- 1. Meet the requirements of Specification 700.
- 2. Shop Drawings:

This Index is considered fully detailed. Submit Shop Drawings only for minor modifications not detailed in the Plans.

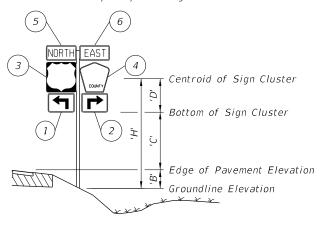
- 3. BREAKAWAY SUPPORTS REQUIREMENTS: Install non-frangible aluminum column (post) (larger than $3^{1/2}$ ") with breakaway supports as shown on Sheet 4. Signs shielded by barrier wall or guardrail do not require breakaway support.
- 4. Aluminum Sign, Wind Beams and Column (Post) Materials:
 - A. Aluminum Plates: ASTM B209, Alloy 6061-T6
 - B. Aluminum Bars and Extruded Shapes: ASTM B221, Alloy 6061-T6
 - C. Aluminum Structural Shapes: ASTM B221 Alloy 6061-T6
 - D. Cast Aluminum: ASTM B26 Alloy A356-T6
- 5. Galvanized Steel Slip Base Stub Materials:

A. Steel Plate and Structural Shapes: ASTM A36 or ASTM A709, Grade 36

- 6. Sign Mounting Bolts, Nuts and Washers:
 - A. Aluminum Button Head and Flat Head Bolts: ASTM F468 Alloy 2024-T4
 - B. Aluminum Hex Nuts: ASTM F467 Alloy 6061-T6 or 6262-T9
- C. Aluminum Washers: ASTM B221, Alloy 7075-T6
- 7. Stainless Steel Bolts, Nuts and Washers may be used in lieu of the Aluminum button head and flat head bolts as follows:
 - A. Stainless Steel Bolts: ASTM Ft 593 Alloy Group 2, Condition A, CW1 or SH1
 - B. Stainless Steel Nuts: ASTM F594
- 8. Sign Column (Post) Bolts, Nuts and Washers:
 - A. Galvanized U-Bolt (Column): ASTM A449 or ASTM A193 B7 according to ASTM F2329 with double nuts (nut and lock washer optional).
 - B .Aluminum Bolts (Sleeve): ASTM F468, Alloy 6061-T6 or 2024-T4 with Hex Nuts F467 6061-T6 or 6262-T9 and Washers B221, Al clad 2024-T4
 - C. Galvanized High Strength Hex Head Bolts (Base Bolts): ASTM F3125, Grade A325, Type 1
 - D. Galvanized Hex Nuts: ASTM A563 Grade D
 - E. Galvanized Washers: ASTM F436
 - F. Galvanized Bolts (Sleeve): ASTM A307 with Galvanized Hex Nuts and Washers

SHEET	CONTENTS
1	General Notes and Design Example
2	Design Example - Centroid
3	Column and Foundation Tables
4	Slip Base and Foundation Details
5	Driven Post, Concrete Stub, and Soil Plate Details
6	Wind Beam Connection
7	Wind Beam Connection for ESU Flip Signs
8	Slam-Latch Detail
9, 10, & 11	Frequently Used Sign Clusters

STEP 1: Calculate the area and the centroid for an individual sign or a sign cluster. Note that the centroid and areas have been calculated for frequently used sign clusters. These are shown on Sheets 7, 8, and 9.



011 3	ii Sheets 7, 6, and 9.											
	Size		Centroid									
	a x h Local		Global 'X _n '	Global 'Yn'	'A'n	'X' _n x 'A' _n	'Y' _n x 'A' _n					
	(in. x in.)	(in.)	(in.)		(in.²)	(in.³)	(in.³)					
1	21 x 15	7.5	-10.5-1.5-1.5 = -13.5	7.5	315	-4,252.5	2,362.5					
2	21 x 15	7.5	10.5+1.5+1.5 = 13.5	7.5	315	+4,252.5	2,362.5					
3	24 x 24	12	-12-1.5 = -13.5	15+1+12 = 28	576	-7,776	16,128					
4	24 x 24	12	12+1.5 = 13.5	15+1+12 = 28	436	5,886	12,208					
5	24 x 12	6	-12-1.5 = -13.5	15+1+24+1+6 = 47	288	-3,888	13,536					
6	24 x 12	6	12+1.5 = 13.5	15+1+24+1+6 = 47	288	3,888	13,536					
·				TOTALS	2,218	-1,890	60,133					

$$\Sigma ('A'_n) = 2.218 \text{ in.}^2 = 15.4 \text{ ft.}^2 \qquad \Sigma ('X'_n \times A'_n)$$

$$\Sigma ('X_{n}' \times 'A_{n}') = -1.890 \text{ in.}^{3} = -1.09 \text{ ft.}^{3}$$

$$\Sigma ('Y_n' \times 'A_n') = 60,133 \text{ in.}^3 = 34.8 \text{ ft.}^3$$

$$'X'_{C} = \frac{\sum \left(\begin{array}{cc} 'X'_{n}X & 'A'_{n} \right)}{\sum {}'A'_{n}} = -0.1 \text{ ft.} \qquad \qquad 'Y'_{C} = \frac{\sum \left(\begin{array}{cc} 'Y'_{n}X & 'A'_{n} \right)}{\sum {}'A'_{n}} = 2.26 \text{ ft.} \end{cases}$$

$$'Y'_C = \frac{\sum ('Y'_n X'A'_n)}{\sum 'A'_n} = 2.26 \text{ ft}$$

STEP 2: Determine the height 'H' from groundline to the centroid of the individual sign or sign cluster

Assume: 'B' = 1 ft., 'C' = 7 ft.

Calculated: $X'_{c} = -0.1 \text{ ft., } 'Y'_{c} = 'D' 2.26 \text{ ft.}$

$$'H' = 'B' + 'C' + 'D' = 10.26 \ ft. ==> \boxed{USE \ 11 \ ft.} \qquad \Sigma \ ('A'_n) = 15.4 \ ft.^2 ==> \boxed{USE \ 16 \ ft.^2}$$

STEP 3: Refer to the Aluminum Column (Post) Selection Tables and find the intersection point. See Sheet 3.

	ALU	MΙΛ	IUM	СО	LUN	1N (POS	ST)	SEL	EC7	TIOI	V T	4BLi	E
						,	H' (F	T)						
		8 ft	9 ft	10 ft	11 ft	12 ft	13 ft	14 ft	15 ft	16 ft	17 ft	18 ft	19 ft	20 ft
	3 sf	2	2.5	2.5	2.5	3	3	3	3	3.5	3.5	3.5	3.5	3.5
	4 sf	2.5	2.5	3	3	3	3	3.5	3.5	3.5	3.5	3.5	3.5	3.5
	5 sf	2.5	3	3	3	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4	4
	6 sf	3	3	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4	4	4
	7 sf	3	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4	4	4	4	4
	8 sf	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4	4	4	4	4	4
	9 sf	3.5	3.5	3.5	3.5	3.5	3.5	4	4	4	4	4	4	4
_	10 sf	3.5	3.5	3.5	3.5	3.5	4	4	4	4	4	4	4.5	4.5
(SF	11 sf	3.5	3.5	3.5	3.5	4	4	4	4	4	4	4.5	4.5	4.5
	12 sf	3.5	3.5	3.5	4	4	4	4	4	4	4	4.5	4.5	4.5
Ā	13 sf	3.5	3.5	4	4	4	4	4	4	4	4.5	4.5	4.5	5
AREA	14 sf	3.5	3.5	4	4	4	4	4	4	4.5	4.5	4.5	5	5
	15 sf	3.5	4	4	4	4	4	4	4.5	4.5	4.5	5	5	5
PANEL	16 sf	3.5	4	4	4	4	4	4	4.5	4.5	5	5	5	6
₹	17 sf	4	4	4	4	4	4	4.5	4.5	4.5	5	5	6	6
9	18 sf	4	4	4	4	4	4.5	4.5	4.5	5	5	5	6	6
7	19 sf	4	4	4	4	4	4.5	4.5	4.5	5	5	6	6	6
TOTAL	20 sf	4	4	4	4	4.5	4.5	4.5	5	5	5	6	6	6
0	21 sf	4	4	4	4	4.5	4.5	5	5	5	6	6	6	6
	22 sf	4	4	4	4.5	4.5	4.5	5	5	6	6	6	6	6
	23 sf	4	4	4	4.5	4.5	5	5	5	6	6	6	6	6
	24 sf	4	4	4.5	4.5	4.5	5	5	6	6	6	6	6	6
	25 sf	4	4	4.5	4.5	5	5	5	6	6	6	6	6	8
	26 sf	4	4.5	4.5	4.5	5	5	5	6	6	6	6	8	8
	27 sf	4	4.5	4.5	4.5	5	5	6	6	6	6	6	8	8
	28 sf	4	4.5	4.5	5	5	5	6	6	6	6	6	8	8
	29 sf	4.5	4.5	4.5	5	5	6	6	6	6	6	8	8	8
	30 sf	4.5	4.5	5	5	5	6	6	6	6	6	8	8	8

