHEET 2  
1 of 1

- An additional sheet was necessary to address crowded index. Details and notes retained on Sheet 1.
- Note 7 added to provide more guidance on placement of signs along shared use paths and urban side paths.

## Sheet 1: Published Index

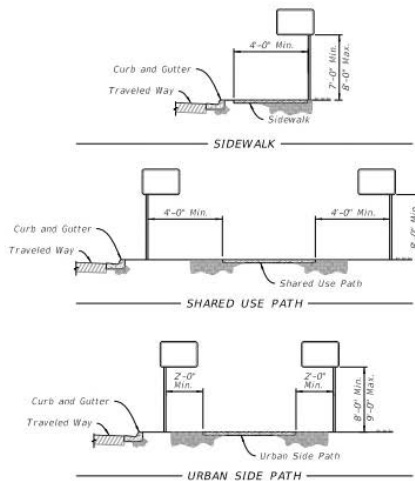
**GENERAL NOTES:**

1. Single-Column Signs Shown. Multi-Column Signs similar. These typical sections serve as a guide for locating the traffic signs required under various roadside conditions. For size and details of sign construction and footing, refer to the appropriate Index and Plans.
2. Verify the length of sign supports in the field prior to fabrication.
3. Install ground signs at an angle of 1 to 4 degrees away from the traffic flow (see illustration). Install shoulder mounted signs rotated counterclockwise and median mounted signs rotated clockwise. Install signs on a curve as noted above from the perpendicular to the motorist line of sight.



4. The setback for Stop and Yield signs may be reduced to 3' minimum from the Edge of Traveled Way if required for visibility in business or residential sections with no curb and speeds of 30 MPH or less.
5. The mounting heights are measured from the bottom of the sign panel to a horizontal line extended from the Edge of Traveled Way or from the ground surface at the back of curb. If the standard heights cannot be met, the minimum heights are as follows:
  - A. Limited Access Roadways – 7'. If a secondary sign is mounted below the major sign, mount the major sign so that the bottom of the sign is at least 8' above the edge of the traveled way and the secondary sign at least 5' above the edge of the traveled way.
  - B. Arterial and Collector Roadways: 5'-Rural, mount the secondary sign at least 5' above the edge of the traveled way; 7'-Urban (including residential with parking and/or pedestrian activity), mount the secondary sign at least 7' above the edge of the traveled way.

6. Do not install sign supports in the bottom of ditches.
7. CASE X sign placement is for Interstate Exit Ramps only. Use CASE I through Case VIII as appropriate for all other Wrong Way Signs.
8. Sign Supports:
  - A. Install sign supports, so they do not reduce the accessible width of sidewalk to less than 4' min. clear width.
  - B. Install sign supports along shared use paths, so a 4-foot clear area is adjacent to both sides of the shared use path.
  - C. Install sign supports along urban side paths so there is a 2-foot buffer along both sides of the path.



- Additional language was needed in 700-101 and the FDM to inform designers on proper placement of sign supports along these paths.

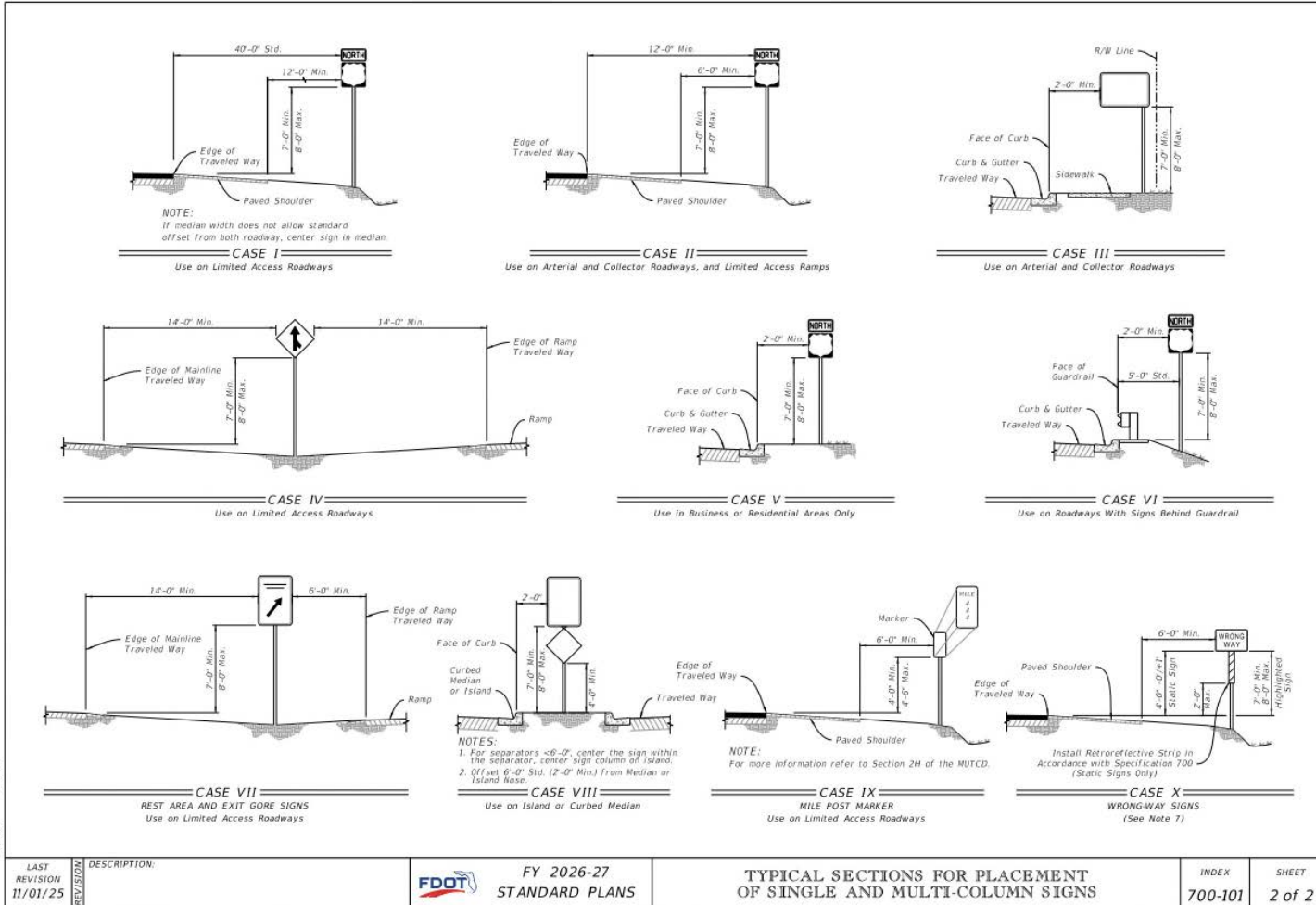
LAST REVISION	DESCRIPTION:
11/01/25	

	FY 2026-27 STANDARD PLANS
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TYPICAL SECTIONS FOR PLACEMENT OF SINGLE AND MULTI-COLUMN SIGNS

INDEX	SHEET
700-101	1 of 2

## Sheet 2: Published Index



- Case usage details were moved to separate Sheet 2 for clarity purposes.

# Contact Us:



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2026-27

# Standard Plans Update Training

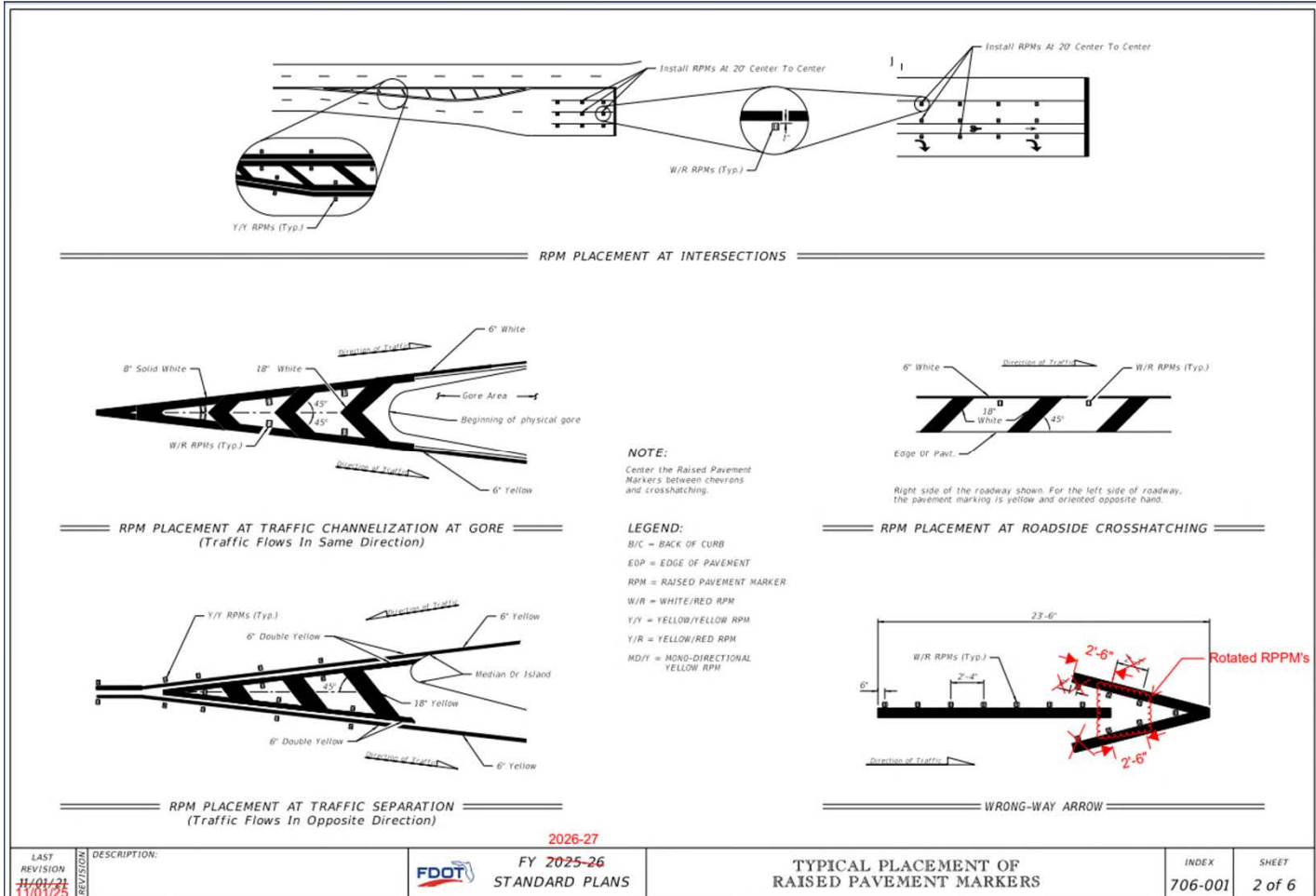
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## **Standard Plans – Primary Updates:**

- 1) **Index 706-001 Typical Placement of Raised Pavement Markers**
  - *Sheet 2: Removed two RPMs from Wrong Way Arrow detail; Updated dimension to 2'-6"; Rotated RPMs within the arrow to match the rest of the RPMs.*
  
- 2) **Index 711-001 Pavement Markings**
  - *Sheet 7: Added Drivable Base option to Detail "A"; Updated Notes 1 and 2.*
  
- 3) **Index 711-003 Interchange Markings**
  - *Sheet 2: Added SINGLE-LANE PARALLEL-TYPE ENTRANCE WITHOUT ADDED LANE detail.*
  - *Sheet 5: Updated wrong-way arrows to match 706-001.*
  - *Sheet 6: DELETED arrow pointers for 6" white lines; CHANGED 12" to 8"; UPDATED Note 1; ADDED Note 2; ADDED Detail "C"; ADDED chevron markings to gores; CLARIFIED edge of pavement details; Updated wrong-way arrows to match 706-001.*
  - *Sheet 7: Updated wrong-way arrows to match 706-001, removed edge line markings from crosswalk areas.*
  - *SPI Additions – Design guidance re: yellow vs. white edge line.*

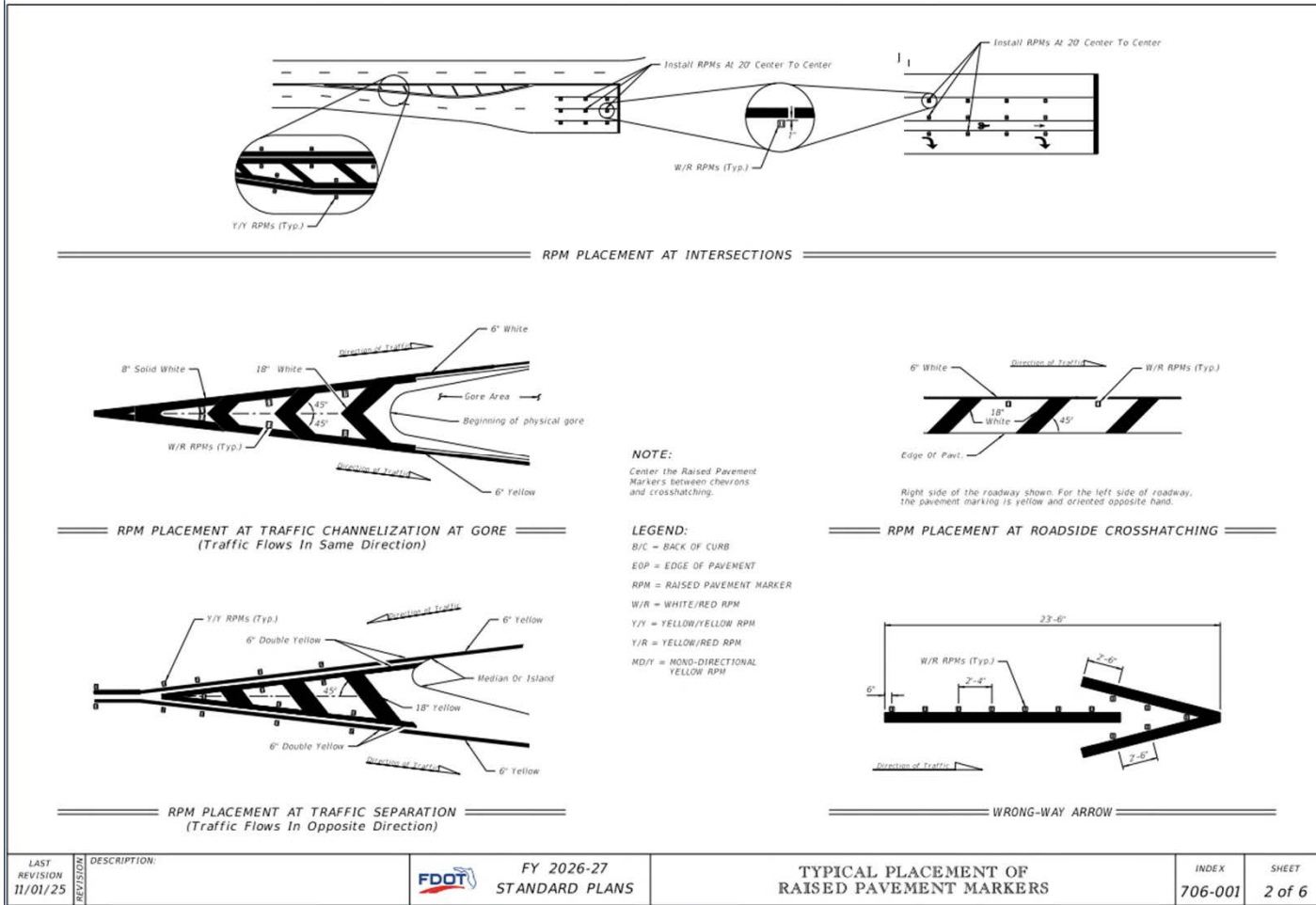
## Sheet 2: Removed RPMs from Wheel Path in Wrong-Way Arrow



• Removed two RPMs from Wrong Way Arrow detail; Updated dimension to 2'-6"; Rotated RPMs within the arrow to match the rest of the RPMs.

LAST REVISION 11/01/21 11/01/25	DESCRIPTION: 2026-27 FY 2025-26 STANDARD PLANS	TYPICAL PLACEMENT OF RAISED PAVEMENT MARKERS	INDEX 706-001	SHEET 2 of 6
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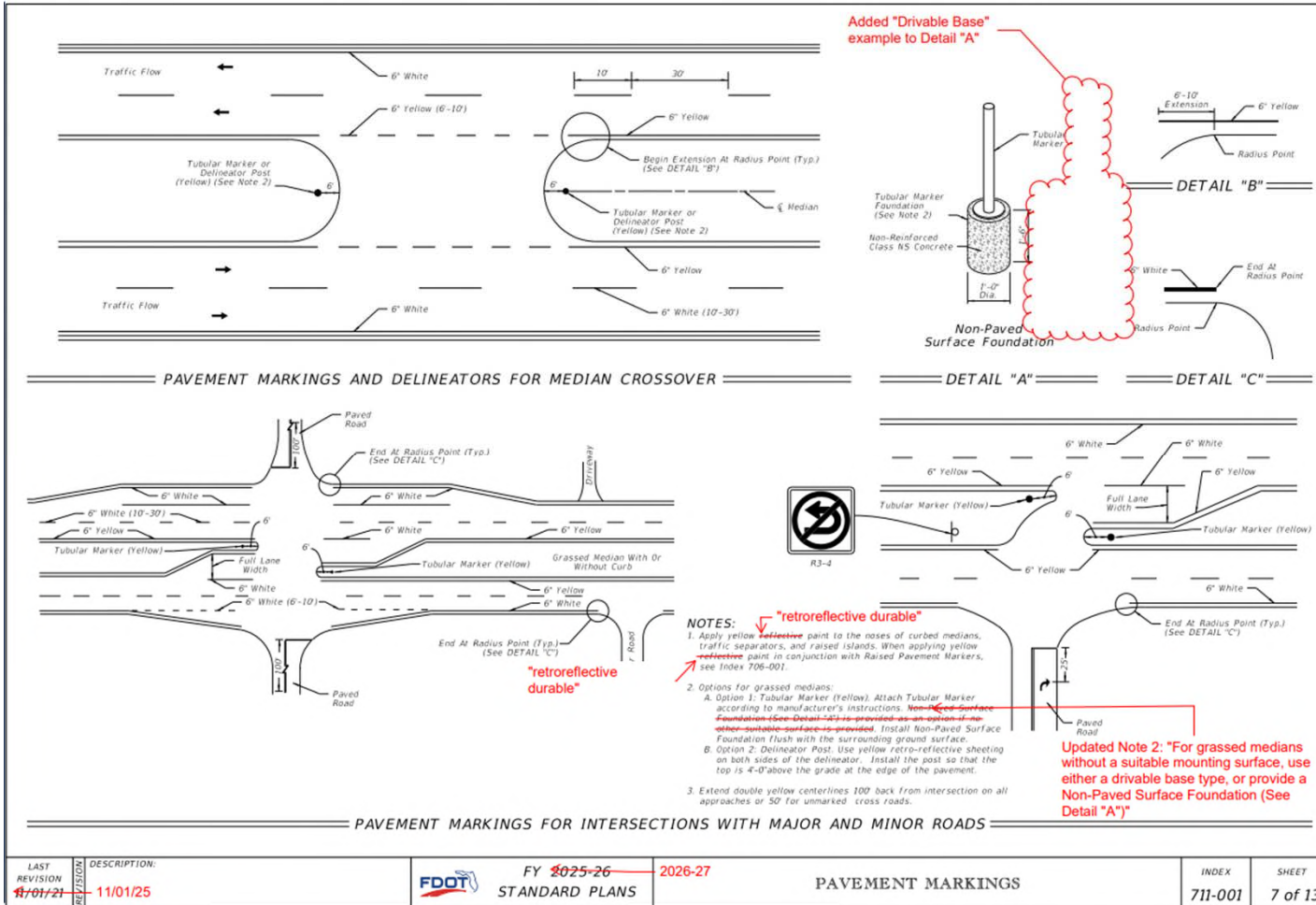
## Sheet 2: Removed RPMs from Wheel Path in Wrong-Way Arrow



In response to District requests to reduce noise/driver disruption.

LAST REVISION 11/01/25	DESCRIPTION:	FY 2026-27 STANDARD PLANS	TYPICAL PLACEMENT OF RAISED PAVEMENT MARKERS	INDEX 706-001	SHEET 2 of 6
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## Sheet 7: Base Option Added for Tubular Markers in Grassed Areas

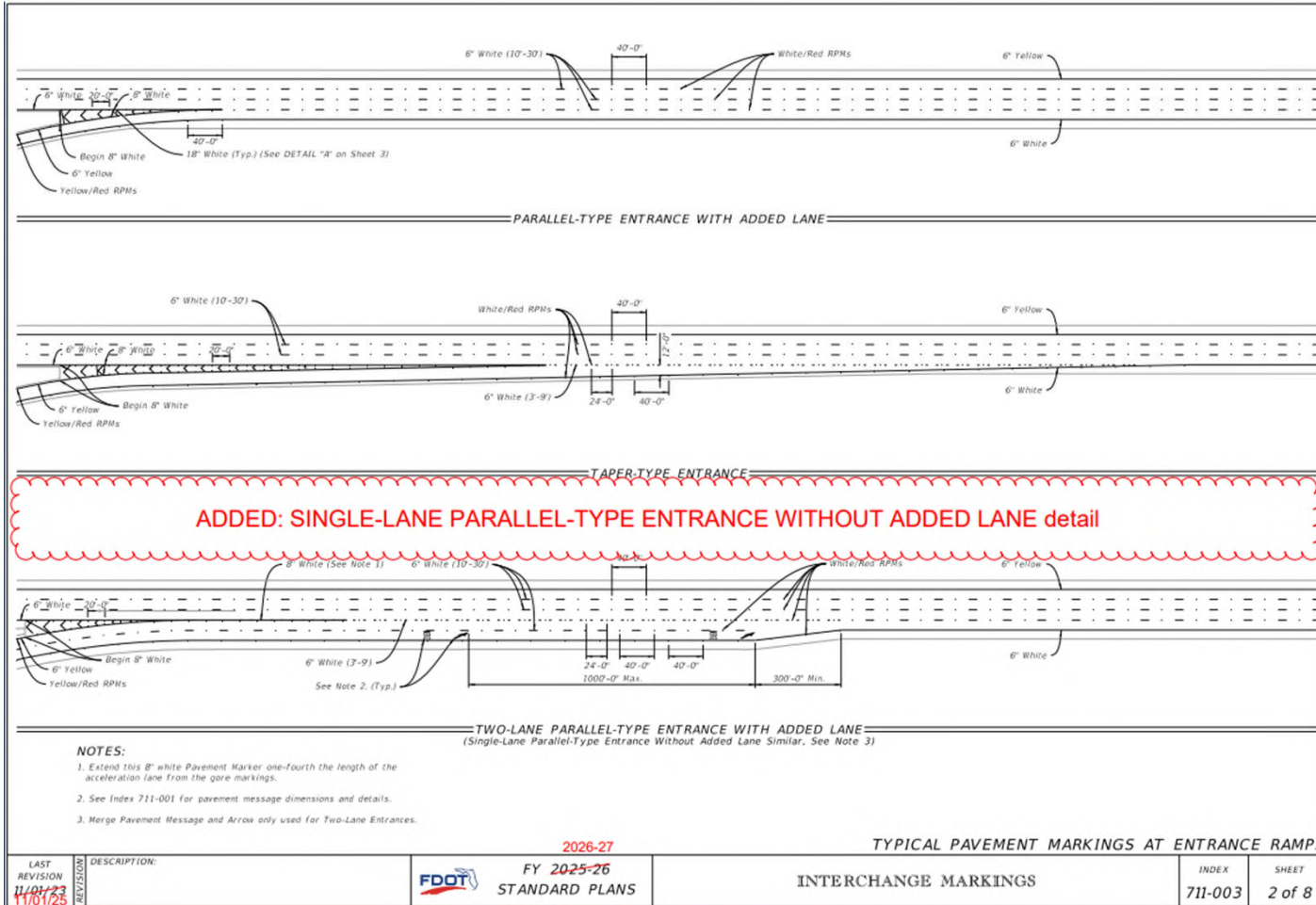


- **Sheet 7: Added Drivable Base option to Detail "A"; Updated Notes 1 and 2.**

LAST REVISION 11/01/21	DESCRIPTION: 11/01/25	FDOT STANDARD PLANS	FY 2025-26 2026-27	PAVEMENT MARKINGS	INDEX 711-001	SHEET 7 of 13
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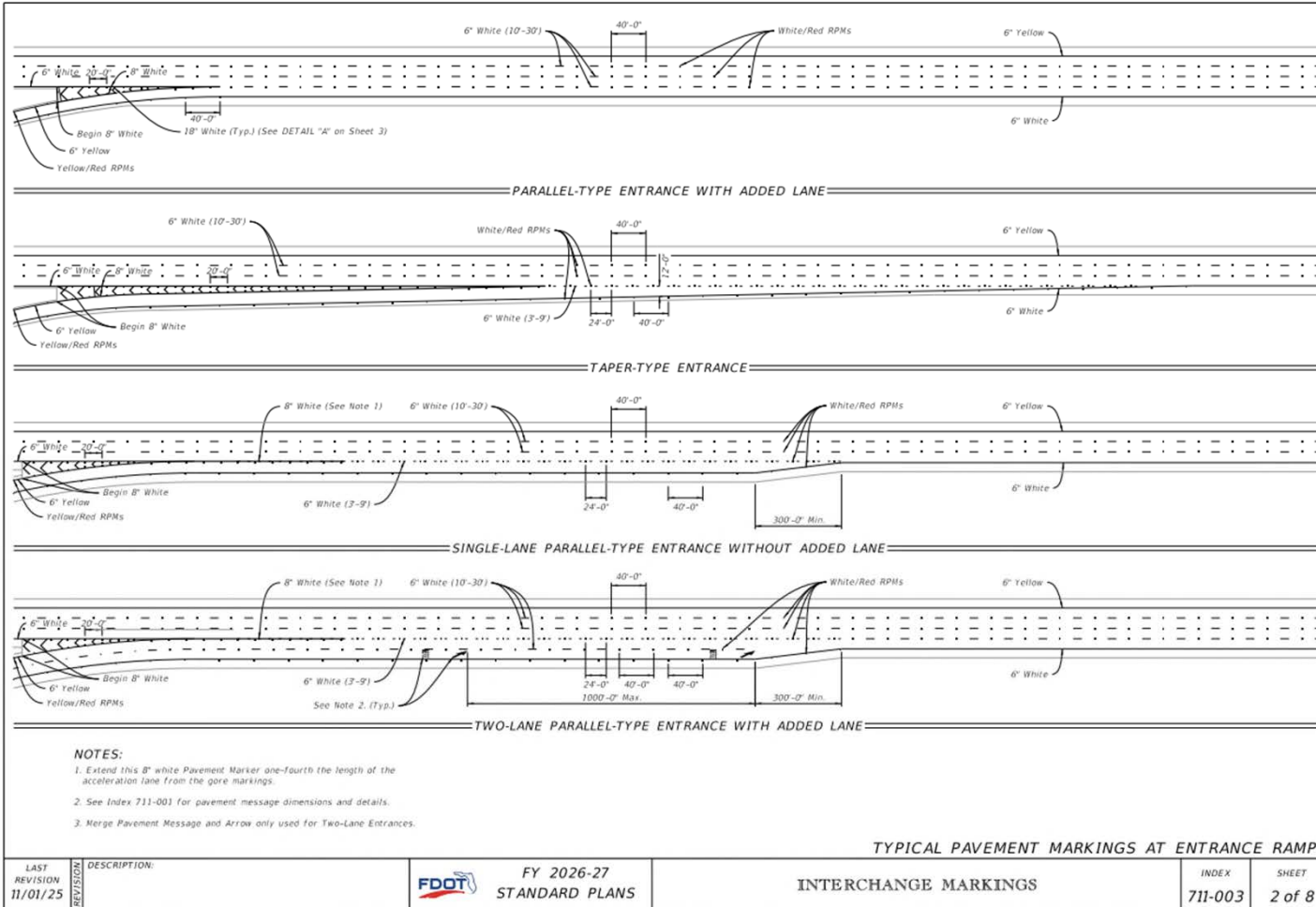


## Sheet 2: New Detail for Single Lane Parallel Entrance w/o Added Lane



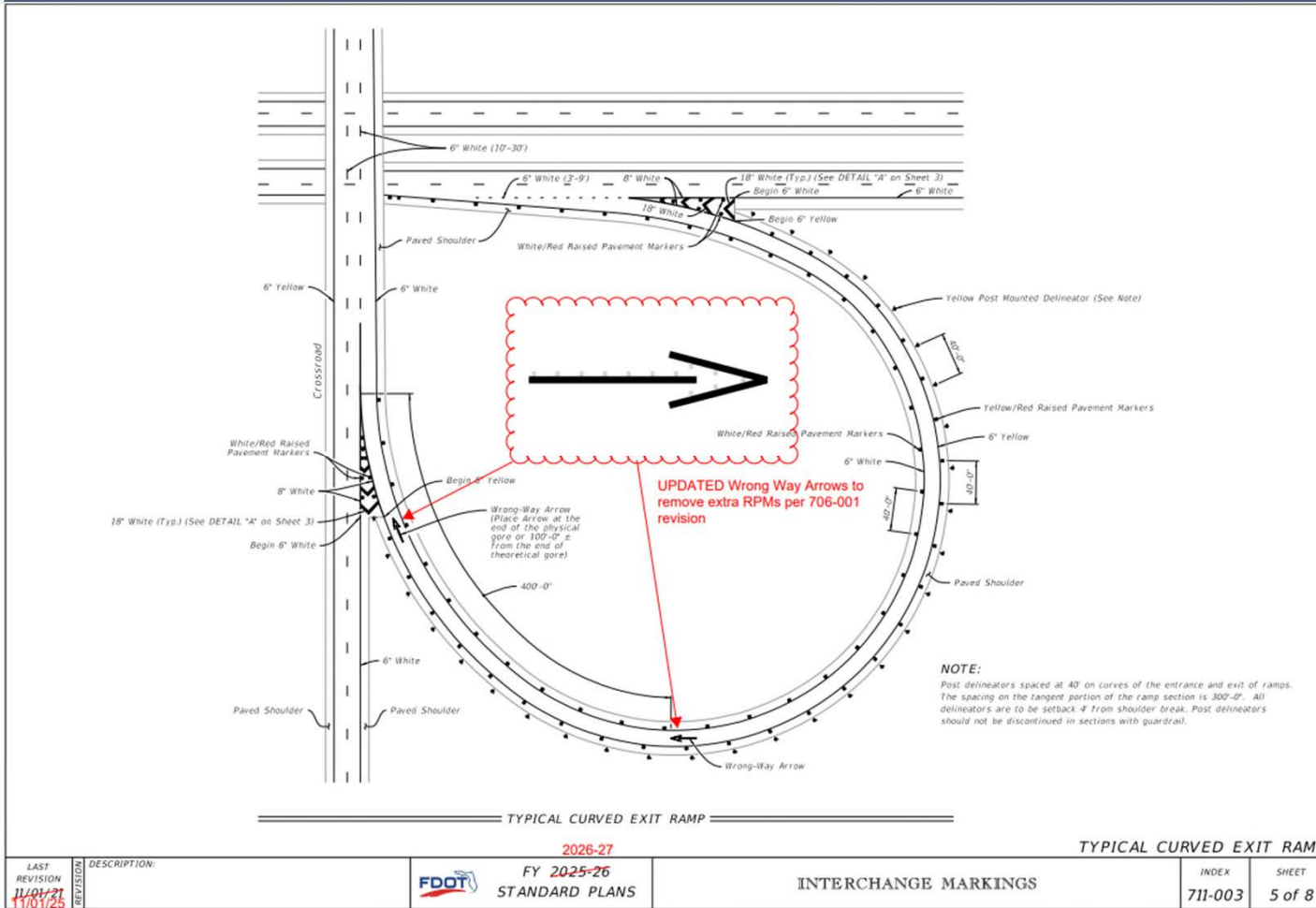
*Sheet 2: Added SINGLE-LANE PARALLEL-TYPE ENTRANCE WITHOUT ADDED LANE detail.*

## Sheet 2: New Detail for Single Lane Parallel Entrance w/o Added Lane



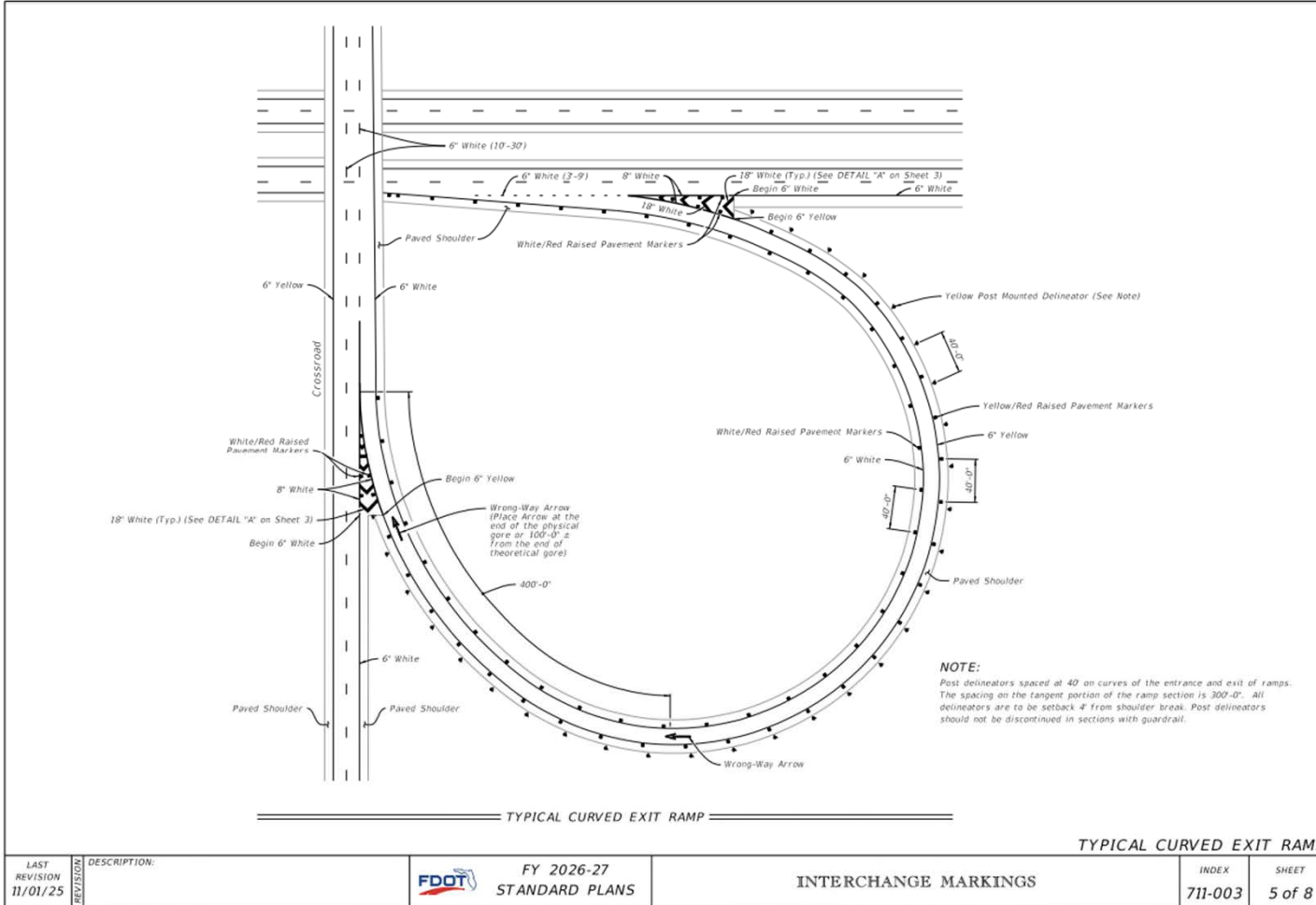
Due to ongoing confusion on what striping to use in Parallel-Type Entrances, a detail was added for SINGLE-LANE PARALLEL-TYPE ENTRANCE WITHOUT ADDED LANE for clarification.

## Sheet 5: Updated Wrong Way Arrow to be consistent with 706-001



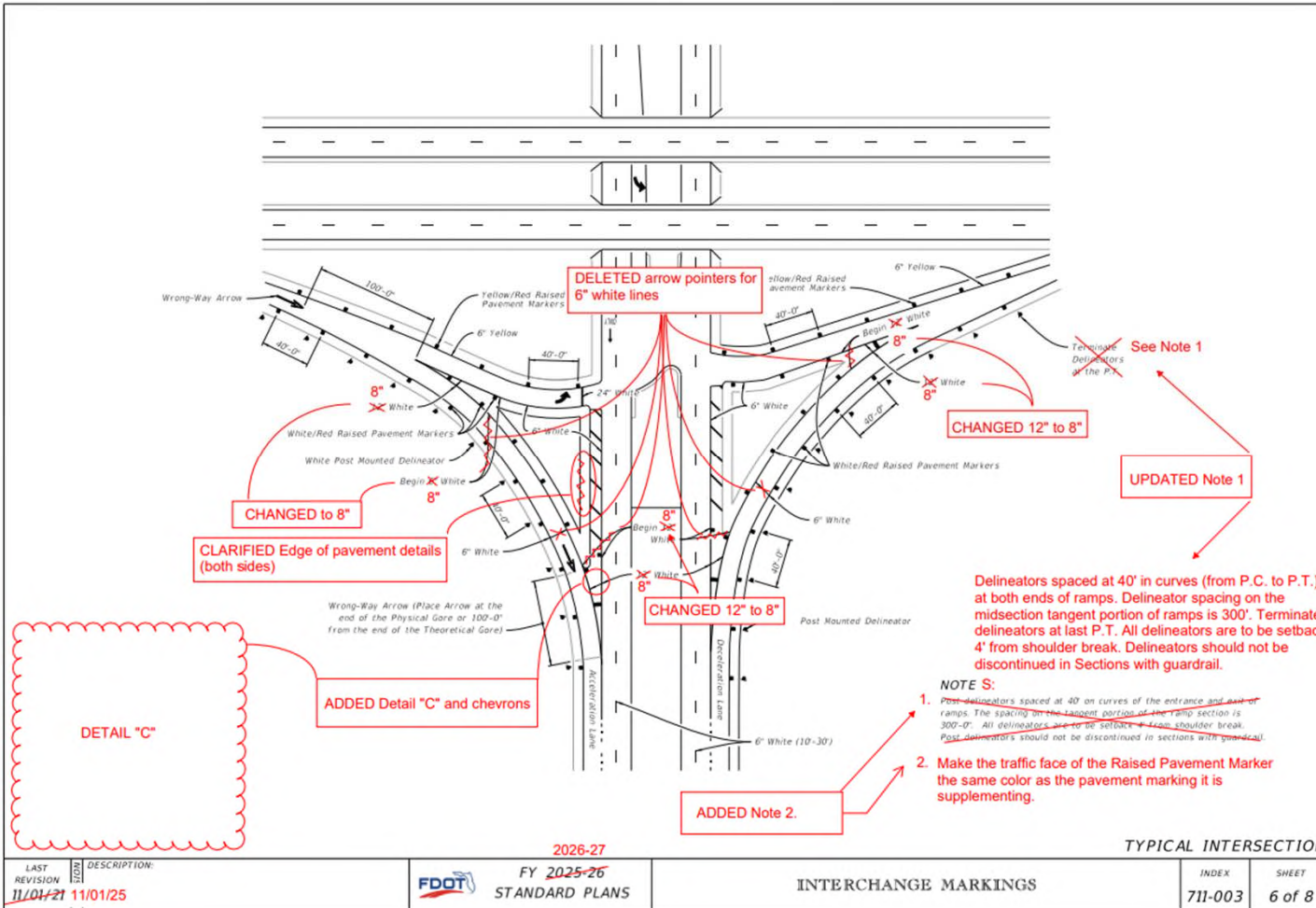
*Sheet 5: Updated wrong-way arrows to match 706-001.*

## Sheet 5: Updated Wrong Way Arrow to be consistent with 706-001



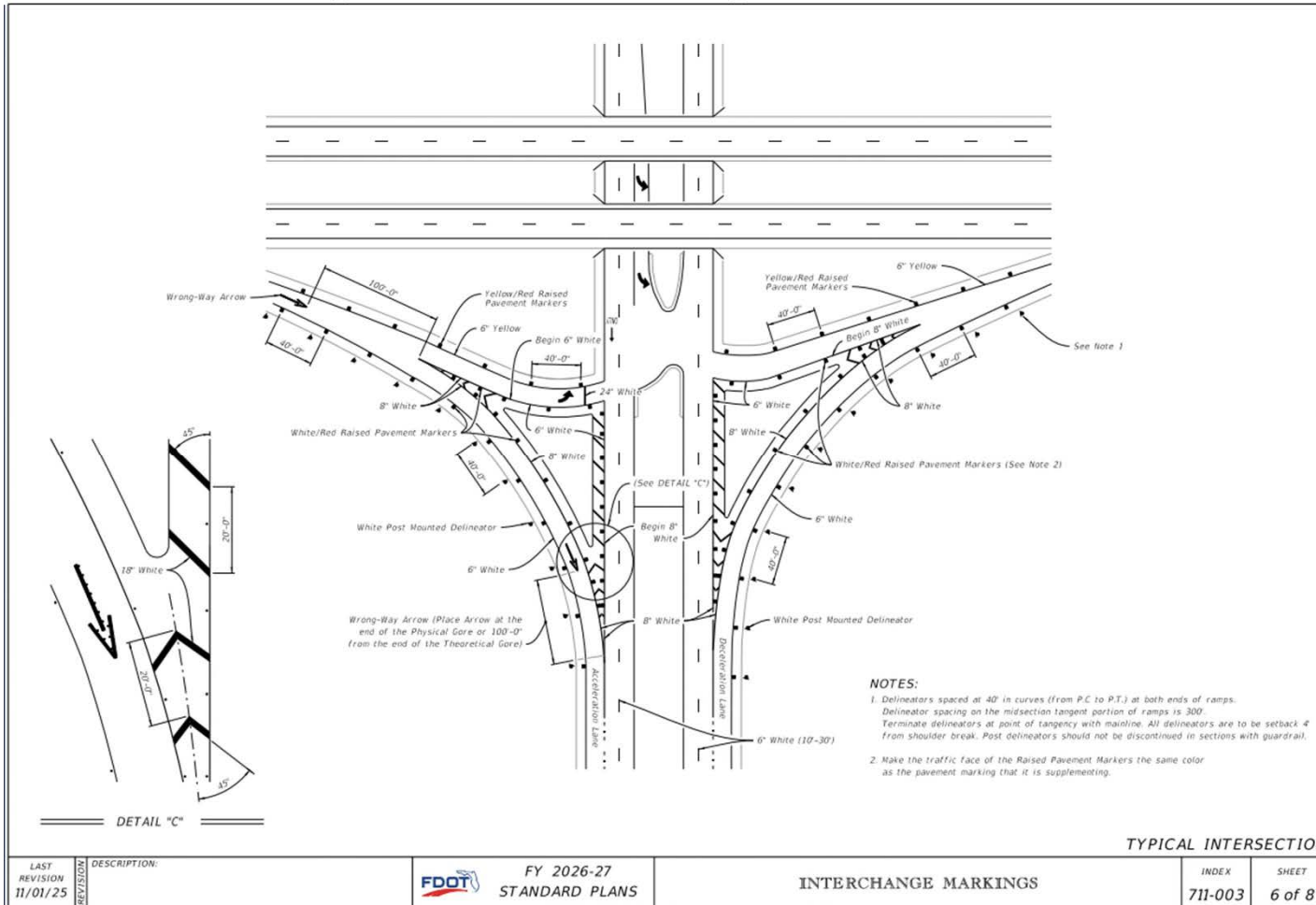
Updates needed for WWD Arrows to match proposed revision to 706-001.

## Sheet 6: Changes to Channelizing Line at Gore



*Sheet 6: DELETED arrow pointers for 6" white lines; CHANGED 12" to 8"; UPDATED Note 1; ADDED Note 2; ADDED Detail "C"; ADDED chevron markings to gores; CLARIFIED edge of pavement details. UPDATED WWD Arrows.*

## Sheet 6: Changes to Channelizing Line at Gore



Updated line widths to be consistent with MUTCD guidance. Added Note 2 to clarify RPM color for either channelizing/edge line option; Updated Note 1 to clarify delineator spacings and termination point; Added chevrons and the related Detail "C" for clarity; Updated WWD Arrows to match 706-001.

LAST REVISION 11/01/25	DESCRIPTION:	FY 2026-27 STANDARD PLANS	INTERCHANGE MARKINGS	INDEX 711-003	SHEET 6 of 8
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## SPI 711-001 through 711-003 Guidance and Pay Items:

Standard Plans Instructions

Topic No. 625-010-003

Indexes 711-001 through 711-003 – Pavement Markings

FY 2026-27

### Indexes 711-001 through 711-003 – Pavement Markings

#### Design Criteria

*FHWA Manual on Uniform Traffic Control Devices (MUTCD); FDOT Design Manual (FDM); FDOT Traffic Engineering Manual (TEM)*

#### Design Assumptions and Limitations

These Indexes provide standard details for the pavement markings at intersections for major and minor roads, turn lanes, express lanes, parking facilities, school zones, interchanges, and bicycle facilities.

Consider the size of islands separating traffic flows in the same general direction when designating the pavement markings that outline the island; Where traffic passes on the right of an island separating traffic flows in the same general direction, a yellow edge line should be used adjacent to islands of discernible size or length instead of continuing the white channelizing line.

See the [TEM](#), [FDM 223](#), and [FDM 230](#) for detailed criteria on the selection of appropriate pavement marking layouts and material selection.

#### Plan Content Requirements

See [FDM 940](#). Provide the appropriate detail in the Signing and Pavement Marking Plans for all pavement markings.