For 'H' = 11 ft., Area = 16 ft.²

- Refer to the Aluminum Column (Post) Selection Table, from Sheet 3 and shown here for reference.
- To determine the required post size, find the intersection of the row labeled "16 SF" and the column labeled "11 FT". For the example the intersection value is "4" (4" OD).
- In the Column (Post) and Foundation Table, the value "4" shows the design requires a 4.0" diameter and $\frac{1}{4}$ " thick Aluminum Column (Post) and a 2.0' diameter and 3.5' deep Concrete Foundation and 3.0' Stub.

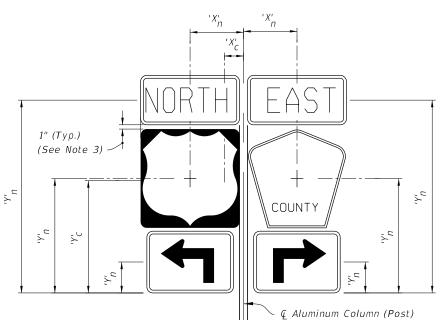
STEP 4: For sign assemblies with signs oriented in two directions, only the sign with the largest area should be analyzed to determine the Column (Post) requirements.

GUIDE TO USE THIS INDEX =

GENERAL NOTES AND DESIGN EXAMPLE

REVISION 11/01/24

DESCRIPTION:



=SIGN CLUSTER===

$${}'X'_C = \frac{\sum \left({}'X'_n \times {}'A'_n \right)}{\sum {}'A'_n}$$

$${}^{\prime}X_{C}^{\prime} = \frac{\sum \left({}^{\prime}X_{D}^{\prime} \times {}^{\prime}A_{D}^{\prime} \right)}{\sum {}^{\prime}A_{D}^{\prime}} \qquad {}^{\prime}C^{\prime} = {}^{\prime}Y_{C}^{\prime} = \frac{\sum \left({}^{\prime}Y_{D}^{\prime} \times {}^{\prime}A_{D}^{\prime} \right)}{\sum {}^{\prime}A_{D}^{\prime}}$$

 $'A'_n = Area of individual sign$

 $^{\prime}B^{\prime}$ = Height of the edge of pavement from the mounting elevation

 ${}^{\prime}C^{\prime}$ = Height of the the bottom of the sign or cluster from the edge of pavement elevation

 $^{\prime}D^{\prime}$ = Height of the centroid of the sign or cluster from the bottom of the sign or cluster

h = Individual sign height

'H' = Height of sign or cluster centroid from groundline

a = Individual sign width

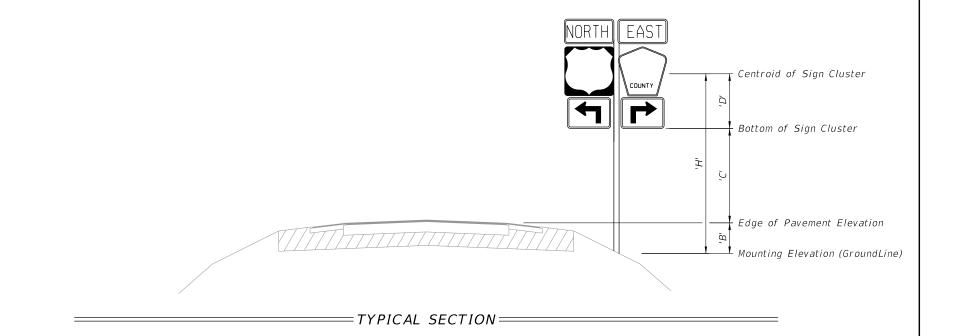
 $'X'_{C} = Centroid\ horizontal\ location\ of\ sign\ or\ cluster\ from\ Q\ Aluminum\ Column\ (Post)$

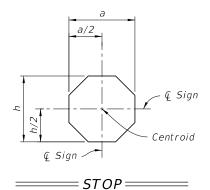
'Y' = Centroid height of sign or cluster from bottom of sign cluster

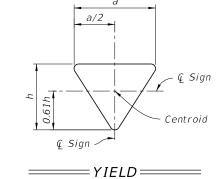
 $'X'_n = Individual \ sign \ centroid \ horizontal \ location \ from \ \ \ Aluminum \ Column \ (Post)$

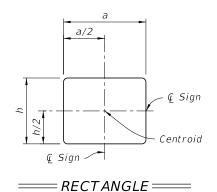
 $'Y'_n = Individual Sign centroid height from bottom of sign cluster$

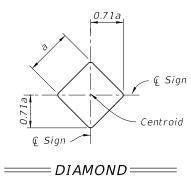
- 1. For 'B' & 'C' see Index 700-101 and Roadway Plans.
- 2. Do not exceed an area of 30 SF or a width of 60 inches for a sign or a sign cluster,
- 3. Vertical sign spacing (1" shown on Sign Cluster detail) also applies to rotated signs.

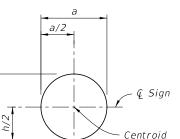




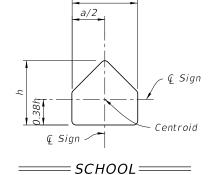


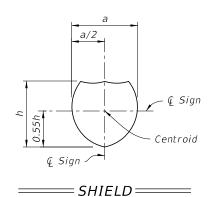


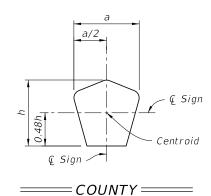




===== RAILROAD







CALCULATION OF SIGN CLUSTER CENTROID

DESIGN EXAMPLE - CENTROID

REVISION 11/01/22

DESCRIPTION:



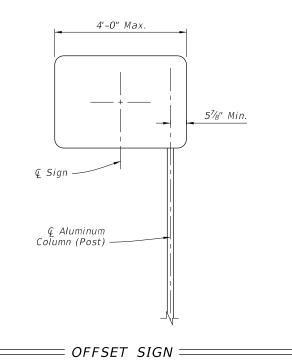
1	

			ALUMINUM COLUMN (POST) SELECTION TABLE (O.D. in.)											
								'H' (FT,)					
		8 ft	9 ft	10 ft	11 ft	12 ft	13 ft	14 ft	15 ft	16 ft	17 ft	18 ft	19 ft	20 ft
	3 sf	2	2.5	2.5	2.5	3	3	3	3	3.5	3.5	3.5	3.5	3.5
	4 sf	2.5	2.5	3	3	3	3	3.5	3.5	3.5	3.5	3.5	3.5	3.5
	5 sf	2.5	3	3	3	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4	4
	6 sf	3	3	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4	4	4
	7 sf	3	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4	4	4	4	4
	8 sf	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4	4	4	4	4	4
	9 sf	3.5	3.5	3.5	3.5	3.5	3.5	4	4	4	4	4	4	4
	10 sf	3.5	3.5	3.5	3.5	3.5	4	4	4	4	4	4	4.5	4.5
	11 sf	3.5	3.5	3.5	3.5	4	4	4	4	4	4	4.5	4.5	4.5
(SF)	12 sf	3.5	3.5	3.5	4	4	4	4	4	4	4	4.5	4.5	4.5
	13 sf	3.5	3.5	4	4	4	4	4	4	4	4.5	4.5	4.5	5
AREA	14 sf	3.5	3.5	4	4	4	4	4	4	4.5	4.5	4.5	5	5
A	15 sf	3.5	4	4	4	4	4	4	4.5	4.5	4.5	5	5	5
ET.	16 sf	3.5	4	4	4	4	4	4	4.5	4.5	5	5	5	6
PANEL	17 sf	4	4	4	4	4	4	4.5	4.5	4.5	5	5	6	6
	18 sf	4	4	4	4	4	4.5	4.5	4.5	5	5	5	6	6
TOTAL	19 sf	4	4	4	4	4	4.5	4.5	4.5	5	5	6	6	6
70	20 sf	4	4	4	4	4.5	4.5	4.5	5	5	5	6	6	6
	21 sf	4	4	4	4	4.5	4.5	5	5	5	6	6	6	6
	22 sf	4	4	4	4.5	4.5	4.5	5	5	6	6	6	6	6
	23 sf	4	4	4	4.5	4.5	5	5	5	6	6	6	6	6
	24 sf	4	4	4.5	4.5	4.5	5	5	6	6	6	6	6	6
	25 sf	4	4	4.5	4.5	5	5	5	6	6	6	6	6	8
	26 sf	4	4.5	4.5	4.5	5	5	5	6	6	6	6	8	8
	27 sf	4	4.5	4.5	4.5	5	5	6	6	6	6	6	8	8
	28 sf	4	4.5	4.5	5	5	5	6	6	6	6	6	8	8
	29 sf	4.5	4.5	4.5	5	5	6	6	6	6	6	8	8	8
	30 sf	4.5	4.5	5	5	5	6	6	6	6	6	8	8	8

	FOUNDATION TABLE											
Column (Post)	Foundation Alternatives										
Size		Driven	Post *	Cond	rete (Class	II)						
Outside	Wall	Embedment Depth (ft)		Diameter	Embedment	Stub						
Diameter (in)	Thk. (in)	without Soil Plate	with Soil Plate	(ft)	Depth (ft)	Length (ft)						
2.0	1/8	4.5	2.5									
2.5	1/8	5.0	3.0									
3.0	1/8	5.0	3.5									
3.5	³ / ₁₆	6.0	4.5									
4.0	1/4			2.0	3.5	3.0						
4.5	1/4			2.0	4.0	3.0						
5.0	1/4			2.0	4.5	3.0						
6.0	1/4			2.0	5.0	3.0						
8.0	1/4			2.0	5.5	3.0						

* INSTALLING FRANGIBLE COLUMN SUPPORTS:

Columns (posts) $3\frac{1}{2}$ " O.D. and less are considered frangible and may be installed either by driving the post or setting the posts in preformed holes. Backfill preformed holes with suitable material tamped in layers not thicker than 6" (to provide adequate compaction) or filled with flowable fill or bagged concrete.



NOTES:

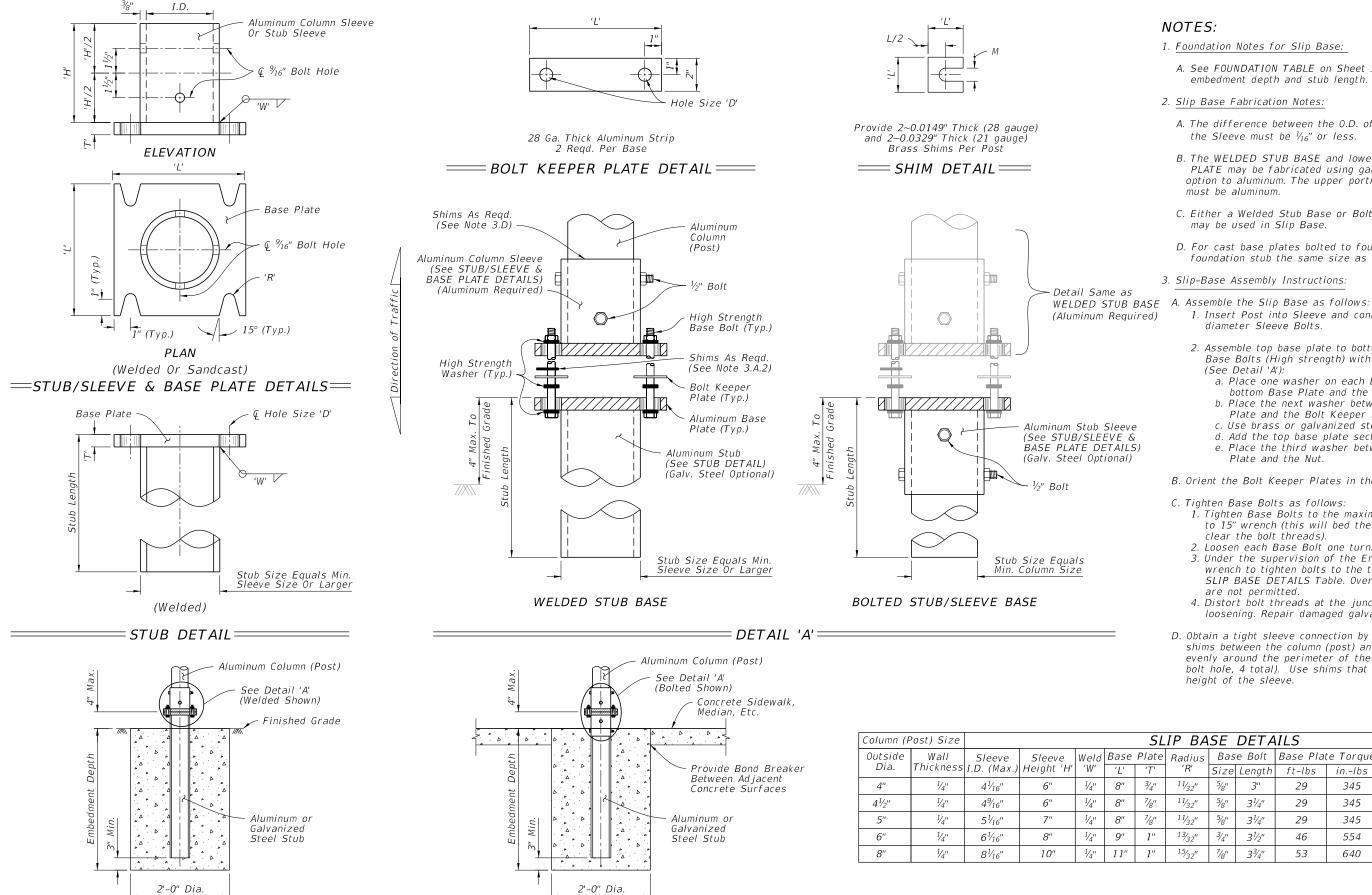
- 1. For offset sign placement see Index 700-101.
- 2. For signs with widths greater than 4' see Index 700-011.
- 3. Offset signs with driven posts require a soil plate.

COLUMN AND FOUNDATION TABLES

LAST O DESCRIPTION:
REVISION IS 11/01/22



FY 2024-25 STANDARD PLANS



■ SLIP BASE AND FOUNDATION DETAIL ■ SLIP BASE AND FOUNDATION DETAIL IN CONCRETE (Non-Frangible Column In Crossovers, Medians & Sidewalks) NOTES:

- 1. Foundation Notes for Slip Base:
 - A. See FOUNDATION TABLE on Sheet 3 for foundation embedment depth and stub length
- 2. Slip Base Fabrication Notes:
 - A. The difference between the O.D. of the post and I.D. of the Sleeve must be $\frac{1}{16}$ " or less.
 - B. The WELDED STUB BASE and lower STUB/SLEEVE BASE PLATE may be fabricated using galvanized steel as an option to aluminum. The upper portion of the SLIP BASE must be aluminum.
 - C. Either a Welded Stub Base or Bolted Stub/Sleeve Base may be used in Slip Base.
 - D. For cast base plates bolted to foundation stubs, use a foundation stub the same size as the sign column (Post).
- 3. Slip-Base Assembly Instructions:
- - 1. Insert Post into Sleeve and connect using $2 \sim \frac{1}{2}$ " diameter Sleeve Bolts.
 - 2. Assemble top base plate to bottom Base Plate using Base Bolts (High strength) with 3 washers per bolt. (See Detail 'A'):
 - a. Place one washer on each Base Bolt between the bottom Base Plate and the Base Bolt head.
 - b. Place the next washer between the Bottom Base Plate and the Bolt Keeper Plate.
 - c. Use brass or galvanized steel shims to plumb the post
 - d. Add the top base plate section.
 - e. Place the third washer between the Top Base Plate and the Nut.
- B. Orient the Bolt Keeper Plates in the Direction of Traffic.
- C. Tighten Base Bolts as follows:
 - 1. Tighten Base Bolts to the maximum possible with a 12" to 15" wrench (this will bed the washers and shims and clear the bolt threads).
 - 2. Loosen each Base Bolt one turn.
 - 3. Under the supervision of the Engineer, use a calibrated wrench to tighten bolts to the torque prescribed in the SLIP BASE DETAILS Table. Over tightened Base Bolts are not permitted.
 - 4. Distort bolt threads at the junction with nuts to prevent loosening. Repair damaged galvanizing.
- D. Obtain a tight sleeve connection by placing 4 galvanized steel shims between the column (post) and sleeve. Space the shims evenly around the perimeter of the column (1 between each bolt hole, 4 total). Use shims that are 1" shorter than the height of the sleeve.

Column (F	Post) Size		SLIP BASE DETAILS											
Outside	Wall	Sleeve			Base	Plate		Bas	e Bolt	Base Plat	te Torque	Hole	SF	НM
Dia.	Inickness	I.D. (Max.)	Height 'H'	'W'	'L'	'T'	'R'	Size	Length	ft-lbs	inIbs	Size 'D'	L	М
4"	1/4"	4½16"	6"	1/4"	8"	3/4"	11/ ₃₂ "	5/8"	3"	29	345	11/16"	1¾"	11/16"
4½"	1/4"	4%16"	6"	1/4"	8"	7/8"	11/ ₃₂ "	5/8"	31/4"	29	345	11/ ₁₆ "	1¾"	11/16"
5"	1/4"	5½16"	7"	1/4"	8"	7/8"	11/ ₃₂ "	5/8"	31/4"	29	345	11/ ₁₆ "	1¾"	¹ 1/ ₁₆ "
6"	1/4"	6½16"	8"	1/4"	9"	1"	13/ ₃₂ "	3/4"	3½"	46	554	¹³ / ₁₆ "	1¾"	¹³ / ₁₆ "
8"	1/4"	8½16"	10"	1/4"	11"	1"	15/32"	7/8"	3¾"	53	640	¹⁵ / ₁₆ "	2¾"	11/16"

SLIP BASE AND FOUNDATION DETAILS

REVISION 11/01/22

(Non-Frangible Column, Typ.)

DESCRIPTION:

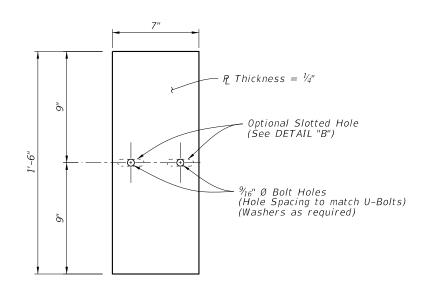
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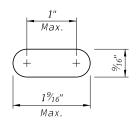
FY 2025-26 STANDARD PLANS

SINGLE COLUMN GROUND SIGNS

INDEX 700-010

SHEET 4 of 11

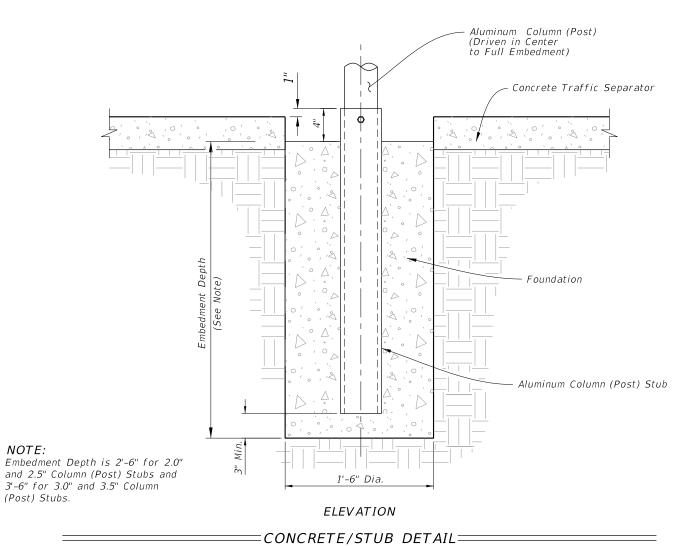




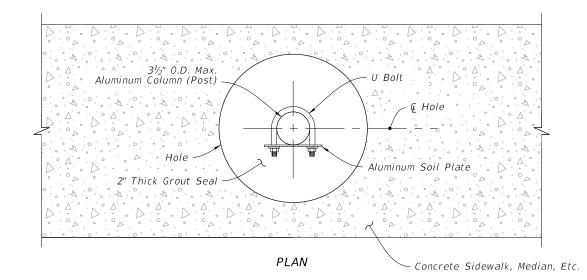
Optional Slotted Holes

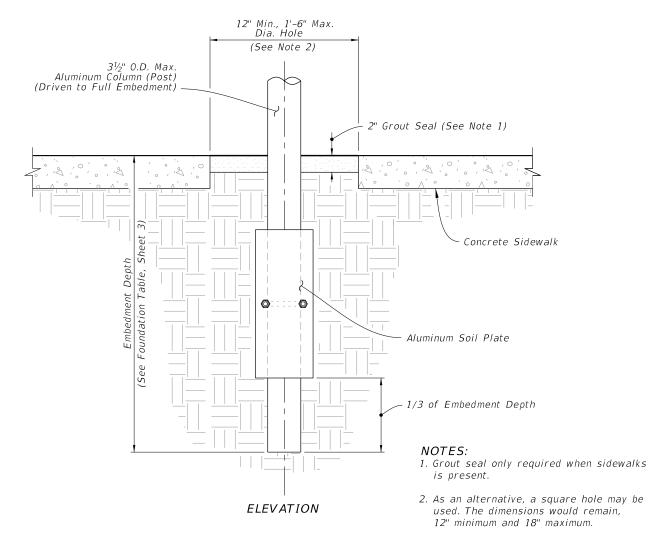
= ALUMINUM SOIL PLATE DETAIL ===

= DETAIL "B" ===



(Traffic Separator)





= DRIVEN POST DETAIL=

(Frangible Post In Through Sidewalk Shown Installations without Sidewalk Similar)

DRIVEN POST, CONCRETE/STUB, AND SOIL PLATE DETAILS

REVISION 11/01/23

DESCRIPTION:

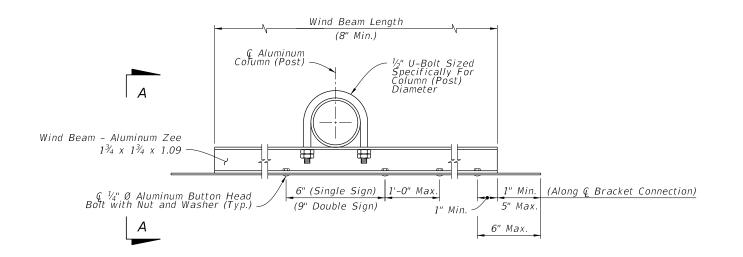
FDOT

FY 2025-26 STANDARD PLANS

SINGLE COLUMN GROUND SIGNS

INDEX

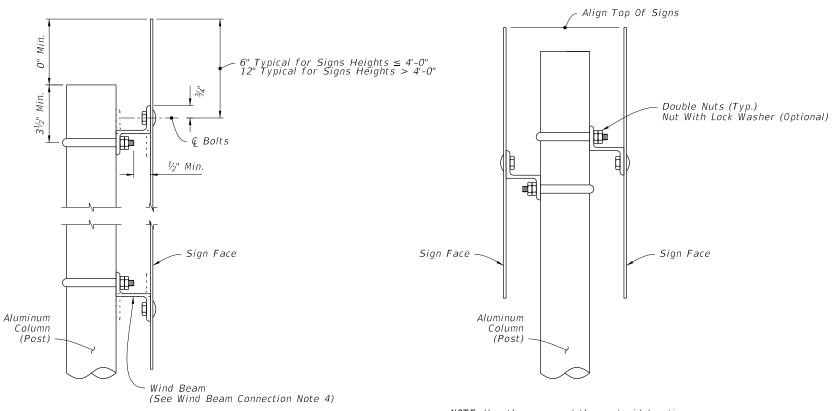
SHEET



WIND BEAM CONNECTIONS DETAILS =

NOTES:

- 1. $\frac{5}{16}$ " Ø stainless steel hex head bolts with nylon washer under head and washer under nut may be used in lieu of $\frac{1}{4}$ " Ø aluminum button or flat head bolts.
- Use nylon washers (provided by the sheeting supplier) under the bolt heads to protect sign sheeting.
- 3. Slots up to 2" long are allowed in wind beams to accommodate U-Bolts for varying Column (Post) diameters.
- 4. Wind beams may be oriented in either direction.
- 5. For signs greater than 66" in height, install a third wind beam evenly spaced between the top and bottom wind beams. For signs up to 12" in height, use only one wind beam at £ Sign. Install two wind beams on signs with heights greater than 12" and less than or equal to 66".



NOTE: Use the area and the centroid location of the largest sign to determine aluminum column (post) size.

BACK-TO-BACK SIGN DETAIL

= VIEW A-A =

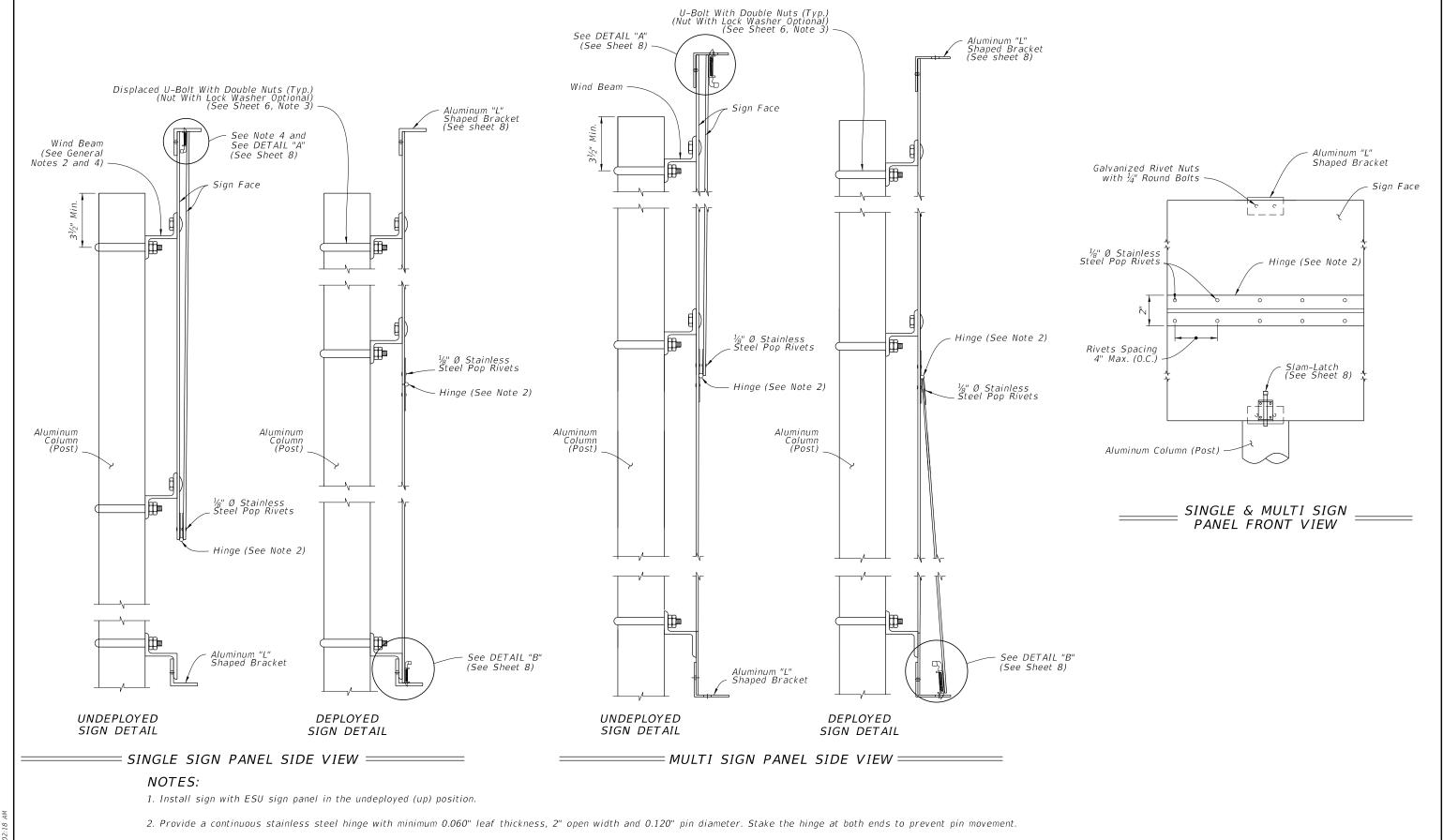
WIND BEAM CONNECTION

LAST REVISION II/01/22

DESCRIPTION:

FDOT

SINGLE SIGN DETAIL



- 3. Install Stainless Steel Spring Loaded Slam-Latch with cover to bottom face of flip sign per manufacturer's recommendations.
- 4. Punch or drill a 3/4" diameter hole in the "L" shaped bracket on site to match location of 1/2" wide slam-latch pin. Remove any burs or sharp edges.
- 5. Multi sign panel assembly only use one of the following approved sign messages, actual sign may need to be scaled: FTP 43-06, FTP 47-06, and FTP 66-21.

WIND BEAM CONNECTION FOR ESU FLIP SIGNS

REVISION 11/01/24

DESCRIPTION:

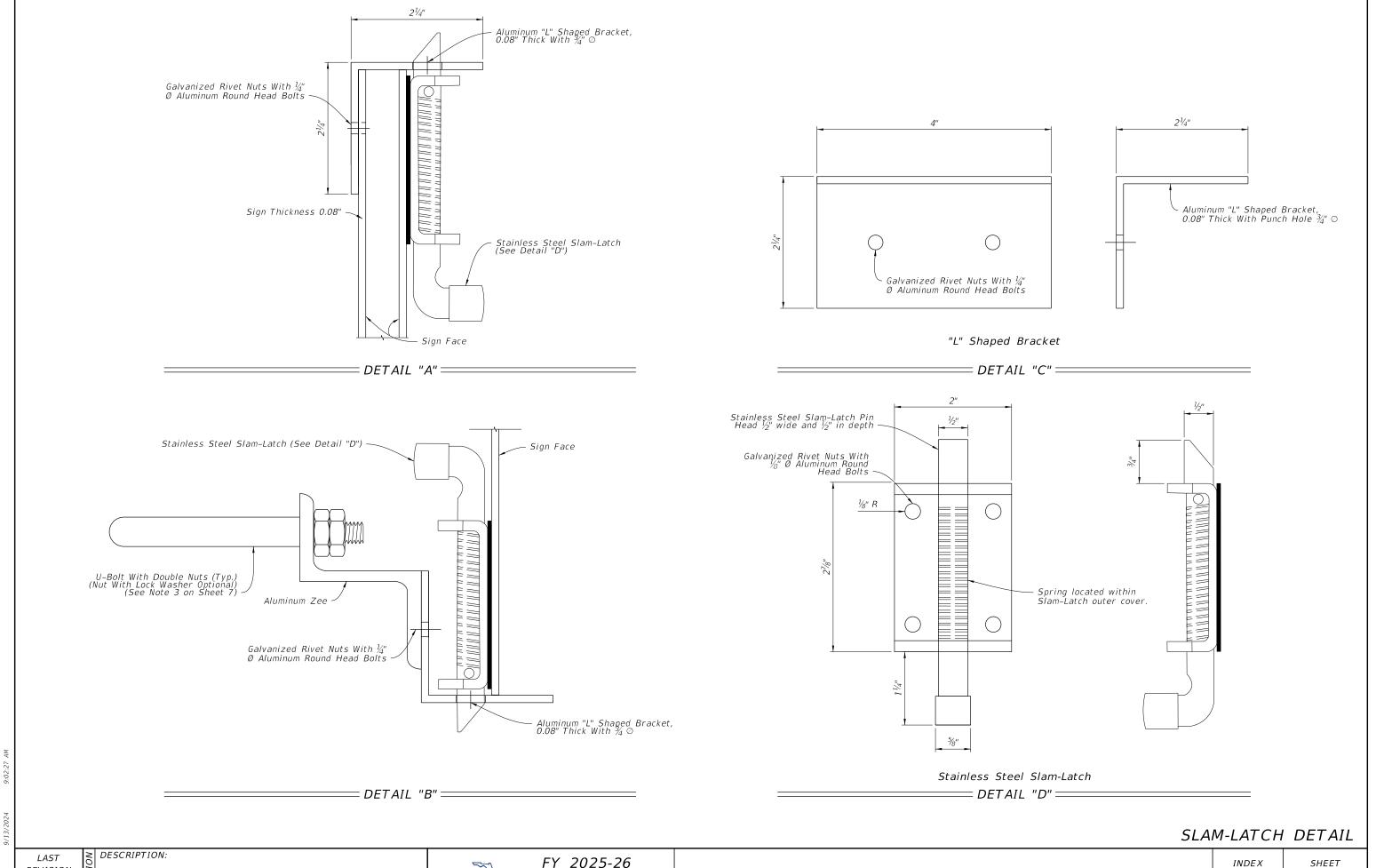
FDOT

FY 2025-26 STANDARD PLANS

SINGLE COLUMN GROUND SIGNS

INDEX SHEET 700-010

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REVISION 11/01/22

FDOT

	Size	Area	Total Area	Centroid
ONE WAY	36×12	3.00 SF		
STOP	24x24	3.31 SF	6.31 SF	1.75 Ft. ——————
	Size	Area	Total Area	Centroid
ONE WAY	36x12	3.00 SF		
STOP	30x30	5.18 SF	8.18 SF	1.92 Ft.
	Size	Area	Total Area	Centroid
ONE WAY	36x12	3.00 SF	. 553. 711 64	Serier ord
THE TRI	JUX 12	J.00 31	10.46 SF	 2.10 Ft.
STOP	36x36	7.46 SF	10.40 3F	2.10 Ft.
	Size	Area	Total Area	Centroid
ONE WAY	36×12	3.00 SF		
			16.25 SF	
STOP	48x48	13.25 SF		
	Size	Area	Total Area	Centroid
STOP	24x24	3.31 SF	6.31 SF	
HIGHWAY	24x18	3.00 SF		
	Size	Area	Total Area	Centroid
STOP	30x30	5.18 SF	10.18 SF	 2.19 Ft.
DIVIDED	30x24	5.00 SF		
	Size	Area	Total Area	Centroid
STOP	36x36	7.46 SF	12.46 SF	
HIGHWAY	30×24	5.00 SF		

	Size	Area	Total Area	Centroid
ONE WAY	36×12	3.00 SF	-	
STOP	30×30	5.18 SF	13.18 SF	 2.87 Ft.
HIGHWAY	30x24	5.00 SF		
	Size	Area	Total Area	Centroid
ONE WAY	36x12	3.00 SF	_	
STOP	36×36	7.46 SF	15.46 SF	 3.15 Ft.
DIVIDED	30×24	5.00 SF		
	Size	Area	Total Area	Centroid
JCT	21x15	2.19 SF	6.19 SF	 1.60 Ft.
27	24x24	4.00 SF		
	Size	Area	Total Area	Centroid
JCT	21x15	2.19 SF	7.19 SF	 1.52 Ft.
301	30x24	5.00 SF		
	Size	Area	Total Area	Centroid
BUSINESS OR EAST	24x12	2.00 SF		
27 27	24x24	4.00 SF	- 6.00 SF	1.53 Ft. ———————
	Size	Area	Total Area	Centroid
BUSINESS OR EAST	24x12	2.00 SF	-	
301 301	30x24	5.00 SF	- 7.00 SF 	1.45 Ft. ———————
	Size	Area	Total Area	Centroid
BUSINESS OR EAST	30×15	3.13 SF		
301 301	30x24	5.00 SF	- 8.13 SF 	1.66 Ft. ——————

	Size	Area	Total Area	Centroid
27	24x24	4.00 SF	6.19 SF	1.73 Ft.
	21x15	2.19 SF		
	Size	Area	Total Area	Centroid
301	30x24	5.00 SF	7.19 SF	1.81 Ft.
(21×15	2.19 SF		
	Size	Area	Total Area	Centroid
BUSINESS OR EAST	24x12	2.00 SF		
27 27	24x24	4.00 SF	8.19 SF	2.26 Ft.
	21x15	2.19 SF		
	Size	Area	Total Area	Centroid
BUSINESS OR EAST	24x12	2.00 SF		
301 301	30x24	5.00 SF	9.19 SF	2.27 Ft.
	21x15	2.19 SF		
	Size	Area	Total Area	Centroid
BUSINESS EAST	30x15	3.13 SF		
301 ^{OR} 301	30x24	5.00 SF	10.32 SF	2.49 Ft.
	21×15	2.19 SF		
	Size	Area	Total Area	Centroid
EAST	24×12	2.00 SF		
BUSINESS	24x12	2.00 SF] 	
27	24x24	4.00 SF	10.19 SF	2.80 Ft. - — — — — —
	21×15	2.19 SF		

LAST REVISION 11/01/23 ≥ DESCRIPTION:

FDOT

	C:		T	
	Size	Area	Total Area	Centroid
EAST	24×12	2.00 SF		
BUSINESS	24x12	2.00 SF		
301	30x24	5.00 SF	11.19 SF	2.76 Ft.
-	21x15	2.19 SF		
	Size	Area	Total Area	Centroid
EAST	30×15	3.13 SF		
BUSINESS	30×15	3.13 SF		
301	30×24	5.00 SF	13.45 SF	3.16 Ft.
	21x15	2.19 SF	-	
	Size	Area	Total Area	Centroid
JCT	21×15	2.19 SF		
LEON 56 COUNTY	18×18	1.71 SF	3.90 SF 	1.57 Ft.
	Size	Area	Total Area	Centroid
JCT	21×15	2.19 SF	_	
LEON 56 COUNTY	24x24	3.03 SF	5.22 SF	1.72 Ft.
	Size	Area	Total Area	Centroid
JCT	21×15	2.19 SF	6.05.65	1.07.5
LEON 56 COUNTY	30×30	4.76 SF	6.95 SF	1.87 Ft. - — — — — —
1	1	1	1	

	Size	Area	Total Area	Centroid
LEON 56 COUNTY	18×18	1.71 SF	3.90 SF	 1.26 Ft.
	21×15	2.19 SF		
	Size	Area	Total Area	Centroid
LEON 56 COUNTY	24×24	3.03 SF	5.22 SF	 1.62 Ft.
-	21x15	2.19 SF		
	Size	Area	Total Area	Centroid
LEON 56 COUNTY	30×30	4.76 SF	6.95 SF	
—	21×15	2.19 SF		
	Size	Area	Total Area	Centroid
ТО	24×12	2.00 SF		
EAST	24×12	2.00 SF		
NTERSTATE 75	24×24	3.20 SF	9.39 SF	2.87 Ft.
	21x15	2.19 SF		
	Size	Area	Total Area	Centroid
ТО	24×12	2.00 SF		
EAST	24×12	2.00 SF		
NTERSTATE 295	30x24	3.99 SF	10.18 SF	2.84 Ft.
-	21×15	2.19 SF		

	Size	Area	Total Area	Centroid
ТО	30x15	3.13 SF		
EAST	30x15	3.13 SF		
NTERSTATE 295	30x24	3.99 SF	12.44 SF	 3.26 Ft.
	21x15	2.19 SF		
	Size	Area	Total Area	Centroid
JCT	21x15	2.19 SF	5.39 SF	 1.75 Ft.
NTERSTATE 75	24x24	3.20 SF		
	Size	Area	Total Area	Centroid
JCT	21x15	2.19 SF	6.18 SF	
NTERSTATE 295	30×24	3.99 SF		
	Size	Area	Total Area	Centroid
EAST TO	24x12	2.00 SF	1	
75 OR NITERSTATE 75	24x24	3.20 SF	5.20 SF	1.67 Ft. ——————
	Size	Area	Total Area	Centroid
EAST TO	24x12	2.00 SF		
NTERSTATE OR NTERSTATE 295	30x24	3.99 SF	5.99 SF	1.60 Ft. ——————
	Size	Area	Total Area	Centroid
EAST TO	30x15	3.13 SF		
NTERSTATE OR NTERSTATE 295	30x24	3.99 SF	7.12 SF	1.81 Ft. ——————
	Size	Area	Total Area	Centroid
EAST TO	30×15	3.13 SF	1	
OR INTERSTATE 75	36x36	7.20 SF	10.33 SF	2.27 Ft.