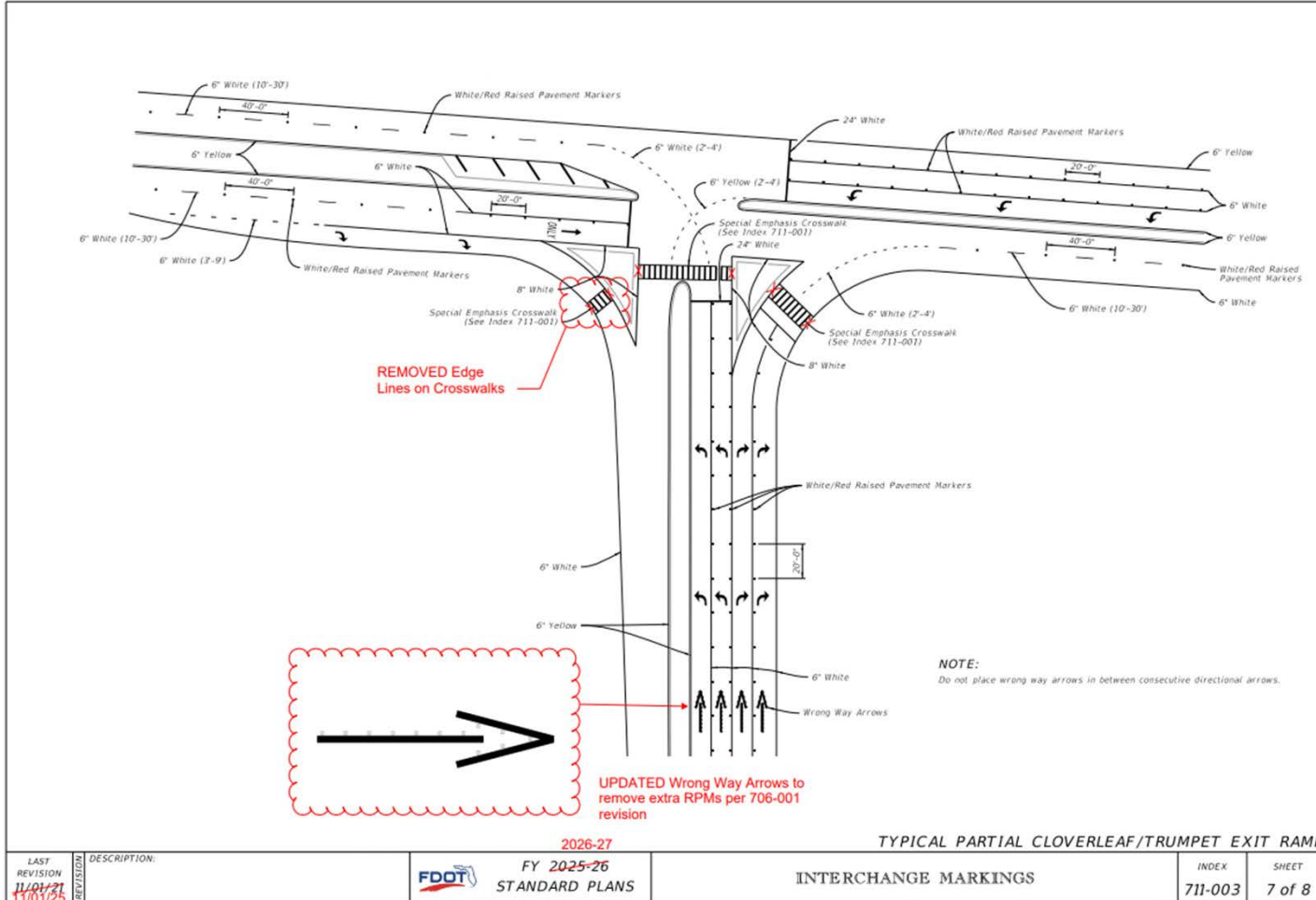
#### Payment

Item number	Item Description	Unit Measure
701-1A-BCD	Profiled Thermoplastic	GM
<a href="#">709-1A-BCD</a>	<a href="#">Two Reactive Component Pavement Markings</a>	<a href="#">Mixed</a>
<a href="#">710-</a>	<a href="#">Painted Pavement Markings</a>	<a href="#">Mixed</a>
711-1A-BCD	Thermoplastic Pavement Markings	Mixed
713-1A-BCD	Permanent Tape	Mixed
<a href="#">714-10-A</a>	<a href="#">Green Colored Pavement Markings</a>	<a href="#">SF</a>
<a href="#">704-1-A</a>	<a href="#">Tubular Markers</a>	<a href="#">EA</a>
<a href="#">705-11-A</a>	<a href="#">Delineator</a>	<a href="#">EA</a>

See the [BOE](#) and [Specification 701, 704, 705, 709, 710, 711, 713, and 714 and 743](#) for additional information on payment, pay item use and compensation.

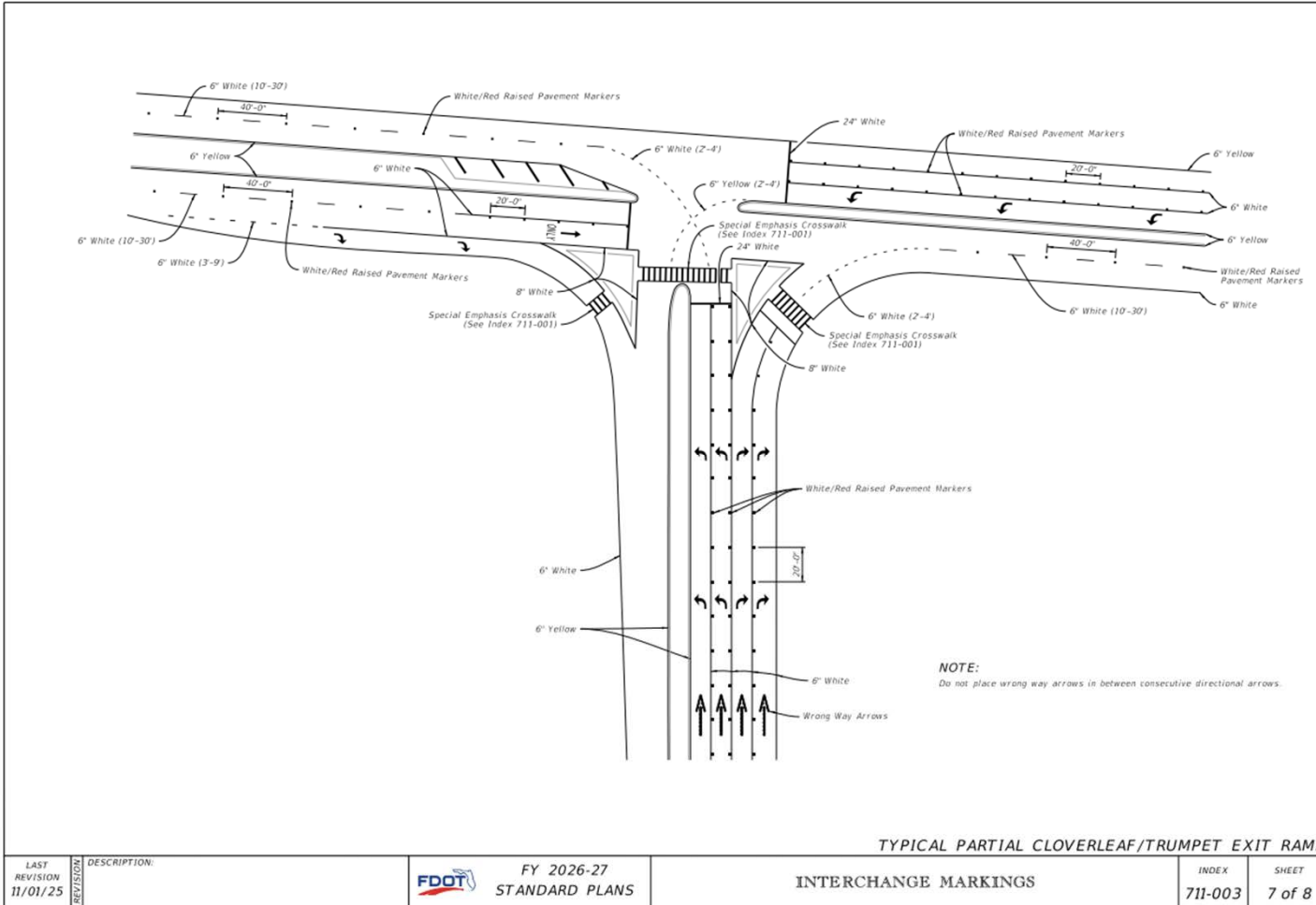
*SPI Updates: Design guidance regarding the use of a wide channelizing line vs. a yellow edge line; Added remaining marking types to the pay item table.*

## Sheet 7: Updated Wrong Way Arrow to be Consistent with 706-001



*Sheet 7: Updated wrong-way arrows to match 706-001; Removed edge line markings from crosswalk areas.*

## Sheet 7: Updated Wrong Way Arrow to be Consistent with 706-001



Updates needed for WWD Arrows to match proposed revision to 706-001 and to remove edge line markings through the crosswalks.

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# FY 2026-27

# Standard Plans Update Training

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## Standard Plans – Primary Updates:

### 1) **Index 550-001 – Fence Type A**

- *Sheet 1: **Moved** General Notes 2, 6a,b,c,d, 7 (recycled plastic requirements), 8, 10, 11, 19 (payment note) and 21 to Specifications 550, 954, 962, and 965. **Updated** General Note 3 to allow fencing wire to be installed on either side of the fence. **Updated** General Note 4 to reference Specification 550 and allow a combination of materials "with Engineer approval." **Moved** General Notes 4, 5a,c, 6e, 7 (staple note), 9, 15, 18, and 19 (gate note) to Sheet 2. **Deleted** notes that were already covered in the index details or Specifications.*
- *Sheet 2: Redeveloped Farm Fence details installation details to match NEW Wildlife Fence details. Moved Fence Position detail to Sheet 1. Moved Design Notes to the SPI. Created Farm Fence Notes. Added Typical Fence Location detail. Added "Steel, recycled plastic, and aluminum similar" to the Note.*
- *Sheet 3: Moved Fastener details to NEW Sheet 5. Moved Splice details to Sheet 2.*
- *Sheet 4: **NEW** 10' Wildlife Fence*
- *Sheet 5: **NEW** Type A Fence Details*

## **Standard Plans – Primary Updates:**

- 1) Index 550-001 – Fence Type A**
  - *Redeveloped whole index; Added NEW Wildlife Fence*
  
- 2) Index 550-002 – Fence Type B**
  - *Redeveloped whole index*
  
- 3) Index 570-010 – Shoulder Sodding and Turf on Existing Facilities**
  - *Deleted Treatment types I and II and Added NEW details and notes*
  
- 4) Index 700-102 – Special Sign Details**
  - *Renumbered the signs, Added NEW signs, Deleted repeat signs*

## Standard Plans – Primary Updates:

### 2) *Index 550-002 – Fence Type B*

- *Sheet 1: Deleted Materials notes and moved to Division III Specifications; Added FENCE POSITION AT LOCATIONS WITHOUT FRONTAGE ROADS details; Moved the CORNER OR END POST and PULL POST Details to Sheet 2; Added Note "Install Electrical Grounds for Fence that are installed within Electrical Transmission Right(s) of Way in accordance with Specification 550".*
- *Sheet 2: Moved GENERAL NOTES to Sheet 1; Moved the Design Note and Table to the Standard Plans Instructions; Added the CORNER OR END POST and PULL POST Details.*
- *Sheet 3: Moved the FENCE POSITION AT LOCATIONS WITHOUT FRONTAGE ROADS details to Sheet 1; Updated the BASE PLATE AND ANCHOR NOTES - Clarified "Expansion Bolts Not Permitted." as Note 4.*

## Standard Plans – Primary Updates:

- 3) **Index 570-010 – Shoulder Sodding and Turf on Existing Facilities**
- *Sheet 1: Deleted Treatment 1 and Replaced with Asphalt Overlay Detail; Deleted Treatment 2 options; Added Shoulder Widening Detail; Added Superelevation Detail; Added Drop-Off Detail; Added Sloped Sod Lap Detail; Deleted General Note 4; Moved General Note 5A to the SPI; Added New General Notes - 1. The existing turf may be flush with, higher than or lower than the existing edge of pavement or paved shoulder. Trenching, or mixing, will be necessary when existing turf is flush with or higher than adjacent pavement. Shoulder dropoff soil will be necessary when existing turf is lower than the adjacent pavement., 6. When using rolled sod parallel to the roadway, begin placement at the farthest section away from the roadway in the areas to be sodded as called for in the plans. and 8. Grade to shoulder slope shown in Plans or per superelevation out to the full shoulder with shown in Plans.; Renumbered General Notes; Replaced most references of "Borrow" to "Shoulder Dropoff Soil"; Added note to Pattern Detail giving a minimum dimension of 3' for Rolled Sod*

## Standard Plans – Primary Updates:

### 4) **Index 700-102 – Special Sign Details**

- *Sheet 1: NEW Cover Sheet with Table of Contents and General Notes*
- *Sheet 2: Added NEW Fender Bender Signs*
- *Sheet 3: Added NEW Emergency Stopping Site Signs, Added NEW Move Over sign, Updated letter height on Fine \$250 Max sign*
- *Sheet 4: Added a NEW size for the Fine \$250 Max sign, Removed FTP-85-13*
- *Sheet 5: Added NEW Crosswalk Signs*
- *Sheet 6: Updated dimensions on Florida Law Sign*
- *Sheet 7: Added NEW "X-ING", "ON SIDEWALK", and "MOTORCYCLES USE CAUTION" Signs*
- *Sheet 8: Added NEW "PRESCRIBED BURN AHEAD" Signs*
- *Sheet 12: Added NEW Share-A-Ride Signs, Added 2 additional sizes of signs for Emergency Info*
- *Sheet 13: Added NEW Traffic Info Signs*
- *Sheet 14: Added NEW Location Reference Marker Sign*
- *Sheet 15: Removed line through FL symbol on Turnpike Signs*
- *Sheet 16: Note 4 on the 3 digit Guide Sign was removed and updated to "Width varies with the number scheme combination, within 48"-58" ", Updated Note 1 on the County Route Marker notes to specify "all upper case"*
- *Sheet 17: Added NEW Guide Signs*
- *Sheet 18: Added NEW Recreational and Culture Signs; Update FDOT logo on Adopt-A-Highway sign*
- *Sheet 20: Removed G20-1 and G20-2 Signs*
- *Sheet 21: Added NEW "REDUCE SPEED SMOKE AHEAD" and "MOTORCYCLES USE CAUTION" Signs*





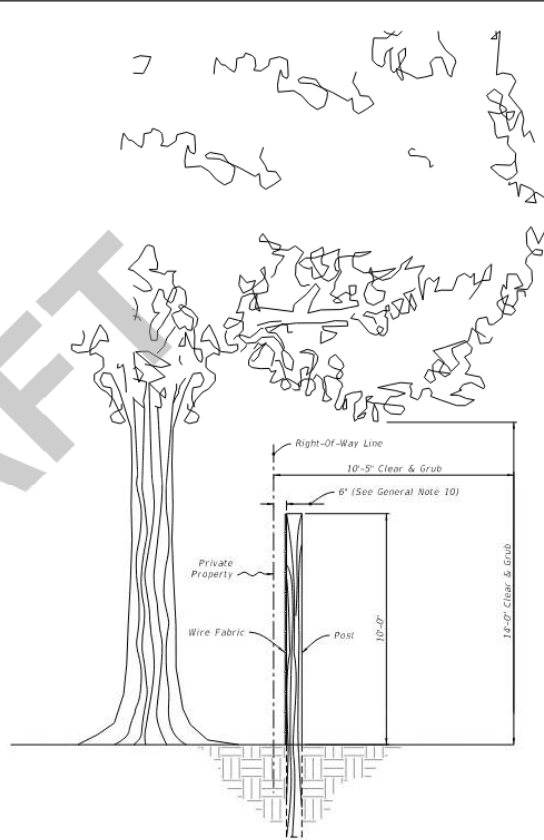
## Sheet 1: Redevelopment

**GENERAL NOTES:**

1. Meet the requirements of Specifications 550.
2. Install woven wire side on either side of fence. Install fence on horizontal curves greater than 3°, so as to pull against all posts.
3. Connections between timber posts and braces to be provided by dowels as shown in fastener details.
4. Stretch woven wire only until one-half the tension curl has been pulled out of the line wires.
5. Set posts by driving or digging. If by digging, set the post at the center of the hole and the soil tamped securely on all sides.
6. Longer posts than those indicated in this Index may be required in the Plans or for deeper installations.
7. Install pull post assemblies at approximately 330 centers except that this maximum interval may be reduced by the Engineer on curves where the degree of curvature is more than 3°.
8. Install corner post assemblies at all horizontal and vertical breaks in fence of 15° or more.
9. Install Electrical Grounds for fence that is installed within Electrical Transmission Rights(s) of Way in accordance with Specification 550.
10. Install fence 6" inside the Right of Way line unless otherwise indicated in the Plans or by the Engineer.

**TABLE OF CONTENTS:**

Sheet	Description
1	General Notes and Contents
2	5' Farm Fence - General Details
3	5' Farm Fence - Concrete Post, Brace, and Fasteners
4	10' Wildlife Fence - General Details
5	Timber Post and Brace Fasteners and Fencing Details at Culvert

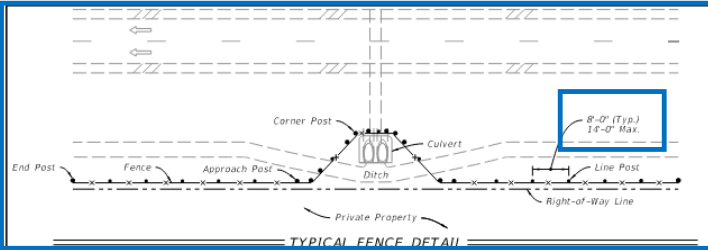


===== FENCE POSITION AT LOCATIONS WITHOUT FRONTAGE ROADS =====  
(Refer to Detail Plans for Fence Position at Locations With Frontage Roads)  
 (Wildlife Fence Shown, Farm Fence Similar)

- Moved all notes pertaining to Materials to their respective Specifications.
- Deleted notes already covered by the Specifications.
- Moved **Farm Fence** specific notes to Sheet 2.
- Added Table of Contents and Fence Post at Frontage Roads Detail.

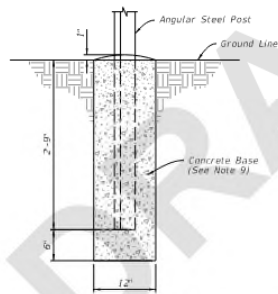


## Sheet 2: Redevelopment

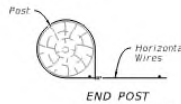


### NOTES:

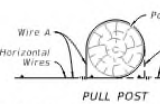
- Posts may be either timber, steel, recycled plastic or concrete meeting the requirements of Specification 550. Unless a specific post material is called for in the plans, the Contractor may elect to use either a single material or a combination of timber, steel, recycled plastic or concrete materials with Engineer approval.
- Install 2 No. 9 gage wires twisted to singing tightness, steel wire, soft temper, galvanized at the rate of 0.8 oz./ft., ASTM A641.
- Fence with flexible joint and hump or tension curl, meeting the requirements of Specifications 550.
- For timber, staples for line posts to be 1 1/2" minimum length; for approach, corner, and pull posts 1 1/2" minimum length. At approach, corner, and pull posts, staple every line wire. At line posts, staple every line wire in top half and alternate line wires in bottom half. Drive staples diagonally across the line wire with the points in separate grains.
- Wrap and tie wire, as shown in the splice details, at the following locations:
  - All end posts
  - Corner posts, including the assemblies at vertical breaks of 15' or more
  - Pull posts where the wire is not spliced and pulled through the assembly (See Note 10)
- Steel pull, corner, approach and end posts are to be set in concrete as per detail. (See Note 9)
- For recycled plastic posts, connect fabric and barbed wire to plastic line posts using staples the same size, count, and in the same locations as for timber posts.
- Do not use aluminum posts, braces, and accessory frame hardware unless the Plans specifically detail their application or the Engineer specifically approves their incorporation in fence construction or repair. Aluminum framed gates are permitted as described in Note 11.
- Use Class NS concrete in accordance with Specification 347 for concrete bases for angular steel posts (pull, corner, end, and approach). Materials for Class NS concrete can be proportioned by volume and/or by weight.
- A maximum length of 1320' of wire may be installed as a unit. For pulls through a pull post assembly, splice the fabric by crimping sleeves only. Pulls through a corner post assembly will not be permitted.
- Unless otherwise called for in the Plans, gates to be commercially available metal swing gates assembled and installed in accordance with the manufacturer's specifications as approved by the Engineer. Chain link swing gates in accordance with 550-002 may be substituted for metal swing gates as approved by the Engineer. Gate size is full opening with whether single leaf or double leaves.



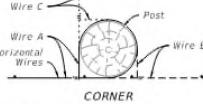
(Pull, Corner, End and Approach Posts)  
**CONCRETE BASE FOR ANGULAR STEEL POST**



END POST



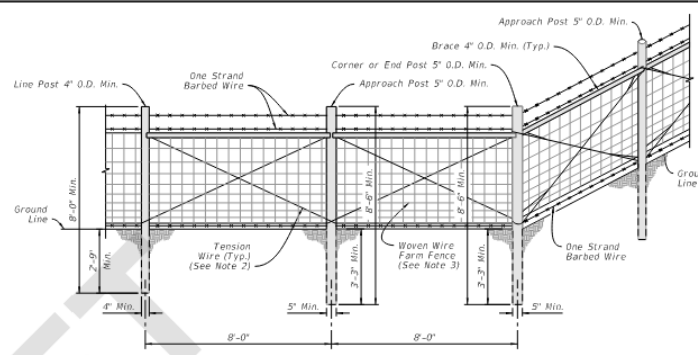
PULL POST



CORNER

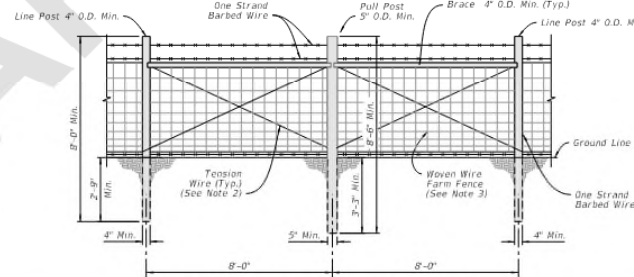
Each horizontal wire to be wrapped around corner, end, and pull posts are tied to same wire. See Note 5 and General Note B. These methods also apply to steel and concrete post.

WOVEN WIRE SPLICES



(Timber Post Shown, Steel, Recycled Plastic, and Concrete Post Similar)

**CORNER OR END POST DETAILS**



(Timber Post Shown, Steel, Recycled Plastic, and Concrete Post Similar)

**PULL POST DETAILS**

**5' FARM FENCE - GENERAL DETAILS**

- Added Typical Fence Detail
- Updated CAD drawings to match new details
- Added Farm Fence specific notes from Sheet 1.
- NOTE: The max. distance between posts.

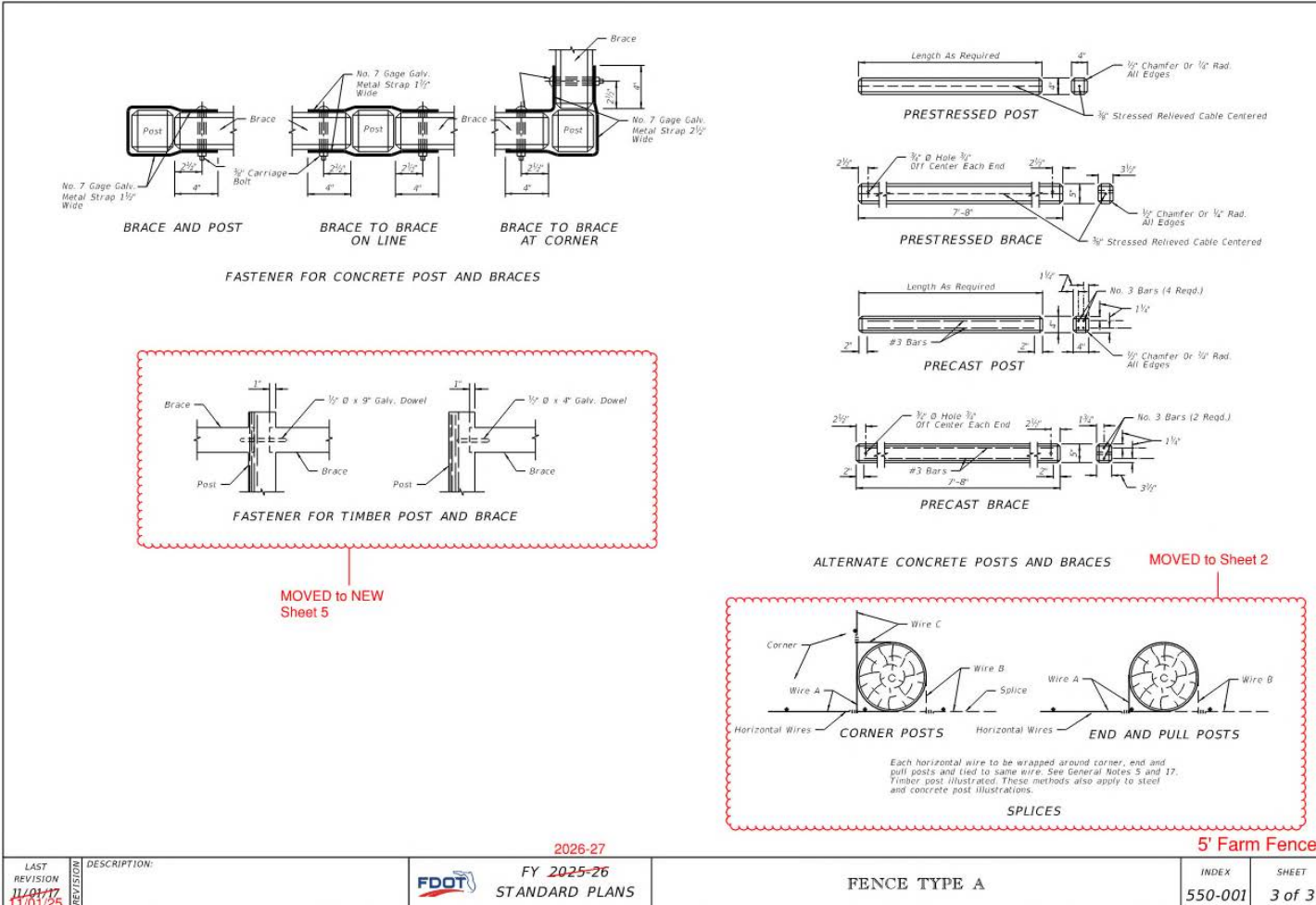
LAST REVISION	DESCRIPTION
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	FY 2026-27 STANDARD PLANS
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FENCE TYPE A

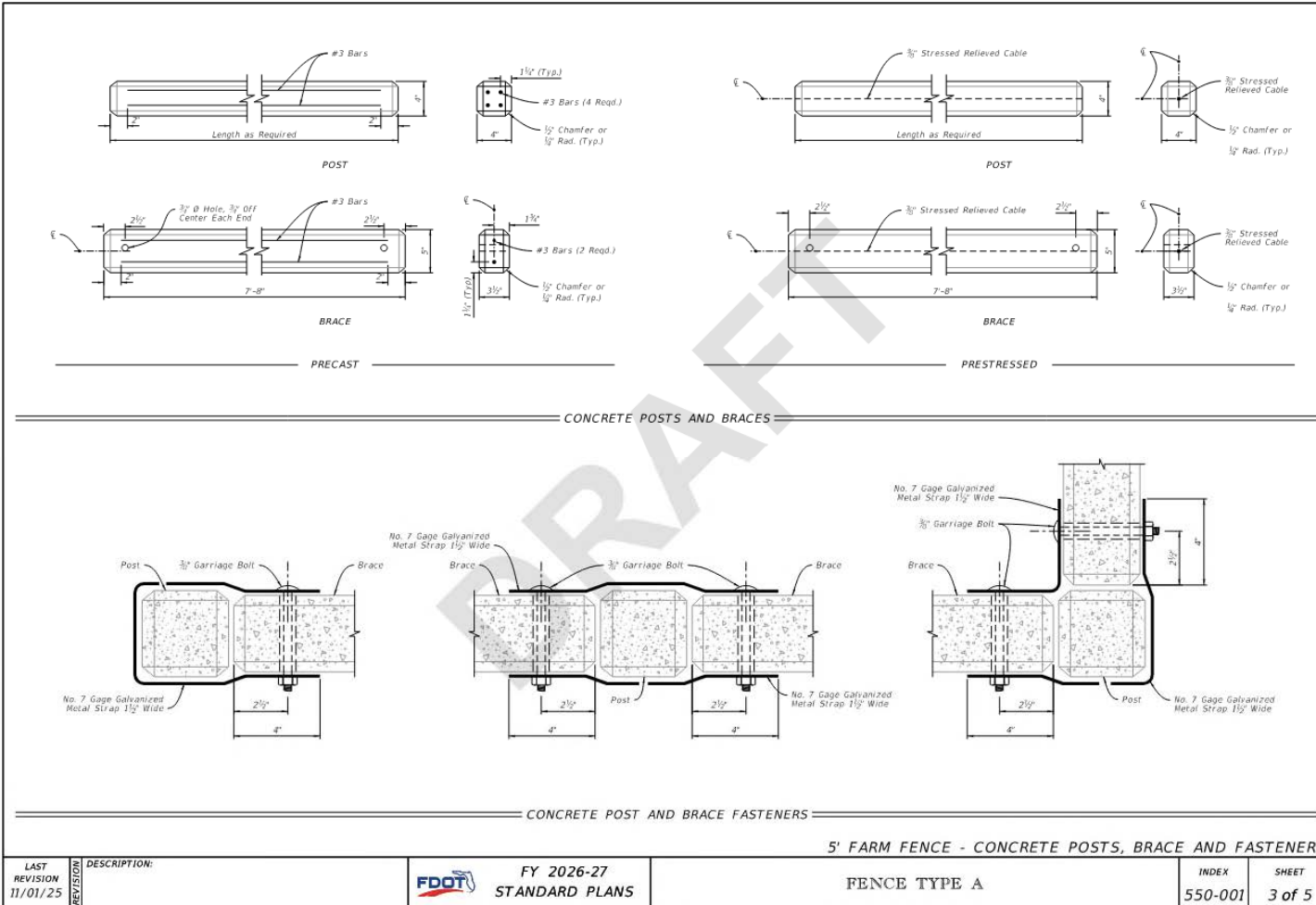
INDEX	SHEET
550-001	2 of 5

## Sheet 3: Redevelopment



- Moved Farm Fence Splice Details
- Moved Fastener Details for Timber Posts and Braces
- Cleaned up whole sheet

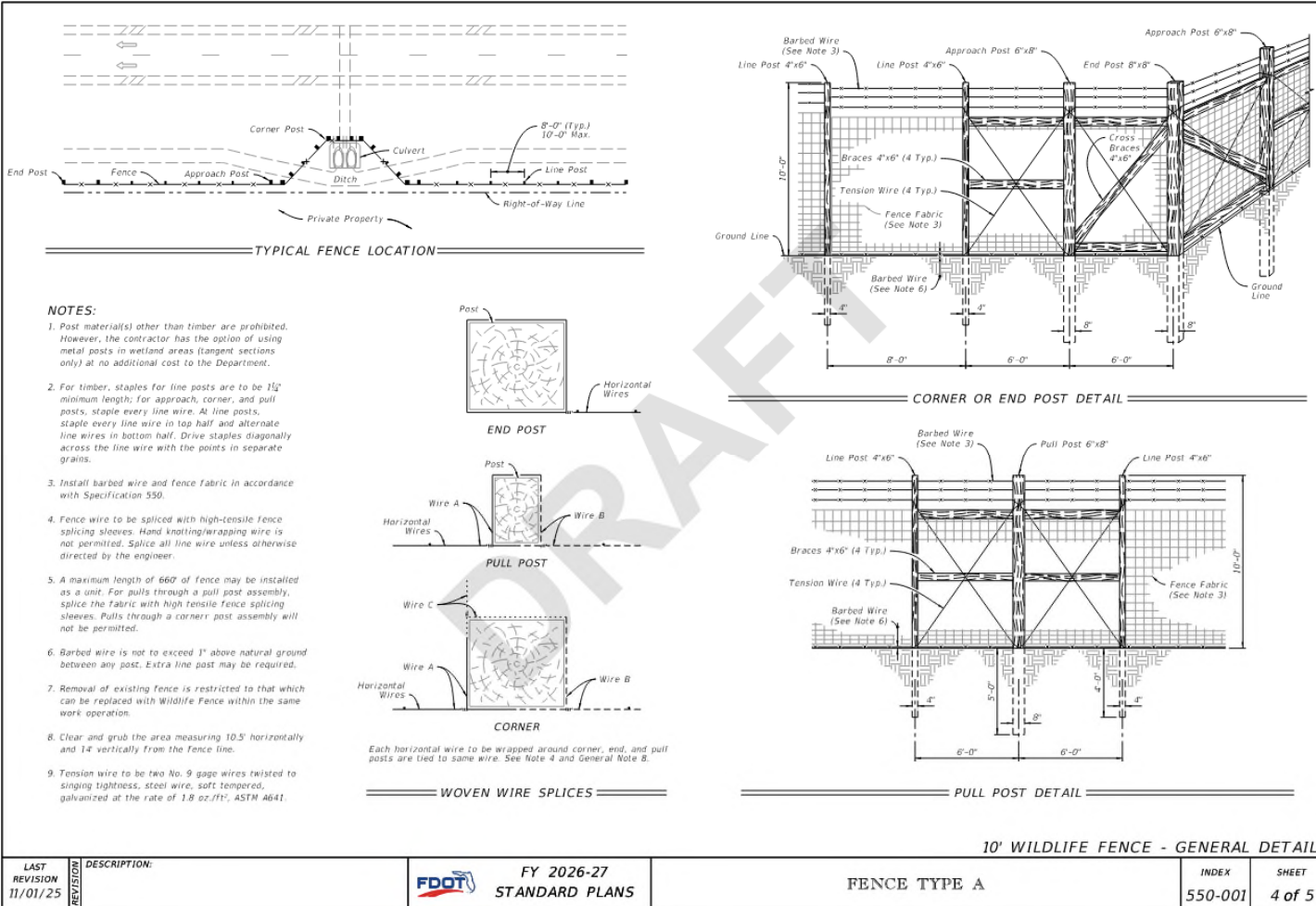
## Sheet 3: Redevelopment



- Moved Farm Fence Splice Details
- Moved Fastener Details for Timber Posts and Braces
- Cleaned up whole sheet

LAST REVISION 11/01/25	DESCRIPTION:	FY 2026-27 STANDARD PLANS	FENCE TYPE A	INDEX 550-001	SHEET 3 of 5
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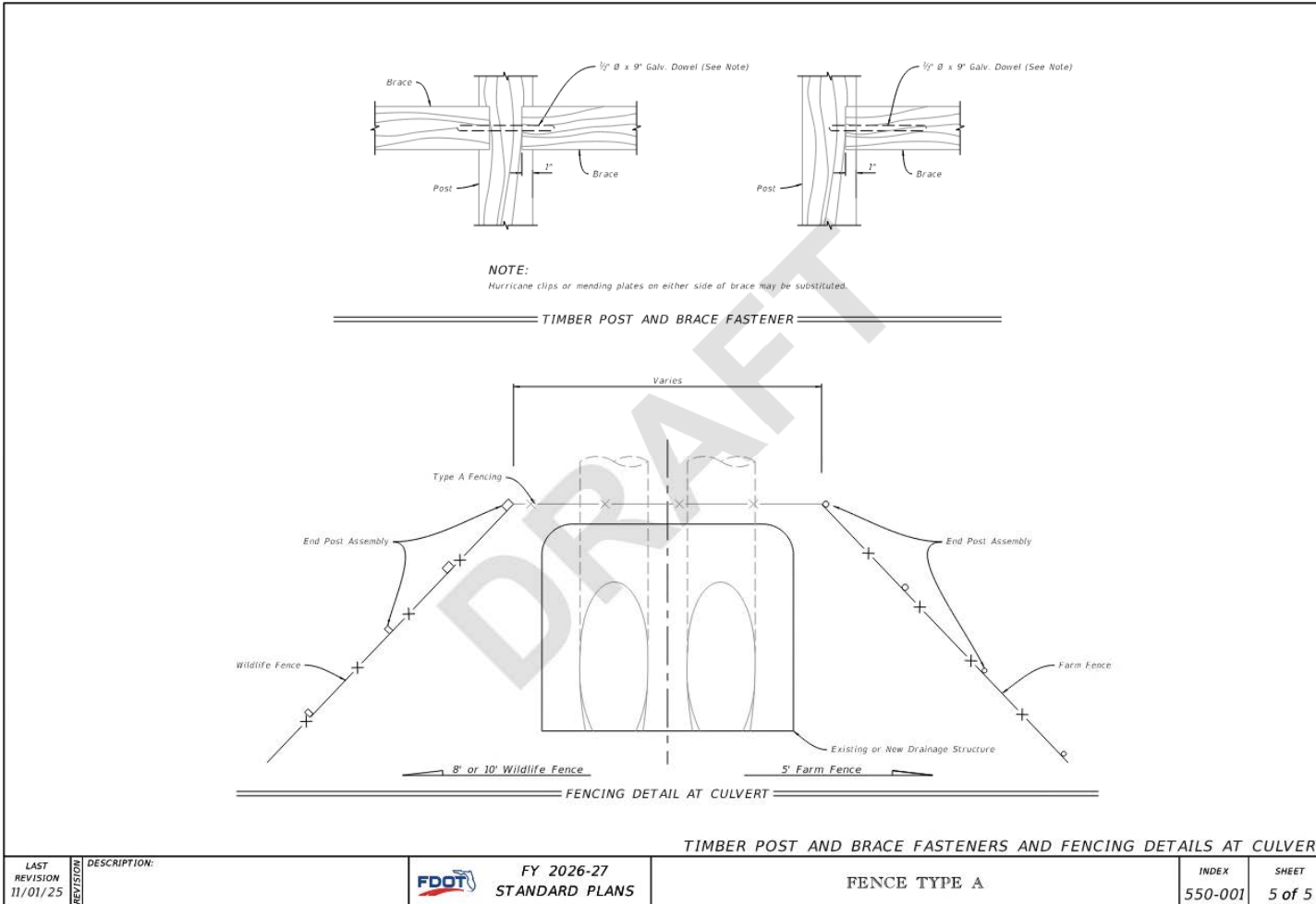
## Sheet 4: NEW Wildlife Fence



- **NEW Wildlife Fence details**
- **NEW Wildlife Fence Notes**
- **Developed with the help of District 3**

LAST REVISION 11/01/25	DESCRIPTION:	FDOT FY 2026-27 STANDARD PLANS	FENCE TYPE A	INDEX 550-001	SHEET 4 of 5
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## Sheet 5: NEW Details Sheet



- **NEW** Timber Post and Brace Fastener Details
- **NEW** Fencing Detail at Culvert
- Developed with the help of District 3

LAST REVISION 11/01/25	DESCRIPTION: FY 2026-27 STANDARD PLANS	FENCE TYPE A	INDEX 550-001	SHEET 5 of 5
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# Index 550-002 Fence Type B

## Sheet 1: Redevelopment

**GENERAL NOTES:**

- This fence to be used generally in urban areas.
- For supplemental information refer to Specification 550.
- Chain link fabric, post, truss rods, tension wires, tie wires, (miscellaneous fittings and hardware) shall meet the requirements of AASHTO and ASTM signify current reference.

**Fence Component Options:**

**A. Line post options:**

- Galvanized steel pipe, Schedule 40, 1 1/2" nominal dia, zinc galvanized at the rate of 1.8 oz./ft.<sup>2</sup>; ASTM A53 Table 2 (Grade A or B), ASTM F1083, and AASHTO M111.
- Aluminum coated steel pipe, ASTM A53, Table 2 (Grade A or B), Schedule 40, 1 1/2" nominal dia, 1.90" OD, coated at the rate of 0.40 oz./ft.<sup>2</sup>; AASHTO M111.
- Aluminum alloy pipe, 2" nominal dia., ASTM B241 or B221, Alloy 6063, T6.
- Steel H-Beam, 1 1/2" x 1 1/2", Zinc Galv. 1.8 oz./ft.<sup>2</sup>; AASHTO M111 and Detail.
- Aluminum alloy H-Beam, 1 1/2" x 1 1/2" (Detail).
- Steel C, 1 1/2" x 1 1/2", Galv. 1.8 oz./ft.<sup>2</sup>; zinc; AASHTO M111; OR, 0.9 oz./ft.<sup>2</sup>; zinc-5% aluminum-mischmetal, ASTM F1043 and Detail.
- Resistance welded steel pipe, 50,000 psi min. yield strength ASTM A569/A569M, A653/A653M or uncoated stock of discontinued A446/A446M base materials; ASTM F669 Group IV (Alternative Design), Fence Industry 2" OD, 2" NPS, 1.660" dec. equiv., 0.120" min. wall thickness and min. wt. 2.28 lb./ft.; with ASTM F1043 metric equivalent internal coating Types A, B, C or D and external coating Types A, B, or C; the chromate conversion coating of external Type B shall have a thickness of 15µg/in.<sup>2</sup> min. and the polymer film topcoat shall have a thickness of 0.0003" min.; internal and external coatings are not restricted to the combinations of Table 2, ASTM F1043.

**B. Corner, end, and pull post options:**

- Galvanized steel pipe, Schedule 40, 2" nominal dia, zinc galvanized at the rate of 1.8 oz./ft.<sup>2</sup>; ASTM A53 Table 2, ASTM F1083, and AASHTO M111.
- Aluminum coated steel pipe, ASTM A53 steel, 2" Tables, Schedule 40, 2" nominal dia, 2.375" OD, coated at the rate of 0.40 oz./ft.<sup>2</sup>; AASHTO M111.
- Aluminum alloy pipe, 2 1/2" nominal dia., ASTM B241 or B221, Alloy 6063, T6.
- Resistance welded steel pipe, 50,000 psi min. yield strength ASTM A569/A569M, A653/A653M or uncoated stock of discontinued A446/A446M base materials; ASTM F669 Group IV (Alternative Design), Fence Industry 2 1/2" OD, 2" NPS, 2.375" dec. equiv., 0.130" min. wall thickness, and min. wt. 3.112 lb./ft.; with ASTM F1043 metric equivalent internal coating Types A, B, C or D and external coating Types A, B, or C; the chromate conversion coating of external Type B shall have a thickness of 15µg/in.<sup>2</sup> min. and the polymer film topcoat shall have a thickness of 0.0003" min.; internal and external coatings are not restricted to the combinations of Table 2, ASTM F1043.

**C. Rail options:**

- Galvanized steel pipe, Schedule 40, 1 1/4" nominal dia, zinc galvanized at the rate of 1.8 oz./ft.<sup>2</sup>; ASTM A53 Table 2, ASTM F1083, and AASHTO M111.
- Aluminum coated steel pipe, ASTM A53 steel, 1 1/4" Tables, Schedule 40, 1 1/4" nominal dia, 1.860" OD, coated at the rate of 0.40 oz./ft.<sup>2</sup>; AASHTO M111.
- Aluminum alloy pipe, 1 1/4" nominal dia., ASTM B241 or B221, Alloy 6063, T6.
- Resistance welded steel pipe, 50,000 psi min. yield strength ASTM A569/A569M, A653/A653M or uncoated stock of discontinued A446/A446M base materials; ASTM F669 Group IV (Alternative Design), Fence Industry 1 1/4" OD, 1 1/4" NPS, 1.660" dec. equiv., 0.111" min. wall thickness and min. wt. 1.836 lb./ft.; with ASTM F1043 metric equivalent internal coating Types A, B, C or D and external coating Types A, B, or C; the chromate conversion coating of external Type B shall have a thickness of 15µg/in.<sup>2</sup> min. and the polymer film topcoat shall have a thickness of 0.0003" min.; internal and external coatings are not restricted to the combinations of Table 2, ASTM F1043.

**D. Chain link fabric options (2" mesh with twisted and barbed selvage top and bottom for all options except as described in note 10):**

- AASHTO M181 Type I - Zinc Coated Steel, No. 9 gage (coated wire diameter), coated at the rate of 1.8 oz./ft.<sup>2</sup> (M181 Class D 2.0 oz./ft.<sup>2</sup> modified to 1.8 oz./ft.<sup>2</sup>).
- AASHTO M181 Type II - Aluminum Coated Steel, No. 9 gage (coated wire diameter), coated at the rate of 0.40 oz./ft.<sup>2</sup>.
- AASHTO M181 Type IV - Polyvinyl Chloride (PVC) Coated Steel, No. 9 gage (coated core wire diameter), core wire-zinc coated steel, PVC coating, M181 Class A (corner extruded or extruded and bonded) or Class B (bonded). See table right. Unless the plans call for M181 standard colors medium green, dark green or black the coating color shall be soft gray matching that of No. 36622 of Federal Standard 395a.

**E. Tension wire options:**

- Steel wire No. 7 gage zinc galvanized at the rate of 1.2 oz./ft.<sup>2</sup>; AASHTO M181.
- Aluminum alloy wire with a diameter of 0.1875" or larger conforming to the requirements of ASTM B211, Alloy 5056 Temper H38, or Alclad Alloy 5056 Temper H192.
- Aluminum coated steel wire No. 7 gage coated at the rate of 0.040 oz./ft.<sup>2</sup>; AASHTO M181.

**F. Tie wire and hog ring options:**

- Steel wire No. 3 gage zinc galvanized at the rate of 1.2 oz./ft.<sup>2</sup>.
- Aluminum alloy wire with a diameter of 0.1443" or larger conforming to the requirements of ASTM B211, Alloy 5056 Temper H38, or Alclad Alloy 5056 Temper H192.
- Aluminum coated steel wire No. 7 gage coated at the rate of 0.040 oz./ft.<sup>2</sup>.

**REDEVELOPED WHOLE INDEX**

**MOVED TO THE SPI**

**REWRITE: Meet the Requirements of Specification 550.**

**Meet the requirements of the current editions of AASHTO and ASTM references to**

**MOVED Materials Notes to the Specs**

**MOVED DETAILS to Sheet 2**

- Moved all notes pertaining to Materials to their respective Division III Specifications.
- Moved design notes to the SPI.
- Updated to Plain Language.
- Added Table of Contents and Fence Post at Frontage Roads Detail.

LAST REVISION	DESCRIPTION	FY 2025-26 2026-27	INDEX	SHEET
11/01/25	REDESIGNED WHOLE INDEX	STANDARD PLANS	550-002	1 of 3

## Sheet 2: Redevelopment

MOVED:  
To Sheet 1

**GENERAL NOTES CONTINUED**

4 ~~Unless a specific material is called for in the plans the Contractor may elect to use either a single type of material or a combination of material types from the component options listed in eeg-4. Combinations of optional materials are restricted as follows:~~ **The Specifications**

(a) Only one fabric optional material will be permitted between corner and/or end post assemblies.

(b) Only one line post optional material will be permitted between corner and/or end post assemblies.

(c) Pull post assemblies shall be optional materials identical to either the line post optional material or the corner and end post assembly optional material; but, pull post assemblies shall be the same optional material between any set of corner and/or end post assemblies.

5 **Use Class NS concrete for bases.**

~~Concrete bases shall be cast in place as specified in Specification 347 or a packaged, dry material meeting the requirements of a concrete under ASTM C-307. Materials for Class NS concrete may be proportioned by volume and/or by weight.~~

**Install 8'-6" long (Standard) line posts. Set line posts**

~~Line posts shall be 8'-0" long standard. Line posts are to be set in concrete as described above or by the following methods:~~

6 (a) In accordance with special details and/or as specifically described in the ~~Contract~~ **Plans** and Specifications.

(b) In accordance with ASTM F567 Subsections 5.4 through 5.10 as approved by the Engineer. Line post installed in accordance with Section 5.8 shall be 9'-6" long.

(c) Post mounted on concrete structure or solid rack shall be mounted in accordance with the base plate detail "Fence Mounting On Concrete Endwalls And Retaining Wall", Sheet 3; or, by embedment in accordance with ASTM F567 Subsection 5.5.

**Install** End, pull and corner post assemblies shall be in concrete as detailed above for all soil conditions other than solid rock. Post within assemblies that are located on concrete structures or solid rock shall be set by base plate or by embedment as prescribed under (b) above for line post.

**Set line post assemblies**

~~For 6" fence which must be lengthened due to a variation in the normal ground clearance, shall be set an additional 3" in depth for each 1' of additional ground clearance.~~

7 **Use pull posts**

~~Pull posts shall be used at breaks in vertical grades of 15% or more, or at approximately 350' centers except that this maximum interval may be reduced by the Engineer on curves where the curve is greater than 2'.~~

8 **Install corner posts**

~~Corner posts shall be installed at all horizontal breaks in fence at 15% or more and as required at vertical breaks over 15% as determined by the Engineer.~~

9 When fence has an installed top of fabric height less than 6' knuckled top and bottom selvages shall be used unless the plans specifically identify locations for twisted selvage fabrics.

10 Unless sliding gates or special gates are called for in the plans, all gates shall be chain link swing gates meeting the material requirements described and as approved by the Engineer. ~~Payment shall include the gate, stile or stile, the necessary hardware for installation and any additional length and/or price for posts at the opening. Gates shall be paid for under the contract unit price for Fence Gates, EA.~~

11 For construction purposes corner post assemblies shall consist of one corner post, two braces, two truss rods, and all necessary fittings and hardware as detailed. End post assemblies shall consist of one end post, one brace, one truss rod and all necessary fittings and hardware as detailed.

12 ~~JA~~ In areas where there are physical constraints outside the right-of-way which restricts the fence construction, the fabric may be installed on the inside of the posts.

MOVED INTO THE  
Specifications

**MOVED To Standard Plans Instructions**

TYPE IV VINYL COATED FABRIC								
AASHTO M181 Table 4 Redefined As Follows								
Specified Diameter Of Metallic Coated Core Wire		Minimum Weight Of Zinc Coating		PVC Thickness Range				
				M181 Class A (Extruded Or Extruded And Bonded Coating)		M181 Class B (Bonded Coating)		
in.	mm	gals	oz./ft. <sup>2</sup>	g/m <sup>2</sup>	in.	mm	in.	
0.148	3.77	9	0.30	92	0.015 to 0.025	0.38 to 0.64	0.006 to 0.010	0.15 to 0.25

**DESIGN NOTE**

This index details fencing that is constructed with chain link fabric 6' (nominal) in height and with specific ground clearances. For fencing of different height or installation details, the fence shall be fully detailed in the Contract Plans.

REDEVELOPED SHEET

LAST REVISION 11/01/22 11/01/25	DESCRIPTION:	FY 2025-26 STANDARD PLANS	FENCE TYPE B	INDEX 550-002	SHEET 2 of 3
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- Moved all notes pertaining to Materials to their respective Division III Specifications.
- Moved design notes to the SPI.
- Updated to Plain Language.
- Added Table of Contents and Fence Post at Frontage Roads Detail.

## Sheet 1: Redevelopment

### GENERAL NOTES:

1. Meet the requirements of Specification 550.
2. Meet the requirements of the current editions of AASHTO and ASTM references for chain link fabric, posts, truss rods, tension wires, tie wires, stretcher bars, gates and all miscellaneous fittings and hardware.
3. Unless a specific material is called for in the plans the Contractor may elect to use either a single type of material or a combination of material types from the component options listed in the Specifications. Combinations of optional materials are restricted as follows:
  - (a) Only one fabric optional material will be permitted between corner and/or end post assemblies.
  - (b) Only one line post optional material will be permitted between corner and/or end post assemblies.
  - (c) Pull post assemblies must be optional materials identical to either the line post optional material or the corner and end post assembly optional material; but, pull post assemblies must be the same optional material between any set of corner and/or end post assemblies.
4. Use Class NS concrete for bases as specified in Specification 347 or a packaged, dry material meeting the requirements of a concrete under ASTM C-387. Materials for Class NS concrete can be proportioned by volume and/or by weight.
5. Install 8'-6" Long (Standard) line post. Set line posts in concrete as described above or by the following methods:
  - (a) In accordance with special details and/or as specifically described in the Plans and Specifications.
  - (b) In accordance with ASTM F567 Subsections 5.4 through 5.10 as approved by the Engineer. For line posts installed in accordance with Subsection 5.8 using 9'-6" long posts.
  - (c) For posts mounted on concrete structure or solid rock do so in accordance with the base plate detail "Fence Mounting On Concrete Endwall And Retaining Walls", Sheet 3; or, by embedment in accordance with ASTM F567 Subsection 5.5.

Install end, pull, and corner post assemblies in concrete as detailed above for all soil conditions other than solid rock. Post within assemblies that are located on concrete structures or solid rock must be set by base plate or by embedment as prescribed under (b) above for line post.

For 6' fence that must be lengthened due to a variation in the normal ground clearance, set line post assemblies an additional 3" in depth for each 1' of additional ground clearance.
6. Use pull post at breaks in vertical grades of 15° or more, or at approximately 350' centers except that this maximum interval may be reduced by the Engineer on curves where the curve is greater than 3°.
7. Install corner post at all horizontal breaks in fence at 15° or more and as required at vertical breaks over 15° as determined by the Engineer.
8. When fence has an installed top of fabric height less than 6' knuckled top and bottom selvages must be used unless the plans specifically identify locations for waived selvage fabrics.
9. Unless sliding gates or special gates are called for in the plans, all gates must be chain link swing gates meeting the material requirements described and as approved by the Engineer.
10. For construction purposes corner post assemblies must consist of one corner post, two braces, two truss rods, and all necessary fittings and hardware as detailed. End post assemblies must consist of one end post, one brace, one truss rod and all necessary fittings and hardware as detailed.
11. In areas where there are physical constraints outside the right-of-way which restricts the fence construction, the fabric may be installed on the inside of the posts.

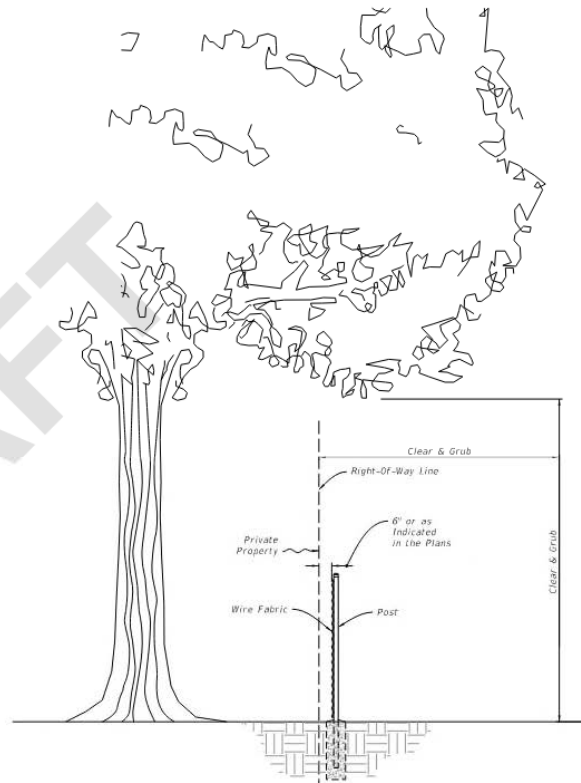
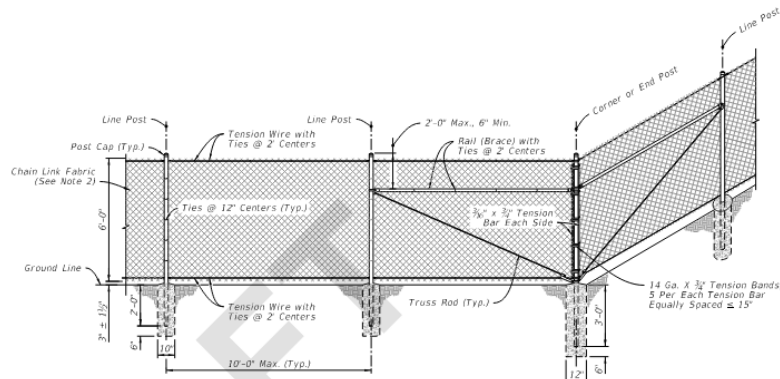


TABLE OF CONTENTS:	
Sheet	Description
1	General Notes and Contents
2	Corner or End Post Details and Pull Post Details
3	C Line Post, H-Beam Line Post, Fence Mounting on Concrete Wall and Retaining Walls, and Barb Wire Attachment

FENCE POSITION AT LOCATIONS WITHOUT FRONTAGE ROADS  
(REFER TO DETAIL PLANS FOR FENCE POSITION AT LOCATIONS WITH FRONTAGE ROADS)

- Moved all notes pertaining to Materials to their respective Division III Specifications.
- Moved design notes to the SPI.
- Updated to Plain Language.
- Added Table of Contents and Fence Post at Frontage Roads Detail.

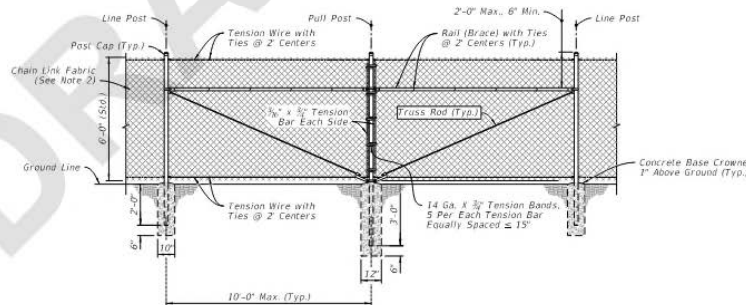
## Sheet 2: Redevelopment



**NOTES:**

1. Tubular post shown, others similar.
2. Install No. 9 chain link fabric mesh, twisted and barbed top and bottom selvage. See Specification 550.

CORNER OR END POST DETAILS



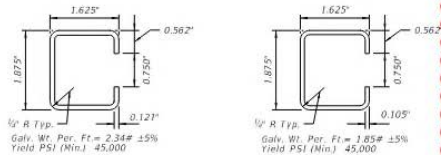
PULL POST DETAILS

CORNER OF END POST DETAILS AND PULL POST DETAILS

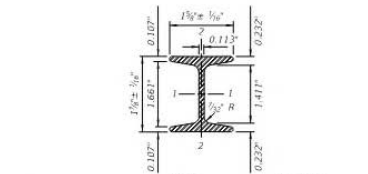
- Moved all notes pertaining to Materials to their respective Division III Specifications.
- Moved design notes to the SPI.
- Updated to Plain Language.
- Added Table of Contents and Fence Post at Frontage Roads Detail.

LAST REVISION	DESCRIPTION	FY 2026-27	FENCE TYPE B	INDEX	SHEET
11/01/25		STANDARD PLANS		550-002	2 of 3

## Sheet 3: Redevelopment



**STANDARD WALL**  
**THINWALL**  
**OPTIONAL "C" LINE POST**

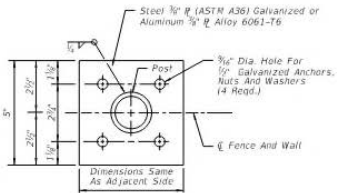


	STEEL	ALUMINUM
Area (Sq. In.)	724	724
Weight (Lb./Ft.)	272 ± 5% (Galv.)	0.91 ± 5%
Surface Area (Sq./Ft.)	0.776	0.776
Tensile Strength (psi Min.)	80,000	30,000
Yielding Point (psi Min.)	48,000	25,000

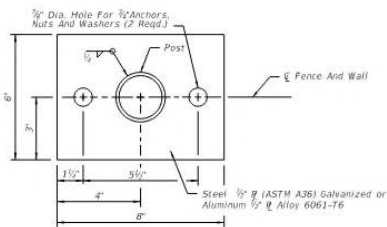
  

	Axes		Axes	
	1-1	2-2	1-1	2-2
Moment of Inertia	0.428	0.101	0.428	0.101
Section Modulus	0.456	0.124	0.456	0.124
Rad. of Gyration	0.779	0.373	0.779	0.373

**OPTIONAL 1 7/8" x 1 5/8" H-BEAM LINE POST**

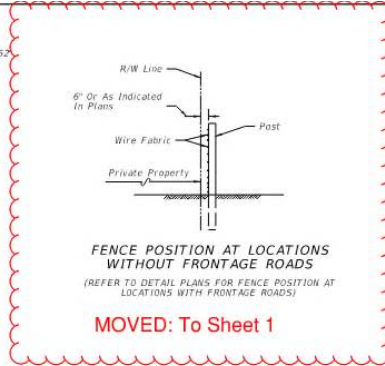


**TOP VIEW**  
**FOUR ANCHOR PLATE OPTION**



**TOP VIEW**  
**TWO ANCHOR PLATE OPTION**

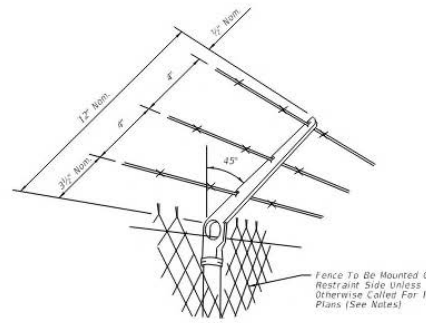
**FENCE MOUNTING ON CONCRETE ENDWALL AND RETAINING WALLS**



**FENCE POSITION AT LOCATIONS WITHOUT FRONTAGE ROADS**  
(REFER TO DETAIL PLANS FOR FENCE POSITION AT LOCATIONS WITH FRONTAGE ROADS)

**MOVED: To Sheet 1**

**REDEVELOPED SHEET**



**NOTES**

1. Attachments to be used only when called for in the plans.
2. Attachments to extend in direction of restraint. Unless otherwise called for in plans, direction of restraint will be as follows:
  - (a) Outward on limited access right of way line.
  - (b) Outward on controlled access right of way line.
  - (c) Outward from utilities and hazardous facilities located within highway right of way.
  - (d) Outward from lateral ditches, outfalls, retention basins, canals, borrow areas and similar support facilities.
  - (e) Inward on pedestrian ways.
3. The cap-arm shall be designed to provide a drive fit over the top of posts and to exclude moisture in posts with tubular sections.

**BARB WIRE ATTACHMENT**

**BASE PLATE AND ANCHOR NOTES:**

1. Base plate identical for line, pull, end and corner posts and shall be considered an integral part of the respective posts for basis of payment.
2. Post to be plumbed by grout shim under base plate.
3. Anchors (Galvanized Steel):
  - 12" Cast In Place, 100% Embedment: Heated Bolts, U-Bolts or Cluster Plates.
  - 8" Adhesive Anchors, 8" Min. Embedment: Adhesive anchors shall be headless anchor bolts set in drilled holes with an Adhesive Material System in accordance with Specifications 416 and 937; drilled holes shall be 1/2" larger in diameter than the anchor bolt.
4. Expansion Bolts Not Permitted.

LAST REVISION 11/01/22 11/01/25	DESCRIPTION:	FDOT FY 2025-26 STANDARD PLANS	FENCE TYPE B	INDEX 550-002	SHEET 3 of 3
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- General Redevelopment and Clean Up

## Sheet 3: Redevelopment

**STANDARD WALL**  
Galv. Wt. Per. Ft. = 2.34# ± 5%  
Yield PSI (Min.) 45,000

**THIN WALL**  
Galv. Wt. Per. Ft. = 1.85# ± 5%  
Yield PSI (Min.) 45,000

**OPTIONAL "C" LINE POST**

**OPTIONAL 1 7/8" x 1 3/8" H-BEAM LINE POST**

	STEEL	ALUMINUM
Area (Sq. In.)	724	724
Weight (LB./FT.)	2.72 ± 5% (Galv.)	0.91 ± 5%
Surface Area (SF./FT.)	0.776	0.776
Tensile Strength (psi Min.)	80,000	30,000
Yielding Point (psi Min.)	48,000	25,000

**AXES**

	1-1	2-2	AXES	1-1	2-2
Moment of Inertia	0.428	0.101	0.428	0.101	
Section Modulus	0.456	0.124	0.456	0.124	
Rad. of Gyration	0.779	0.373	0.779	0.373	

**NOTES:**

- Base plate identical for line, pull, end and corner posts and considered an integral part of the respective posts for basis of payment.
- Post to be plumbed by grout shim under base plate.
- Anchors (Galvanized Steel):
  - 12" Cast in Place, 10 1/2" Embedment: Headed Bolts, U-Bolts or Cluster Plates.
  - 8" Adhesive Anchors, 6" Min. Embedment. Adhesive anchors must be headless anchor bolts set in drilled holes with an Adhesive Material System in accordance with Specifications 416 and 937; drilled holes must be 1/8" larger in diameter than the anchor bolt.
- Expansion Bolts Not Permitted.

**FENCE MOUNTING ON CONCRETE ENDWALL AND RETAINING WALLS**

**C LINE POST, H-BEAM LINE POST, FENCE MOUNTING ON CONCRETE WALL AND RETAINING WALLS, AND BARB WIRE ATTACHMENT**

**NOTES:**

- Attachments to be used only when called for in the plans.
- Attachments to extend in direction of restraint. Unless otherwise called for in plans, direction of restraint will be as follows:
  - a. Outward on limited access right of way line.
  - b. Outward on controlled access right of way line.
  - c. Outward from utilities and hazardous facilities located within highway right of way.
  - d. Outward from lateral ditches, outfalls, retention basins, canals, borrow areas and similar support facilities.
  - e. Inward on pedestrian ways.
- Cap-arm must be designed to provide a drive fit over the top of posts and exclude moisture in posts with tubular sections.

- General Redevelopment and Clean Up

LAST REVISION 11/01/25	DESCRIPTION:	FDOT FY 2026-27 STANDARD PLANS	FENCE TYPE B	INDEX 550-002	SHEET 3 of 3
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## Specification 550: Fencing

### 550-2 Types of Fence.

The types of fence are designated as follows:

- Type A (Farm Fence).
- Type A (Wildlife Fence).
- Type B (Chain-Link Fence).
- Type R (Chain-Link Fence for Pedestrian Overpass).

ARTICLE 550-3 is deleted and the following substituted:

### 550-3 Materials.

Meet the following requirements:

Portland Cement Concrete – Class NS .....	Section 347
Ground Rods* .....	Section 620
Chain Link Fence Fabric* .....	962-13
Farm Fence Fabric* .....	962-13
Wildlife Fence Fabric* .....	962-13
Steel Barbed Wire*, Types I, IIA, IIB .....	962-13
Aluminum Barbed Wire* .....	965-4
Timber Fence Posts and Braces .....	Section 954
Steel Tie Wire and Tension Wire .....	962-13
Aluminum Tie Wire and Tension Wire* (Type B only) .....	965-4
Steel Posts and Braces* .....	962-17
Recycled Plastic Posts and Braces* .....	550-3
Precast or Prestressed Concrete Posts* .....	550-3

\*Use products on the Department's Approved Product List (APL).

\*\*Additional requirements below.

550-3.1 Type A Fence (Farm Fence): Meet the requirements of Section 954 for timber posts and braces. For metal posts and braces, and for recycled plastic fence posts, meet the requirements of the Standard Plans.

For the fabric and all other accessories, meet the requirements of the Standard Plans.

550-3.2 Type B Fence (Chain-Link): For the posts, braces, fabric and all accessories other than the concrete for bases, meet the requirements of the Standard Plans.

Use concrete as specified in Section 347, or a premix approved by the Engineer for bases. The requirements contained in 347-2.2, and 347-3 will not apply.

550-3.3 Type R Fence (Chain-Link for Pedestrian Overpass): Use the fabric and accessories specified in the Plans.

550-3.4 Resetting Fence: Use material from the existing fence. For any additional materials required, provide the same type of material as in the existing fence and as specified herein, including gates when applicable.

550-3.5 Optional Use of Materials: For Type A (Farm Fence) Fence, a combination of steel, aluminum, timber, recycled plastic or concrete posts may be used. Unless otherwise called for in the Plans, Line posts of one material may be used with corner, pull and end post assemblies of a different material. The Engineer will permit the use of Line posts of only one optional material and pull posts assemblies of only one optional material between corner and end post assemblies is permitted. Within individual corner and end post assemblies, the Engineer will allow the use of only one optional material.

Recycled plastic line posts shall have a minimum section of 4 inches round or 4 inches square. Do not use recycled plastic posts as corner, pull, end, or approach posts unless specified in the Plans. The straightness of the posts must comply with Section 954 for timber posts. The flexural strength shall meet the requirements of the latest edition of the Southern Pine Inspection Bureau's Standard Grading Rules for Southern Pine Lumber for No. 2SR Stress Rated Grade Timber. Set plastic posts by either digging and tamped backfill or by driving into the full depth preformed holes 1/4 inch to 1/2 inch smaller than the cross section of the post.

Use any suitable precast or prestressed concrete posts with Engineer approval. Use Class II concrete for precast posts. Use Class III concrete for prestressed posts. Lengths of concrete post to be as indicated for timber posts.

For Type B Fence, a combination of zinc-coated steel members, aluminum fence members and aluminum alloy fence members may be used. Unless otherwise indicated in the Plans, the Engineer will allow the use of only one type of fabric material, one type of line post material and one type of pull assembly material between corner and end post assemblies.

550-3.6 Certification: Provide the Engineer with certified test reports from the manufacturer confirming that all materials (posts, braces, fabric and all other accessories) conform to the requirements of this Section, Section 6 and the Standard Plans. Provide the Engineer a copy of the certification at least ten days prior to fence construction.

Also furnish the Engineer a Certificate of Compliance certifying that the fencing system, materials and construction practices comply with the applicable Standard Plans and Specifications.

Acceptance of furnished material will be based on the Certificate of Compliance, accompanying test reports and visual inspection by the Engineer.

ARTICLE 550-4 is deleted and the following substituted:

### 550-4 Construction Methods/Installation.

550-4.1 General: Install the fence in accordance with the specific requirements of this Article and with the details shown on the Standard Plans for the particular type of fence called for, except for Type R Fence which shall be detailed in the Plans. Construct the fence in close proximity to the right-of-way line except as otherwise at locations detailed shown in the Plans. Assume responsibility for obtaining satisfactory permits or permission from property owners for

- Added the Wildlife Fence option
- Separated Materials
- Recycled Plastic Option

## Specification 954: Timber Requirements

### 954-1 ~~Types of Timber and Treating~~ **Timber** Requirements.

**954-1.1 Types of Timber and Treating Requirements:** Timber fence posts and braces shall be of southern yellow pine and shall be treated in accordance with Section 955.

Prior to the treatment, all knots on the posts shall be trimmed close to the body of the post.

**954-1.2 Approved Product List (APL):** All materials shall be one of the products listed on the Department's Approved Product List (APL). Manufacturers seeking evaluation of their product shall submit an application in accordance with Section 6 and include the documentation identified in Table 954-1.

Table 954-1 APL Requirements	
Documentation	Requirements (edit as needed for specific products)
Product Photo	Provide product photos that display the significant features of the product. Provide photos for all manufacturer supplied installation materials.
Product Label and Packaging	Provide label and packaging photos for each component of the product system. Provide label and packaging photos for all manufacturer supplied installation materials.
Product Sample (for APL listing)	A sample may be requested to verify the product, in accordance with the specifications. If the product is a system, a sample of each component must be submitted.

- APL requirements
- Flexural Strength

ARTICLE 954-6 is deleted and the following substituted:

### 954-6 ~~Dimensions~~ **Flexural Strength.**

Flexural Strength meeting the requirements of the Southern Pine Inspection Bureau's Standard Grading Rules for Southern Pine Lumber for No. 2SR Stress Rated Grade Timber.

#### 954-6.1 Minimum Lengths Allowable:

Line posts - 8 feet.

Corner and pull posts - 8 feet, 6 inches.

Braces - As required by the Plans.

(A tolerance of minus 1 inch to plus 2 inches will be allowed in the lengths shown for the posts.)

#### 954-6.2 Minimum Allowable Cross Section:

Round line posts - 4 inch diameter.

Round braces, corner and pull posts - 5 inch diameter.

Square line posts - 4 inches by 4 inches.

## Specification 962: Steel Requirements

Table 962-19 Tie Wire and Barbed Wire Requirements			
Tie Wire Requirements			
Product	Fence Type	Standard	Requirements
Tie Wire	Type A (Farm)	ASTM A-641	Steel wire 0.120" diameter with Zinc coating Class 3, soft temper
	Type B	=	Steel wire No. 9 gage, zinc galvanized at rate of 1.2 oz/ft <sup>2</sup>
=			Aluminum coated steel wire No. 7 gage, at rate of 0.040 oz/ft <sup>2</sup>
Hog Ring	Type B	=	Steel wire No. 9 gage, zinc galvanized at rate of 1.2 oz/ft <sup>2</sup>
			Aluminum coated steel wire No. 7 gage, at rate of 0.040 oz/ft <sup>2</sup>
Barbed Wire Requirements			
Barbed Wire	Type A (Farm)	ASTM A121	Type I: with two strands of 12-1/2 gage wire; four-point barbs, wire size 14 gage, twisted around both line wires; and Class 3 coating; Design No. 12-4-5-14R
			Type IIA: Same as Type I except the two strand wires are twisted in alternating directions between consecutive barbs
	Type IIB: with two strands of 15-1/2 gage high tensile wire; four-point barbs, wire size 16 1/2 gage twisted around both line wires; and Class 3 coating; Design No. 15-4-5-16R		
	Type I: with two strands of 15-1/2 gage wire; four point barbs, wire size 14 gage, twisted around both line wires; class 3 coating		
Type A (Wildlife)			Type II: same as Type I except the two strands are twisted in alternating directions between consecutive barbs
Tension Wire	Type B	AASHTO M181	Steel wire No. 7 gage, zinc galvanized at the rate of 1.2 oz/ft <sup>2</sup>
			Aluminum coated steel wire, No. 7 gage, coated at the rate of 0.040 oz/ft <sup>2</sup>

- Created tables for fencing components

## Specification 965: Aluminum Requirements

### 965-4 Aluminum Fence Components.

Fence components listed below must meet the requirements of Table 965-4 and be listed on the APL.

Table 965-4 Fence Components			
Item	Type	Requirement	Standard
<u>Line post option</u>	Type B	Aluminum alloy H-Beam- 1-7/8" x 1-5/8"	See Standard Plans, Index 550-002 detail
	Type B	Aluminum alloy pipe- 2" nominal dia.	ASTM B241 or ASTM B221, Alloy 6063, T6
<u>Corner, end, and pull post</u>	Type B	aluminum alloy pipe 2-1/2" nominal dia.	
<u>Fence Rail</u>	Type B	aluminum alloy pipe- 1 1/4" nominal dia.; ASTM B241 or B221, Alloy 6063, T6	
<u>Tension wire</u>	Type B	Aluminum alloy wire with a diameter of 0.1875" or larger	ASTM B211, Alloy 5056 Temper H38, or Alclad Alloy 5056 Temper H192
<u>Aluminum Barbed Wire</u>	Type A (Farm) or	Fabricated of two strands of 0.110-inch wire with 0.08-inch diameter four-point barbs spaced at approximately 5-1/2", and at a maximum spacing of 6".	ASTM B211M Alloy 5052-H38 or equal (for strands and barbs)
	Type B		

- Created a table for fencing components

<u>Tie wire and hog ring</u>	Type B	aluminum alloy wire with a diameter of 0.1443" or larger	TM B211, Alloy 5056 Temper H38, or Alclad Alloy 5056 Temper H192.
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## SPI 550

### Indexes 550-001 through 550-004 Fencing

#### Design Criteria

ASTM International Standards, AASHTO Standard Specifications for Transportation Materials (M Series), FDOT Design Manual (FDM)

#### Design Assumptions and Limitations

When placing fencing, ensure that all geometry requirements are met per the Standard Plans drawings and that the fences shown will fit with project constraints and other aboveground obstructions. Avoid conflicts between foundations, utilities, and other underground obstructions. Provide for setbacks to the right-of-way line as shown in **Indexes 550-001 & 550-002**. Align fencing with roadside features in accordance with **Index 550-004**. For additional design information, see **FDM 211, 222, and 224**.

Type A fence to be provided generally in rural areas.

Type B fence to be provided generally in urban areas.

Only use Type B Fence, per Index 550-002, on Turnpike projects.

Index 550-001 details Type A 5' Farm Fence that is constructed with farm fabric 46 ½" (47" nominal) in height and with specific ground clearance and specific barbed wire spacings. For fencing of different height or installation details, the fence is to be fully detailed in the Contract plans.

Index 550-002 details fencing that is constructed with chain link fabric 6' (nominal) in height and with specific ground clearance. For fencing of different height or installation details, the fence is to be fully detailed in the Contract plans.

Barb wire attachment for Type B fence to be used only when called for in the Plans. Attachment to extend in direction of restraint unless otherwise specified.

#### Plan Content Requirements

For the Plans sheets listed, show the standard fencing system as described below.

##### A. Plan Views:

Identify proposed fencing locations with corresponding line types. Label the standard fence type along with the station & offset of beginning posts, corner posts, and end posts.

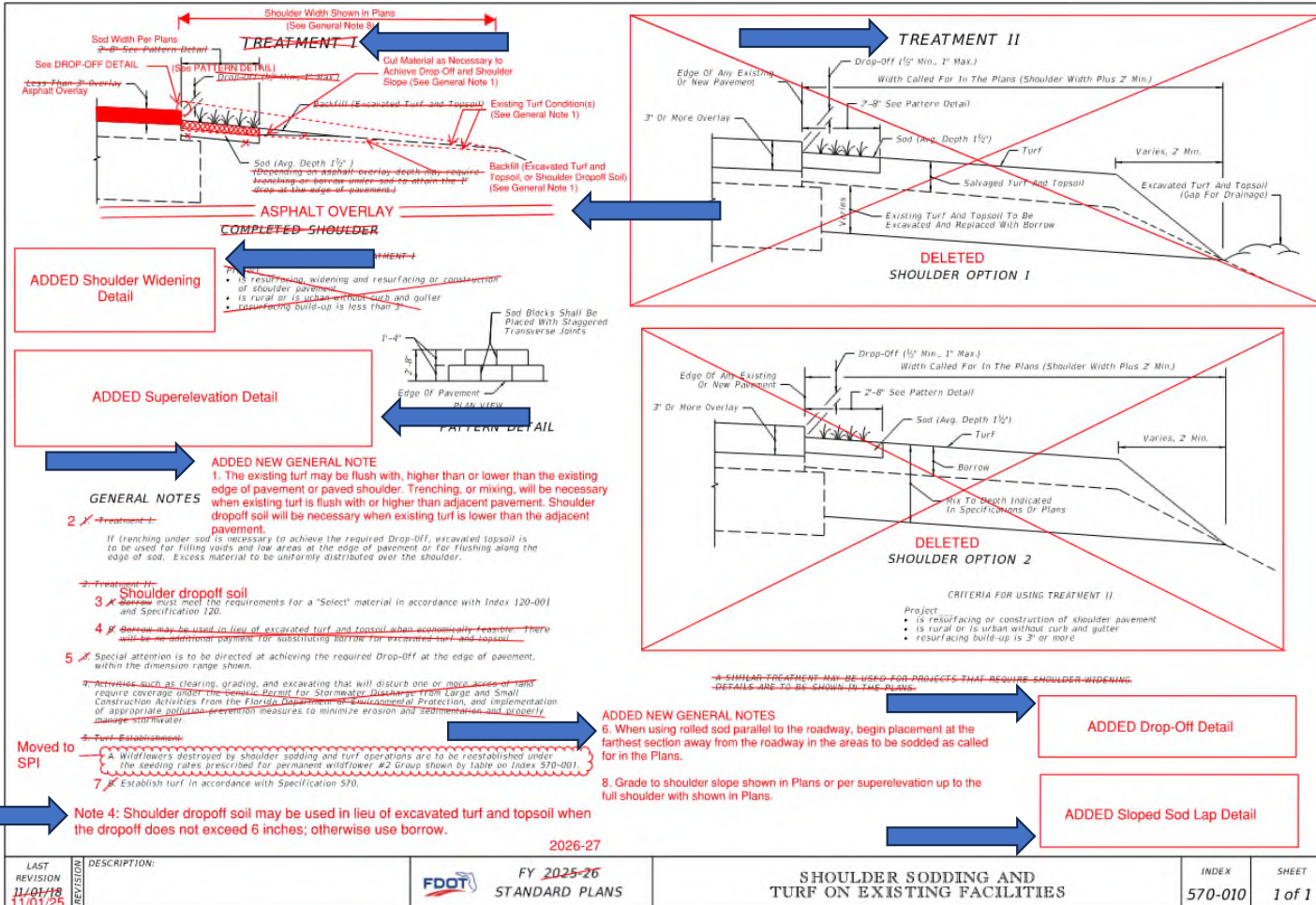
For Type A 5' Farm Fence, specify use of aluminum post, braces, and accessory framing hardware if they are to be incorporated. Also, specify type of gate if not using one that is commercially available.

- Moved all notes pertaining to design to the Standard Plans Instructions.



# Index 570-010 Shoulder Sodding and Turf on Existing Facilities

## Sheet 1: Redevelopment



- Deleted Treatments I and II
- Added Asphalt Overlay Detail, Shoulder Widening Detail, Superelevation Detail, Drop-Off Detail and Sloped Sod Lap Detail
- Added NEW general notes
- Established Shoulder Dropoff Soil

LAST REVISION 11/01/18 11/01/25	DESCRIPTION:	2026-27	INDEX	SHEET
		FY 2025-26 STANDARD PLANS	570-010	1 of 1
SHOULDER SODDING AND TURF ON EXISTING FACILITIES				



# Index 570-010 Shoulder Sodding and Turf on Existing Facilities

## Sheet 1: Redevelopment

**ASPHALT OVERLAY**

**SHOULDER WIDENING**

**SUPERELEVATION**

**PLAN VIEW**

**PATTERN DETAIL (When Using Palletized Sod)**

**DROP-OFF DETAIL**

**SLOPED SOD LAP DETAIL (For slopes steeper than 1:4)**

**GENERAL NOTES:**

- The existing turf may be flush with, higher than or lower than the existing edge of pavement or paved shoulder. Trenching, or mixing, will be necessary when existing turf is flush with or higher than adjacent pavement. Shoulder dropoff soil will be necessary when existing turf is lower than the adjacent pavement.
- If trenching under sod is necessary to achieve the required Drop-Off, excavated topsoil is to be used for filling voids and low areas at the edge of pavement or for flushing along the edge of sod. Excess material to be uniformly distributed over the shoulder.
- Shoulder dropoff soil must meet the requirements for a "Select" material in accordance with Index 120-001 and Specification 120.
- Shoulder dropoff soil may be used in lieu of excavated turf and topsoil when the dropoff does not exceed 6 inches; otherwise use borrow.
- Special attention is to be directed at achieving the required Drop-Off at the edge of pavement, within the dimension range shown.
- When using rolled sod parallel to the roadway, begin placement at the farthest section away from the roadway in the areas to be sodded as called for in the plans.
- Establish turf in accordance with Specification 570.
- Grade to shoulder slope shown in Plans or per superlevation out to the full shoulder width shown in Plans.

- Deleted Treatments I and II
- Added Asphalt Overlay Detail, Shoulder Widening Detail, Superelevation Detail, Drop-Off Detail and Sloped Sod Lap Detail
- Added NEW general notes
- Established Shoulder Dropoff Soil

LAST REVISION 11/01/25	DESCRIPTION:	FY 2026-27 STANDARD PLANS	SHOULDER SODDING AND TURF ON EXISTING FACILITIES	INDEX 570-010	SHEET 1 of 1
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## SPI 570

### Indexes 570-001 and 570-010 Performance Turf

#### Design Criteria

FDOT Design Manual (FDM); Drainage Manual (DM); Drainage Design Guide (DDG)

#### Design Assumptions and Limitations

Refer to FDM 210, FDM 211, FDM 913 (Typical Sections), and Drainage Manual for guidance on where to include sod or performance turf.

**Index 570-010** only applies to flush shoulder roadways where minor shoulder rework is needed to maintain a pavement edge drop-off between 1/2 to 1 inch. ~~Sodding on shoulders should be defined as Treatment I or Treatment II. Use each treatment as follows:~~

~~For shoulder drop-off soil, assume an average of 250 CY per lane mile of shoulder requiring correction; adjust as necessary based on field conditions and District experience. Include average CY per lane mile of shoulder amount in the Summary of Earthwork Design Notes column.~~

#### ~~Treatment I~~

~~Resurfacing, Widening, or Addition of Paved Shoulder where the grade of the exiting shoulder will be unchanged~~

~~Asphalt build-up < 3 inches~~

#### ~~Treatment II~~

~~Resurfacing or Addition of Paved Shoulder where minor shoulder build-up is needed~~  
~~Asphalt build-up > 3 inches (Not for use on Widening Projects)~~

~~Cut sod width may vary depending on the project area and how it is cut. Typical sod width for palletized sod is 16" wide and big roll sod sizes range from 36" to 48". Specify sod as single width or multiple row widths of the same size of either palletized or rolled sod depending on what is available in the project area and where the sod will be placed on the project.~~

Consideration should be given to adjusting the width of sod shown in the Plans when regional sod production widths are greater than the 2'-8" width shown on **Index 570-010**. Coordinate with the District Roadway Design Office.

Wildflowers destroyed by shoulder sodding and turf operations are to be reestablished under the seeding rates prescribed for permanent wildflower #2 group shown by table in **Index 570-001**.

### Plan Content Requirements

Standard Plans Instructions  
Indexes 570-001 and 570-010 Performance Turf  
Topic No. 625-010-003  
FY 2026-27

Include Performance Turf or Sod in the Plans in accordance with the requirements of the Basis of Estimates Manual (BOE) and (FDM).

Include shoulder and sod width in the Plans.

Show limits of sod where different than Roadway Typical Sections or as shown in **Standard Plans**.

Include shoulder slope in the Plans.

### Payment

Item number	Item Description	Unit Measure
570-1-1	Performance Turf (Contractors Option)	SY
570-1-2	Performance Turf (Sod)	SY
570-1-3	<del>Shoulder Dropoff Soil, Truck Measure</del> Performance Turf (Sod and Soil, Treatment II)	CY

See the **BOE** and **Specification 570** for additional information on payment, pay item use and compensation.

- Added design limitations to the SPI for the NEW shoulder drop-off soil and for sod widths.
- Added more to the Plan Content Requirements.
- Added NEW Shoulder Dropoff Soil pay item.



# Index 570-010 Shoulder Sodding and Turf on Existing Facilities

## Specification 570: Performance Turf

### PERFORMANCE TURF (REV 6-20-25)

SUBARTICLE 570-3.8 is deleted and the following substituted:

**570-3.8 Shoulder Treatment:** Provide soil for shoulder treatment in accordance with Standard Plans, Index 570-010. Soil needed for these purposes will be included in the corresponding Pay Item. **Shoulder Drop-off Soil:** Construct shoulder drop-off areas on existing facilities in accordance with Standard Plans 570-010. Assume responsibility for determining the suitability of excavated turf and topsoil or fill material for use as shoulder drop-off soil. Leave shoulder drop-off soil in a loose condition to facilitate turf establishment.

ARTICLE 570-8 is deleted and the following substituted:

#### 570-8 Method of Measurement.

**570-8.1 Performance Turf:** The quantities to be paid for will be plan quantity in square yards based on the area shown in the Plans, completed and accepted.

**570-8.2 Shoulder Drop-off Soil:** The quantity of material required to raise the shoulder elevation to meet the drop-off requirements will be paid in cubic yards under Shoulder Drop-off Soil (Truck Measure). Measurement will be made on a loose volume basis, measured in trucks or other hauling equipment at the point of dumping on the road. If measurement is made in vehicles, level the material to facilitate accurate measurement.

ARTICLE 570-9 is deleted and the following substituted:

#### 570-9 Basis of Payment.

Prices and payments will be full compensation for all work and materials specified in this Section.

Payment will be made under:

Item No. 570- 1- Performance Turf - per square yard.  
Item No. 570- 13 Shoulder Drop-off Soil – per cubic yard (truck measure)

- Established construction specification requirements for shoulder dropoff soil.
- Established payment specification requirements for shoulder dropoff soil.



# Index 570-010 Shoulder Sodding and Turf on Existing Facilities

## Specification 120: Excavation and Embankment

### EXCAVATION AND EMBANKMENT (REV 6-20-25)

SUBARTICLE 120-6.3 is deleted and the following substituted:

**120-6.3 Borrow Material for Shoulder Build-up:** When indicated in the Plans, furnish borrow material with a specific minimum bearing value, for building up of existing shoulders. Blend materials as necessary to achieve this specified minimum bearing value prior to placing the materials on the shoulders. Take samples of this borrow material at the pit or blended stockpile. Include all costs of providing a material with the required bearing value in the Contract unit price for borrow material. When the Plans indicate the use of drop-off soil on existing facilities as the shoulder buildup, no further testing is required.

SUBARTICLE 120-9.2.4 is deleted and the following substituted:

**120-9.2.4 Compaction of Grassed Areas:** Do not compact the upper layers of shoulders or outer layers of any embankments where turf will be established. Leave this layer in a loose condition to not ~~ex~~ exceed 6 inches for subsequent performance turf operations. Do not place RAP or RAP blended material within the top 12 inches of areas to be grassed. Construct shoulder areas on existing facilities using shoulder drop-off soil in accordance with Section 570 and Standard Plans 570-010. Meet the requirements of 570 for turf establishment.

- *Clarified testing requirements in the specifications for shoulder drop-off soil.*



## NEW Sheet 1: Redevelopment

**GENERAL NOTES:**  
 1. Sign dimensions are shown in width by height (W x H) throughout the Index.  
 2. See APPENDIX for previous sign numbering crosswalk.