≥ DESCRIPTION: LAST REVISION 11/01/22



	Size	Area	Total Area	Centroid
EAST TO	30×15	3.13 SF	 	
NTERSTATE 295	45x36	8.99 SF	- 12.12 SF 	2.18 Ft.
	Size	Area	Total Area	Centroid
EAST TO	24x12	2.00 SF		
75 INTERSTATE 75	24x24	3.20 SF	7.39 SF	2.30 Ft.
	21x15	2.19 SF		
	Size	Area	Total Area	Centroid
EAST TO	24x12	2.00 SF		
NTERSTATE 295	30x24	3.99 SF	8.18 SF	2.31 Ft.
	21x15	2.19 SF		
	Size	Area	Total Area	Centroid
EAST TO	30x15	3.13 SF		
NIERSTATE 295	30x24	3.99 SF	9.31 SF	2.55 Ft.
→	21x15	2.19 SF		
	Size	Area	Total Area	Centroid
OR KA	30×30	4.69 SF	6.69 SF	1.61 Ft.
AHEAD 200 FT	24x12	2.00 SF		
	Size	Area	Total Area	Centroid
AR AR	30×30	4.69 SF	8.44 SF	1.77 Ft.
AHEAD 200 FT	30x18	3.75 SF		
	Size	Area	Total Area	Centroid
AR AR	36x36	6.75 SF	10.50 SF	2.06 Ft.
AHEAD 200 FT	30x18	3.75 SF		

	Size	Area	Total Area	Centroid
(A)	30X30	4.69 SF	6.69 SF	1.61 Ft.
	24X12	2.00 SF		
	Size	Area	Total Area	Centroid
	30X30	4.69 SF	8.44 SF	1.77 Ft.
	30X18	3.75 SF		
	Size	Area	Total Area	Centroid
i	36X36	6.75 SF	10.50 SF	2.06 Ft.
	30X18	3.75 SF		
	Size	Area	Total Area	Centroid
OR OR	30X30	6.25 SF	8.25 SF	2.28 Ft.
AHEAD	24X12	2.00 SF		
	Size	Area	Total Area	Centroid
OR OR	36X36	9.00 SF	12.75 SF	2.84 Ft.
AHEAD	30X18	3.75 SF		
	Size	Area	Total Area	Centroid
	30X30	6.25 SF	10.25 SF	2.74 Ft.
35 MPH	24X24	4.00 SF		
	Size	Area	Total Area	Centroid
\Diamond	36X36	9.00 SF	15.25 SF	3.29 Ft.
35 MPH	30X30	6.25 SF		

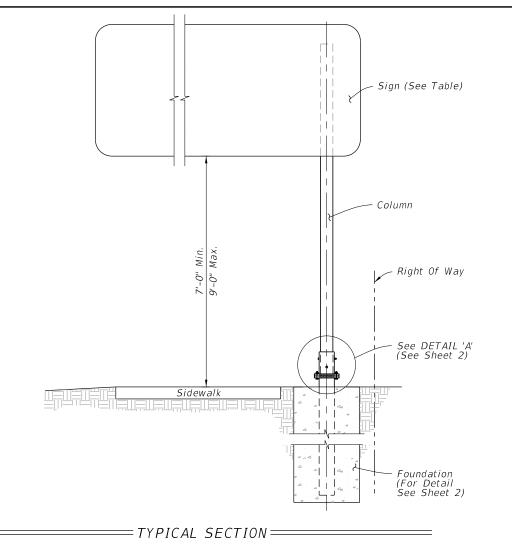
	Size	Area	Total Area	Centroid
\wedge	30X30	6.25 SF		
OR V			9.25 SF	2.51 Ft.
X XXX FEET	24X18	3.00 SF	_	
	Size	Area	Total Area	Centroid
OR OR	36X36	9.00 SF	14.00 SF	3.06 Ft.
X MILES FEET	30X24	5.00 SF		

LAST REVISION 11/01/22

≥ DESCRIPTION:

FDOT





SIGN DETAIL=

DESCRIPTION:

REVISION

11/01/23

GENERAL NOTES:

- 1. Work with Index 700-010 for additional notes and the assembly of base connection.
- 2. Meet the requirements of Specification 700.
- 3. Place galvanized steel shims between the Sleeve and Post to obtain a tight fit between the Post and Sleeve.
- 4. Wind Beam and Vertical Brace: Aluminum Z 3 x 2^{11} / $_{16}$ x 3.38. Install Vertical Brace on 7'-0" to 8'-0" signs only.
- 5. Use Brass shims to plumb the post.
- 6. Use nylon washers under the button bolt heads to protect sign sheeting. Use aluminum washers under nut.
- 7. Aluminum Columns: ASTM B429 Alloy 6061-T6.

COLUMN SELECTION AND FOOTING SIZE TABLE								
Sign Size Width x Height	Column Size Diameter x Thickness	Sleeve Size Diameter x Thickness	U-bolt Diameter	Base Bolt Diameter x Length	Torque Ibs./in	Base Plate Thickness	Footing Depth	
5'-0" x 4'-0" 6'-0" x 4'-0"	4 NPS Schedule 80 (4.5" x 0.337")	5 NPS Schedule 120 (5.563" x 0.5")	1/2"	5/8" x 3½"	270 ½ 45	1"	6'-0"	
7'-0" x 4'-0" 8'-0" x 4'-0"	5 NPS Schedule 80 (5.563" x 0.375")	6 NPS Schedule 80 (6.625" x 0.432")	5/8"	³ / ₄ " x 4"	445 ^{+/} - 75	11/8"	6'-6" 7'-0"	