**NUMBERING CONVENTION:**  
 FTP-AAA B/C-DD or TTC-AAA B/C-DD

AAA = Sign Type  
 B = Size Adjustments to Smallest Available Sign Size (A,B,C)  
 C = Left or Right (L or R)  
 DD = Year of update

Example 1: Size Adjustment - FTP-001A-25  
 Example 2: Direction Application - FTP-103R-25  
 Example 3: Size and Direction - FTP-037AR-25

**SIGN TYPES (AAA):**

FTP-001-199: Regulatory  
 FTP-200-399: Warning & Advisory  
 FTP-400-599: Motorist Service  
 FTP-600-799: Guide  
 FTP-800-899: Recreational & Cultural  
 FTP-900-999: Miscellaneous  
 TTC-001-199: Temporary Traffic Control

**TABLE OF CONTENTS:**

Sheet	Description
1	General Notes and Table of Contents
2	Sign Details FTP-001-25 through FTP-007B-25
3	Sign Details FTP-008-25 through FTP-018-25
4	Sign Details FTP-019-25 through FTP-026-25
5	Sign Details FTP-027-25 through FTP-034U-25
6	Sign Details FTP-035L-25 through FTP-037-25
7	Sign Details FTP-200-25 through FTP-206B-25
8	Sign Details FTP-207-25 through FTP-208A-25
9	Sign Details FTP-400-25 through FTP-409-25
10	Sign Details FTP-410-25 through FTP-415A-25
11	Sign Details FTP-416-25 through FTP-417-25
12	Sign Details FTP-418-25 through FTP-427B-25
13	Sign Details FTP-423-25 through FTP-423A-25
14	Sign Details FTP-600-25 through FTP-609-25
15	Sign Details FTP-610 through FTP-611B-25
16	Sign Details FTP-612-25 through FTP-613-25
17	Sign Details FTP-614-25 through FTP-616A-25
18	Sign Details FTP-800-25 through FTP-802A-25
19	Sign Details TTC-001-25 through TTC-010-25
20	Sign Details TTC-011-25 through TTC-018-25
21	Sign Details TTC-019-25 through TTC-020B-25
APPENDIX	Crosswalk

- **NEW** Sheet 1 with General Notes, Table of Contents, Numbering Convention and Sign Types

## OLD Sheet 1: Redevelopment

<p><b>FTP-001A-25</b> <b>FTP-1-06</b> 11'-6" x 5'-6" 9" Radii 2" Border 3" Radii 1" Border</p> <p>10" Series E Legend White Background Black Legend and Border</p>	<p><b>FTP-001-25</b> <b>FTP-2-06</b> 7' x 3'-6" 6" Radii 2" Border</p> <p>6" Series E Legend White Background Black Legend and Border</p>	<p><b>FTP-600-25</b> <b>FTP-3-06</b> 4' x 3'-6" 6" Radii 2" Border</p> <p>6" Series E Legend Green Background White Legend and Border</p>	<p><b>FTP-602-25</b> <b>FTP-4-06</b> 4' x 1'-6" 3" Radii 2" Border</p> <p>6" Series E Legend Green Background White Legend and Border</p> <p>Note: <b>FTP-602-25 to be used with FTP-600-25</b></p>
<p><b>FTP-601-25</b> <b>FTP-5-06</b> 14'-0" x 7'-6" 12" Radii 2" Border</p> <p>12" and 10" Series E Legend Green Background White Legend and Border</p>	<p><b>FTP-002L-25</b> for "NEXT LEFT" <b>FTP-6A-06</b> 14'-6" x 7'-6" 12" Radii 2" Border</p> <p>9" Radii</p> <p>Note: On Interstate Station Delete Pickups-Vans, and reduce Sign height accordingly.</p>	<p><del><b>FTP-6B-06</b> 14'-6" x 7'-6" 12" Radii 2" Border</del></p>	<p><b>FTP-604R-25</b> for "NEXT LEFT" <b>FTP-7A-06</b> 12' x 7'-6" 12" Radii 2" Border</p> <p>10" Series E Legend Green Background White Legend and Border</p>
<p><del><b>FTP-7B-06</b> 12' x 7'-6" 11" Radii 2" Border 10" Series E Legend Green Background White Legend and Border</del></p>	<p><b>FTP-602A-25</b> <b>FTP-8-06</b> 6'-6" x 7'-6" 2" Radii 2" Border</p> <p>10" Series E Legend Green Background White Legend and Border</p> <p>Note: <b>FTP-8-06 to be used with FTP-7A-06 &amp; FTP-7B-06</b></p>	<p><del><b>FTP-9B-06 LEFT ARROW</b></del></p> <p><b>FTP-603R-25</b> <b>FTP-603L-25 for LEFT ARROW</b> <b>FTP-9A-06</b> 14'-6" x 7'-6" 12" Radii 2" Border</p> <p>9" Radii</p> <p>10" Series E Legend Green Background White Legend and Border</p>	<p><b>FTP-400A-26</b> <b>FTP-10-06</b> 17' x 6'-0" 10" Radii 2" Border</p> <p>12", 10" and 15" Series E Legend Blue Background White Legend and Border</p>
<p>LAST REVISION: 11/01/20 REVISION: 11/01/25</p>	<p>DESCRIPTION: FY 2025-26 2026-27 STANDARD PLANS</p>	<p>SPECIAL SIGN DETAILS</p>	<p>INDEX: 700-102 SHEET 21 of 12</p>

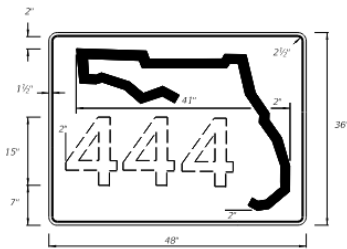
- Renumbered signs in Sign Type order
- Combined Left/Right options into one with L and R designations in the numbering
- Updated Radii and Border dimensions per the Sign Shop

## OLD Sheet 2: Redevelopment

<p>FTP-402A-25 <del>FTP-41-06</del> 16'-6" X 7'-6" 9" Radii 12" Series E Legend Blue Background White Legend and Border</p>	<p>FTP-404-25 <del>FTP-12-06</del> 17'-6" X 7'-6" 6" Radii 7" Radii 2" Border 6" and 8" Series E Legend Blue Background White Legend and Border</p>	<p>FTP-403-25 <del>FTP-13-06</del> 6'-0" X 5'-6" 6" Radii 8" Series E Legend Blue Background White Legend and Border</p>	<p>FTP-405-25 <del>FTP-14-06</del> 16'-0" X 7'-0" 9" Radii 14" Series 2" Border 13.3 and 10" Series E Legend Blue Background White Legend and Border</p>
<p>FTP-400-25 <del>FTP-15A-06</del> 11'-0" X 6'-6" 6" Radii 8" Series E Legend Blue Background White Legend and Border</p>	<p>ADDED: Top Graphs and Dimensions</p> <p>FTP-401-25 <del>FTP-15B-06</del> 11'-0" X 6'-6" 9" Radii 8" and 12" Series E Legend Blue Background White Legend and Border</p>	<p>ADDED: Top Graphs and Dimensions</p> <p>FTP-402-25 <del>FTP-15C-06</del> 11'-0" X 5'-6" 9" Radii 2" Border 8" Series E Legend Blue Background White Legend and Border</p>	
<p>FTP-610-25 <del>FTP-16-10</del> 2'-6" X 3'-0" 1.5" Radii 3/4" Border 5" Series B Legend Green Background White Legend, Border, and Florida Symbol</p>	<p>FTP-610A-25 <del>FTP-17-10</del> 3'-0" X 4'-6" 1.5" Radii 3/4" Border 5" Series B Legend Green Background White Legend, Border, and Florida Symbol</p>	<p>FTP-610B-25 <del>FTP-18-10</del> 4'-0" X 5'-0" 3" Radii 1 1/4" Border 8" Series B Legend Green Background White Legend, Border, and Florida Symbol</p>	
<p>LAST REVISION: 11/01/20 REVISION: 11/01/23</p>	<p>DESCRIPTION: FY 2025-26 2026-27 STANDARD PLANS</p>	<p>INDEX: 700-102</p>	<p>SHEET 21 2 of 12</p>

- Renumbered signs in Sign Type order
- Gave ABC designations to same signs with different size options
- Updated graphics on State of Florida signs
- Removed line in Turnpike signs

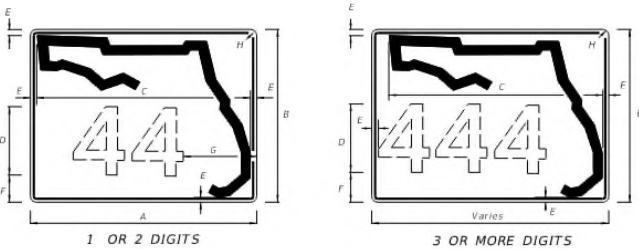
## OLD Sheet 3: Redevelopment



DIGITS	NUMERAL SIZE	SERIES LEGEND	PANEL SIZE
1-3	15"	C	48" x 36"
4	12"	C	48" x 36"

NOTES:  
 1. Stroke width of State Outline shall be 1".  
 2. 2 1/2" Radii

INDEPENDENT USE FOR FREEWAY

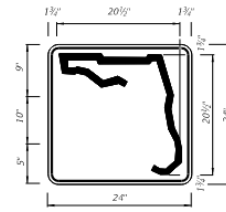


A	B	C	D	E	F	G	H
30"	24"	26"	12"	1 1/2"	2 1/2"	8 1/2"	11 1/4"
36"	30"	32"	15"	1 1/2"	3 1/2"	8 1/2"	11 1/4"
42"	36"	38"	15"	1 1/2"	6 1/2"	11"	11 1/4"

NOTES:  
 1. Florida marker shall have Black Legend with White Background.  
 2. Stroke width of State outline shall be 1 1/2" for Guide Sign.  
 3. Series D Legend.

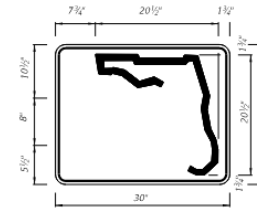
4. Width varies with the number scheme combination, within a range of 48"-58"

FTP-612-25 GUIDE SIGN USE  
 FTP-17-06 - FLORIDA ROUTE MARKER



1 or 2 DIGITS

DIGITS	NUMERAL SIZE	SERIES LEGEND	PANEL SIZE
1-2	10"	D	24" x 24"



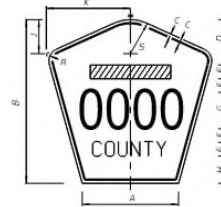
3 or 4 DIGITS

DIGITS	NUMERAL SIZE	SERIES LEGEND	PANEL SIZE
3	8"	D	30" x 24"
4	8"	C	30" x 24"

NOTES:  
 1. Stroke width of State Outline shall be 1".  
 2. The 24" x 24" panel shall only be used for a 3 digit route when the panel is to be used on a sign cluster with other 24" x 24" panels.  
 3. 1 1/2" Radii

INDEPENDENT USE OTHER THAN FREEWAY

NOTES:  
 1. Series D Legend, **all upper case**  
 2. Color: Yellow Legend and Border on Blue Background.  
 3. When used as a guide sign, marker must be overlaid on a rectangular Yellow Background as shown in chart.  
 4. When two or more County Route Markers are mounted together, use the dimensions of the largest marker for all other markers.






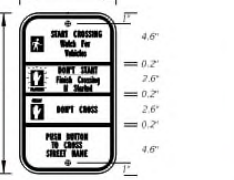
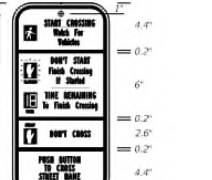
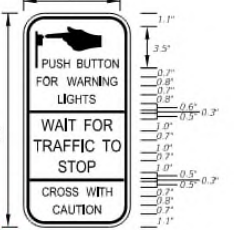






SIGN	DIMENSIONS															Rectangular Yellow Background Dimensions (See Note 3)
	A	B	C	D	E	F	G	H	J	K	R	S				
4 DIGIT POST MOUNTED	25 1/2"	42"	3 1/2"	10"	4"	4"	8"	8 1/2"	22"	5"	8 1/2"					
2 DIGIT OVERHEAD	21 1/2"	36"	1 1/2"	7 1/2"	3"	3"	12"	4 1/2"	7 1/2"	18 1/2"	4 1/2"	7 1/2"	42" x 42"			
3 DIGIT OVERHEAD	25 1/2"	42"	3 1/2"	8"	4"	4"	12"	6"	8 1/2"	22"	5"	8 1/2"	48" x 48"			
4 DIGIT OVERHEAD	29 1/2"	48"	3 1/2"	8"	5"	5"	12"	8"	9 1/2"	25 1/2"	5 1/2"	10 1/2"	52" x 52"			

FTP-613-25  
 FTP-18-06 - COUNTY ROUTE MARKER (M1-6)

- Renumbered signs in Sign Type order
- Revised Note 4 in the Florida Route Marker Details
- Clarified "all upper case" for the County Route Marker Details

## OLD Sheet 8: Redevelopment

 <p>FTP-203A-25 <del>FTP-62-06</del> 3' x 3' 1.5" Radii 2" Radii 1/2" Border 5' Series C Legend Yellow Background Black Legend and Border</p>	 <p>FTP-013-25 <del>FTP-65-06</del> 3' x 1'-6" 1.5" Radii 2" Radii 1/2" Border 4' Series D Legend White Background Black Legend and Border</p>	 <p>FTP-414-25 <del>FTP-66-21</del> 4' x 5' 2" Radii 1" Border 6" Series D Legend Blue Background White Legend and Border</p>	 <p>FTP-414A-25 <del>FTP-67-21</del> 5.5' x 8' 3" Radii 1" Border 8" Series D Legend Blue Background White Legend and Border</p>
<p>Sign Mounting Holes Can Be Punched Or Field Drilled With No Obstruction To Text Or Symbols From Holes Or Bolts.</p>			
 <p>FTP-414-25 FTP-414A-25 DETAIL for <del>FTP-66-21</del> AND <del>FTP-67-21</del></p>	 <p>FTP-031-25 <del>FTP-68A-06</del> 9' x 1'-3" 1.5" Radii 1/2" Border Series R Legend White Background Black Legend and Border</p>	 <p>FTP-032-25 <del>FTP-68B-06</del> 9' x 1'-6" 1.5" Radii 1/2" Border Series B Legend White Background Black Legend and Border</p>	 <p>FTP-033-25 <del>FTP-68C-21</del> 9' x 1'-6" 1.5" Radii 1/2" Border Series D Legend White Background Black Legend and Border</p>
<p>See MUTCD R10-31 for Letter Size, Spacing, and Symbol Sizes and Color</p>			
 <p>FTP-69-06 2'-6" x 2'-6" 4" Radii 1/2" Border 2" and 3" Series D Legend White Background Black Legend and Border</p>	 <p>FTP-422B-25 <del>FTP-70-06</del> 3'-6" x 2'-6" 1.5" Radii 2.5" Radii 1/2" Border 5" Series C and 7" Series C Legend Blue Background White Legend and Border</p>	 <p>FTP-208A-25 <del>FTP-71-06</del> 4' x 4' 2.5" Radii 1/2" Border 8" Series C Legend Yellow Background Black Legend and Border</p>	 <p>FTP-208-25 <del>FTP-72-06</del> 3' x 3' 2.5" Radii 1/2" Border 6" Series C Legend Yellow Background Black Legend and Border</p>
<p>See MUTCD R10-31 for Letter Size, Spacing, and Symbol Sizes and Color</p>			
<p>LAST REVISION: 11/01/24 11/01/25</p>	<p>DESCRIPTION: FY 2025-26 2026-27 STANDARD PLANS</p>	<p>SPECIAL SIGN DETAILS</p>	<p>INDEX: 700-102 SHEET 21: 8 of 12</p>

• Deleted FTP-69-06

## OLD Sheet 9: Redevelopment

<p><del>FTP-409-25</del> <del>FTP-73-06</del> 6'-6" x 2'-6" 1/2" Border</p> <p>8" Series D Legend Blue Background White Legend and Border</p> <p>3" Radii</p>	<p><del>FTP-74-06</del> <del>FTP-410-25</del> 6'-6" x 2'-6" 1/2" Border</p> <p>8" Series D Legend Blue Background White Legend and Border</p>	<p><del>FTP-411-25</del> <del>FTP-75-06</del> 6'-6" x 1'-3" 1/2" Border</p> <p>6" Series D Legend Blue Background White Legend</p> <p>1.5" Radii</p>	<p><del>FTP-412-25</del> <del>FTP-76-06</del> 6'-6" x 1'-3" 1/2" Border</p> <p>6" Series D Legend Blue Background White Legend</p> <p>1.5" Radii</p>																																										
<p><del>FTP-415A-25</del> <del>FTP-77-06</del> 3' x 3' 1.5" Radii</p> <p>4" Series C Legend White Background with Blue Circle Background White Legend and Black Border</p>	<p><del>FTP-415-25</del> <del>FTP-78-06</del> 2' x 2' 1.5" Radii</p> <p>2" Series D Legend White Background with Blue Circle Background White Legend and Black Border</p> <p>3" Radii</p>	<p><del>FTP-79-06</del> <del>FTP-611B-25</del> 4' x 3' 1/2" Border</p> <p>6" and 12" Series D Legend Top Yellow Background with Black Legend and Black Border Bottom White Background with Black Legend and Border</p> <p>3" Radii</p>	<p><del>FTP-611A-25</del> <del>FTP-80-06</del> 3' x 3' 1/2" Border</p> <p>6" and 10" Series D Legend Top Yellow Background with Black Legend and Black Border Bottom White Background with Black Legend and Border</p> <p>3" Radii</p>																																										
<p><del>FTP-611-25</del> <del>FTP-81-06</del> 2' x 2'-6" 1/2" Border</p> <p>4" and 6" Series D Legend Top Yellow Background with Black Legend and Black Border Bottom White Background with Black Legend and Border</p> <p>1.5" Radii</p>	<p><del>FTP-034U-25</del> <del>FTP-82-08</del> 2' x 2' 1.5" Radii</p> <p>5" Series D Legend White Background Black Legend and Border</p>	<table border="1"> <thead> <tr> <th colspan="7">ARROW HEAD</th> </tr> <tr> <th>A</th> <th>B</th> <th>C</th> <th>D</th> <th>E</th> <th>F</th> <th>G</th> </tr> </thead> <tbody> <tr> <td>3.125</td> <td>3.625</td> <td>6.375</td> <td>.5</td> <td>.625</td> <td></td> <td></td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="7">ARROW BODY</th> </tr> <tr> <th>A</th> <th>B</th> <th>C</th> <th>D</th> <th>E</th> <th>F</th> <th>G</th> </tr> </thead> <tbody> <tr> <td>6.25</td> <td>3.125</td> <td>3.125</td> <td>3.125</td> <td>5</td> <td>9.25</td> <td>20.5</td> </tr> </tbody> </table> <p><del>FTP-82-08</del> <del>FTP-037U-25</del> Details</p>	ARROW HEAD							A	B	C	D	E	F	G	3.125	3.625	6.375	.5	.625			ARROW BODY							A	B	C	D	E	F	G	6.25	3.125	3.125	3.125	5	9.25	20.5	<p><del>FTP-605R-25</del> <del>FTP-83-08</del> 10'-0" x 5'-0" 1/2" Border</p> <p>10" Series E Legend Green Background White Legend</p> <p>9" Radii</p> <p><del>FTP-606L-25</del> for LEFT ARROW</p>
ARROW HEAD																																													
A	B	C	D	E	F	G																																							
3.125	3.625	6.375	.5	.625																																									
ARROW BODY																																													
A	B	C	D	E	F	G																																							
6.25	3.125	3.125	3.125	5	9.25	20.5																																							
<p>LAST REVISION: 11/01/24 11/06/25</p>	<p>DESCRIPTION: FY-2025-26 2026-27</p>	<p>FDOT STANDARD PLANS</p>	<p>SPECIAL SIGN DETAILS</p>	<p>INDEX: 700-102</p> <p>SHEET 21 9 of 12</p>																																									


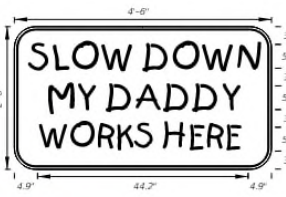
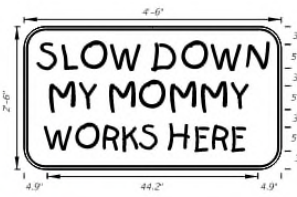


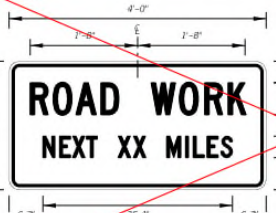
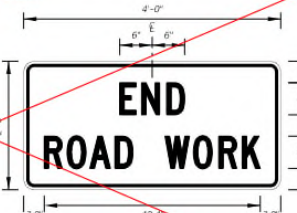
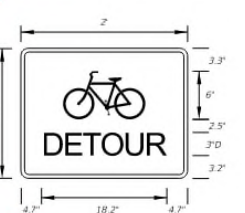
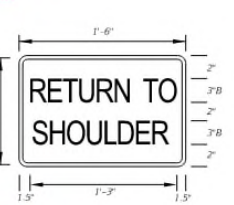
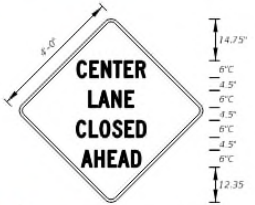
- Add a U to the numbering convention for the U-turn sign

## OLD Sheet 10: Redevelopment

<p><b>FTP-202-25</b> <del>FTP-04-09-</del> 3' x 3' 1.5" Radii</p> <p>5" Series D Legend Yellow Background Black Legend and Border</p>	<p><b>FTP-85-13</b> 2'-6" x 2' 1.875" Radii 3/4" Border</p> <p>3.5" Series C Legend White Background Black Legend and Border</p>	<p><b>FTP-029-25</b> <del>FTP-06-21-</del> 9' x 2'-3" 1.5" Radii No Border</p> <p>Series C Legend and Series D Legend White on Yellow Black Legend and Border</p>	<p><b>FTP-406-25</b> <del>FTP-07-21-</del> 15'-6" x 8'-6" 12" Radii 2" Border</p> <p>Series D Legend Series EM Legend Blue Background White Legend and Border</p>
<p><b>FTP-407-25</b> <del>FTP-08-21-</del> 15'-6" x 8'-6" 12" Radii 2" Border</p> <p>Series D Legend Series EM Legend Blue Background White Legend and Border</p>	<p><b>FTP-408-25</b> <del>FTP-09-21-</del> 16'-6" x 8'-6" 12" Radii 2" Border</p> <p>Series D Legend Series EM Legend Blue Background White Legend and Border</p>	<p><b>FTP-024-25</b> <del>FTP-00-22-</del> 3'-0" x 3'-0" 1.5" Radii 3/4" Border</p> <p>3" Series C Legend and 5" Series D Legend White Background Black Legend and Border</p>	<p><b>FTP-025-25</b> <del>FTP-01-22-</del> 3'-0" x 3'-0" 1.5" Radii 3/4" Border</p> <p>3" Series C Legend and 5" Series D Legend White Background Black Legend and Border</p>
<p><b>FTP-037-25</b> <del>FTP-100-25</del> 2'-0" x 6" 1.5" Radii 0.4" Border 0.4" Inset</p> <p>3" Series C Legend and Bright Yellow Green Background Black Legend and Border</p>			
<p>LAST REVISION: 11/01/24, 11/01/25</p>	<p>DESCRIPTION: FY 2025-26-2026-27 STANDARD PLANS</p>		<p>INDEX: 700-102</p> <p>SHEET 21 of 12</p>

• Deleted FTP-85-13

## OLD Sheet 12: Redevelopment

 <p><del>MOT-15-06</del> <b>TTC-009-25</b> 4' x 4' 2" Radii 1/2" Border 6" Series D Legend Orange Background Black Legend and Border</p>	 <p><b>TTC-012-25</b> <del>MOT-16-06</del> 4'-6" x 2'-6" 1.5" Radii 1/2" Border 5" Kids Series Legend Orange Background Black Legend and Border</p>	 <p><b>TTC-013-25</b> <del>MOT-17-06</del> 4'-6" x 2'-6" 1.5" Radii 1/2" Border 5" Kids Series Legend Orange Background Black Legend and Border</p>	 <p><b>TTC-010-25</b> <del>MOT-18-10</del> 4' x 4' 1.5" Radii 1/2" Border 6" Series D Legend Orange Background Black Legend and Border</p>	
 <p><b>TTC-014-25</b> <del>MOT-19-11</del> 2' x 2'-6" 1.5" Radii 1/2" Border 4" Series C Legend White Background Red Legend and Border</p>	 <p><del>G20-1</del> <b>DELETED</b> 4' x 2' 1.5" Radii 1/2" Border Orange Background Black Legend and Border</p>	 <p><del>G20-2</del> <b>DELETED</b> 4' x 2' 1.5" Radii 1/2" Border Orange Background Black Legend and Border</p>	 <p><b>TTC-018-25</b> <del>MOT-21-21</del> 2' x 1'-6" 1.5" Radii 1/2" Border 3" Series D Legend Orange Background Black Legend and Border</p>	
 <p><b>TTC-015-25</b> <del>MOT-23-21</del> 1'-6" x 1'-0" 1.5" Radii 1/4" Border 3" Series B Legend Orange Background Black Legend and Border</p>	 <p><b>TTC-008-25</b> <del>MOT-27-25</del> 4' x 4' 3" Radii 1/2" Border 6" Series C Legend Orange Background Black Legend and Border</p>			
<p>LAST REVISION: 11/01/24 11/01/25</p>	<p>DESCRIPTION:  <b>STANDARD PLANS</b></p>	<p>FY <del>2025-26</del> <b>2026-27</b> SPECIAL SIGN DETAILS</p>		<p>INDEX: 700-102 SHEET: 21 of 12</p>

- MOT -> TTC
- Deleted G20-1 and G20-2

## NEW Sheet 2: Redevelopment

<p>OTHER THAN FREEWAY USE</p> <p><b>FTP-001-25</b> 7'-0" x 3'-6" 3" Radii 1" Border</p> <p>6" Series E Legend White Background Black Legend and Border</p>	<p>FREEWAY USE</p> <p><b>FTP-001A-25</b> 11'-6" x 5'-6" 9" Radii 2" Border</p> <p>10" Series E Legend White Background Black Legend and Border</p>	<p><b>FTP-002R-25</b> 14'-6" x 7'-6" 9" Radii 2" Border</p> <p>10" Series E Legend White Background Black Legend and Border</p> <p>NOTES: 1. Use FTP-002L-25 for "NEXT LEFT". 2. On Interstate Station, delete PICKUPS-VANS, and reduce sign height accordingly.</p>	<p><b>FTP-003-25</b> 3'-6" x 2'-0" 1.5" Radii 1/2" Border</p> <p>4" Series E Legend White Background Black Legend and Border</p>
<p><b>FTP-004-25</b> 4'-0" x 3'-0" 1.5" Radii 3/2" Border</p> <p>4" Series C Legend White Background Black Legend and Border</p>	<p><b>FTP-004A-25</b> 9'-0" x 6'-0" 9" Radii 3/2" Border</p> <p>8" Series D Legend White Background Black Legend and Border</p>	<p><b>FTP-005-25</b> 2'-0" x 2'-0" 1.5" Radii 3/8" Border</p> <p>2" Series D Legend White Background - Green Florida Symbol Black Legend, Border and Man Belt Symbol</p>	<p><b>FTP-005A-25</b> 3'-0" x 4'-0" 1.5" Radii 3/2" Border</p> <p>3" Series D Legend White Background - Green Florida Symbol Black Legend, Border and Man Belt Symbol</p>
<p>FLORIDA LAW</p> <p><b>SAFETY BELT USE</b> CHILD RESTRAINT USE</p> <p>THREE SEAT BELT WEARERS AND SAFETY BELT AND CHILD RESTRAINT USE ARE REQUIRED BY A PROHIBITIVE LAW. VIOLATIONS ARE CONSIDERED A HIGHWAY VIOLATION AND PENALTIES ARE PROVIDED IN CHAPTER 316, F.S.</p> <p>IF CHILD 2 YEARS OR YOUNGER MUST BE IN A REAR SEAT POSITION OR SEATED IN A CHILD SEAT. IF CHILD 2 YEARS OR YOUNGER MUST BE IN A REAR SEAT POSITION OR SEATED IN A CHILD SEAT. IF CHILD 2 YEARS OR YOUNGER MUST BE IN A REAR SEAT POSITION OR SEATED IN A CHILD SEAT.</p> <p>ALL PASSENGERS UNDER AGE 18 MUST WEAR A SAFETY BELT SEATED OR POSITIONED IN A VEHICLE. VIOLATIONS ARE CONSIDERED A HIGHWAY VIOLATION AND PENALTIES ARE PROVIDED IN CHAPTER 316, F.S.</p> <p>ALL PASSENGERS UNDER AGE 18 MUST WEAR A SAFETY BELT SEATED OR POSITIONED IN A VEHICLE. VIOLATIONS ARE CONSIDERED A HIGHWAY VIOLATION AND PENALTIES ARE PROVIDED IN CHAPTER 316, F.S.</p> <p>ALL PASSENGERS UNDER AGE 18 MUST WEAR A SAFETY BELT SEATED OR POSITIONED IN A VEHICLE. VIOLATIONS ARE CONSIDERED A HIGHWAY VIOLATION AND PENALTIES ARE PROVIDED IN CHAPTER 316, F.S.</p> <p><b>FTP-006-25</b> 4'-0" x 4'-0" 1.5" Radii 0.8" Border</p> <p>2.5" Series C Legend 3" Series C Legend and White Background Black Legend and Border</p>	<p>Non-Limited Access</p> <p><b>FTP-007-25</b> 4'-4" x 2'-0" 1.5" Radii 0.6" Border</p> <p>TOP: 4" Series D Legend Yellow Background Black Legend and Border Bottom: 4" Series D Legend White Background Black Legend and Border</p>	<p>Non-Limited Access</p> <p><b>FTP-007A-25</b> 7'-0" x 2'-0" 3" Radii 0.9" Border</p> <p>TOP: 6" Series D Legend Yellow Background Black Legend and Border Bottom: 6" Series D Legend White Background Black Legend and Border</p>	<p><b>FTP-007B-25</b> 10'-0" x 2'-0" 3" Radii 0.8" Border</p> <p>TOP: 8" Series D Legend Yellow Background Black Legend and Border Bottom: 8" Series D Legend White Background Black Legend and Border</p>
<p>LAST REVISION 11/01/25</p>	<p>DESCRIPTION: FY 2026-27 STANDARD PLANS</p>	<p>SPECIAL SIGN DETAILS</p>	
		<p>INDEX 700-102</p>	<p>SHEET 2 of 21</p>

- Regulatory Signs
- Added NEW Fender Bender Signs

## NEW Sheet 3: Redevelopment

<p><b>FTP-008-25</b> 15'-0" X 6'-0" 9" Radii 1.5" Border</p>	<p>Limited Access</p> <p><b>FTP-009-25</b> 13'-0" X 3'-6" 6" Radii 1" Border</p>	<p><b>FTP-010-25</b> 2'-6" X 7'-6" 1.5" Radii 0.625" Border</p>	<p><b>FTP-011-25</b> 2'-6" X 3'-0" 1.5" Radii 3/8" Border</p>		
<p><b>FTP-012-25</b> 2'-6" X 3'-0" 1.5" Radii 3/8" Border</p>	<p><b>FTP-013-25</b> 3'-0" X 1'-6" 1.5" Radii 3/8" Border</p>	<p><b>FTP-014-25</b> 2'-0" X 1'-6" 1.5" Radii 3/8" Border</p>	<p><b>FTP-015-25</b> 2'-6" X 3'-0" 1.5" Radii 3/8" Border</p>		
<p><b>FTP-015A-25</b> 3'-6" X 4'-0" 1.5" Radii 3/8" Border</p>	<p><b>FTP-016-25</b> 1'-0" X 1'-6" 1.5" Radii 3/8" Border</p>	<p><b>FTP-017-25</b> 1'-0" X 1'-6" 1.5" Radii 3/8" Border</p>	<p><b>FTP-018-25</b> 1'-6" X 2'-6" 1.5" Radii 3/8" Border</p>		
<p>LAST REVISION: 11/01/25</p>	<p>DESCRIPTION: FY 2026-27 STANDARD PLANS</p>	<p>SPECIAL SIGN DETAILS</p>		<p>INDEX: 700-102</p>	<p>SHEET: 3 of 21</p>



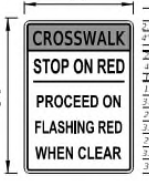
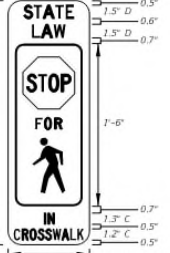

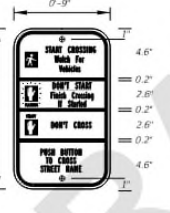
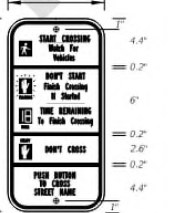

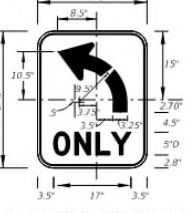
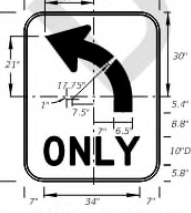
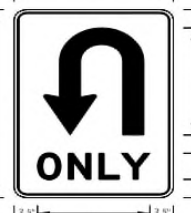
- Regulatory Signs
- Added NEW Florida Law MOVE OVER sign
- Added NEW Two-Axle Vehicles Only Sign
- Added NEW Emergency Stopping Site signs

## NEW Sheet 4: Redevelopment

<p>NOTE: Supplemental Panel for the FTP-016-25 sign</p> <p><b>FTP-019-25</b> 1'-0" X 0'-6" 1.5" Radii 1/2" Border</p> <p>1" Series E Legend White Background Black Legend and Border</p>	<p>NOTE: Supplemental Panel for the FTP-017-25 sign</p> <p><b>FTP-019A-25</b> 1'-6" X 0'-9" 1.5" Radii 1/2" Border</p> <p>2" Series D Legend White Background Black Legend and Border</p>	<p>State Line Sign</p> <p><b>FTP-020-25</b> 9'-6" X 6'-0" 9" Radii 2" Border</p> <p>8" Series E Legend White Background Black Legend and Border</p>	<p><b>FTP-021-25</b> 2'-0" X 2'-6" 1.5" Radii 1/2" Border</p> <p>4" Series C Legend 80% Spacing White Background Black Legend and Border</p>
<p>Freeway Sign</p> <p><b>FTP-021A-25</b> 4'-0" X 4'-0" 3" Radii 1/2" Border</p> <p>8" Series D Legend White Background Black Legend and Border</p>	<p><b>FTP-022-25</b> 2'-0" X 3'-0" 1.5" Radii 1/2" Border</p> <p>TOP: 4" Series D Legend Fluorescent Yellow-Green Background Black Legend and Border BOTTOM: 4" and 10" Series E Legend White Background Black Legend and Border</p>	<p><b>FTP-023-25</b> 8'-0" X 4'-0" 3" Radii 1/2" Border</p> <p>Span Wire Placement of 12" Yellow Signal</p> <p>TOP: 8" Series D Legend Fluorescent Yellow-Green Background Black Legend and Border BOTTOM: 8" and 10" Series D Legend White Background Black Legend and Border</p>	<p><b>FTP-023A-25</b> 8'-0" X 4'-0" 3" Radii 1/2" Border</p> <p>Wast Arm Placement of 12" Yellow Signal</p> <p>TOP: 8" Series D Legend Fluorescent Yellow-Green Background Black Legend and Border BOTTOM: 8" and 10" Series D Legend White Background Black Legend and Border</p>
<p><b>FTP-024-25</b> 2'-0" X 2'-6" 1.5" Radii 1/2" Border</p> <p>4" Series D and E Legend White Background Black Legend and Border</p>	<p><b>FTP-024A-25</b> 8'-0" X 4'-0" 3" Radii 1/2" Border</p> <p>12" Series E and 8" Series D Legend White Background Black Legend and Border</p>	<p><b>FTP-025-25</b> 3'-0" X 2'-6" 1.5" Radii 1/2" Border</p> <p>3" Series C Legend and 5" Series D Legend White Background Black Legend and Border</p>	<p><b>FTP-026-25</b> 3'-0" X 2'-6" 1.5" Radii 1/2" Border</p> <p>3" Series C Legend 5" Series D Legend White Background Black Legend and Border</p>
<p>LAST REVISION 11/01/25</p>	<p>DESCRIPTION: FY 2026-27 STANDARD PLANS</p>	<p>SPECIAL SIGN DETAILS</p>	<p>INDEX 700-102</p> <p>SHEET 4 of 21</p>

- Regulatory Signs
- Added NEW size option for FINE \$250 MAX sign

## NEW Sheet 5: Redevelopment

 <p><b>FTP-027-25</b> 2'-6" x 3'-0" 1.5" Radii 0.8" Border</p> <p>TOP: Series D Legend Fluorescent Yellow Green Background Black Legend and Border BOTTOM: Series D Legend White Background Black Legend and Border</p>	 <p><b>FTP-027A-25</b> 4'-0" x 5'-0" 3" Radii 0.8" Border</p> <p>TOP: Series D Legend Fluorescent Yellow Green Background Black Legend and Border BOTTOM: Series E Legend White Background Black Legend and Border</p>	 <p><b>FTP-028-25</b> 2'-6" x 3'-0" 1.5" Radii 0.625" Border</p> <p>TOP: Series C Legend Yellow Background Black Legend and Border BOTTOM: Series C Legend White Background Black Legend and Border</p>	 <p><b>FTP-029-25</b> 9" x 2'-3" 1.5" Radii No Border</p> <p>Series C Legend and Series D Legend White on Yellow Black Legend and Border</p>																																			
 <p><b>FTP-030-25</b> 9" x 1'-0" 1.5" Radii 1/4" Border</p> <p>Series D Legend White Background Black Legend and Border</p>	<p>NOTES: 1. Sign mounting holes can be punched or field drilled with no obstruction to text or symbols from holes or bolts. 2. See MUTCD R10-31 for Letter Size, Spacing, and Symbol Sizes and Color.</p>  <p><b>FTP-031-25</b> 9" x 1'-2" 1.5" Radii 1/4" Border</p> <p>Series B Legend White Background Black Legend and Border</p>	<p>NOTES: 1. Sign mounting holes can be punched or field drilled with no obstruction to text or symbols from holes or bolts. 2. See MUTCD R10-31 for Letter Size, Spacing, and Symbol Sizes and Color.</p>  <p><b>FTP-032-25</b> 9" x 1'-6" 1.5" Radii 1/4" Border</p> <p>Series B Legend White Background Black Legend and Border</p>	 <p><b>FTP-033-25</b> 9" x 1'-6" 1.5" Radii 1/4" Border</p> <p>Series D Legend White Background Black Legend and Border</p>																																			
 <p><b>FTP-034L-25</b> 2'-0" x 2'-6" 1.5" Radii 3/4" Border</p> <p>Series D Legend White Background Black Legend and Border</p> <p>Note: Use FTP-033R for RIGHT TURN ONLY</p>	 <p><b>FTP-034AL-25</b> 4'-0" x 5'-0" 3" Radii 3/4" Border</p> <p>Series D Legend White Background Black Legend and Border</p> <p>Note: Use FTP-033AR for RIGHT TURN ONLY</p>	 <p><b>FTP-034U-25</b> 2'-0" x 3'-0" 1.5" Radii</p> <p>Series D Legend White Background Black Legend and Border</p> <table border="1"> <thead> <tr> <th colspan="6">ARROW HEAD</th> </tr> <tr> <th>A</th> <th>B</th> <th>C</th> <th>D</th> <th>E</th> <th>F</th> </tr> </thead> <tbody> <tr> <td>3.125</td> <td>3.625</td> <td>6.375</td> <td>5</td> <td>6.25</td> <td></td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="6">ARROW BODY</th> </tr> <tr> <th>A</th> <th>B</th> <th>C</th> <th>D</th> <th>E</th> <th>F</th> </tr> </thead> <tbody> <tr> <td>6.25</td> <td>3.125</td> <td>3.125</td> <td>3.125</td> <td>5</td> <td>9.25</td> </tr> </tbody> </table> <p>DETAILS</p>	ARROW HEAD						A	B	C	D	E	F	3.125	3.625	6.375	5	6.25		ARROW BODY						A	B	C	D	E	F	6.25	3.125	3.125	3.125	5	9.25
ARROW HEAD																																						
A	B	C	D	E	F																																	
3.125	3.625	6.375	5	6.25																																		
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6.25	3.125	3.125	3.125	5	9.25																																	
<p>LAST REVISION: 11/01/25</p>	<p>DESCRIPTION: FY 2026-27 STANDARD PLANS</p>	<p>INDEX: 700-102</p> <p>SHEET: 5 of 21</p>																																				

- Regulatory Signs
- Added new Crosswalk signs: FTP-027-25, FTP-027A-25, and FTP-028-25

## NEW Sheet 6: Redevelopment

<p><b>FTP-035R-25</b> 2'-0" X 2'-6" 1.5" Radii 3/8" Border</p> <p>5" Series C Legend White Background Black Legend and Border</p>	<p><b>FTP-035L-25</b> 2'-0" X 2'-6" 1.5" Radii 3/8" Border</p> <p>5" Series C Legend White Background Black Legend and Border</p>	<p><b>FTP-036-25</b> 3'-0" X 1'-6" 1.5" Radii 0.5" Border</p> <p>3" Series C Legend and White Background Black Legend and Border</p>	<p><b>FTP-037-25</b> 3'-0" X 1'-0" 1.5" Radii 0.4" Border</p> <p>4" Series C Legend Fluorescent Yellow Green Background Black Legend and Border</p>		
<p style="font-size: 48px; opacity: 0.3; transform: rotate(-45deg);">DRAFT</p>					
<p>LAST REVISION 11/01/25</p>	<p>REVISION DESCRIPTION:</p>	<p>FY 2026-27 STANDARD PLANS</p>	<p>SPECIAL SIGN DETAILS</p>	<p>INDEX 700-102</p>	<p>SHEET 6 of 21</p>

- Regulatory Signs
- Added NEW "No Pedestrians or Bicycles Beyond Gate" sign

## NEW Sheet 7: Redevelopment

<p><b>FTP-200-25</b> 4'-6" X 2'-10" 1.5" Radii 3/4" Border</p> <p>4" Series C Legend Yellow Background Black Legend and Border</p>	<p><b>FTP-201-25</b> 2'-6" X 2'-6" 1.5" Radii 3/4" Border</p> <p>5" Series C Legend Fluorescent Yellow-Green Background Black Legend and Border</p>	<p><b>FTP-202-25</b> 3'-0" X 3'-0" 1.5" Radii</p> <p>5" Series D Legend Yellow Background Black Legend and Border</p>	<p><b>FTP-203-25</b> 3'-0" X 2'-0" 1.5" Radii 3/4" Border</p> <p>4" and 3" Series C Legend Yellow Background Black Legend and Border</p>
<p><b>FTP-203A-25</b> 3'-0" X 3'-0" 1.5" Radii 3/4" Border</p> <p>4" and 5" Series C Legend Yellow Background Black Legend and Border</p>	<p><b>FTP-204-25</b> 2'-0" X 1'-0" 1.5" Radii 3/4" Border</p> <p>4" Series C Legend Yellow Background Black Legend and Border</p>	<p><b>FTP-205-25</b> 3'-6" X 1'-0" 1.5" Radii 3/4" Border</p> <p>4" Series C Legend Yellow Background Black Legend and Border</p>	<p><b>FTP-206-25</b> 2'-6" X 2'-6" 1.5" Radii 3/4" Border</p> <p>4" Series B Legend Yellow Background Black Legend and Border</p> <p>Single-Lane</p>
<p><b>FTP-206A-25</b> 3'-0" X 3'-0" 1.5" Radii 3/4" Border</p> <p>5" Series B Legend Yellow Background Black Legend and Border</p> <p>Multi-Lane</p>	<p><b>FTP-206B-25</b> 4'-0" X 4'-0" 2" Radii 3/4" Border</p> <p>6" Series B Legend Yellow Background Black Legend and Border</p> <p>Limited Access</p>		
<p>LAST REVISION 11/01/25</p>	<p>DESCRIPTION:</p> <p><b>FY 2026-27</b> <b>STANDARD PLANS</b></p>	<p><b>SPECIAL SIGN DETAILS</b></p>	<p>INDEX 700-102</p> <p>SHEET 7 of 21</p>

- Warning Signs
- Added NEW "X-ING" sign
- Added NEW "On Sidewalk" sign
- Added NEW "Motorcycles Use Caution" signs

## NEW Sheet 8: Redevelopment

<p>Non-Limited Access</p> <p><b>FTP-207-25</b> 3'-0" x 3'-0" 1.5" Radii 0.8" Border</p> <p>5" Series C Legend Yellow Background Black Legend and Border</p>	<p>Limited Access</p> <p><b>FTP-207A-25</b> 4'-0" x 4'-0" 3" Radii 0.8" Border</p> <p>6" Series D Legend Yellow Background Black Legend and Border</p>	<p><b>FTP-208-25</b> 3'-0" x 3'-0" 1.5" Radii 3/4" Border</p> <p>6" Series C Legend Yellow Background Black Legend and Border</p>	<p><b>FTP-208A-25</b> 4'-0" x 4'-0" 1.5" Radii 3/4" Border</p> <p>8" Series C Legend Yellow Background Black Legend and Border</p>		
<p style="font-size: 48px; opacity: 0.3; transform: rotate(-30deg);">DRAFT</p>					
<p>LAST REVISION 11/01/25</p>	<p>DESCRIPTION:</p>	<p>FY 2026-27 STANDARD PLANS</p>	<p>SPECIAL SIGN DETAILS</p>	<p>INDEX 700-102</p>	<p>SHEET 8 of 21</p>

- Warning and Advisory Signs
- Added NEW "Prescribed Burn Ahead" signs

## NEW Sheet 12: Redevelopment

<p><b>FTP-418-25</b> 3'-0" X 2'-0" 1.5" Radii</p> <p>4" and 3" Series C Legend Blue Background White Legend and Border</p>	<p><b>FTP-418A-25</b> 6'-6" X 4'-0" 3" Radii 3/2" Border</p> <p>8" and 6" Series D Legend Blue Background White Legend and Border</p>	<p><b>FTP-419-25</b> 3'-0" X 2'-0" 1.5" Radii</p> <p>4" and 3" Series C Legend Blue Background White Legend and Border</p>	<p><b>FTP-419A-25</b> 6'-6" X 4'-0" 3" Radii 3/2" Border</p> <p>8" and 6" Series D Legend Blue Background White Legend and Border</p>
<p><b>FTP-420-25</b> 3'-0" X 2'-0" 1.5" Radii</p> <p>4" and 3" Series C Legend Blue Background White Legend and Border</p>	<p><b>FTP-420A-25</b> 6'-6" X 4'-0" 3" Radii 3/2" Border</p> <p>8" and 6" Series D Legend Blue Background White Legend and Border</p>	<p><b>FTP-421-25</b> 3'-0" X 2'-0" 1.5" Radii 0.8" Border</p> <p>3" Series D Legend Blue Background White Legend and Border</p>	<p><b>FTP-421A-25</b> 6'-6" X 4'-0" 3" Radii 0.8" Border</p> <p>4" Series D Legend Blue Background White Legend and Border</p>
<p><b>FTP-421B-25</b> 12'-0" X 6'-0" 9" Radii 1.5" Border</p> <p>8" Series D Legend Blue Background White Legend and Border</p>	<p><b>FTP-422-25</b> 2'-0" X 1'-6" 1.5" Radii 0.5" Border</p> <p>3" and 4" Series C Legend Blue Background White Legend and Border</p>	<p><b>FTP-422A-25</b> 3'-0" X 2'-0" 1.5" Radii 0.8" Border</p> <p>4.5" and 6" Series C Legend Blue Background White Legend and Border</p>	<p><b>FTP-422B-25</b> 3'-6" X 2'-6" 1.5" Radii 1/2" Border</p> <p>5" and 7" Series C Legend Blue Background White Legend and Border</p>
<p>LAST REVISION: 11/01/25</p> <p>DESCRIPTION: FY 2026-27 STANDARD PLANS</p>		<p>SPECIAL SIGN DETAILS</p>	
		<p>INDEX: 700-102</p>	<p>SHEET: 12 of 21</p>

- Motorist Service Signs
- Added NEW "Share-a-Ride" signs
- Added NEW "Emergency Info" signs

## NEW Sheet 14: Redevelopment

<p>Other Than Freeway Use</p> <p><b>FTP-600-25</b> 4'-0" x 3'-6" 1.5" Radii 2" Border</p> <p>6" Series E Legend Green Background White Legend and Border</p>	<p>Other Than Freeway Use</p> <p><b>FTP-601-25</b> 14'-0" x 7'-0" 9" Radii 2" Border</p> <p>12" and 10" Series E Legend Green Background White Legend and Border</p>	<p>Other Than Freeway Use</p> <p><b>FTP-602-25</b> 4'-0" x 1'-6" 1.5" Radii 2" Border</p> <p>6" Series E Legend Green Background White Legend and Border</p> <p>NOTE: FTP-602-25 to be used with FTP-600-25</p>	<p>Freeway Use</p> <p><b>FTP-602A-25</b> 6'-6" x 2'-0" 1.5" Radii 2" Border</p> <p>10" Series E Legend Green Background White Legend and Border</p> <p>NOTE: FTP-602A-25 to be used with FTP-604R-25</p>		
<p><b>FTP-603R-25</b> 14'-6" x 7'-0" 9" Radii 2" Border</p> <p>10" Series E Legend Green Background White Legend and Border</p>	<p><b>FTP-604L-25</b> 12'-0" x 7'-0" 9" Radii 2" Border</p> <p>10" Series E Legend Green Background White Legend and Border</p> <p>NOTE: Use FTP-604L-25 for "NEXT LEFT".</p>	<p><b>FTP-605R-25</b> 10'-0" x 9'-0" 5" Radii</p> <p>10" Series E Legend Green Background White Legend</p> <p>NOTE: Use FTP-605L-25 for LEFT ARROW.</p>	<p><b>FTP-606-25</b> 3'-0" x 3'-0" 1.5" Radii</p> <p>4" Series D Legend Green Background White Legend and Border</p>		
<p><b>FTP-607-25</b> 3'-6" x 5'-0" 1.5" Radii</p> <p>4" Series C Legend Green Background White Legend, Border and Symbol</p>	<p><b>FTP-608-25</b> 3'-6" x 5'-0" 3" Radii</p> <p>4" Series C Legend Green Background Municipality Name Optional White Legend, Border and Symbol</p>	<p>Detail for <b>FTP-607-25</b> and <b>FTP-608-25</b></p>	<p><b>FTP-609-25</b> 1'-6" x 3'-0" 1.5" Radii 0.8" Border</p> <p>6" Series B, 6" Series C, 8" Series B, and 8" Series C Green Background White Legend and Border</p>		
<p>LAST REVISION 11/01/25</p>	<p>DESCRIPTION:</p>	<p>FY 2026-27 STANDARD PLANS</p>	<p>SPECIAL SIGN DETAILS</p>	<p>INDEX 700-102</p>	<p>SHEET 14 of 21</p>

- Guide Signs
- Added NEW Directional Highway Marker sign: **FTP-609-25**

## NEW Sheet 17: Redevelopment

<p>Non-Limited Access</p> <p><b>FTP-614-25</b> 2'-0" X 2'-0" 1.5" Radii 0.75" Border</p> <p>Green Background White Legend, Border and Symbol</p>	<p>Limited Access</p> <p><b>FTP-614A-25</b> 2'-6" X 2'-6" 1.5" Radii 0.75" Border</p> <p>Green Background White Legend, Border and Symbol</p>	<p>Non-Limited Access</p> <p><b>FTP-615-25</b> 2'-0" X 2'-0" 1.5" Radii 0.5" Border</p> <p>Green Background White Legend, Border and Symbol</p>	<p>Limited Access</p> <p><b>FTP-615A-25</b> 2'-6" X 2'-6" 1.5" Radii 0.75" Border</p> <p>Green Background White Legend, Border and Symbol</p>	
<p>Non-Limited Access</p> <p><b>FTP-616-25</b> 2'-0" X 2'-0" 1.5" Radii 0.75" Border</p> <p>Green Background White Legend, Border and Symbol</p>	<p>Limited Access</p> <p><b>FTP-616A-25</b> 2'-6" X 2'-6" 1.5" Radii 0.75" Border</p> <p>Green Background White Legend, Border and Symbol</p>			
<p>LAST REVISION: 11/01/25</p>		<p>DESCRIPTION:</p> <p> FY 2026-27 STANDARD PLANS</p>	<p>SPECIAL SIGN DETAILS</p>	<p>INDEX: 700-102 SHEET: 17 of 21</p>

- Guide Signs
- Added NEW Amtrak, Greyhound, and Cruise Ship signs

## NEW Sheet 18: Redevelopment

<p><b>FTP-800-25</b> 4'-0" x 2'-0" 1.5" Radii 0.5" Border</p>	<p><b>FTP-800A-25</b> 4'-0" x 2'-0" 1.5" Radii 0.5" Border</p>	<p><b>FTP-801-25</b> 4'-0" x 2'-0" 1.5" Radii</p>	<p><b>FTP-802-25</b> 2'-0" x 1'-4"</p> <p><i>NOTE:</i> To be installed with Co-location of route Confirmation Marker</p>		
<p><b>FTP-802A-25</b> 3'-0" x 2'-0"</p> <p><i>NOTE:</i> Install at the Florida Scenic Highway Entrance Points</p>	<p style="font-size: 48px; opacity: 0.3; transform: rotate(-45deg);">DRAFT</p>				
<p>LAST REVISION 11/01/25</p>	<p>DESCRIPTION:</p>	<p>FY 2026-27 STANDARD PLANS</p>	<p>SPECIAL SIGN DETAILS</p>	<p>INDEX 700-102</p>	<p>SHEET 18 of 21</p>

- Recreational & Cultural Signs
- Added NEW Memorial Highway signs (2 and 3 line)
- Added NEW Florida Scenic Highway signs

## NEW Sheet 21: Redevelopment

<p><b>TTC-019-25</b> 3'-0" x 3'-0" 1.5" Radii, 0.8" Border</p> <p>5" Series C Legend Pink Background Black Legend and Border</p>	<p><b>TTC-019A-25</b> 3'-0" x 3'-0" 3" Radii, 0.8" Border</p> <p>6" Series C Legend Pink Background Black Legend and Border</p>				
<p><b>TTC-020-25</b> 3'-0" x 3'-0" 1.5" Radii, 0.75" Border</p> <p>4" Series C Legend Pink Background Black Legend and Border</p>	<p><b>TTC-020A-25</b> 3'-0" x 3'-0" 1.5" Radii, 0.8" Border</p> <p>5" Series C Legend Pink Background Black Legend and Border</p>	<p><b>TTC-020B-25</b> 3'-0" x 3'-0" 1.5" Radii, 0.8" Border</p> <p>6" Series C Legend Pink Background Black Legend and Border</p>			
<p>LAST REVISION 11/01/25</p>	<p>DESCRIPTION:</p>	<p>FY 2026-27 STANDARD PLANS</p>	<p>SPECIAL SIGN DETAILS</p>	<p>INDEX 700-102</p>	<p>SHEET 21 of 21</p>

- Temporary Traffic Control Signs
- Added NEW “Reduced Speed Smoke Ahead” signs
- Added NEW “Motorcycles Use Caution” signs



# Index 700-102 Special Sign Details

## NEW Crosswalk

### SPECIAL SIGN DETAILS CROSSWALK

Previous Sign Number	Current Sign Number	Sign Description	Previous Sign Number	Current Sign Number	Sign Description
FTP-2-06	FTP-001-25	ALL TRUCKS ENTER WEIGH STATION (NON-FREEWAY)	FTP-90-22	FTP-025-25	ALL TRAFFIC BOTH DIRECTIONS STOP WHILE SCHOOL BUSES LOAD OR UNLOAD
FTP-1-06	FTP-001A-25	ALL TRUCKS ENTER WEIGH STATION (FREEWAY)	FTP-91-22	FTP-026-25	STOP WHILE SCHOOL BUSES LOAD OR UNLOAD THIS ROADWAY
FTP-6B-06	FTP-002L-25	ALL TRUCKS - TRAILERS PICKUPS - VANS NEXT LEFT	NEW	FTP-027-25	STATE LAW STOP FOR PEDESTRIANS IN CROSSWALKS
FTP-6A-06	FTP-002R-25	ALL TRUCKS - TRAILERS PICKUPS - VANS NEXT RIGHT	NEW	FTP-027A-25	STATE LAW STOP FOR PEDESTRIANS IN CROSSWALKS
FTP-51-06	FTP-003-25	WEIGHT LIMIT LAST EXIT	NEW	FTP-028-25	CROSSWALK   STOP ON RED   PROCEED ON FLASHING RED WHEN CLEAR
FTP-44A-25	FTP-004-25	SAFETY BELT CHILD RESTRAINT USE REQUIRED BY LAW	FTP-86-21	FTP-029-25	STATE LAW STOP FOR [PED] WITHIN CROSSWALK
FTP-44-06	FTP-004A-25	SAFETY BELT CHILD RESTRAINT USE REQUIRED BY LAW	FTP-25-06	FTP-030-25	PUSH BUTTON TO CROSS ST NAME
FTP-47-06	FTP-005-25	BUCKLE UP IT'S THE LAW	FTP-68A-06	FTP-031-25	PEDESTRIAN CROSSING PUSH BUTTON
FTP-46-06	FTP-005A-25	BUCKLE UP IT'S THE LAW	FTP-68B-06	FTP-032-25	PEDESTRIAN CROSSING PUSH BUTTON
FTP-45-25	FTP-006-25	FLORIDA LAW SAFETY BELT USE CHILD RESTRAINT USE	FTP-68C-21	FTP-033-25	PUSH BUTTON FOR WARNING LIGHTS
NEW	FTP-007-25	FENDER BENDER MOVE VEHICLES FROM TRAVEL LANES	FTP-54L-06	FTP-034L-25	[LEFT ARROW] ONLY (FTP-037AR-25 FOR RIGHT ARROW)
NEW	FTP-007A-25	FENDER BENDER MOVE VEHICLES FROM TRAVEL LANES	FTP-55L-06	FTP-034AL-25	[LEFT ARROW] ONLY (FTP-037R-25 FOR RIGHT ARROW)
NEW	FTP-007B-25	FENDER BENDER MOVE VEHICLES FROM TRAVEL LANES	FTP-82-08	FTP-034U-25	[U-TURN] ONLY
NEW	FTP-008-25	STATE LAW MOVE OVER	FTP-53-06	FTP-035L-25	LEFT TURN ONLY
NEW	FTP-009-25	TWO-AXLE VEHICLES ONLY BUSES ALLOWED	FTP-52-06	FTP-035R-25	RIGHT TURN ONLY
FDM E55-R1	FTP-010-25	EMERGENCY STOPPING SITE	NEW	FTP-036-25	NO PEDESTRIANS OR BICYCLES BEYOND GATE
FDM E55-R2	FTP-011-25	EMERGENCY STOPPING SITE X MILE	FTP-100-25	FTP-037-25	FLORIDA LAW
FDM E55-R3	FTP-012-25	EMERGENCY STOPPING SITE X MILES	FTP-69-06	DELETED	NO PEDESTRIANS BICYCLES MOTOR VEHICLES LESS THAN 5 BHP
FTP-65-06	FTP-013-25	OFFICIAL USE ONLY	FTP-50-06	FTP-200-25	WEIGHT LIMIT RESTRICTION AHEAD
FTP-29-06	FTP-014-25	GROOVED	FTP-33-06	FTP-201-25	SCHOOL ENTRANCE
FTP-41-21	FTP-015-25	FLORIDA LITTER LAW \$150 MIN FINE FOR LITTERING	FTP-84-09	FTP-202-25	DRAW BRIDGE AHEAD
FTP-40-21	FTP-015A-25	FLORIDA LITTER LAW \$150 MIN FINE FOR LITTERING	FTP-61-06	FTP-203-25	NO TRAIN HORN 10 PM - 6 AM
FTP-19-06	FTP-016-25	24 HOUR PARKING	FTP-62-06	FTP-203A-25	NO TRAIN HORN 10 PM - 6 AM
FTP-20-06	FTP-017-25	PARKING BY DISABLED PERMIT ONLY	NEW	FTP-204-25	X-ING
FTP-21-06	FTP-018-25	PARKING BY DISABLED PERMIT ONLY	NEW	FTP-205-25	ON SIDEWALK
FTP-22-06	FTP-019-25	FINE \$250 MAX	NEW	FTP-206-25	MOTORCYCLES USE CAUTION
NEW	FTP-019A-25	FINE \$250 MAX	NEW	FTP-206A-25	MOTORCYCLES USE CAUTION
FTP-37-06	FTP-020-25	SPEEDING FINES DOUBLED WORK ZONES SCHOOL ZONES	NEW	FTP-206B-25	MOTORCYCLES USE CAUTION
FTP-38-22	FTP-021-25	SPEEDING FINES DOUBLED	NEW	FTP-207-25	PRESCRIBED BURN AHEAD
FTP-39-06	FTP-021A-25	SPEEDING FINES DOUBLED	NEW	FTP-207A-25	PRESCRIBED BURN AHEAD
FTP-35-06	FTP-022-25	SCHOOL SPEED LIMIT XX	FTP-72-06	FTP-208-25	FIRE SMOKE AREA
FTP-31-06	FTP-023-25	SCHOOL ZONE XX [FLASHER] MPH WHEN FLASHING	FTP-71-06	FTP-208A-25	FIRE SMOKE AREA
FTP-31-06	FTP-023A-25	SCHOOL ZONE XX [FLASHER] MPH WHEN FLASHING	FTP-15A-06	FTP-400-25	STATE OF FLORIDA WELCOME CENTER 1 MILE
FTP-34-06	FTP-024-25	END SCHOOL ZONE	FTP-10-06	FTP-400A-25	STATE OF FLORIDA WELCOME CENTER 1 MILE
FTP-32-06	FTP-024A-25	END SCHOOL ZONE	FTP-15B-06	FTP-401-25	1/2 MILE

- Crosswalk at the end of the index

**CROSSWALK**

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# FY 2026-27 Standard Plans Update Training

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## Standard Plans – Primary Updates:

- 1) **Index 102-110 – Type K Temporary Concrete Barrier**
  - **New** “single-slope” barrier compatibility
  - Added clarifications to General Notes
- 2) **Index 425-031 – Adjacent Barrier Inlet**
  - Clarified 2” shoulder depression for stormwater
- 3) **Index 520-001 – Curb and Gutter**
  - SPI – Defined “curbed” roadway segment
- 4) **Index 521-001 – Concrete Barrier**
  - Added clarifications for doweled joint spacing, 2” shoulder depression for inlet, and “single-slope” naming convention
- 5) **Index 521-404 – Guardrail Transitions – Post & Beam Bridge Railings**
  - Updated downstream connection details
- 6) **Index 536-001 – Guardrail**
  - **Removed** TL-2 Guardrail option (recurring 12’-6” post spacing)
  - **New** Connection to 27” height existing guardrail drawings



## Standard Plans – Primary Updates:

- ➔ 1) ***Index 102-110 – Type K Temporary Concrete Barrier***
- ***New “single-slope” barrier compatibility***
  - *Added clarifications to General Notes*





# Index 102-110 Type K Temporary Concrete Barrier System

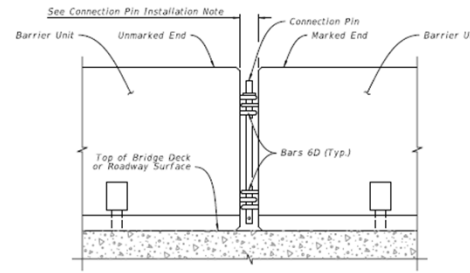
## Sheet 1: **NEW** Connection to Rigid Barrier Note 1.

### GENERAL NOTES:

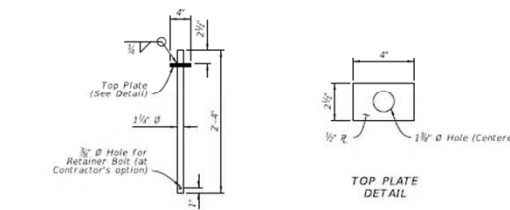
1. Meet the requirements of Index 102-100.
2. For fabrication details see Sheets 15 thru 17.
3. **HANDLING:** Do not lift or move the Barrier Units by using Bars 6D that extend from the ends of the units. Approximate weight of one unit equals 2.7 tons.
4. **CONNECTION PIN ASSEMBLY:** Use steel for Connection Pin and Top Plate assemblies in accordance with ASTM A36 or ASTM A709 Grade 36. Nondestructive testing of welds is not required. At the Contractor's option, a  $\frac{3}{8}$ " diameter hole may be provided at the bottom of the Connection Pin, as shown, for the installation of a vandal resistance bolt.
5. **CONNECTION PIN INSTALLATION:** Initially set Barrier Units by using a  $\frac{3}{8}$ " wooden block between ends of adjacent units. Install Connection Pin between adjacent Barrier Units as shown, then pull newly placed Barrier Unit away from adjacent Barrier Unit to remove slack between Connection Pin and Bars 6D (except as shown on Sheet 2). Do not use Barrier Units unconnected.
6. **REUSE OF CONNECTION PINS AND STAKES:** Connection pins and stakes may be reused if they have the structural integrity of new pins.
7. **REMOVAL OF BOLTS, STAKES AND KEEPER PINS:** Upon removal or relocation of Barrier Units, remove all Anchor Bolts and completely fill the remaining holes in bridge decks, approach slabs and roadway rigid pavements that are to remain with Magnesium Ammonium Phosphate Concrete in accordance with Specification 930 or with an Epoxy Resin Compound, Type F or G, in accordance with Specification 926. If a flexible pavement is present and is to remain, completely fill the remaining holes in the flexible pavement with hot or cold patch asphalt material.
8. **TYPE K ANCHORED TO FREE-STANDING TRANSITIONS:** Use the 3-3-2-1 Anchorage Transition Detail when transitioning Free-Standing and Anchored Units or when connecting Free-Standing runs to Crash Cushions, as shown in this Index.

### CONNECTION TO PERMANENT RIGID BARRIER NOTES:

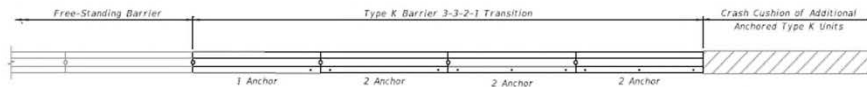
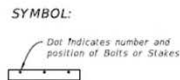
1. For splice connection details between Type K Temporary Concrete Barriers and Permanent Traffic Railings, see Sheets 7 thru 10. Within this Index, the term Traffic Railing also applies to Concrete Barrier, where both terms refer to permanent installations shown in the Index 521 series.
2. **THREE-BEAM GUARDRAIL:** Provide Three-Beam Guardrail for splices meeting the requirements of Specification 967 and as follows: Two panels per splice (One panel per side) of Class B (10 Gauge), or four panels per splice (Two nested panels per side) of Class A (12 Gauge). Use a 12'-6" guardrail panel. Provide and install all other associated metallic guardrail components (Terminal Connectors, Shoulder Bolts, Hex Bolts and Nuts, Filler Plates, etc.) in accordance with Index 536-001. Install five Guardrail Anchor Bolts at each end of each splice in any of the standard seven anchor bolt holes in the Three-Beam Terminal Connector. If reinforcing steel is encountered when drilling holes for Guardrail Anchor Bolts in Type K Barrier Units, shift Three-Beam Terminal Connector so as to clear reinforcing steel within the given tolerances or select a different bolt hole to use. Do not drill or cut through reinforcing steel within Type K Barrier Units. Drilling or cutting through reinforcing steel within permanent concrete traffic railings is permitted.
3. **GUARDRAIL OFFSET BLOCKS:** Provide and install Timber Offset Blocks meeting the requirements of Specification 962. Field trim Offset Blocks as required for proper fit. Utilize Offset Blocks as shown and required in order to prevent bending or linking of Three-Beam Guardrail panels.
4. **CONCRETE FOR FILLING TAPERED TRAFFIC RAILING TOES:** Provide concrete for filling tapered toes of Traffic Railings as shown meeting the material requirements of Specification 346, any Class, or a commercially available pre-bagged concrete mix (3000 psi minimum compressive strength). Sampling, testing, evaluation and certification of the concrete in accordance with Specification 346 is not required. Saturate with water the surfaces upon and against which the concrete fill will be placed prior to placing concrete. Place and finish concrete fill using forms or by hand methods to the general configurations shown so as to provide a smooth shape transition between the Type K Barrier and the adjacent traffic railing. A low slump is desirable if placing and finishing concrete by hand methods. Cure the concrete fill by application of a curing compound, or by covering with a wet tarp or burlap for a minimum of 24 hours. Completely remove the concrete fill upon relocation or removal of the Type K Temporary Concrete Barrier.



DETAIL OF CONNECTION BETWEEN BARRIER UNITS



CONNECTION PIN DETAIL



3-3-2-1 ANCHORAGE TRANSITION DETAIL

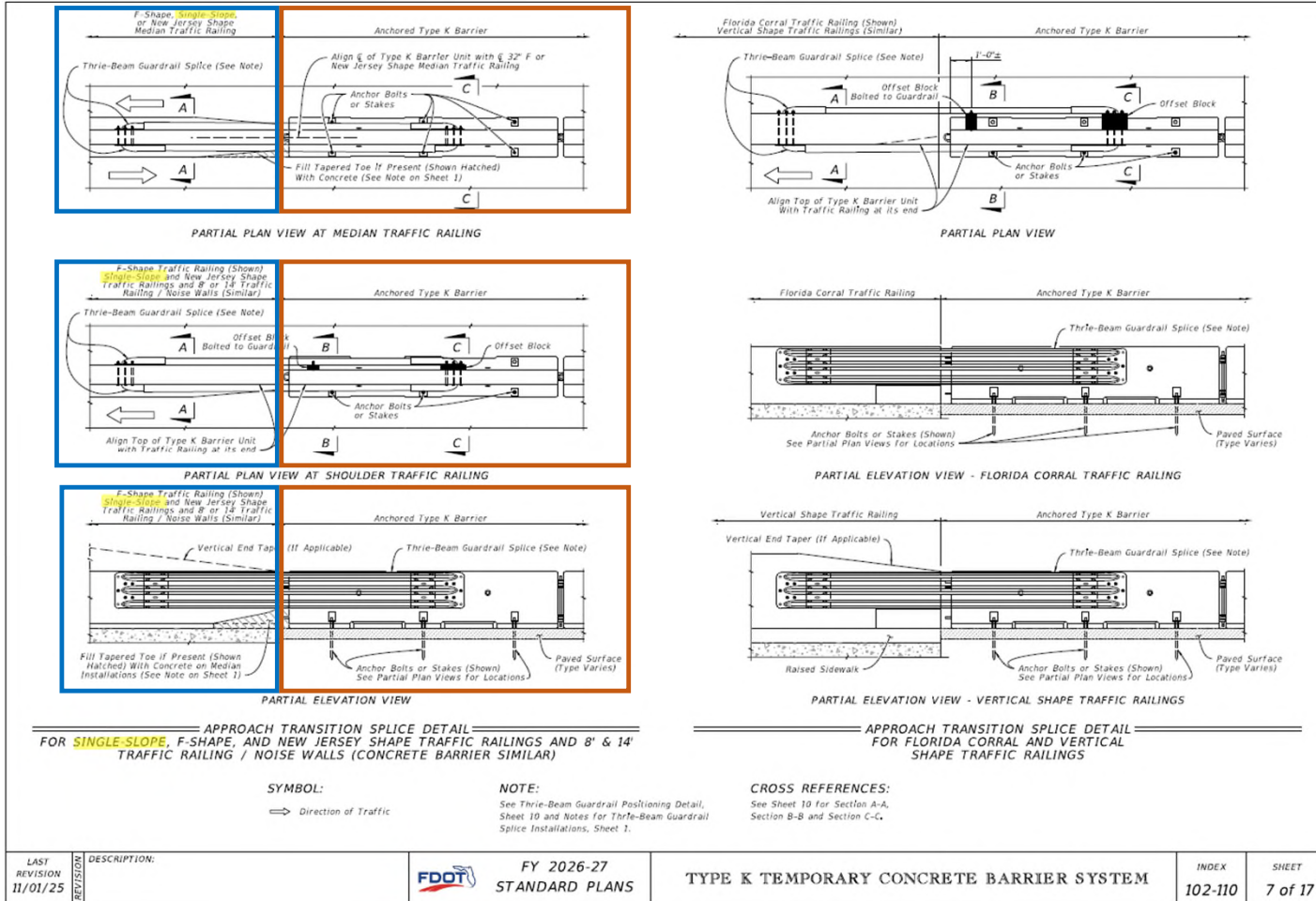
• Updated note heading for clarity...

• Added note 1 to explain where connection to permanent rigid barrier details are shown (Sheets 7-10)...

• Also explains: Within this Index, the terms "Concrete Barrier" and "Traffic Railing" may be used interchangeably

LAST REVISION 11/01/25	DESCRIPTION:	FDOT FY 2026-27 STANDARD PLANS	TYPE K TEMPORARY CONCRETE BARRIER SYSTEM	INDEX 102-110	SHEET 1 of 17
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## Sheet 7: **NEW** Compatibility with “Single-Slope” Permanent Rigid Barriers



- **Temporary Type K barrier** may connect to a... **“Single-Slope” permanent Traffic Railing (or Concrete Barrier)...**

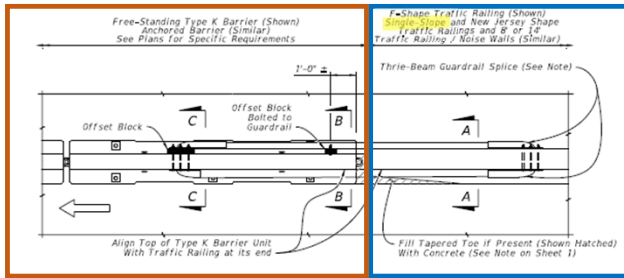
*For example...*

- **“Single-Slope”** is currently used in:
  - Index 521-001 (Concrete Barrier)
  - Index 521-426 & 427 (Traffic Railing)

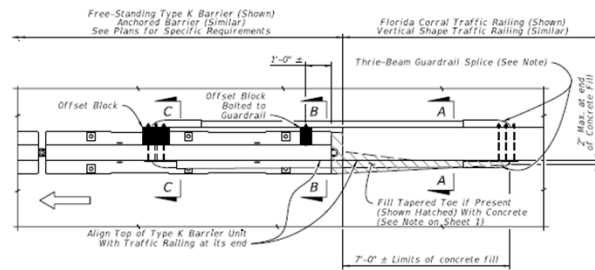


# Index 102-110 Type K Temporary Concrete Barrier System

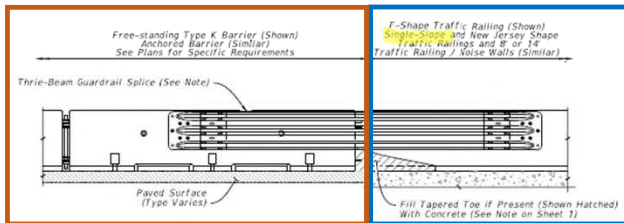
## Sheet 8: **NEW** Compatibility with “Single-Slope” Permanent Rigid Barriers



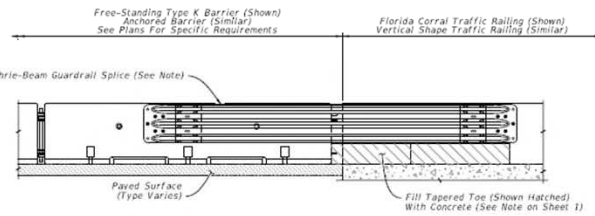
PARTIAL PLAN VIEW



PARTIAL PLAN VIEW



PARTIAL ELEVATION VIEW



PARTIAL ELEVATION VIEW

TRAILING END SPLICE DETAIL  
FOR **SINGLE-SLOPE**, F-SHAPE, AND NEW JERSEY SHAPE TRAFFIC RAILINGS AND 8' & 14' TRAFFIC RAILING / NOISE WALLS (CONCRETE BARRIER SIMILAR)

TRAILING END SPLICE DETAIL  
FOR FLORIDA CORRAL AND VERTICAL SHAPE TRAFFIC RAILINGS

SYMBOL:  
⇒ Direction of Traffic

NOTE:  
See Thrie-Beam Guardrail Positioning Detail, Sheet 10 and Notes for Thrie-Beam Guardrail Splice Installations, Sheet 1.

CROSS REFERENCES:  
See Sheet 10 for Section A-A, Section B-B and Section C-C.

- **Temporary Type K barrier** may connect to a... **“Single-Slope” permanent Traffic Railing (or Concrete Barrier)...**

For example...

- **“Single-Slope”** is currently used in:
  - Index 521-001 (Concrete Barrier)
  - Index 521-426 & 427 (Traffic Railing)

LAST REVISION 11/01/25	DESCRIPTION:	FY 2026-27 STANDARD PLANS	TYPE K TEMPORARY CONCRETE BARRIER SYSTEM	INDEX 102-110	SHEET 8 of 17
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Standard Plans Instructions (SPI): REMINDER!... Existing Language

Plan Content Requirements

Designate location(s) where Temporary Barrier is to be used along with installation requirements (i.e., free-standing, anchored, or Low Profile Barrier).

Do not specify the type of Temporary Barrier (i.e., concrete, steel, or water-filled) or components thereof unless otherwise required by the *Standard Plans* or *FDM* (e.g., drop-off criteria, setback requirements, etc.).

- Designers do NOT specify type of Temporary Barriers.
- Example, do NOT write:
  - Concrete
  - Steel
  - Water-filled, etc..
- ONLY specify:
  - Anchored
  - Free-Standing
  - Low Profile Barrier (Index 102-120)

INSTALLATION DATA			
CONDITION	LATERAL OFFSET	SETBACK DISTANCE	PAVEMENT/ ASPHALT WIDTH
Anchored	2' Min.	2' Min. (See Note)	1' Min.
Free-standing	2' Min.	4' Min.	4' Min.

NOTE: For Bridge Decks see Index 102-110 or APL.

**Standard Plans – Primary Updates:**

**1) Index 102-110 – Type K Temporary Concrete Barrier**

- **New** “single-slope” barrier compatibility
- Added clarifications to General Notes

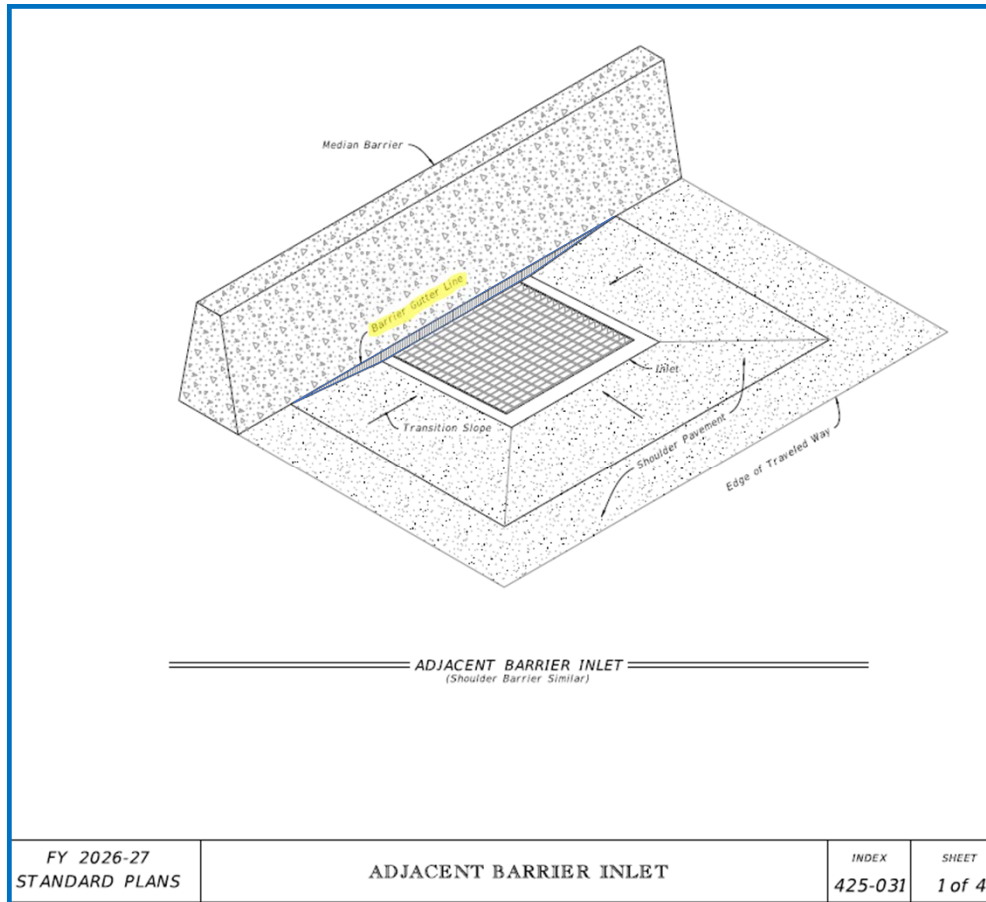


**2) Index 425-031 – Adjacent Barrier Inlet**

- Clarified 2” shoulder depression for stormwater

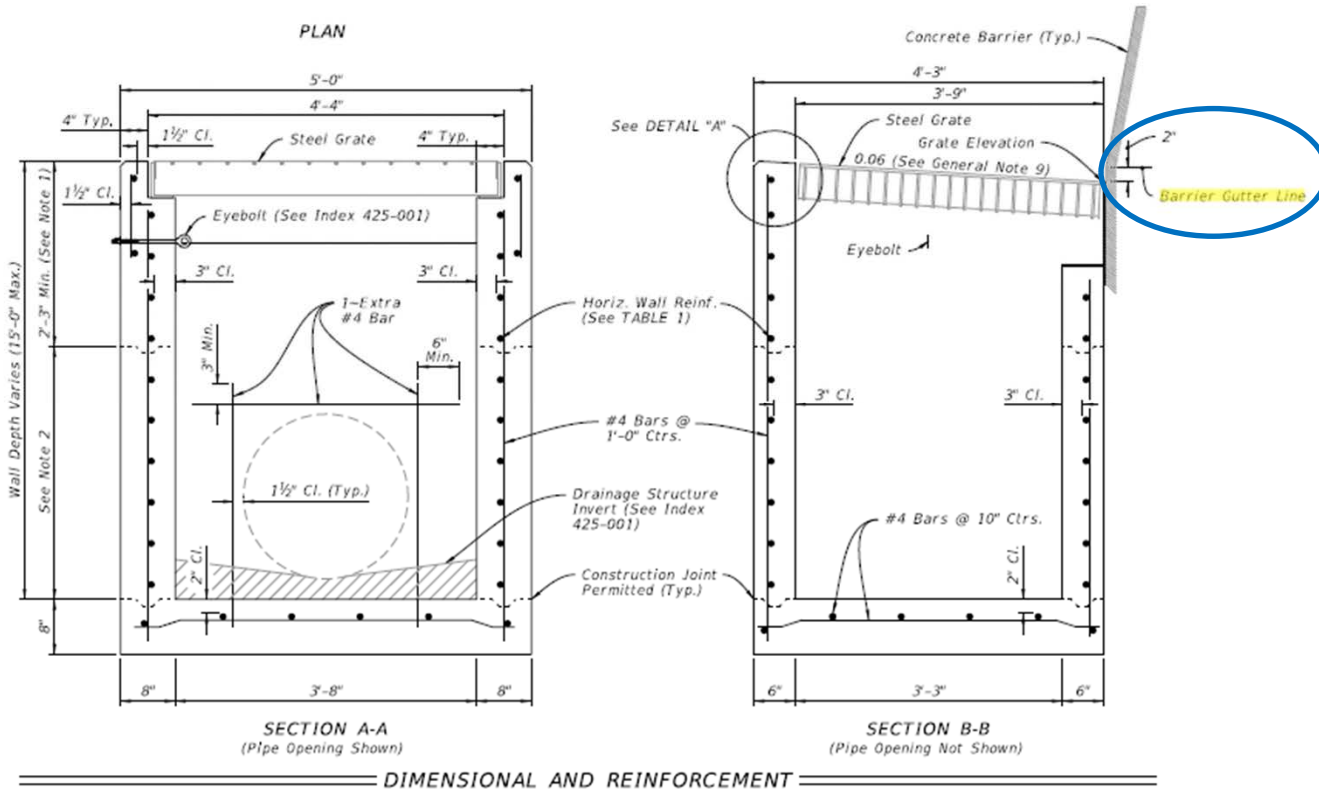


## Sheet 1: Isometric View



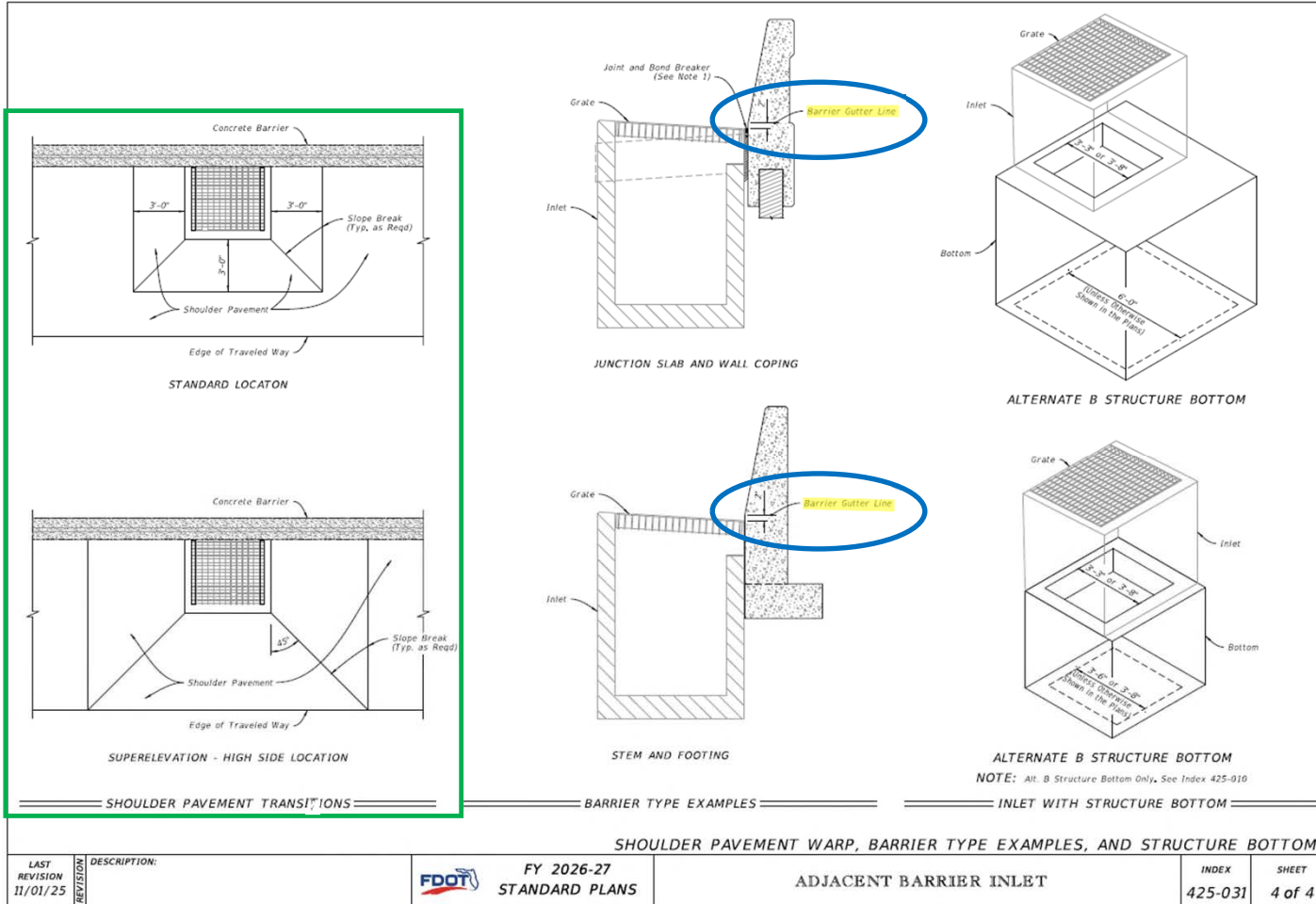
- Clarified 2" Depression (a.k.a. "warp" or "transition")...
- Required for stormwater collection...
- 2" Measured from: "Barrier Gutter Line" (Per Index 521-001)

## Sheet 2:




- Clarified 2" Depression (a.k.a. "warp" or "transition")...
- Required for stormwater collection...
- 2" Measured from: "Barrier Gutter Line" (Per Index 521-001)

## Sheet 4:



- Clarified 2" Depression (a.k.a. "warp" or "transition")...
- Required for stormwater collection...
- 2" Measured from: "Barrier Gutter Line" (Per Index 521-001)...
- Shoulder Pavement Transition Plan Views also relabeled for clarity

**Standard Plans – Primary Updates:**

- 1) **Index 102-110 – Type K Temporary Concrete Barrier**
  - **New** “single-slope” barrier compatibility
  - Added clarifications to General Notes
- 2) **Index 425-031 – Adjacent Barrier Inlet**
  - Clarified 2” shoulder depression for stormwater
- 
**3) Index 520-001 – Curb and Gutter**
  - SPI – Defined “curbed” roadway segment



## Standard Plans Instructions (SPI):

Standard Plans Instructions  
Index 520-001 Curb and Gutter

Topic No. 625-010-003  
FY 2026-27

### Index 520-001 Curb and Gutter

#### Design Criteria

FDOT Design Manual (*FDM*); Drainage Manual (*DM*)

#### Design Assumptions and Limitations

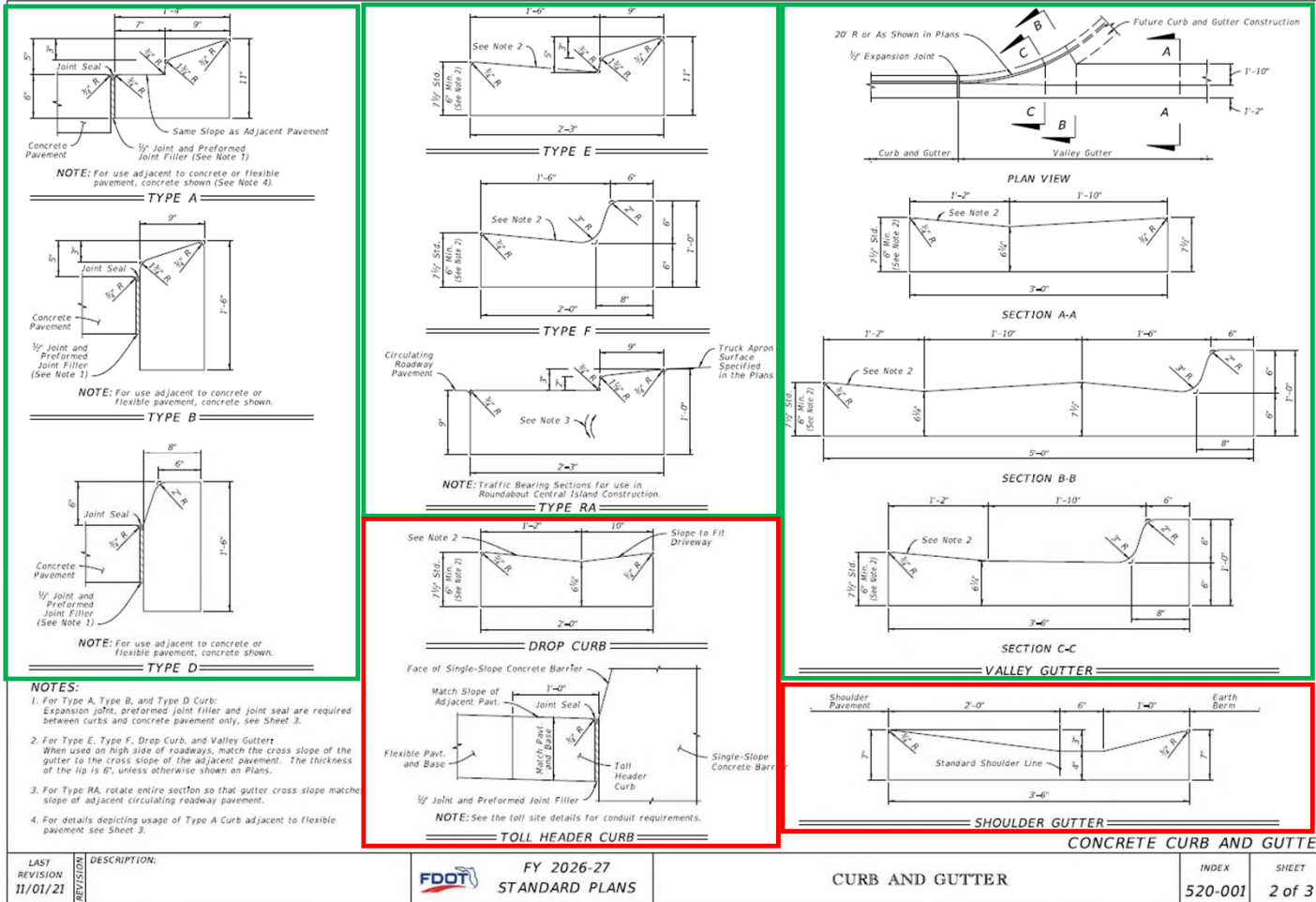
For curb and gutter installations, see *FDM 210, 211, and 215*.

Locate Shoulder Gutter in accordance with the *Drainage Manual Chapter 3*.

For design and planning purposes, a “curbed” roadway is generally considered to have a continuous run of any concrete section option shown in this Index, excluding Drop Curb, Toll Header Curb, and Shoulder Gutter.

- *FDM references to Index 520-001 to define “curbed” roadways as a condition for various policies...*
- *New language* is added to clarify the definition of “curbed” roadway.
  - This basically means **raised curbs only...**
  - **Excludes:**
    - Drop Curb
    - Toll Header Curb
    - Shoulder Gutter

## Sheet 2:



- **FDM references to Index 520-001 to define “curbed” roadways as a condition for various policies...**
- **New language** is added to clarify the definition of “curbed” roadway.
  - This basically means **raised curbs only...**
  - **Excludes:**
    - Drop Curb
    - Toll Header Curb
    - Shoulder Gutter

LAST REVISION 11/01/21	DESCRIPTION:	FDOT FY 2026-27 STANDARD PLANS	CURB AND GUTTER	INDEX 520-001	SHEET 2 of 3
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**Standard Plans – Primary Updates:**

**1) Index 102-110 – Type K Temporary Concrete Barrier**

- **New** “single-slope” barrier compatibility
- Added clarifications to General Notes

**2) Index 425-031 – Adjacent Barrier Inlet**

- Clarified 2” shoulder depression for stormwater

**3) Index 520-001 – Curb and Gutter**

- SPI – Defined “curbed” roadway segment



**4) Index 521-001 – Concrete Barrier**

- Added clarifications for doweled joint spacing, 2” shoulder depression for inlet, and “single-slope” naming convention





## Sheet 1: General Notes

SHEET	CONTENTS
1	Index Contents; General Notes
2	Median Barrier
3	Median Barrier – Reinforcing Details
4	Median Barrier – Sloped End Treatment
5	Median Barrier – Grade Separated
6	Median Barrier – 56" Height Section for Barrier-Mounted Sign Support Shielding – Symmetrical
7	Median Barrier – 56" Height Section for Barrier-Mounted Sign Support Shielding – Asymmetrical
8	Median Barrier – 56" Height Section for Barrier-Mounted Dual Sign Support Shielding – Min. Wrath
9	Median Barrier – 38" Height Split Section for Stand-Alone Sign Support Shielding
10	Median Barrier – 44" Height Split Section for Pier Shielding
11	Median Barrier – 44" Height Split Section for Pier Shielding – Details
12	Median Barrier – Connection to F-Shape
13	Shoulder Barrier
14	Shoulder Barrier – Reinforcing Details
15	Shoulder Barrier – Section Options
16	Shoulder Barrier – Section Options (Continued), Drainage Slot Option
17	Shoulder Barrier – 38" Height Rear-Flush Section for Reduced Setback Pier Shielding (Low-Speed)
18	Shoulder Barrier – 44" Height Rear-Flush Section for Reduced Setback Pier Shielding
19	Shoulder Barrier – Connection to F-Shape
20	Curb and Gutter Barrier
21	Curb and Gutter Barrier – Reinforcing Details
22	Curb and Gutter Barrier – Sloped End Treatment
23	Wall Shielding Barrier – 38" Height Section – Approach and Trailing Transition
24	Wall Shielding Barrier – 38" Height Section – Guardrail Connection
25	Wall Shielding Barrier – 56" Height Section for Barrier-Mounted Sign Support Shielding
26	Reinforcing Bar Bending Diagrams

### GENERAL NOTES:

1. Construct in accordance with Specification 521. The standard barrier face shape is single-slope. Use Class II concrete for barriers constructed in slightly aggressive environments, and use Class IV Concrete for barriers constructed in moderately or extremely aggressive environments. On all exposed surfaces, apply a General Surface Finish in accordance with Specification 406.

2. STEEL BAR REINFORCEMENT: Where required to maintain continuity, provide lap splices of at least 18 inches for No. 4 bars and 20 inches for No. 5 bars, unless otherwise shown herein (including shorter splices as provided by the default bar bending diagrams).

The default reinforcing details shown herein, including bar shapes and lap splice positions, are intended to show required steel locations and provide for a constructible design. However, with the approval of the Engineer, alternate steel configurations may be used in the same locations shown herein, given that the equivalent strength reinforcing is provided and the cover, maximum spacing, and continuity requirements are maintained.

3. OPTIONAL WELDED WIRE REINFORCEMENT: With the approval of the Engineer, steel welded wire reinforcement in accordance with Specification 415 may be substituted for the steel bars shown herein. Place the welded wire in the same locations specified for the steel bars, and maintain the equivalent strength, cover, maximum spacing, and continuity requirements.

### GENERAL NOTES (CONTINUED):

4. TOP FACE LONGITUDINAL REINFORCEMENT: Unless otherwise specified, the longitudinal reinforcement shown closest to the top face of the barrier has a maximum cover of 4 1/2", measured from the top face of the barrier.

5. MINIMUM BARRIER LENGTH: Unless otherwise shown in the Plans, the minimum Concrete Barrier length is 40 feet.

6. CONSTRUCTION JOINTS: Install Construction Joints only as needed for discontinuous concrete casting or cold joints. Maintain continuity of steel reinforcement across Construction Joints. Construction Joints are classified herein as Transverse Joints or Longitudinal Joints.

Transverse Joints are permitted at 20-foot or greater intervals along the barrier. For Tall Grade-Separated Sections, see Sheet 5 for additional Transverse Joint requirements.

Longitudinal Joints are only permitted where indicated in the following details and notes, with a vertical position tolerance of ± 1 1/2" from the locations shown.

7. DOWELED JOINTS: Per the Dowel Details on Sheets 2 & 13, install 3/4" Doweled Joints for Concrete Barrier connections to Wall Coping Barriers, Pier Protection Barriers, and Traffic Railings. Doweled Joints are also required for expansion mitigation in Median Barrier as defined per Sheets 2 & 5. Doweled Joints are not permitted within Grade-Separated Median Barrier. Doweled Joints may not be substituted for Construction Joints as defined above.

8. CRACK CONTROL V-GROOVES: At 20-foot intervals, place 3/8" depth V-grooves that run vertically and/or transversely in the front, top, and back faces of barriers. The V-grooves can be either milled or scored while the concrete is still plastic.

9. SUBGRADE: Compact the top layer of subgrade with Type B Stabilization, LBR 40 (12 in.).

10. FOOTING BOTTOM CONCRETE COVER: At the bottom of barrier footings shown throughout this Index, up to 2 inches of additional concrete cover is permitted beyond what is shown herein to accommodate soil grade irregularities.

11. FINISH GRADE ELEVATION: At the barrier face location, the finish grade pavement has a vertical position tolerance of ± 1/2" from the nominal locations shown herein, relative to the barrier elevation. Maintain visually smooth and even pavement at the barrier face, per the approval of the Engineer.

12. DRAINAGE INLETS: Where called for in the Plans, install corresponding inlets per Indexes 425-030 thru 425-032.

13. LIGHT POLE MOUNTING: Where called for in the Plans, install aluminum light poles per Index 715-002.

14. OPAQUE VISUAL BARRIER: Where called for in the Plans, install Opaque Visual Barrier per Index 521-010.

15. BARRIER END MARKERS: For all free ends of concrete barriers that are not shielded with an end treatment or connection to another barrier or traffic railing type, install a Type 3 Object Marker on the end face per Specification 705.

16. BARRIER DELINEATORS: Install Barrier Delineators in accordance with Specification 705. For median barriers, mount the delineator on the top of the barrier, at the centerline of barrier, with reflective sheeting facing traffic on both approaches. For shoulder barriers and split sections, mount the delineators on the top of the barrier, with the roadway side of the delineator located 2' from the front face of the barrier and the reflective sheeting facing traffic of the nearest approach.

17. TOLL SITES: Where called for in the Plans, substitute the steel reinforcing bars shown herein with GFRP reinforcing bars of the same size. Construct GFRP reinforcing bars in accordance with Specification 932, and use a maximum 4 1/2" inner diameter for bar bends. Alternative bar bending details and shapes may be used so long as the final location of the reinforcing is unchanged and the bars are either continuous or fully spliced at the side and bottom barrier locations. Where required to fit pull boxes while maintaining bar spacing and concrete cover, trim GFRP bars as defined in the Plans.

At toll site locations, the use of Median Barriers on outside shoulders is permitted where called for in the Plans. Shoulder Pavement shown herein may be substituted with material for an alternate usage where defined in the Plans.

- **GENERAL NOTE 1:**  
These barriers are considered **"Single-Slope"**...
  - For example... as referenced from Index 102-110 (Temporary Barrier connections)
  - Follows Traffic Railing nomenclature and national publications

LAST REVISION 11/01/25	DESCRIPTION:	FDOT FY 2026-27 STANDARD PLANS	CONCRETE BARRIER	INDEX 521-001	SHEET 1 of 26
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## Sheet 1: General Notes

SHEET	CONTENTS
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26	Reinforcing Bar Bending Diagrams

### GENERAL NOTES:

- Construct in accordance with Specification 521. The standard barrier face shape is single-slope. Use Class II concrete for barriers constructed in slightly aggressive environments, and use Class IV Concrete for barriers constructed in moderately or extremely aggressive environments. On all exposed surfaces, apply a General Surface Finish in accordance with Specification 406.
- STEEL BAR REINFORCEMENT:** Where required to maintain continuity, provide lap splices of at least 18 inches for No. 4 bars and 20 inches for No. 5 bars, unless otherwise shown herein (including shorter splices as provided by the default bar bending diagrams).  
  
The default reinforcing details shown herein, including bar shapes and lap splice positions, are intended to show required steel locations and provide for a constructible design. However, with the approval of the Engineer, alternate steel configurations may be used in the same locations shown herein, given that the equivalent strength reinforcing is provided and the cover, maximum spacing, and continuity requirements are maintained.
- OPTIONAL WELDED WIRE REINFORCEMENT:** With the approval of the Engineer, steel welded wire reinforcement in accordance with Specification 415 may be substituted for the steel bars shown herein. Place the welded wire in the same locations specified for the steel bars, and maintain the equivalent strength, cover, maximum spacing, and continuity requirements.

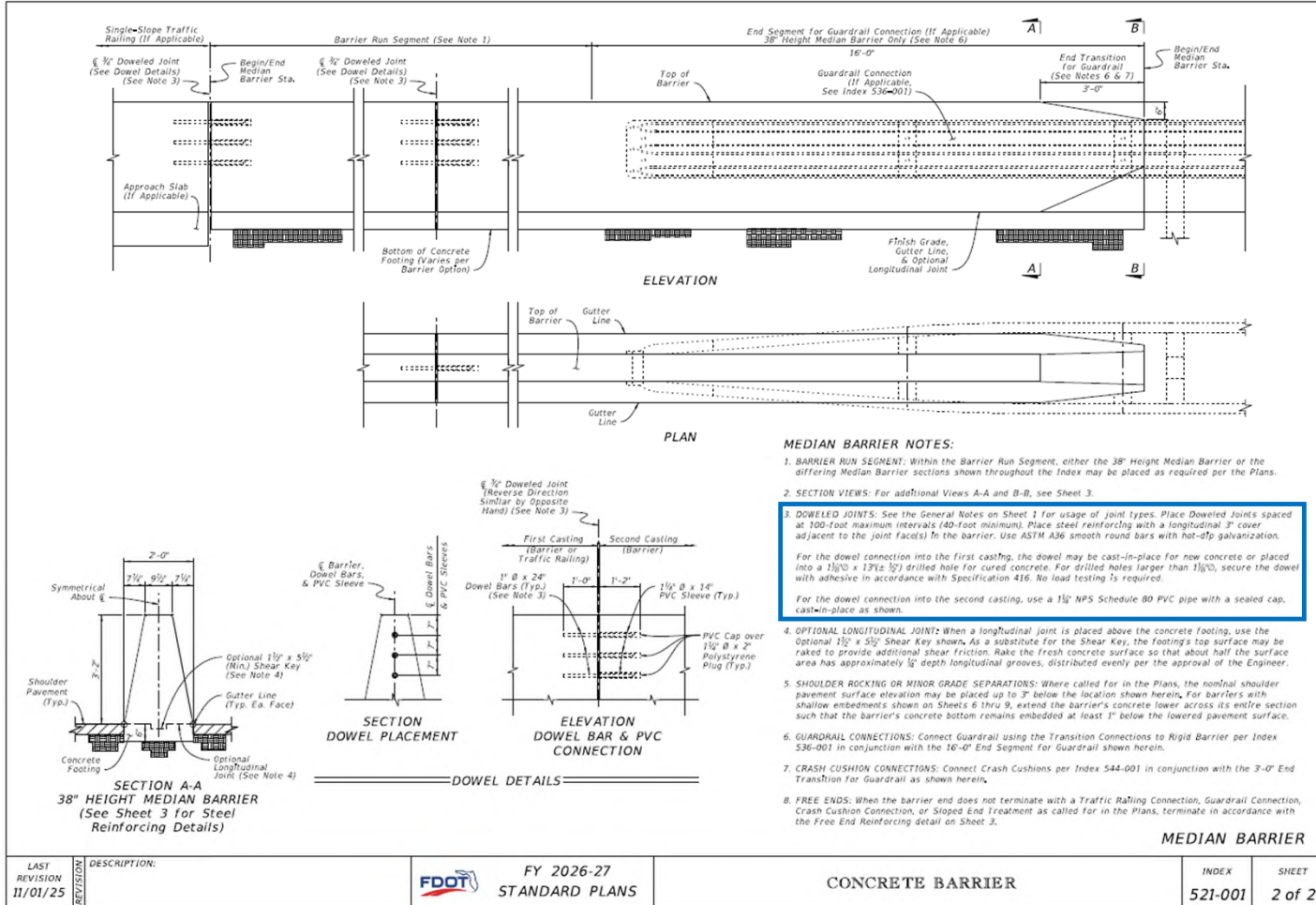
### GENERAL NOTES (CONTINUED):

- TOP FACE LONGITUDINAL REINFORCEMENT:** Unless otherwise specified, the longitudinal reinforcement shown closest to the top face of the barrier has a maximum cover of 4 1/2", measured from the top face of the barrier.
- MINIMUM BARRIER LENGTH:** Unless otherwise shown in the Plans, the minimum Concrete Barrier length is 40 feet.
- CONSTRUCTION JOINTS:** Install Construction Joints only as needed for discontinuous concrete casting or cold joints. Maintain continuity of steel reinforcement across Construction Joints. Construction Joints are classified herein as Transverse Joints or Longitudinal Joints.  
  
Transverse Joints are permitted at 20-foot or greater intervals along the barrier. For Tall Grade-Separated Sections, see Sheet 5 for additional Transverse Joint requirements.  
  
Longitudinal Joints are only permitted where indicated in the following details and notes, with a vertical position tolerance of ± 1 1/2" from the locations shown.
- DOWELED JOINTS:** Per the Dowel Details on Sheets 2 & 13, install 3/4" Doweled Joints for Concrete Barrier connections to Wall Coping Barriers, Pier Protection Barriers, and Traffic Railings. Doweled Joints are also required for expansion mitigation in Median Barrier as defined per Sheets 2 & 5. Doweled Joints are not permitted within Grade-Separated Median Barrier. Doweled Joints may not be substituted for Construction Joints as defined above.
- CRACK CONTROL V-GROOVES:** At 20-foot intervals, place 3/8" depth V-grooves that run vertically and/or transversely in the front, top, and back faces of barriers. The V-grooves can be either moiled or scored while the concrete is still plastic.
- SUBGRADE:** Compact the top layer of subgrade with Type B Stabilization, LBR 40 (12 in.).
- FOOTING BOTTOM CONCRETE COVER:** At the bottom of barrier footings shown throughout this Index, up to 2 inches of additional concrete cover is permitted beyond what is shown herein to accommodate soil grade irregularities.
- FINISH GRADE ELEVATION:** At the barrier face location, the finish grade pavement has a vertical position tolerance of ± 1/2" from the nominal locations shown herein, relative to the barrier elevation. Maintain visually smooth and even pavement at the barrier face, per the approval of the Engineer.
- DRAINAGE INLETS:** Where called for in the Plans, install corresponding inlets per Indexes 425-030 thru 425-032.
- LIGHT POLE MOUNTING:** Where called for in the Plans, install aluminum light poles per Index 715-010.
- OPAQUE VISUAL BARRIER:** Where called for in the Plans, install Opaque Visual Barrier per Index 521-010.
- BARRIER END MARKERS:** For all free ends of concrete barriers that are not shielded with an end treatment or connection to another barrier or traffic railing type, install a Type 3 Object Marker on the end face per Specification 705.
- BARRIER DELINEATORS:** Install Barrier Delineators in accordance with Specification 705. For median barriers, mount the delineator on the top of the barrier, at the centerline of barrier, with reflective sheeting facing traffic on both approaches. For shoulder barriers and split sections, mount the delineators on the top of the barrier, with the roadway side of the delineator located 2' from the front face of the barrier and the reflective sheeting facing traffic of the nearest approach.
- TOLL SITES:** Where called for in the Plans, substitute the steel reinforcing bars shown herein with FRP reinforcing bars of the same size. Construct FRP reinforcing bars in accordance with Specification 932, and use a maximum 4 1/2" inner diameter for bar bends. Alternative bar bending details and shapes may be used so long as the final location of the reinforcing is unchanged and the bars are either continuous or fully spliced at the side and bottom barrier locations. Where required to fit pull boxes while maintaining bar spacing and concrete cover, trim FRP bars as defined in the Plans.  
  
At toll site locations, the use of Median Barriers on outside shoulders is permitted where called for in the Plans. Shoulder Pavement shown herein may be substituted with material for an alternate usage where defined in the Plans.

- GENERAL NOTE 7:**  
Doweled Joints may not be substituted for construction joints
- Doweled Joints** only used for:
  - connecting to adjacent traffic railings or pier protection barrier or...
  - expansion mitigation in median barriers, as explained on Sheet 2.

LAST REVISION 11/01/25	DESCRIPTION:	FDOT FY 2026-27 STANDARD PLANS	CONCRETE BARRIER	INDEX 521-001	SHEET 1 of 26
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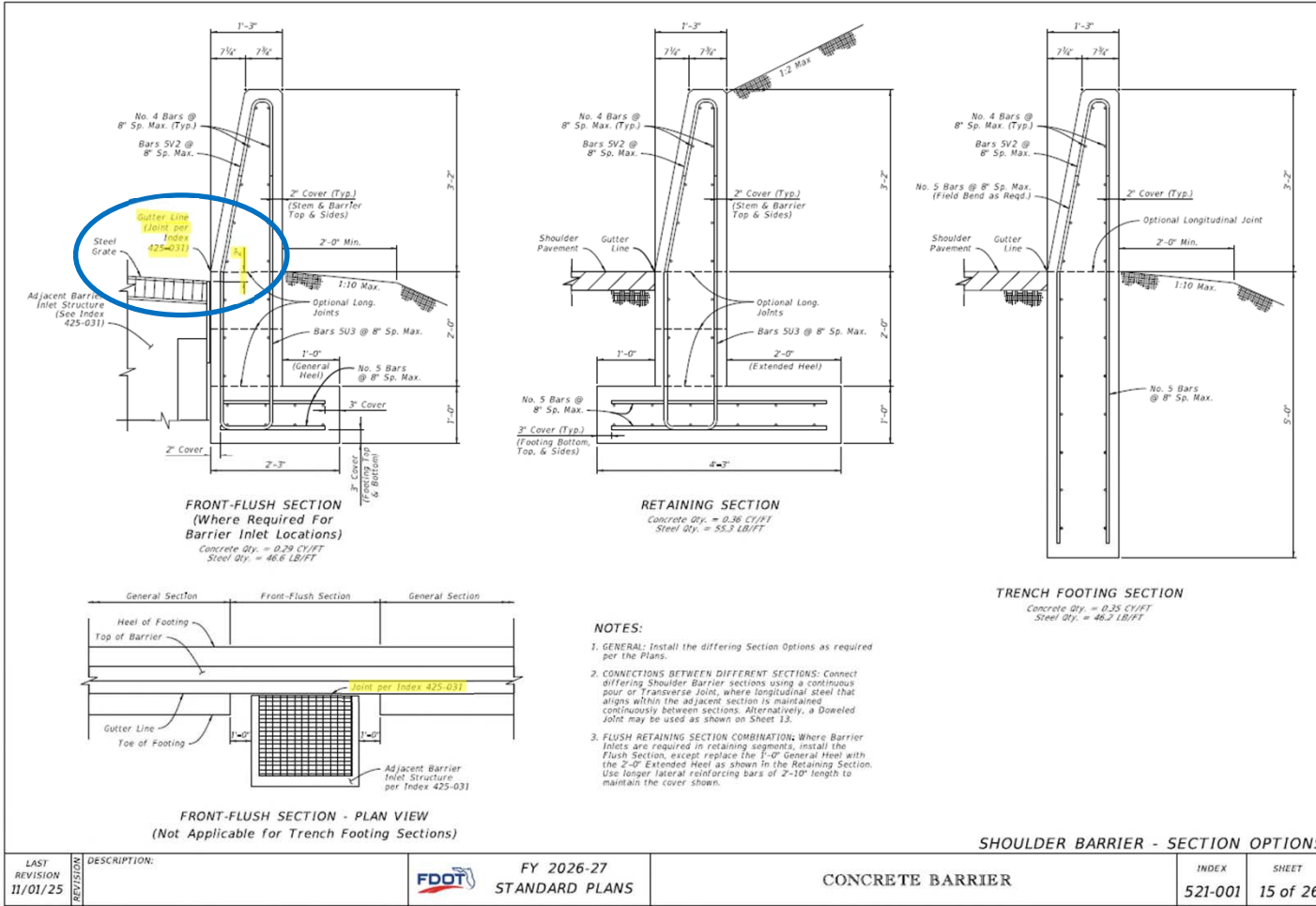
## Sheet 2:



- NOTE 3: Doweled Joints (for Median Barrier Expansion) now have a Minimum Spacing of 40-feet...**
  - Previously, only Maximum Spacing was listed to assist with expansion mitigation needs...
  - Now, a minimum is given to assist with preventing misuse and violation of min barrier length of 40 feet.

LAST REVISION 11/01/25	DESCRIPTION:	FDOT FY 2026-27 STANDARD PLANS	CONCRETE BARRIER	INDEX 521-001	SHEET 2 of 26
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## Sheet 15:



- 2" depression now shown for stormwater drainage per Index 425-031 (sound familiar?)...
- Measured from Gutter Line
- Also updated on Sheet 16

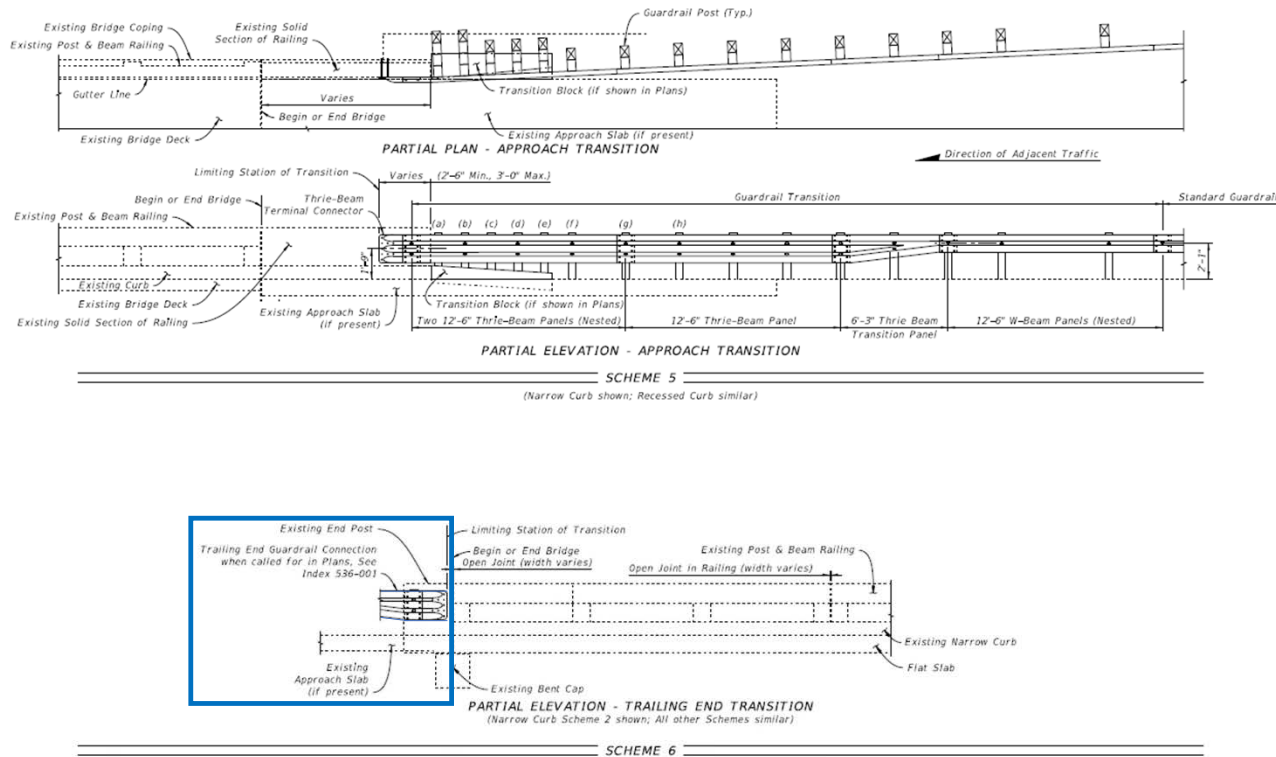
LAST REVISION	DESCRIPTION:	FY 2026-27	CONCRETE BARRIER	INDEX	SHEET
11/01/25		STANDARD PLANS		521-001	15 of 26

**Standard Plans – Primary Updates:**

- 1) **Index 102-110 – Type K Temporary Concrete Barrier**
  - **New** “single-slope” barrier compatibility
  - Added clarifications to General Notes
- 2) **Index 425-031 – Adjacent Barrier Inlet**
  - Clarified 2” shoulder depression for stormwater
- 3) **Index 520-001 – Curb and Gutter**
  - SPI – Defined “curbed” roadway segment
- 4) **Index 521-001 – Concrete Barrier**
  - Added clarifications for doweled joint spacing, 2” shoulder depression for inlet, and “single-slope” naming convention
- ➔ 5) **Index 521-404 – Guardrail Transitions – Post & Beam Bridge Railings**
  - Updated downstream connection details



## Sheet 7:



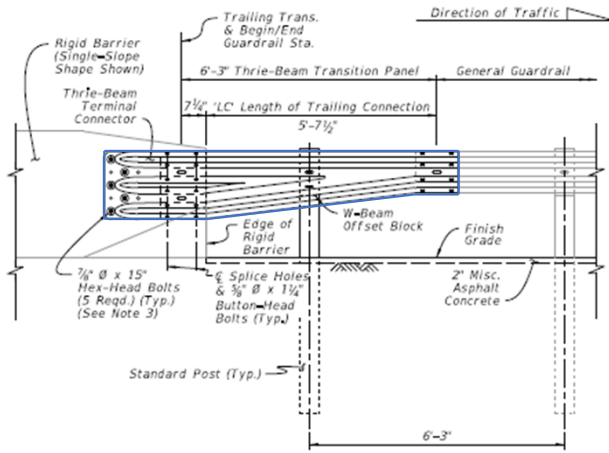
- Updated downstream guardrail connection
- Uses Thrie-Beam Transition Panel per Index [536-001](#)
- Corresponds to downstream transition options in 536-001 (next slide)!...



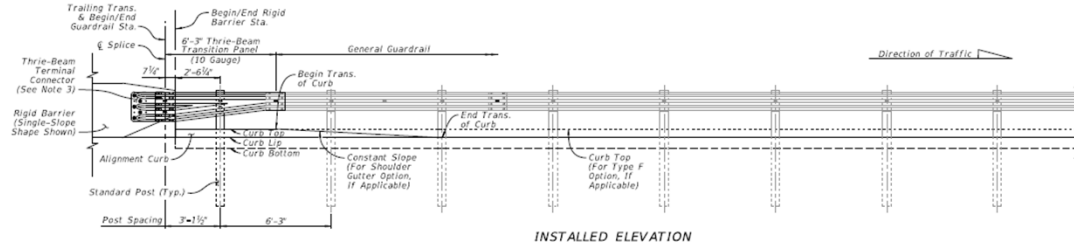
# Index 521-404 – Guardrail Transitions – Post & Beam Bridge Railings

**From 536-001...**

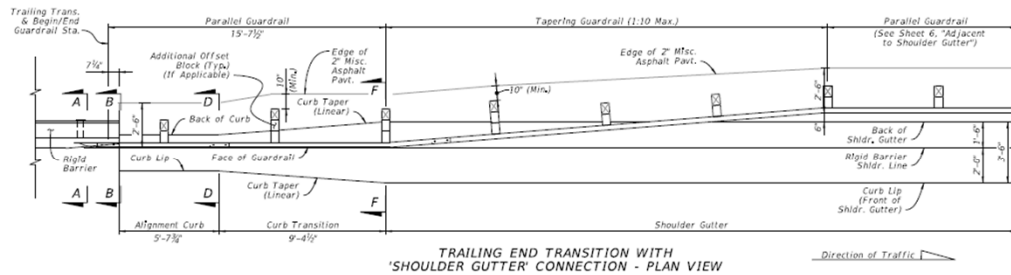
## Downstream Transition Options with Raised Curb or Shoulder Gutter...



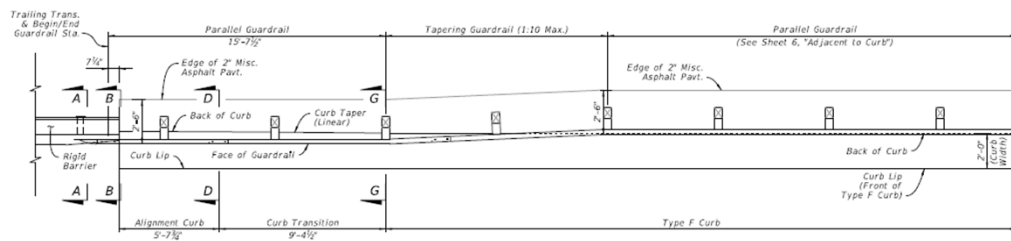
TRAILING END TRANSITION CONNECTION TO RIGID BARRIER - INSTALLED ELEVATION



INSTALLED ELEVATION



TRAILING END TRANSITION WITH 'SHOULDER GUTTER' CONNECTION - PLAN VIEW



TRAILING END TRANSITION WITH 'TYPE F CURB' CONNECTION - PLAN VIEW

**NOTES:**

1. GENERAL: See the applicable notes and details on Sheet 15.
2. SECTION VIEWS AND DETAILS: For cross sections and details, including the barrier mounting hardware, curb transition, adjacent grading, and installation dimensions, see Sheet 17.
3. RIGID BARRIER CONNECTION: For additional connection details, see Sheet 20.

TRAILING END TRANSITION CONNECTION TO RIGID BARRIER - CURB CONNECTIONS

## Standard Plans – Primary Updates:

- 1) **Index 102-110 – Type K Temporary Concrete Barrier**
  - **New** “single-slope” barrier compatibility
  - Added clarifications to General Notes
- 2) **Index 425-031 – Adjacent Barrier Inlet**
  - Clarified 2” shoulder depression for stormwater
- 3) **Index 520-001 – Curb and Gutter**
  - SPI – Defined “curbed” roadway segment
- 4) **Index 521-001 – Concrete Barrier**
  - Added clarifications for doweled joint spacing, 2” shoulder depression for inlet, and “single-slope” naming convention
- 5) **Index 521-404 – Guardrail Transitions – Post & Beam Bridge Railings**
  - Updated downstream connection details
- ➔ 6) **Index 536-001 – Guardrail**
  - **Removed** TL-2 Guardrail option (recurring 12’-6” post spacing)
  - **New** Connection to 27” height existing guardrail drawings





## Sheet 1

SHEET	CONTENTS
1	General Notes; Index Contents
2	General Guardrail Details – Installed Plan and Elevation
3	Connection to Existing 27" Height Guardrail
4	W-Beam and Thrie-Beam Panel Details
5	Post and Offset Block Details
6	Guardrail Sections – Heights and Adjacent Slopes
7	End Treatment – Approach Terminal Geometry, Parallel
8	End Treatment – Approach Terminal Geometry, Curbed and Double Faced
9	End Treatment – Trailing Anchorage
10	End Treatment – Component Details
11	End Treatment – Controlled Release Terminal (CRT) System
12	Layout for CRT System – State Roads and Driveways
13	Approach Transition Connection to Rigid Barrier – General, TL-3
14	Approach Transition Connection to Rigid Barrier – General, TL-3 – Curb Connections
15	Approach Transition Connection to Rigid Barrier – Low-Speed, TL-2
16	Approach Transition Connection to Rigid Barrier – Low-Speed, TL-2 – Curb Connections
17	Approach Transition Connection to Rigid Barrier – Details
18	Approach Transition Connection to Rigid Barrier – Double Faced Guardrail
19	Layout to Rigid Barrier – Approach Ends
20	Layout to Rigid Barrier – Approach Ends with Double Faced Guardrail Layout to Rigid Barrier – Trailing Ends Trailing End Transition Connection to Rigid Barrier
21	Trailing End Transition Connection to Rigid Barrier – Curb Connections
22	Rail Details
23	Pedestrian Safety Treatment – Pipe Rail
24	Modified Mount – Special Steel Post for Concrete Structure Mount; Modified Mount – Encased Post for Shallow Mount; Modified Mount – Frangible Leave-Out for Concrete Surface Mount
25	Barrier Delineators – Post Mounted; Clear Space – Reduced Post Spacing for Hazards; 3/8" Button-Head Bolt System

### GENERAL NOTES:

1. **INSTALLATION:** Construct guardrail in accordance with Specification 536.

This Index, along with the plans and the manufacturers' drawings on the Approved Products List (APL), is sufficiently detailed for installation of General Guardrail, Low-Speed Guardrail, End Treatment assemblies, and their connecting options shown herein. This precludes requirements for shop drawing submittals unless otherwise specified in the plans.

2. **COMPATIBILITY:** The General Guardrail in this Index is based on the Midwest Guardrail System (MGS) design, with an approximate height of 31" at the top of the Panel (2-1" mounting height at vertical  $\xi$  of Panel) and a midspan panel splice as shown on Sheet 2. Guardrail components included on the APL, which are compatible with this Index, may also be identified as 31" or MGS Guardrail.

3. **STANDARD COMPONENTS:** Standard guardrail components, including posts, panels, and bolt systems, are based on the Task Force 13 Publication: Guide to Roadside Hardware Components (<http://tf13.org/Guides/componentGuide/>).

4. **BUTTON-HEAD BOLTS:** Install Button-Head Bolts where indicated using bolts, nuts, and washers as defined on Sheet 25. Place washers under nuts against timber posts. Washers are not required at steel post flanges and panel lap splices. Do not place washers between bolt heads and panels, except where otherwise shown in this Index.

5. **HEX-HEAD BOLTS:** Install Hex-Head Bolts where indicated using bolts, nuts, and washers in accordance with material properties of Specification 967. Place washers under nuts.

6. **MISCELLANEOUS ASPHALT PAVEMENT:** Install Miscellaneous Asphalt Pavement where indicated with a tolerance of  $\pm 1/2$ " depth and in accordance with Specification 339.

7. **ADJACENT SIDEWALKS & SHARED USE PATHS:** When guardrail posts are placed within 4'-0" of a sidewalk or shared use path, use timber posts, or use steel posts only if treated with Pipe Rail as shown on Sheet 23.

When timber posts are used, one of the following safety treatments is required for the bolt(s) protruding from the back face of the posts:

- After tightening the nut, trim the protruding post bolt flush with the nut and galvanize per Specification 562.
- Use post bolts 15" in length and countersink the washer and nut between 1" and 1 1/2" deep into the back face of the post.
- Use 15" post bolts with sleeve nuts and washers.

When End Treatment posts are within 4'-0" of a sidewalk or shared use path, steel posts are not permitted within the End Treatment segment. Terminate the Pipe Rail outside of End Treatment segments, as noted per Sheet 23.

8. **NESTED W-BEAM:** Where called for in the plans, install two W-Beam Panels mounted flush per location, securing all panels with Button-Head Bolts threaded through aligned slots and holes. 2" Button-Head Bolts are permitted for panel splice locations.

9. **CONNECTION TO RIGID BARRIER:** The connections to Rigid Barrier in this Index only apply to newly constructed bridge Traffic Railings and Concrete Barrier or where the complete Approach Transition Connection to Rigid Barrier shown herein can be installed without conflicting with existing Traffic Railings, structures, or approach slabs. See Sheets 13 thru 21.

For connecting guardrail to existing bridge Traffic Railings, see Indexes 536-002, 521-404, and 521-405.

10. **CONNECTION TO EXISTING 27" HEIGHT GUARDRAIL:** See the connection options on Sheet 3.

11. **PLANS CALLOUTS:** Begin/End Station labels are shown throughout this Index as they correspond to the station and offset callouts specified in the plans.

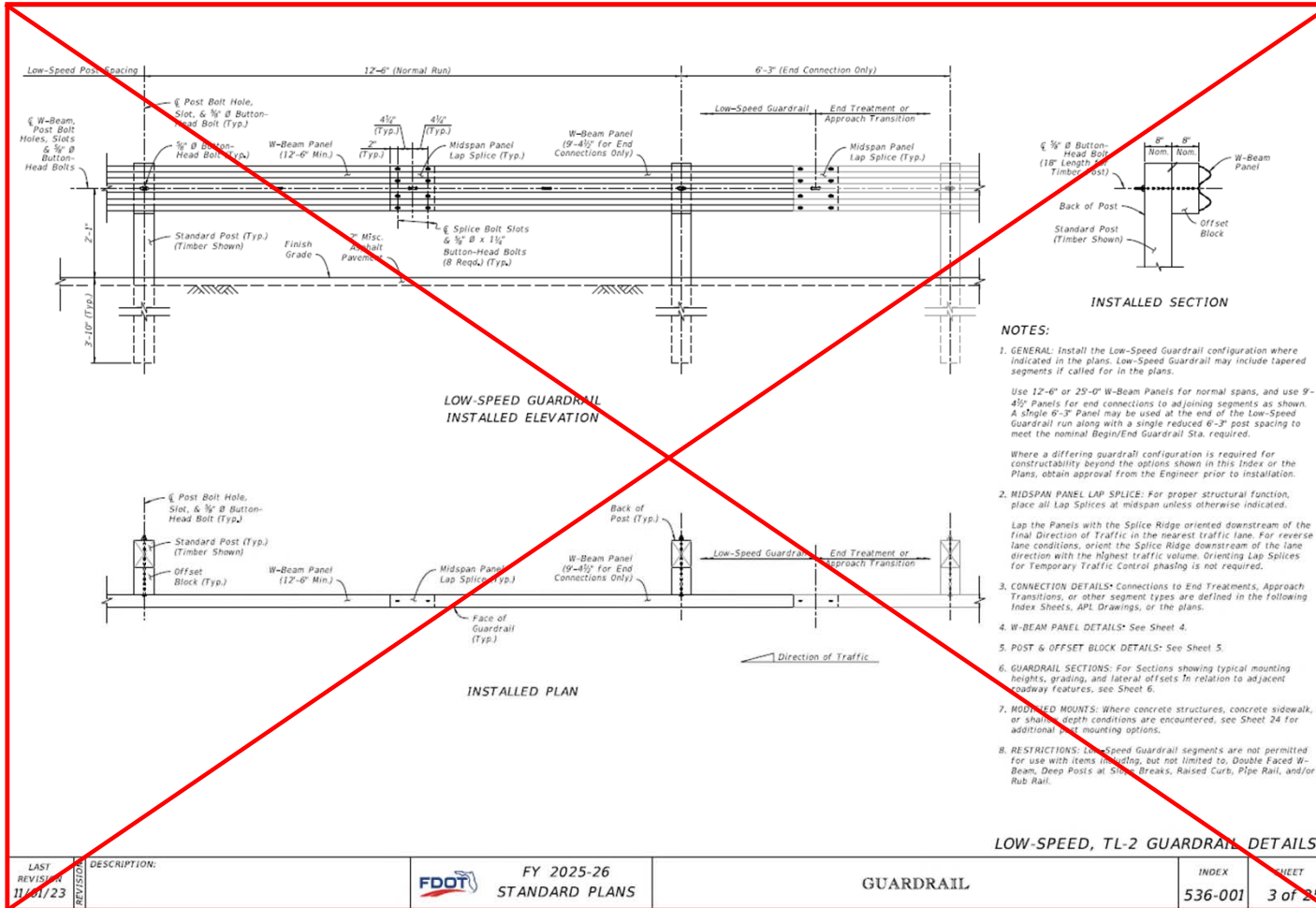
In the plans, Begin/End Guardrail Station refers to the General TL-3 Guardrail Pay Item, and it may be abbreviated as Begin/End GR Station. Where the Low-Speed TL-2 Guardrail Pay Item is specifically required, the callout in the plans will then specify Begin/End TL-2 GR Station.

12. **QUANTITY MEASUREMENT:** Measure guardrail and corresponding components as defined in Specification 536. The Guardrail length is measured along the centerline of installed Panels, between the points labeled Begin/End Guardrail Station shown on the following Index Sheets and defined in the plans (typically measured from the  $\xi$  of the panel's post bolt slots at the approach/trailing ends).

- **Table of Contents, Sheet 3:**
  - **Deleted: TL-2 Guardrail then...**
  - **Added: Connection to Existing 27" Height Guardrail**
- **General Note 10**
  - **Removed written description for connection to existing 27" height guardrail... Instead, it's now covered on Sheet 3!**

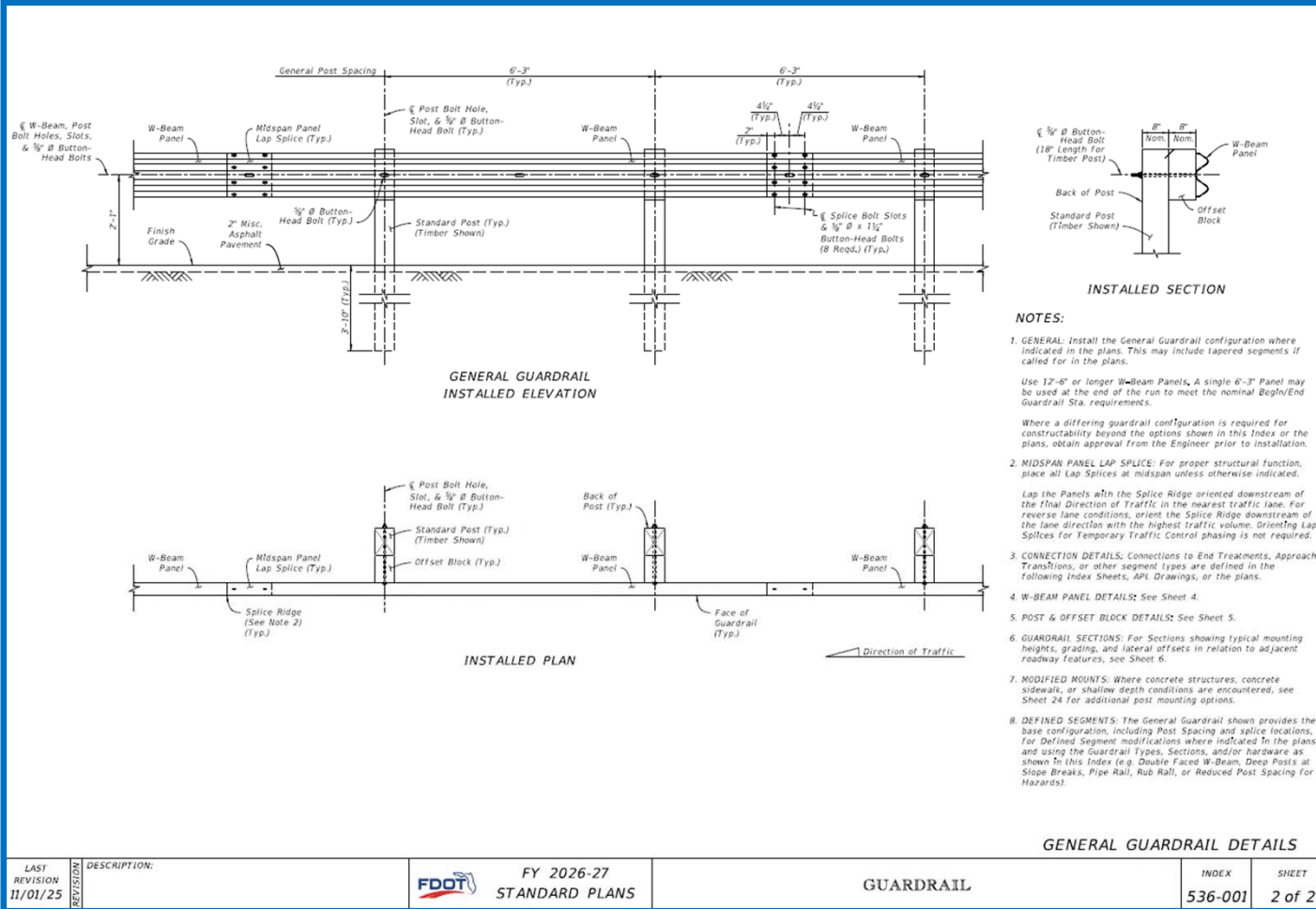
LAST REVISION 11/01/25	DESCRIPTION:	FY 2026-27 STANDARD PLANS	GUARDRAIL	INDEX 536-001	SHEET 1 of 25
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## PREVIOUS Sheet 3: TL-2 Option Removed



- **Removed the previous Sheet 3 for Low-Speed, TL-2 Guardrail!**
- **The recurring 12'-6" post spacing is now removed...**
- Note that other low-speed TL-2 end connection options remain available, but the recurring TL-2 longitudinal barrier is removed

## Sheet 2: General Guardrail (TL-3 or lower)



- **Reminder of only available option...**
- **Same as previous years!..**
- **Now... the only guardrail type, simply referred to as "General Guardrail" (a.k.a. TL-3 Guardrail)**

LAST REVISION 11/01/25	DESCRIPTION:	FDOT FY 2026-27 STANDARD PLANS	GUARDRAIL	INDEX 536-001	SHEET 2 of 25
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## Index 536-001 Guardrail

### Design Criteria

*FDOT Design Manual (FDM), 215; AASHTO Roadside Design Guide, 4th Edition; NCHRP Report 350, Test Level 3 Criteria; AASHTO Manual for Assessing Safety Hardware (MASH), Test Levels 2 & 3 Criteria; Task Force 13, Guide to Standardized Roadside Hardware*

### Design Assumptions and Limitations

For guardrail requirements, including hazard setbacks, crash test level classification, and placement in relation to curb, shoulder gutter, and the Edge of Traveled Way, see [FDM 215](#).

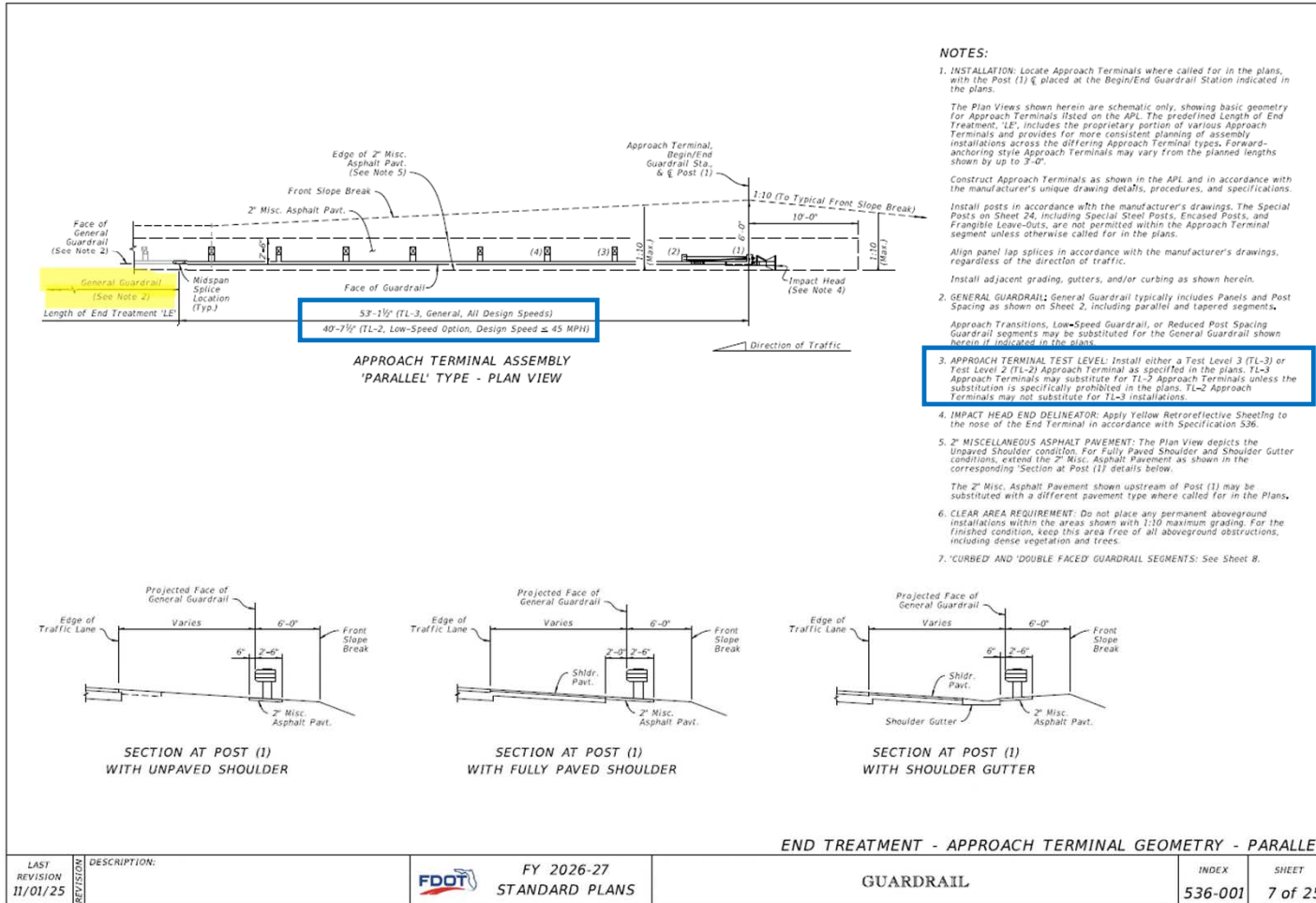
For guardrail requirements regarding Box Culverts, also see [FDM 215.4](#).

#### A. General:

*Index 536-001* defines guardrail segments including General Guardrail (TL-3), End Treatments (TL-2 or TL-3), and Approach Transition Connections to Rigid Barrier (TL-2 or TL-3) that will be used together to design a complete guardrail configuration on a project-specific basis. **Note that differing test level (TL) segments are compatible, but their applicability must meet or exceed the design speed of the roadway per [FDM 215](#).**

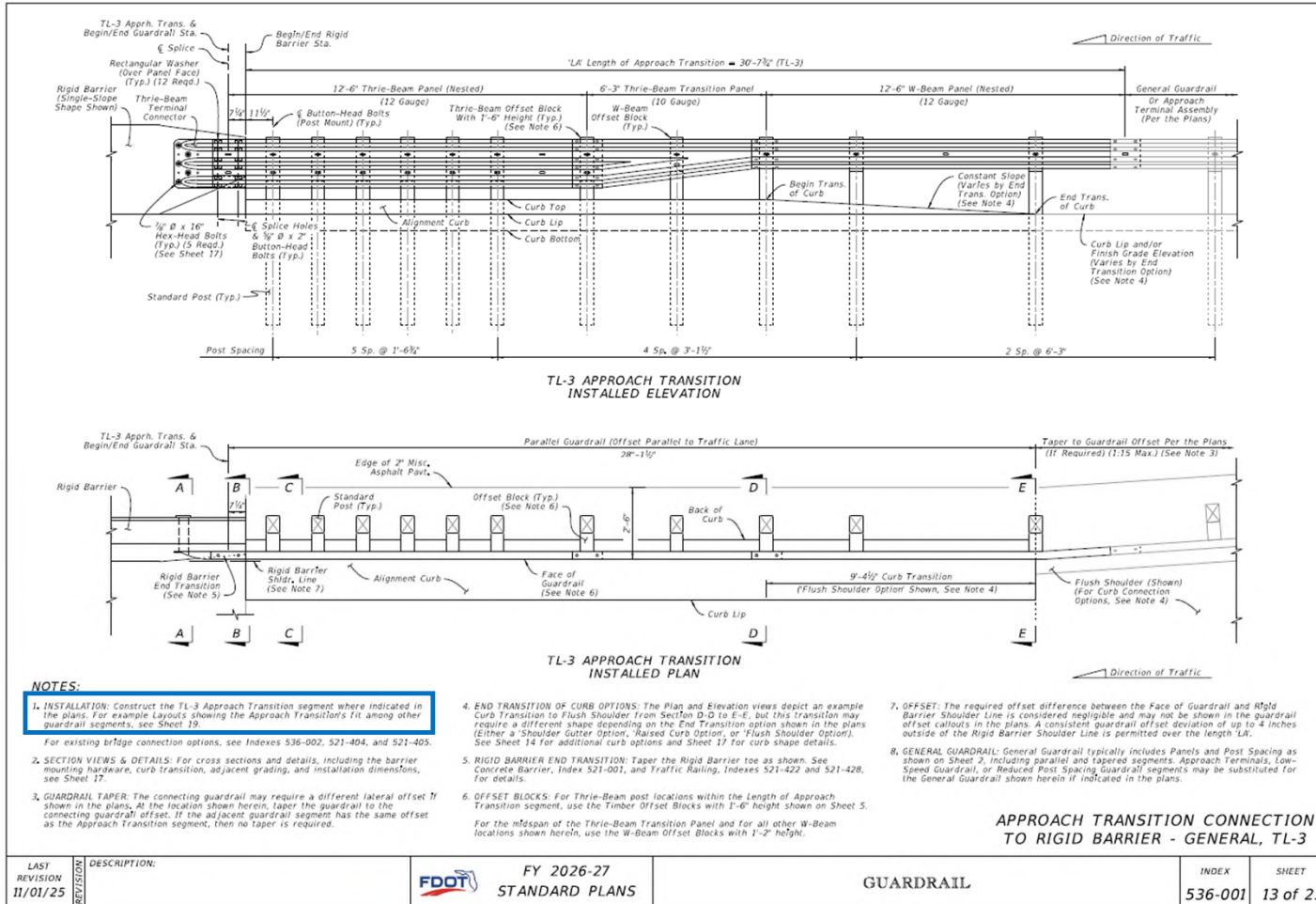
- **Updated SPI, Part A to explain “test level” (TL) options and compatibility**
- **General Guardrail (only choice):**
  - TL-3 (All Design Speeds)
- **End Treatments:**
  - TL-2 ( ≤ 45mph)
  - TL-3 (All Design Speeds)
- **Connections to Rigid Barrier:**
  - TL-2 ( ≤ 45mph)
  - TL-3 (All Design Speeds)
- **ALL are compatible with General Guardrail, assuming they meet the roadway’s design speed need!**

## Sheet 7:



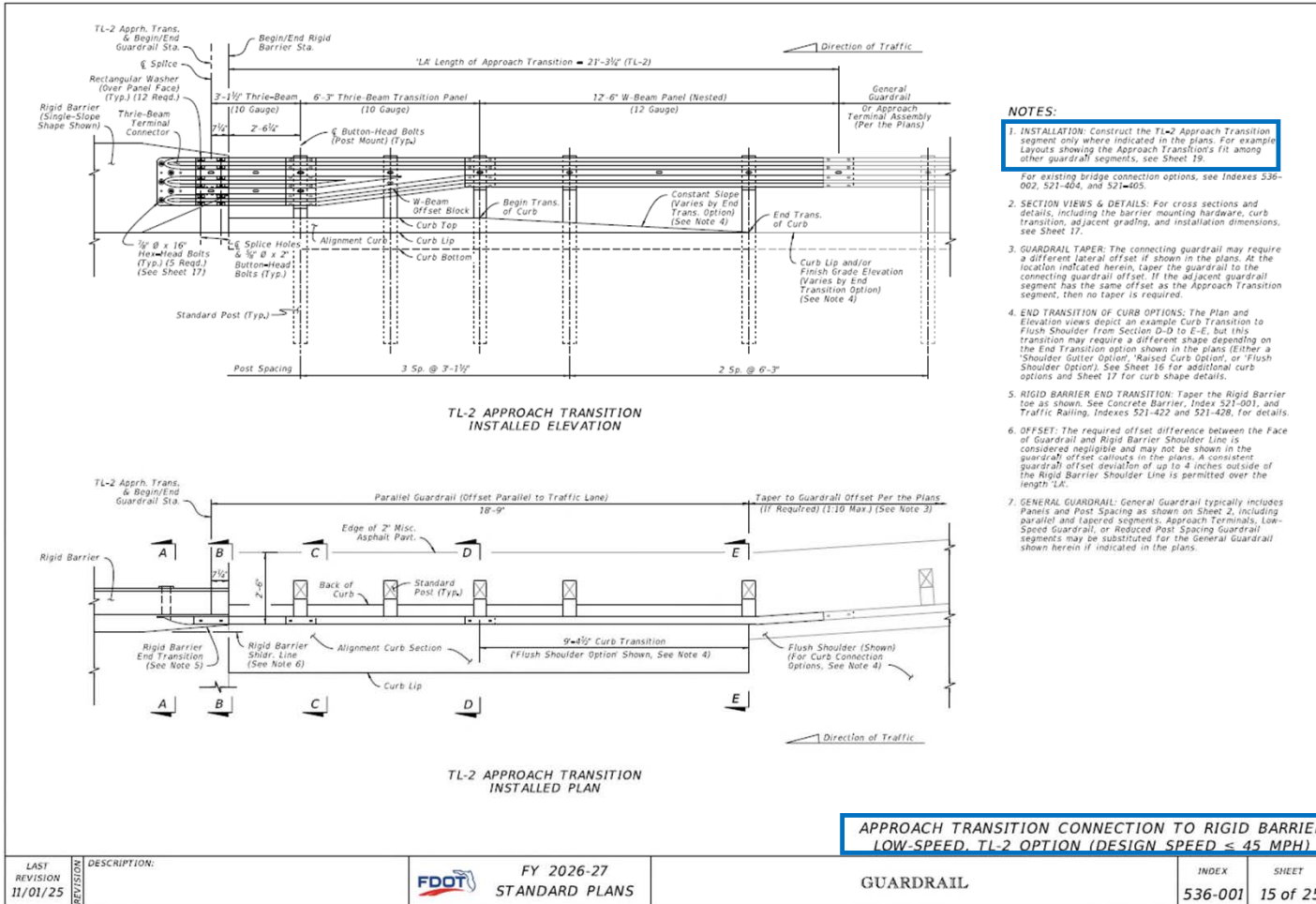
- Added applicable design speeds to TL-3 (All Speeds) and TL-2 (≤ 45mph)
- Clarified TL-2 is an "OPTION"...
- REMINDER: Contractor can only install Test Level 2 if specified in the Plans. They may substitute TL-3 for TL-2 if it'll fit...
- All are compatible with "General Guardrail"

## Sheet 13



- Reminder of what **longer TL-3 Approach Transition Connection to Rigid Barrier** Looks like...
- **Note 1: This TL-3 type is installed where shown in the Plans (EOR Governs)**

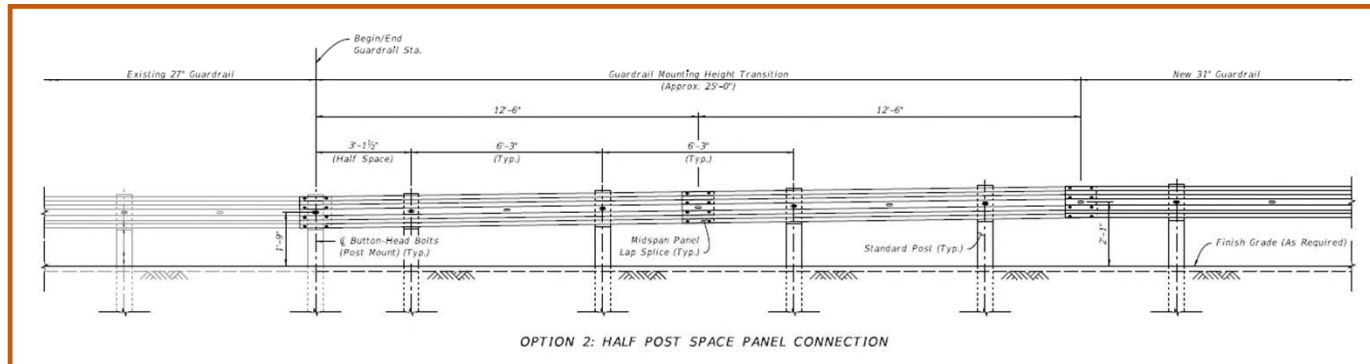
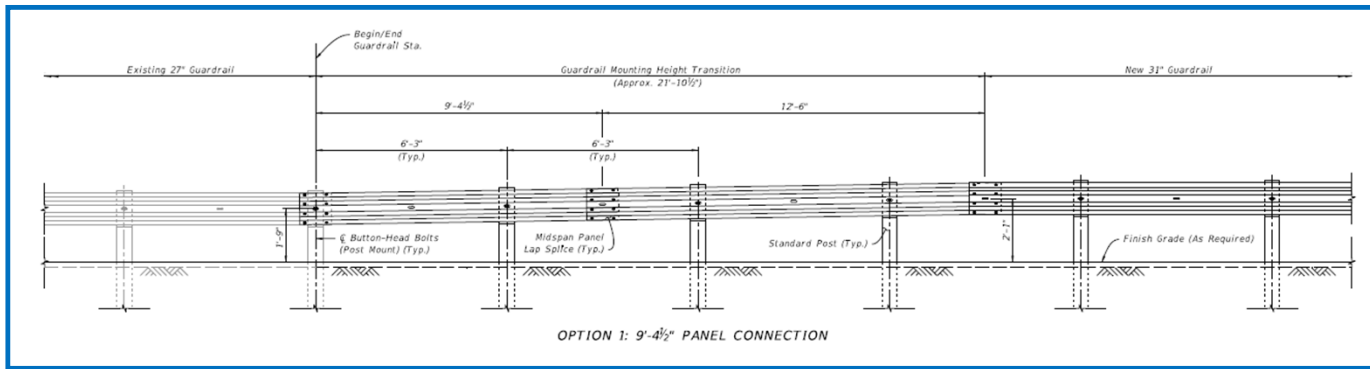
## Sheet 15



- Reminder of what **shorter TL-2 Approach Transition Connection to Rigid Barrier Looks like...**
- Note 1: This TL-2 option is installed where shown in the Plans (EOR Governs)...**
- Updated Sheet title to remind that TL-2 type is an "OPTION", added Design Speed (≤ 45mph)...**
- All are compatible with "General Guardrail"**

LAST REVISION 11/01/25	DESCRIPTION:	FDOT FY 2026-27 STANDARD PLANS	GUARDRAIL	INDEX 536-001	SHEET 15 of 25
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## ALL NEW Sheet 3: Connection to Existing 27" Height Guardrail



**NOTES:**

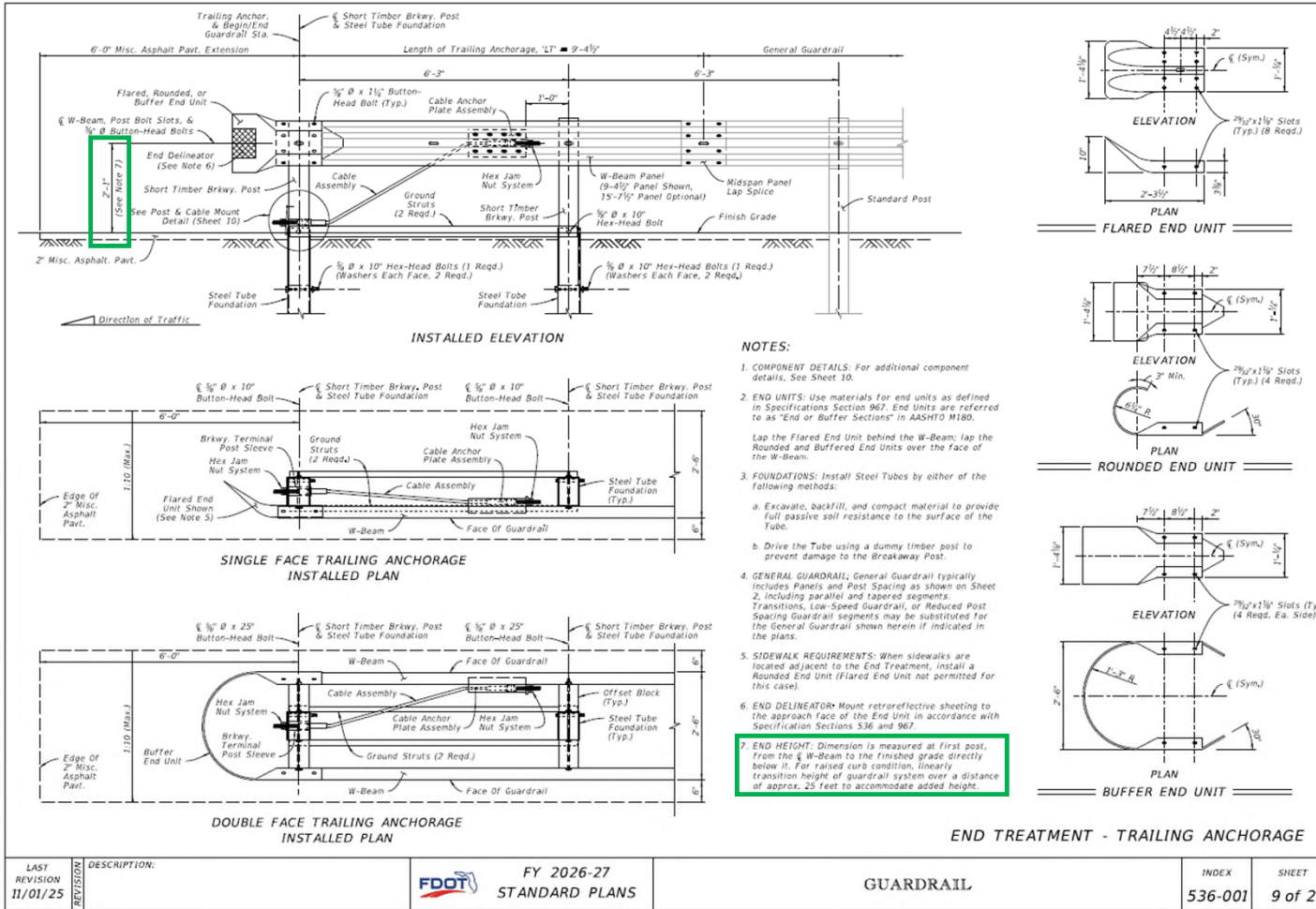
- Height transitions must occur outside of End Treatment and Approach Transition segments.
- Consider post location alignment needs when selecting option. Either option may be used unless a specific option number is called for in the plans.

CONNECTION TO EXISTING 27" HEIGHT GUARDRAIL

LAST REVISION 11/01/25	DESCRIPTION:	FY 2026-27 STANDARD PLANS	GUARDRAIL	INDEX 536-001	SHEET 3 of 25
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- Replaced General Note 10 connection options with these drawings...  
“A picture is worth a thousand words”
- Shows two options for connecting to existing guardrail:
  - **Option 1:**  
9'-4.5" Panel  
(one special panel)
  - **Option 2:**  
Half Post Space  
(one shorter space)

## Sheet 9: Trailing End Treatment **NEW Note 7**



- Added more detailed explanation for end height measurement, particularly for curbed condition!.

- Measure end height from CL w-beam at post 1 to the finish grade directly below this panel (2'-1")

- If the finished grade is higher for a curbed condition, transition the guardrail's height over a 25-foot length.

LAST REVISION 11/01/25	DESCRIPTION:	FDOT FY 2026-27 STANDARD PLANS	GUARDRAIL	INDEX 536-001	SHEET 9 of 25
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# Contact Us:



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*Live questions answered in chat box!*

# FY 2026-27 Standard Plans Update Training

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Structures Design Office  
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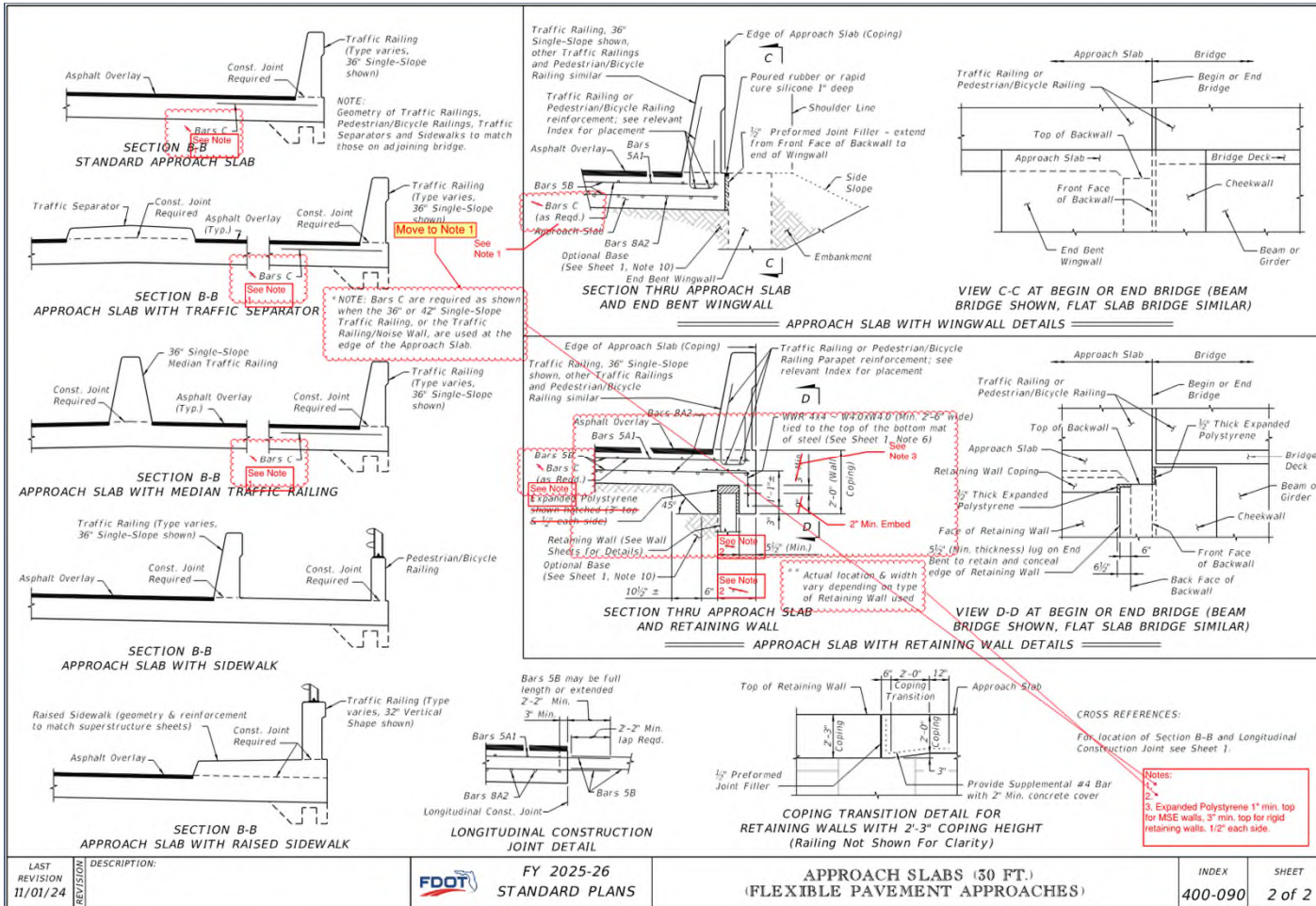
## **Standard Plans – Primary Updates:**

- 1) Index 400-090 & 091 Approach Slabs**
  - *Revised connection to retaining wall*
  
- 2) Index 450-453 – 18” Florida Slab Beam**
  - *Revised reinforcing*
  
- 3) Index 455-030 – 30” Square Prestressed Concrete Pile**
  - *Revised the spiral tie spacing*
  - *Same modification for 455-031 and 455-060*
  
- 4) Index 521-422 – Traffic Railing – (42” Vertical Shape)**
  - *Added a mortar plug option*
  - *Same modification for:*
    - *521-423*
    - *521-426*
    - *521-427*
    - *521-428*
    - *521-509*
    - *521-820*
    - *521-825*

## **Standard Plans – Primary Updates:**

- 5) ***Index 649-031 Mast Arm Assemblies***
  - *Revised the location of the weep hole*
  
- 6) ***Index 700-012 – Single Post Sign Support Barrier Side-Mounted***
  - *Revised mounting hardware location*

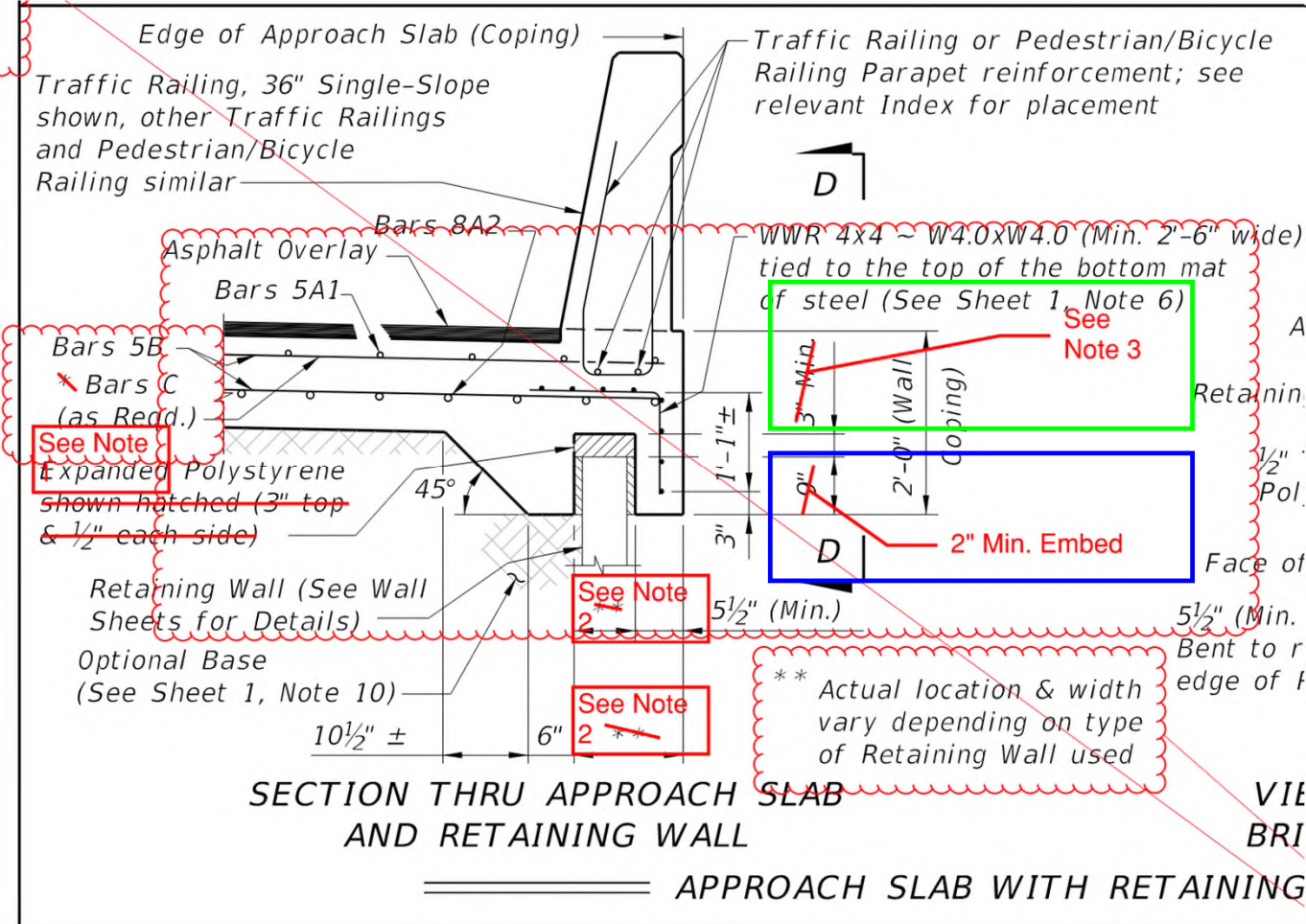
## Sheet 2: Revised connection to retaining wall



- Moved notes about the C bars
- Modified connection tolerances

LAST REVISION 11/01/24	DESCRIPTION:	FY 2025-26 STANDARD PLANS	APPROACH SLABS (30 FT.) (FLEXIBLE PAVEMENT APPROACHES)	INDEX 400-090	SHEET 2 of 2
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## Sheet 2: Revised connection to retaining wall



- **Moved notes about the C bars**
- **Modified connection tolerances**

**Notes:**

- 1.
- 2.
3. Expanded Polystyrene 1" min. top for MSE walls, 3" min. top for rigid retaining walls. 1/2" each side.

## Sheet 1: Revised reinforcing

**NOTES:**  
 Work this Index with Index 450-450 and Florida Slab Beams - Table of Variables in Structures Plans.  
 For Dimensions C, D, E, L, R, W & Y and Angle  $\theta$ , see Florida Slab Beam - Table of Variables in Structures Plans.  
 For referenced notes, see Index 450-450, Sheet 1.  
 \* For  $\phi$  of outermost strand positions, see corresponding Strand Pattern on Florida Slab Beams - Table of Variables in Structures Plans.  
 \*\* At the Contractor's option, the Detail as shown for Interior Beams may be used for Exterior Beams and the Bars SE field bent on the exterior side of the Beam to provide the specified cover to the coping line.  
 \*\*\* At the Contractor's option, the Optional Exterior Beam Section may be used.

**BILL OF REINFORCING STEEL FOR ONE BEAM ONLY**

MARK	SIZE	NOTE NUMBERS	NUMBER REQUIRED	LENGTH (NOTE 1)
C	3		See Table	Varies
D1	4	6	10 (End 1)	Varies
D2	4	6	10 (End 2)	Varies
D3	4		See Table	Varies
E1	5	7	See Table	Varies
E2	5	7	See Table	Varies
L	4	**	See Table	2'-0"
Y1	6	6	3 (End 1)	Varies
Y2	6	6	3 (End 2)	Varies
Z	5		6	17'-0.0"

**BENDING DIAGRAMS** (see Note 1)

**BARS 3C**  
 $D = (W/2) / \sin \theta$   
 $D = W/2$

**STIRRUP BARS 4D1, 4D2 & 4D3**  
 $\theta$  (see Table)

**STIRRUP BARS 4K**  
 8'-0"

**STIRRUP BARS 5Z**  
 $Y = (W - 1'-4\frac{1}{2}') / \sin \theta$

**BARS 6Y1 & 6Y2**  
 $E = W - 2'$   
 $E = W - 3\frac{1}{2}'$

**STIRRUP BARS 5E1 & 5E2**  
 $2\frac{1}{2}' \phi$  (Typ.)

**REVISIONS:**  
 LAST REVISION 11/01/20  
 DESCRIPTION: Update

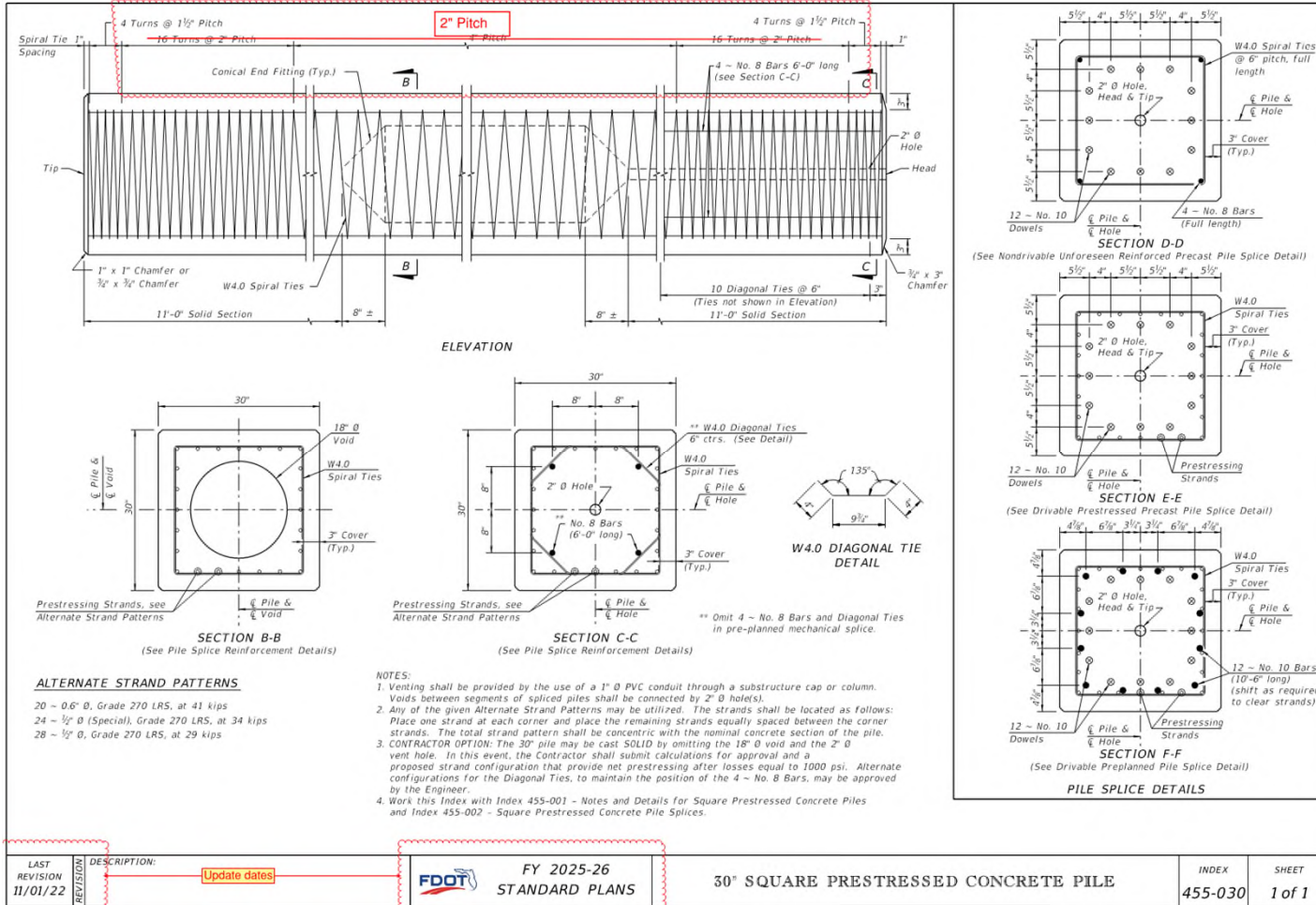
**FDOT**  
 FY 2025-26  
 STANDARD PLANS

**18" FLORIDA SLAB BEAM**

INDEX 450-453  
 SHEET 1 of 1

- Added a hook bar in the Optional Exterior Beam Section
- Lengthened the 5Z bars

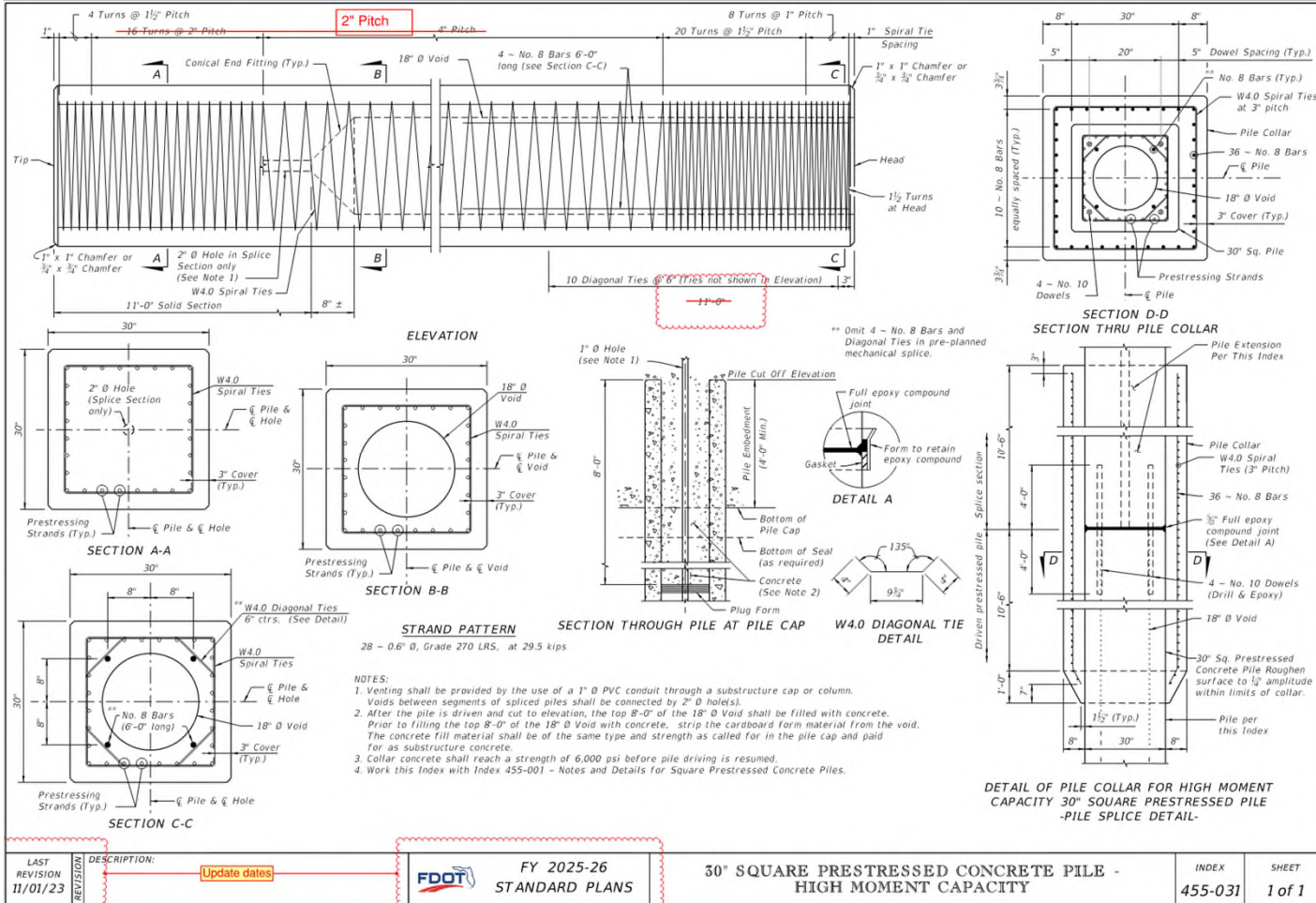
## Sheet 1: Changed tie spacing



- **Tightened the spiral tie spacing**

LAST REVISION 11/01/22	DESCRIPTION: Update dates	FDOT FY 2025-26 STANDARD PLANS	30" SQUARE PRESTRESSED CONCRETE PILE	INDEX 455-030	SHEET 1 of 1
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## Sheet 1: Changed tie spacing



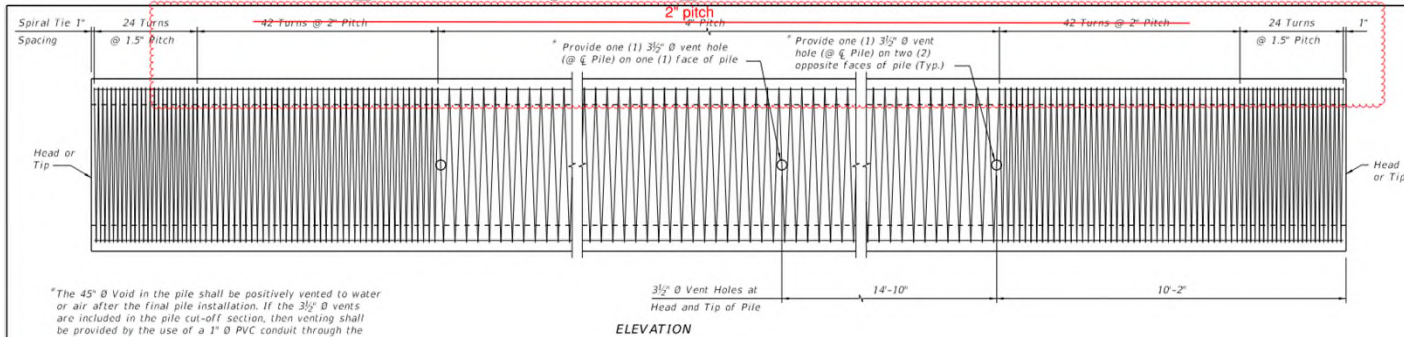
- **Tightened the spiral tie spacing**

LAST REVISION 11/01/23	DESCRIPTION: <span style="color: orange;">Update dates</span>	FY 2025-26 STANDARD PLANS	30" SQUARE PRESTRESSED CONCRETE PILE - HIGH MOMENT CAPACITY	INDEX 455-031	SHEET 1 of 1
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# Index 455-060 60" Prestressed Concrete Cylinder Pile

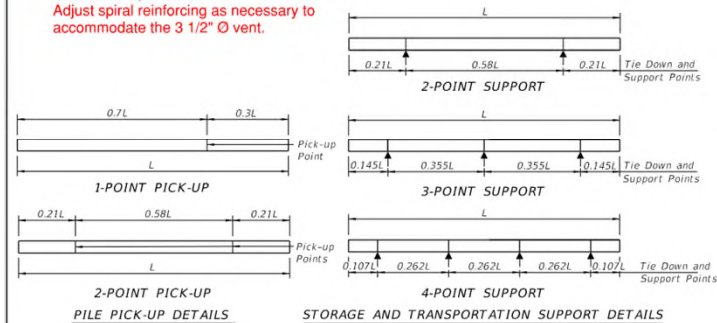
## Sheet 1: Changed tie spacing



\*The 45" Ø Void in the pile shall be positively vented to water or air after the final pile installation. If the 3 1/2" Ø vents are included in the pile cut-off section, then venting shall be provided by the use of a 1" Ø PVC conduit through the substructure cap or column.

Adjust spiral reinforcing as necessary to accommodate the 3 1/2" Ø vent.

ELEVATION



Maximum Pile Length (Feet)	Required Storage and Transportation Detail	Pick-Up Detail
122	2, 3, or 4 point	1 Point
174	2, 3, or 4 point	2 Point

- NOTES**
- Work this Index with the Pile Data Table in the Structures Plans.
  - Concrete:
    - Piles: Class V
    - Splice Collar: Class IV
    - See "GENERAL NOTES" in the Structures Plans for locations where the use of Highly Reactive Pozzolans is required.
  - Concrete Strength at time of prestress transfer:
    - Piles: 4,000 psi minimum.
  - Carbon-Steel Reinforcing:
    - Bars: Meet the requirements of Specification Section 415
    - Prestressing Strands: Use 0.6 dia. carbon-steel, Grade 270, low-relaxation strand stressed to 44.0 kips that meets the requirements of Specification Section 933.
    - Protect all carbon-steel strands permanently exposed to the environment and not embedded under final conditions in accordance with Specification Section 450.
  - Spiral Ties:
    - One half turn is required for carbon-steel spiral splices
    - One full turn is required at the head and tip of each pile
  - Pile Splices:
    - Epoxy: Type AB Epoxy Compound or Epoxy Mortar must meet the requirements of Specification Section 926.
      - Use a Type AB Epoxy Bonding Compound or Epoxy Mortar, as recommended by the Manufacturer, to form the joint between pile sections.
      - Use a Type AB Epoxy Bonding Compound as a bonding agent on internal pile surfaces.
    - Splices: Resume pile driving after the splice concrete reaches a minimum strength of 5,500 psi.
  - Mark piles at the pick-up points to indicate the proper points for attaching handling lines.

- Tightened the spiral tie spacing

## Sheet 3: Mortar plug

**CONVENTIONAL REINFORCING STEEL BENDING DIAGRAMS**

BILL OF REINFORCING STEEL			ROADWAY CROSS-SLOPE		ØA	
MARK	SIZE	LENGTH	LOW GUTTER	HIGH GUTTER	LOW GUTTER	HIGH GUTTER
S	5	As Req'd.	0% to 2%	90°	90°	90°
T	5	10'-8"	2% to 6%	87°	83°	83°
X	5	6'-9"	6% to 10%	84°	96°	96°

Length as Required

**BAR 5S**

**STIRRUP BAR 5T**

END TRANSITION STIRRUP BARS 5T  
To Be Field Cut (7 of each required per Railing End Transition)

**STIRRUP BAR 5X**

END TRANSITION STIRRUP BARS 5X  
To Be Field Cut (7 of each required per Railing End Transition)

**REINFORCING STEEL NOTES:**

- All bar dimensions in the bending diagrams are out to out.
- The 4'-6 1/2" vertical dimension shown for Bars 5T and 5X is based on a bridge deck with a 6" thick x 6" wide raised sidewalk at low side of deck, 2% deck cross slope and a counter 2% raised sidewalk cross slope. If the raised sidewalk thickness, width or cross slope vary from the above amounts, adjust this dimension accordingly to achieve a 6" minimum embedment into the bridge deck. See Structures Plans, Superstructure and Approach Slab Sheets.
- The reinforcement for the railing on a retaining wall shall be the same as detailed above with ØA = 90°.
- All reinforcing steel at the open joints shall have a 2" minimum cover.
- Bars 5S may be continuous or spliced at the construction joints. Bar splices for Bars 5S shall be a minimum of 2'-2".
- The Contractor may utilize Welded Wire Reinforcement (WWR) when approved by the Engineer. WWR must consist of Deformed wire meeting the requirements of Specification Section 931.

**INTERMEDIATE JOINT SEAL NOTES:**

- At Intermediate Open Joints, seal the lower 6" portion of the open joint with Pre-cured Silicone Sealant in accordance with Specification Section 932.
- Apply sealant prior to any Class V finish coating and remove all curing compound and loose material from the surface prior to application of bonding agent.
- The cost of the Pre-cured Silicone Sealant shall be included in the Contract Unit Price for the Traffic Railing.
- As an alternative option, a mortar plug may be used to seal the joint as shown in the mortar plug detail and in accordance with Specification Section 400.

**OPTION I**

**OPTION II (Alternative Mortar Plug at Open Joint)**

**DETAIL "A"**

**SECTION THRU RECESSED "V" GROOVE TO FORM INSCRIBED LETTERS AND FIGURES**

ESTIMATED TRAFFIC RAILING QUANTITIES		
ITEM	UNIT	QUANTITY
Concrete	CY/LF	0.145
Reinforcing Steel	LB/LF	30.68

(The above quantities are based on a 6" thick x 6" wide raised sidewalk at low side of deck, 2% deck cross slope and counter 2% sidewalk cross slope)

- Added a mortar plug option

## Sheet 3: Mortar plug

BILL OF REINFORCING STEEL			ROADWAY CROSS-SLOPE		
MARK	SIZE	LENGTH	ØA		
S	5	As Req'd.	LOW GUTTER	HIGH GUTTER	
T	5	9'-0"	0% to 2%	90°	90°
X	5	5'-10"	2% to 6%	87°	93°
			6% to 10%	84°	96°

STIRRUP BAR 5T

STIRRUP BAR 5X

BAR 5S

**REINFORCING STEEL NOTES:**

- All bar dimensions in the bending diagrams are out to out.
- The 3'-8 1/2" vertical dimensions shown for Bars 5T and 5X are based on a bridge deck with a 6" thick x 6' wide raised sidewalk at low side of deck, 2% deck cross slope and a counter 2% raised sidewalk cross slope. If the raised sidewalk thickness, width or cross slopes vary from the above amounts, adjust these vertical dimensions accordingly to achieve a 6" minimum embedment into the bridge deck.
- The reinforcement for the railing on a Retaining Wall shall be the same as detailed with ØA = 90°.
- All reinforcing steel at the open joints shall have a 2" minimum cover.
- Bars 5S may be continuous or spliced at the construction joints. Bar splices for Bars 5S shall be a minimum of 2'-2".
- The Contractor may utilize Welded Wire Reinforcement (WWR) when approved by the Engineer. WWR must consist of Deformed wire meeting the requirements of Specification Section 931.

**INTERMEDIATE JOINT SEAL NOTES:**

- At Intermediate Open Joints, seal the lower 6" portion of the open joint with Pre-cured Silicone Sealant in accordance with Specification Section 932.
- Apply sealant prior to any Class V finish coating and remove all curing compound and loose material from the surface prior to application of bonding agent.
- The cost of the Pre-cured Silicone Sealant shall be included in the Contract Unit Price for the Traffic Railing.
- As an alternative option, a mortar plug may be used to seal the joint as shown in the mortar plug detail and in accordance with Specification Section 400.

OPTION I

OPTION II  
(Alternative Mortar Plug at Open Joint)

**DETAIL "A"**

SECTION THRU RECESSED "V" GROOVE TO FORM INSCRIBED LETTERS AND FIGURES

ESTIMATED TRAFFIC RAILING QUANTITIES		
ITEM	UNIT	QUANTITY
Concrete	CY/LF	0.095
Reinforcing Steel	LB/LF	25.90

(The above quantities are based on a 6" thick x 6' wide raised sidewalk at low side of deck, 2% deck cross slope and counter 2% sidewalk cross slope.)

- Added a mortar plug option

## Sheet 4: Mortar plug

### ALTERNATE REINFORCING STEEL (WWR) DETAILS

**WWR Piece No. 1**

**WWR Piece No. 2**

**SPlice DETAIL (Between WWR Sections)**

**SECTION A-A**

### CONVENTIONAL REINFORCING STEEL BENDING DIAGRAMS

ROADWAY CROSS-SLOPE	ON SLOPE		AT CROWN	
	0A	0B	0A	0B
0% to 2%	79°	79°	79°	79°
>2% to 6%	81°	77°	79°	79°
>6% to 10%	84°	74°	79°	79°

0A and 0B shall be 79° if Contractor elects to place railing perpendicular to the deck, and approach slabs.

**STIRRUP BAR 5R**

**TRANSITION STIRRUP BAR 5R (5 required per Railing End Transition)**

**STIRRUP BAR 5W**

**TRANSITION STIRRUP BAR 5W (10 required per Railing End Transition)**

### WELDED WIRE REINFORCEMENT NOTES:

- At the option of the Contractor deformed Welded Wire Reinforcement (WWR) may be utilized in lieu of all Bars 5R, 5S and 5W. WWR must meet the requirements of Specification Section 931.
- WWR at Railing End Transition shall be field bent inward as required (Pieces 1 & 2) to maintain cover. The bottom of Piece 1 shall be cut to allow overlap.
- Place WWR panels so as to minimize the end overhang of longitudinal wires at Railing Ends and Open Joints. Overhangs greater than 6" are not permitted.

### INTERMEDIATE JOINT SEAL NOTES:

- At Intermediate Open Joints, seal the lower 6" portion of the open joint with Pre-cured Silicone Sealant in accordance with Specification Section 932.
- Apply sealant prior to any Class V finish coating and remove all curing compound and loose material from the surface prior to application of bonding agent.
- Include the cost of the Pre-cured Silicone Sealant in the Contract Unit Price for the Traffic Railing.
- As an alternative option, a mortar plug may be used to seal the joint as shown in the mortar plug detail and in accordance with Specification Section 400.

### ESTIMATED TRAFFIC RAILING QUANTITIES

ITEM	UNIT	QUANTITY
Concrete	CY/LF	0.157
Reinforcing Steel	LB/LF	23.99

*(The above quantities are based on a crowned roadway, with a 2% cross slope)*

• **Added a mortar plug option**

## Sheet 4: Mortar plug

### ALTERNATE REINFORCING STEEL (WWR) DETAILS

\* Longitudinal D20 Wires or #4 Bars may be tied.

**WWR Piece No. 1**

**WWR Piece No. 2**

**SPLICE DETAIL (Between WWR Sections)**

**WELDED WIRE REINFORCEMENT NOTES:**

- At the option of the Contractor deformed Welded Wire Reinforcement (WWR) may be utilized in lieu of all Bars 4P, 4S and 4V. WWR must consist of Deformed wire meeting the requirements of Specification Section 931.
- WWR at Railing End Transition shall be field bent inward as required (Piece 2) to maintain cover. The bottom of the vertical wires (D20) in Piece 2 shall be cut a maximum of 4 inches and the gutter side portion bent inward as required to allow placement.

### CONVENTIONAL REINFORCING STEEL BENDING DIAGRAMS

ROADWAY CROSS-SLOPE	LOW GUTTER	HIGH GUTTER
	OB	OB
0% to 2%	90°	90°
2% to 6%	87°	93°
6% to 10%	84°	96°

OB shall be 90° if Contractor elects to place railing perpendicular to the deck and approach slabs.

BILL OF REINFORCING STEEL		
MARK	SIZE	LENGTH
P	4	5'-11"
S	4	As Req'd.
V	4	4'-10"

Length as Required

**REINFORCING STEEL NOTES:**

- All bar dimensions in the bending diagrams are out to out.
- The 8 1/2" vertical dimensions shown for Bar 4V is based on a 6" embedment into the bridge deck without a raised sidewalk. If a raised sidewalk is to be provided, increase this dimension to achieve a 6" minimum embedment into the bridge deck. See Structures Plans, Superstructure and Approach Slab Sheets.
- All reinforcing steel at the open joints shall have a 2" minimum cover.
- Bars 4S may be continuous or spliced at the construction joints. Bar splices for Bars 4S shall be a minimum of 2'-0".

### DETAIL "C"

**OPTION I**

**OPTION II (Alternative Mortar Plug at Open Joint)**

**INTERMEDIATE JOINT SEAL NOTES:**

- At Intermediate Open Joints, seal the lower 6" portion of the open joint with Pre-cured Silicone Sealant in accordance with Specification Section 932.
- Apply sealant prior to any Class V finish coating and remove all curing compound and loose material from the surface prior to application of bonding agent.
- Include the cost of the Pre-cured Silicone Sealant in the Contract Unit Price for the Traffic Railing.
- As an alternative option, a mortar plug may be used to seal the joint as shown in the mortar plug detail and in accordance with Specification Section 400.

**SECTION THRU RECESSED "V" GROOVE TO FORM INSCRIBED LETTERS AND FIGURES**

ESTIMATED TRAFFIC RAILING QUANTITIES		
ITEM	UNIT	QUANTITY
Concrete	CY/LF	0.107
Reinforcing Steel	LB/LF	24.78

(The above quantities are based on a 2% deck cross slope; railing on low side of deck.)

- Added a mortar plug option

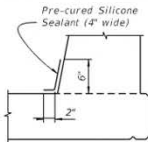
## Sheet 4: Mortar plug

CONVENTIONAL REINFORCING STEEL BENDING DIAGRAMS																																						
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3" style="text-align: center;">BILL OF REINFORCING STEEL</th> </tr> <tr> <th>MARK</th> <th>SIZE</th> <th>LENGTH</th> </tr> </thead> <tbody> <tr> <td>P</td> <td>5</td> <td>7'-0"</td> </tr> <tr> <td>S1</td> <td>6</td> <td>As Reqd.</td> </tr> <tr> <td>S2</td> <td>5</td> <td>As Reqd.</td> </tr> <tr> <td>T1 &amp; T2</td> <td>6</td> <td>10'-0"</td> </tr> <tr> <td>V</td> <td>5</td> <td>5'-9"</td> </tr> </tbody> </table>	BILL OF REINFORCING STEEL			MARK	SIZE	LENGTH	P	5	7'-0"	S1	6	As Reqd.	S2	5	As Reqd.	T1 & T2	6	10'-0"	V	5	5'-9"	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>ROADWAY CROSS-SLOPE</th> <th>LOW GUTTER</th> <th>HIGH GUTTER</th> </tr> </thead> <tbody> <tr> <td></td> <td>ØB</td> <td>ØB</td> </tr> <tr> <td>0% to 2%</td> <td>101°</td> <td>101°</td> </tr> <tr> <td>2% to 6%</td> <td>98°</td> <td>104°</td> </tr> <tr> <td>6% to 10%</td> <td>95°</td> <td>107°</td> </tr> </tbody> </table> <p>ØA and ØB shall be 90° if Contractor elects to place Railing perpendicular to the Deck.</p>	ROADWAY CROSS-SLOPE	LOW GUTTER	HIGH GUTTER		ØB	ØB	0% to 2%	101°	101°	2% to 6%	98°	104°	6% to 10%	95°	107°	
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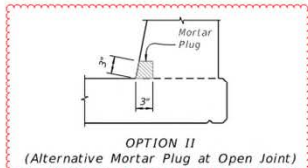
- Added a mortar plug option

## Sheet 4: Mortar plug

- INTERMEDIATE JOINT SEAL NOTES:**
- At Intermediate Open Joints, seal the lower 6" portion of the open joint with Pre-cured Silicone Sealant in accordance with Specification Section 932.
  - Apply sealant prior to any Class V finish coating and remove all curing compound and loose material from the surface prior to application of bonding agent.
  - The cost of the Pre-cured Silicone Sealant shall be included in the Contract Unit Price for the Traffic Railing.
  - As an alternative option, a mortar plug may be used to seal the joint as shown in the mortar plug detail and in accordance with Specification Section 400.

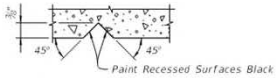


OPTION I



OPTION II  
(Alternative Mortar Plug at Open Joint)

DETAIL "B"



SECTION THRU RECESSED "V" GROOVE TO FORM INSCRIBED LETTERS AND FIGURES

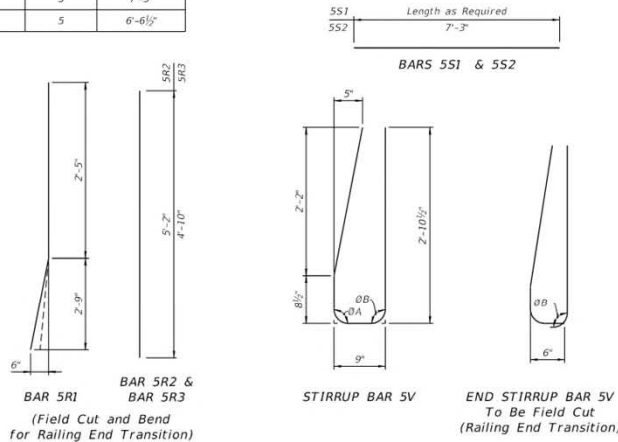
ESTIMATED TRAFFIC RAILING/NOISE WALL QUANTITIES		
ITEM	UNIT	QUANTITY
Concrete (Railing)	CY/LF	0.107
Concrete (Noise Wall)	CY/LF	0.136
Reinforcing Steel (Typical)	LB/LF	69.36
Additional Reinf. @ Open Joint	LB	226.85

(The above quantities are based on the bridge mounted typical section, 2% deck cross slope and railing on low side of deck.)

### REINFORCING STEEL BENDING DIAGRAMS

BILL OF REINFORCING STEEL		
MARK	SIZE	LENGTH
R1	5	5'-2"
R2	5	5'-2 1/2"
R3	5	4'-10"
S1	5	As Req'd.
S2	5	7'-3"
V	5	6'-6 1/2"

BRIDGE MOUNTED	BRIDGE CROSS-SLOPE	LOW GUTTER		HIGH GUTTER	
	0A	0B	0A	0B	
	0% to 2%	90°	90°	90°	90°
	2% to 6%	93°	87°	87°	93°
	6% to 10%	96°	84°	84°	96°



#### REINFORCING STEEL NOTES:

- All bar dimensions in the bending diagrams are out to out.
- All reinforcing steel at the open joints shall have a 2" minimum cover.
- Bars 5R shall be one continuous or lap spliced bar. No mechanical couplers are permitted.
- Bars 5S1 may be continuous or spliced at the construction joints. Lap splices for Bars 5R2 and 5S1 shall be a minimum of 2'-2".
- The Contractor may use Welded Wire Reinforcement (WWR) when approved by the Engineer. WWR must consist of deformed wire meeting the requirements of Specification Section 931.

CROSS REFERENCE:  
For locations of Detail "B", see Sheet 1.

- Added a mortar plug option

## Sheet 2: Mortar plug

**ALTERNATE REINFORCING (WELDED WIRE REINF.) DETAILS**

NOTE: Place wire panels to minimize the end overhang. End Overhangs greater than 4 1/2" are not permitted.

**WELDED WIRE REINFORCEMENT (WWR)**

**SPLICE DETAIL**  
(Between WWR Sections)

**CONVENTIONAL REINFORCING STEEL BENDING DIAGRAMS**

MARK	SIZE	LENGTH
P1	4	5'-6"
P2	4	6'-0"
S	4	As Reqd.

**REINFORCING STEEL NOTES:**

- All bar dimensions in the bending diagrams are out to out.
- The reinforcement for the parapet on a retaining wall shall be the same as detailed above for a 8" deck.
- All reinforcing steel at the open joints shall have a 2" minimum cover.
- Bars 4S may be continuous or spliced at the construction joints. Bar splices for Bars 4S shall be a minimum of 1'-8".
- Bars 4P2 may be used in lieu of Bars 4P1.
- At the option of the Contractor, deformed WWR may be used in lieu of all Bars 4P or 4P2 and 4S.

**INTERMEDIATE JOINT SEAL NOTE:**

- At Intermediate Open Joints, seal the lower 6" portion of the open joint with Pre-cured Silicone Sealant meeting the requirements of Specification Section 932.
- Apply sealant prior to any Class V finish coating and remove all curing compound and loose material from the surface prior to application of bonding agent.
- The cost of the Pre-cured Silicone Sealant shall be included in the Contract Unit Price for the Concrete Parapet.
- As an alternative option, a mortar plug may be used to seal the joint as shown in the mortar plug detail and in accordance with Specification Section 400.

**DETAIL "A"**

ESTIMATED CONCRETE PARAPET QUANTITIES		
ITEM	UNIT	QUANTITY
Concrete	CY/LF	0.056
Reinforcing Steel (P1 & S)	LB/FT	6.35
Reinforcing Steel (P2 & S)	LB/FT	6.68

(The above quantities are based on a deck with a 2% cross slope)

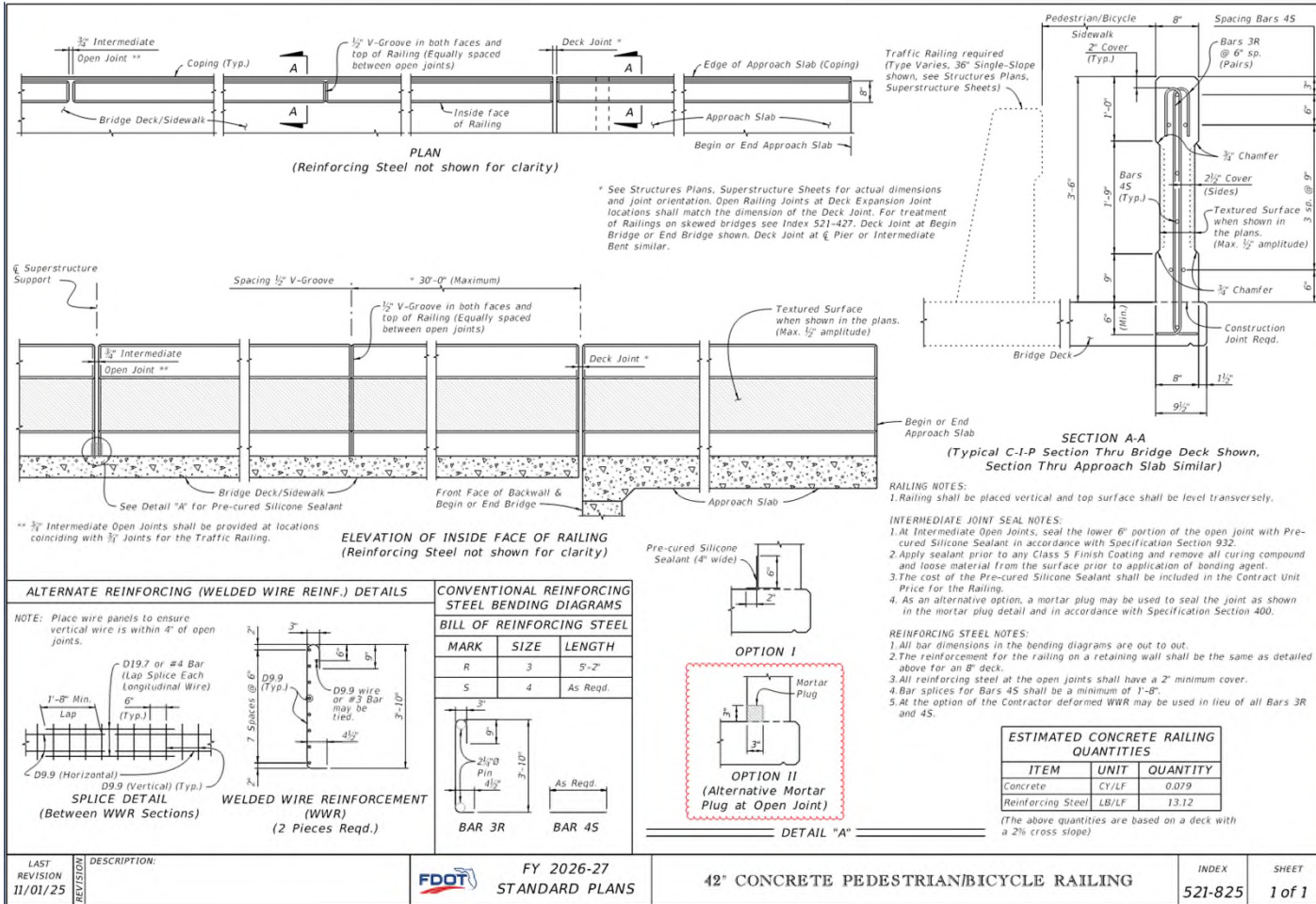
- Added a mortar plug option



# Index 521-825 42" Concrete Pedestrian/Bicycle Bullet Railing

## Sheet 1: Mortar plug

- Added a mortar plug option



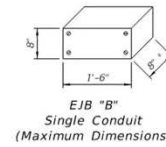
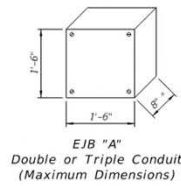
## Sheet 1: Conduit elevation

**CONDUIT GENERAL NOTES:**

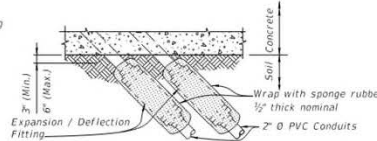
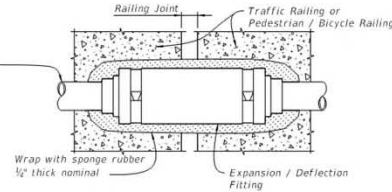
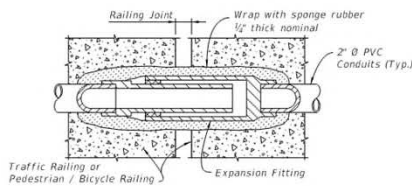
1. Furnish and install approved Conduits, Fittings and Embedded Junction Boxes (EJBs) in accordance with Specification Sections 630 and 635, this Standard, the National Electric Code (NEC) and as directed by the Engineer.
2. Furnish and install Embedded Junction Boxes (EJB) with weatherproof covers sized in accordance with NEC requirements and the maximum size limits shown. Install EJB adjacent to the Begin and End of Bridges, Begin and End of Retaining Walls, (except omit EJB adjacent to the Bridge unless a precast Traffic Railing with junction slab is used), and at other locations as necessary to maintain 300 foot maximum spacing. See Plans for additional locations and details.
3. For Conduit not designated for future use, see Plans for details. For Conduit designated for future use, stub out and cap the Conduit. Drive a 3'-0"± long 3/4" (min) diameter Steel Pipe flush with the ground line adjacent to the end of the Conduit as shown on Sheets 2, 3 or 4. Provide the location of the stub out with Steel Pipe to the Engineer for inclusion on the As-Built Plans.
4. Shift vertical Railing reinforcement symmetrically to provide 2" clearance to EJB. Space shifted vertical reinforcement at minimum 3' centers. Cut horizontal Railing reinforcement to provide 2" clearance to EJB and provide supplemental reinforcement as shown. To facilitate placement of Conduit, Expansion Fittings, and Expansion/Deflection Fittings, shift reinforcing a maximum of 1" but do not cut railing reinforcing to facilitate Conduit or Fittings. Do not bundle Conduits, or Conduit and horizontal reinforcement.
5. Place conduits as indicated in this Standard unless Structures Plans indicate fewer.

Max elevation of the top of conduit is 1'-6" above top of coping.

\* Reduce to 6" maximum when installed in Pedestrian/ Bicycle Railings.

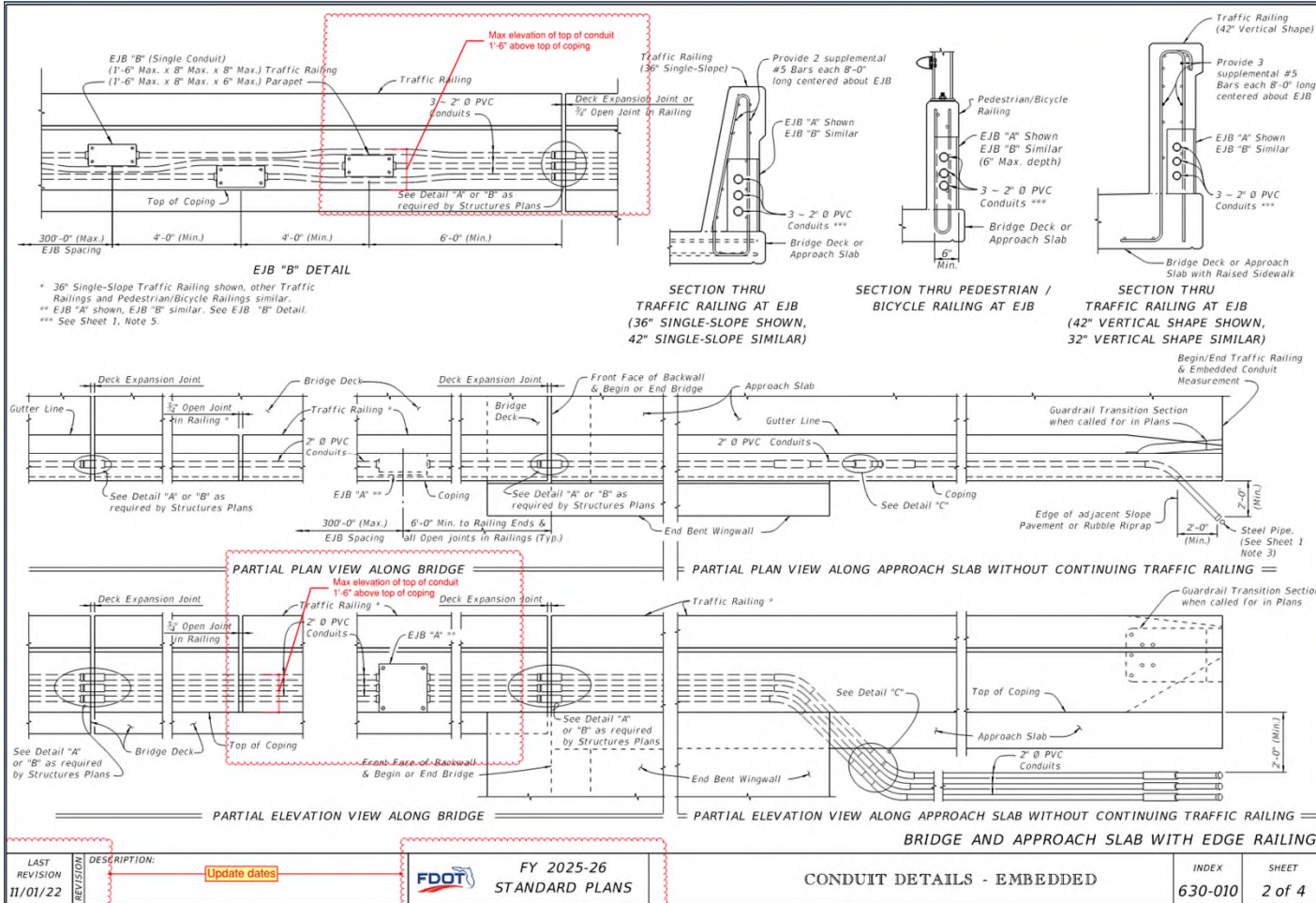


- **Added conduit elevation limit**



<table border="1"> <tr> <th>LAST REVISION</th> <th>DESCRIPTION</th> </tr> <tr> <td>11/01/23</td> <td>Update dates</td> </tr> </table>		LAST REVISION	DESCRIPTION	11/01/23	Update dates	<table border="1"> <tr> <td> </td> <td>                 FY 2025-26 STANDARD PLANS             </td> </tr> </table>		FY 2025-26 STANDARD PLANS	CONDUIT DETAILS - EMBEDDED	<table border="1"> <tr> <th>INDEX</th> <th>SHEET</th> </tr> <tr> <td>630-010</td> <td>1 of 4</td> </tr> </table>	INDEX	SHEET	630-010	1 of 4
LAST REVISION	DESCRIPTION													
11/01/23	Update dates													
	FY 2025-26 STANDARD PLANS													
INDEX	SHEET													
630-010	1 of 4													

## Sheet 2: Conduit elevation



- Added conduit elevation limit

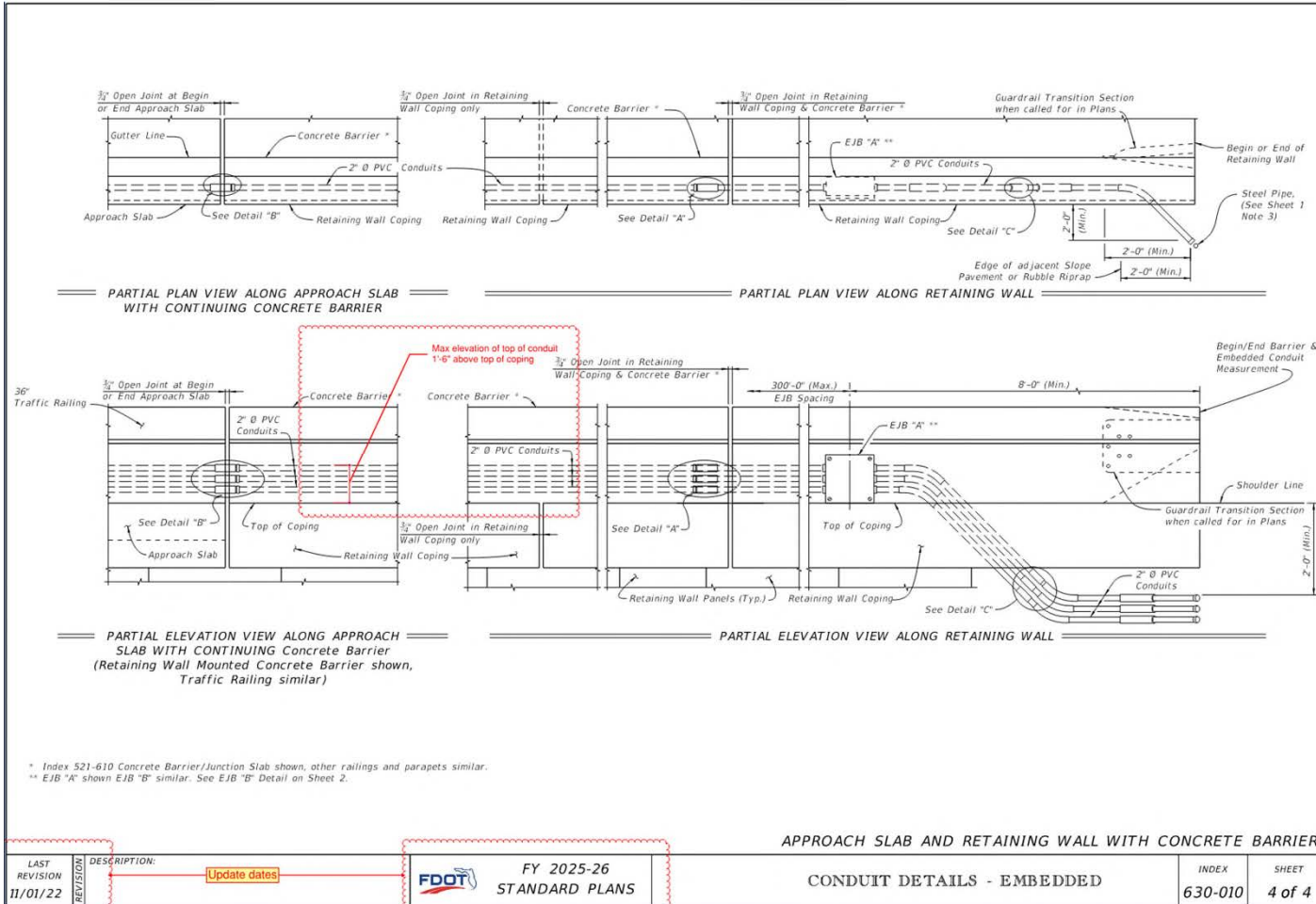
LAST REVISION	DESCRIPTION	DATE	INDEX	SHEET
11/01/22	Update dates		630-010	2 of 4

FY 2025-26 STANDARD PLANS

CONDUIT DETAILS - EMBEDDED

## Sheet 4: Conduit elevation

- **Added conduit elevation limit**



## Sheet 1: Weep hole

### GENERAL NOTES:

- Shop Drawings: This Index is considered fully detailed, only submit shop drawings for minor modifications not detailed in the Plans.
- Prior to Fabrication: Verify the installed foundation elevation will result in the required signal elevation and adjust the Pole height as needed.
- Details for Signal and Sign locations, Signal Head attachment, Sign attachment, Pedestrian Head attachment, and Foundation/Conduit are not shown for simplicity.
- Materials:
  - Poles, Mast Arms and Backing Rings:
    - Less than 1/2": ASTM A1011 Grade 50, 55, 60 or 65
    - Greater than or equal to 1/2": ASTM A572 Grade 50, 55, 60 or 65
    - ASTM A595 Grade A (55 ksi yield) or Grade B (60 ksi yield)
  - Steel Plates: ASTM A36
  - Weld Metal: E70XX
  - Bolts, Nuts and Washers:
    - High Strength Hex Head Bolts: ASTM F3125, Grade A325, Type 1
    - Nuts: ASTM A563 DH Heavy-Hex
    - Washers: ASTM F436 Type 1, one under turned element
  - Anchor Bolts, Nuts and Washers:
    - Anchor Bolts: ASTM F1554 Grade 55
    - Nuts: ASTM A563 Grade 4 Heavy-Hex (5 per anchor bolt)
    - Plate Washers: ASTM A36 (2 per bolt)
  - Threaded Bars/Studs: ASTM A36 or ASTM A307
  - Handhole Frame: ASTM A209 or ASTM A36, Grade 36
  - Handhole Cover: ASTM A1011 Grade 50, 55, 60 or 65
  - Pole Caps and Nut Covers: Fabricate from cast aluminum or galvanized carbon steel.
  - Stainless Steel Screws: AISI Type 316
  - Concrete: Class IV (Drilled Shaft) for all environmental classifications.
  - Reinforcing Steel: Specification 415

- Fabrication:
  - Welding:
    - Specification 460-6.4 and AASHTO LRFD Specification for Structural Supports for Highway Signs, Luminaires, and Traffic Signals Section 14.4.4
  - Poles and Mast Arms:
    - Round or 12-sided (Min.)
    - Taper pole diameter at 0.14 inches per foot
    - Upright poles must be a single section. For arms and upright poles, circumferential welds and laminated sections are not permitted.
    - Arms may be either one or two sections. See Sheet 4 for telescopic splice detail
    - Fabricate longitudinal seam welds with 60 percent minimum penetration or fusion welds except:
      - Use a complete joint penetration weld within 6 inches of the circumferential tube-to-plate connection
      - Use complete joint penetration welds on the female end section of telescopic (i.e., slip type) field splices for a minimum length of one and one-half times the inside diameter of the female section plus 6 inches.
    - Locate longitudinal seams weld along the:
      - Cover quadrant of the arms
      - Same side of the pole as the arm connections
    - Face handhole perpendicular from arm on single arm poles, perpendicular from the first arm of double arm poles facing away from traffic or see special instructions on the Mast Arm Tabulation Sheet.
    - Provide a 'J' or 'C' hook at the top of the pole for signal wiring support (See Sheet 6)
    - First and Second arm camber angle = 2
    - Bolt holes diameters as follows:
      - Bolts (except Anchor bolts): Bolt diameter plus 1/8" prior to galvanizing.
      - Anchor Bolts: Bolt diameter plus 1/2" (Max).

- Coatings:
  - All Nuts, Bolts, Washers and Threaded Bars/Studs: ASTM F2329
  - All other steel items including plate washers ASTM A123

- Construction:
  - Foundation: Specification 455 Drilled Shaft, except that payment is included in the cost of the Mast Arm.
  - Install Pole vertically.
  - Place structural grout pad with drain between top of foundation and bottom of baseplate in accordance with Specification 649-2.
  - Attach Sign Panels and Signals centered on the elevation of the Mast Arm.
  - Wire Access holes are 1 1/2" or less in diameter.

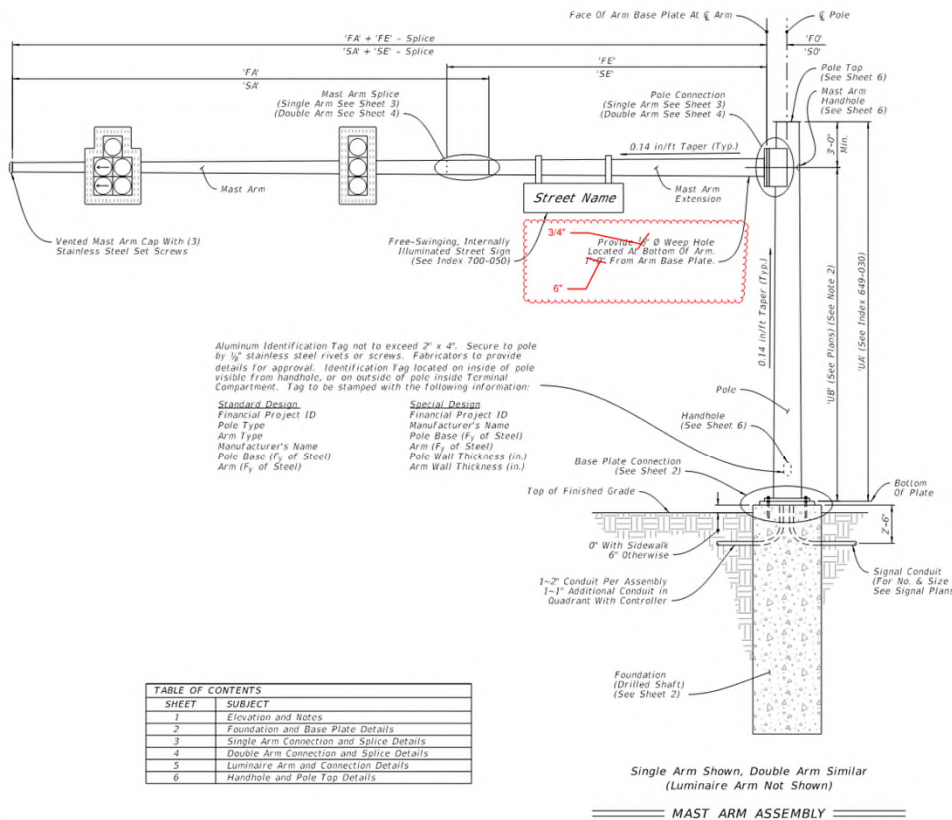


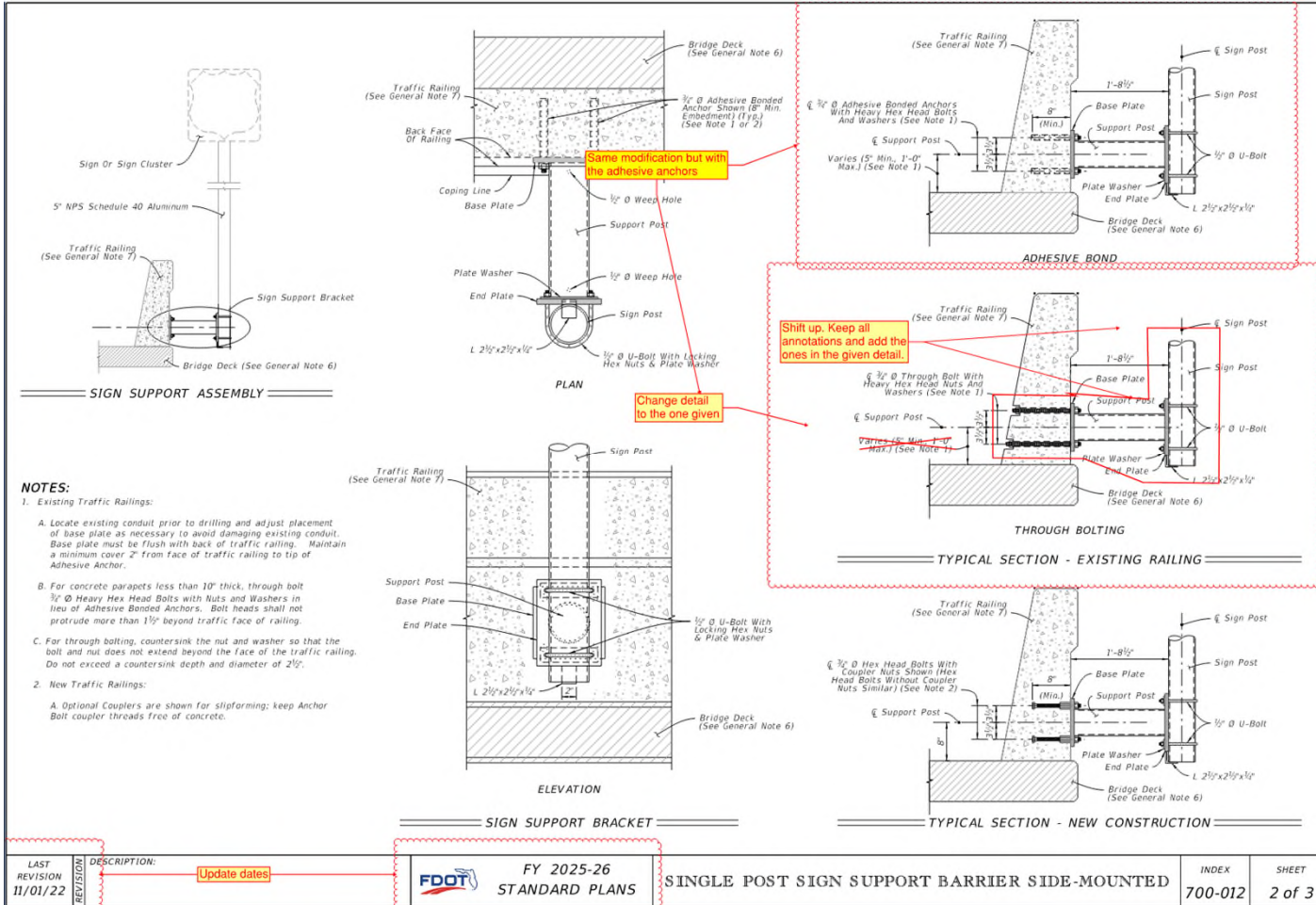
TABLE OF CONTENTS	
SHEET	SUBJECT
1	Elevation and Notes
2	Foundation and Base Plate Details
3	Single Arm Connection and Splice Details
4	Double Arm Connection and Splice Details
5	Luminaire Arm and Connection Details
6	Handhole and Pole Top Details

### ELEVATION AND NOTES

- Revised the location and size of the weep hole

LAST REVISION 11/01/23	DESCRIPTION: <b>Update dates</b>	FDOT FY 2025-26 STANDARD PLANS	MAST ARM ASSEMBLIES	INDEX 649-031	SHEET 1 of 6
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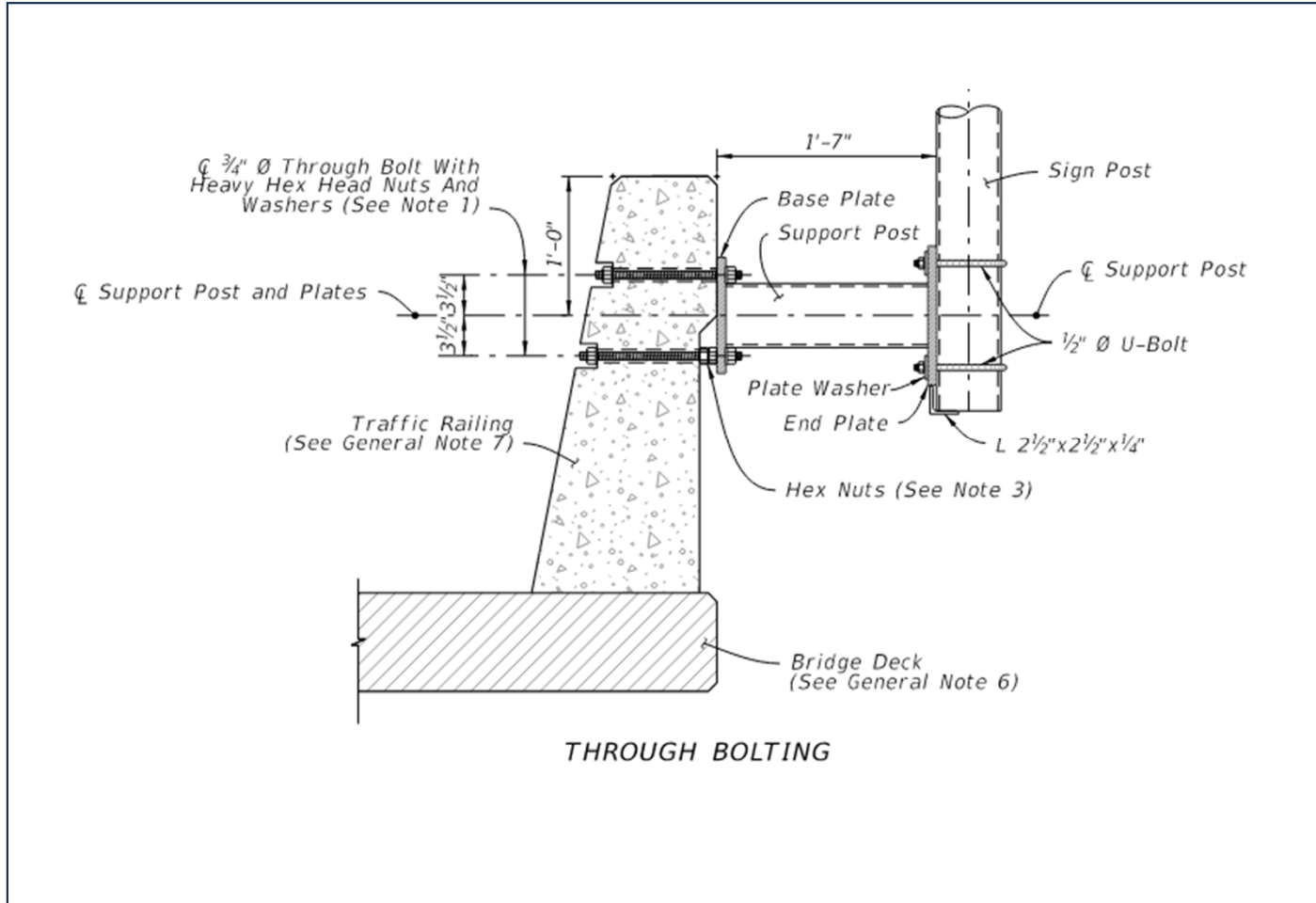
## Sheet 2: Mounting location



- **Raised mounting hardware to avoid conduit**

LAST REVISION 11/01/22	DESCRIPTION: Update dates	FDOT FY 2025-26 STANDARD PLANS	SINGLE POST SIGN SUPPORT BARRIER SIDE-MOUNTED	INDEX 700-012	SHEET 2 of 3
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## Sheet 2: Mounting location



- **Raised mounting hardware to avoid conduit**

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