==== SECTION B-B===

SINGLE COLUMN CANTILEVER

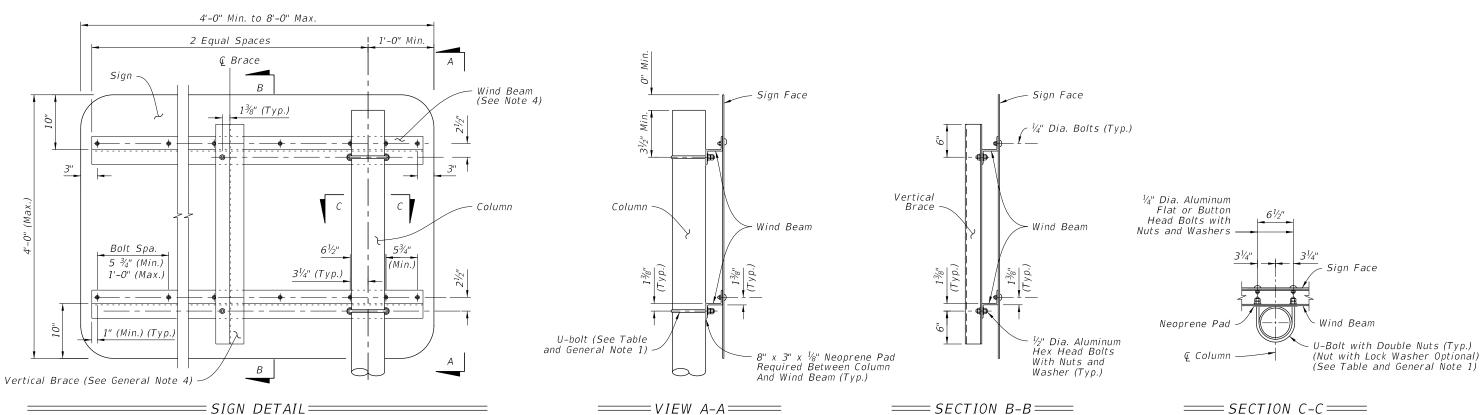
GROUND MOUNTED SIGN

INDEX

700-011

SHEET

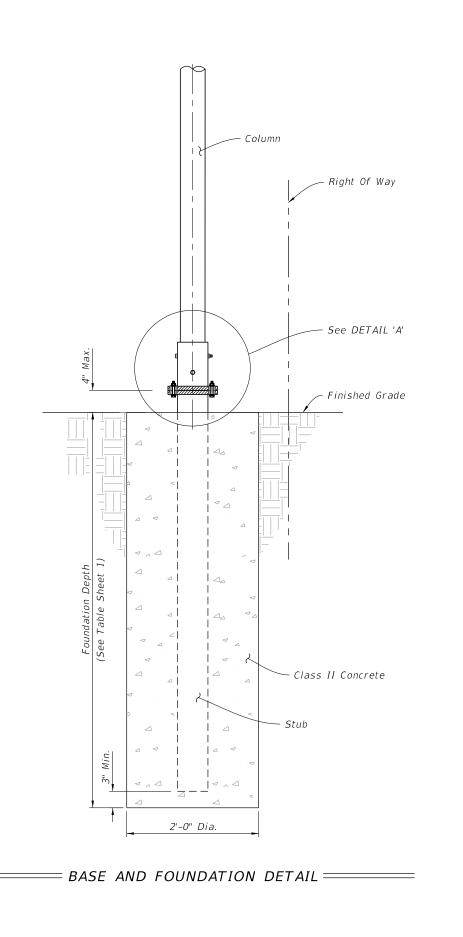
1 of 2

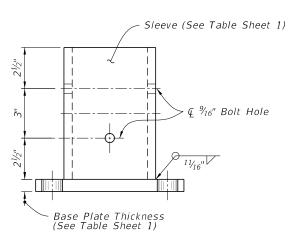


FY 2025-26

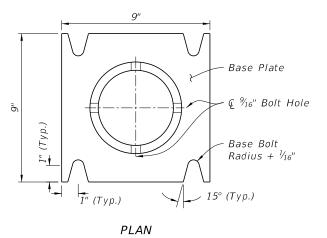
STANDARD PLANS

FDOT

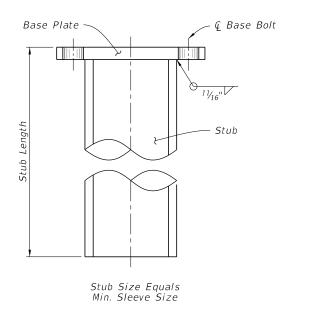


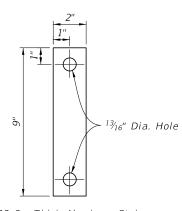


ELEVATION



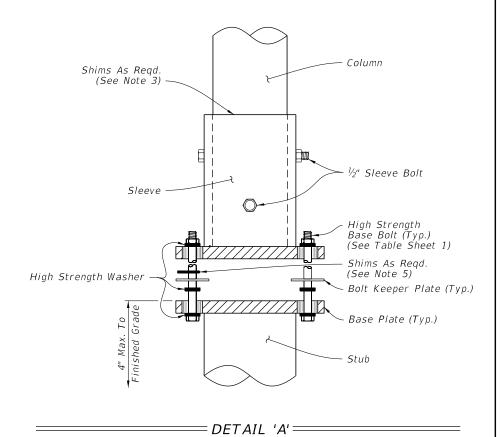
= SLEEVE & BASE PLATE DETAILS =





28 Ga. Thick Aluminum Strip 2 Required Per Base

BOLT KEEPER PLATE DETAIL



STUB DETAIL

DESCRIPTION:

FDOT

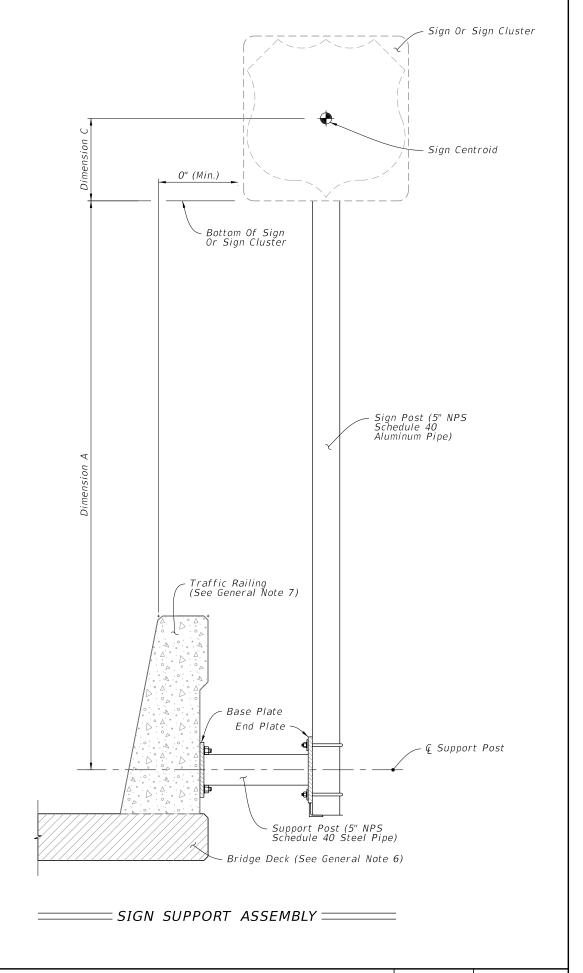
REVISION 11/01/21

- 3. Shop Drawings: Not required.
- 4. Construction:
- A. Locate Sign Support a minimum of 5 feet from an open joint or transition (sign stationing may be adjusted to accommodate this requirement.
- B. Base plate must be flush with back of Traffic Railing
- C. Anchors in Traffic Railings:
- a. Install Adhesive Anchors in accordance with Specification 416 except perform field test on one anchor per sign support location.
- b. Use templates and tie anchors as necessary to maintain correct placement of C-I-P Embedded Anchors c. Do not drill into existing conduit
- D. Temporary Signs on Permanent Traffic Railings: Same as Permanent except Field testing of anchors is not required
- 5. Removal of Temporary Signs on Permanent Traffic Railings:
- A. Cut anchor rods flush with the top of the traffic railing
- B. Coat anchors with Type F-1 epoxy to prevent corrosion
- a. Extend coating 2 inches beyond edge of cut anchor rods
- b. Epoxy coating 1/16" thick minimum
- 6. Bridge deck shown. Approach slabs, junction slabs, and miscellaneous structures are similar.
- 7. Traffic railings are shown. Concrete barriers and parapets are similar.
- 8. Materials:
- A. Steel Plate: ASTM A36 or ASTM A709 Grade 36
- B. Steel Pipe (Support Post): ASTM A501 Schedule 40
- C. Aluminum Pipe: ASTM B429 Alloy 6061-T6
- D. Galvanized U-Bolts, Nuts and Plate Washer a. U-Bolts: ASTM A449
- b. Hex Nuts: ASTM A 563 Lock Nuts
- c. Plate Washer: ASTM A 36 or ASTM A709 Grade 36 or 50
- E. Galvanized Anchor bolts, Nuts and Washers:
- a. Anchor Rod: ASTM F1554 Grade 55 fully threaded (for Adhesive Anchors)
- b. Anchor Bolts: ASTM F1554 Grade 55 Grade A Hex
- c. Nuts: ASTM A563 Heavy Hex Locking
- d. Washers: ASTM F436

SIGN LIMITATIONS TABLE					
MAX. SIGN AREA MAX. SIGN CENTROID HEIGHT (SF) (DIM. A + DIM. C)					
25	9'-7"				

Dimension A = Distance from centerline of the Support Post to the bottom of the sign or sign cluster.

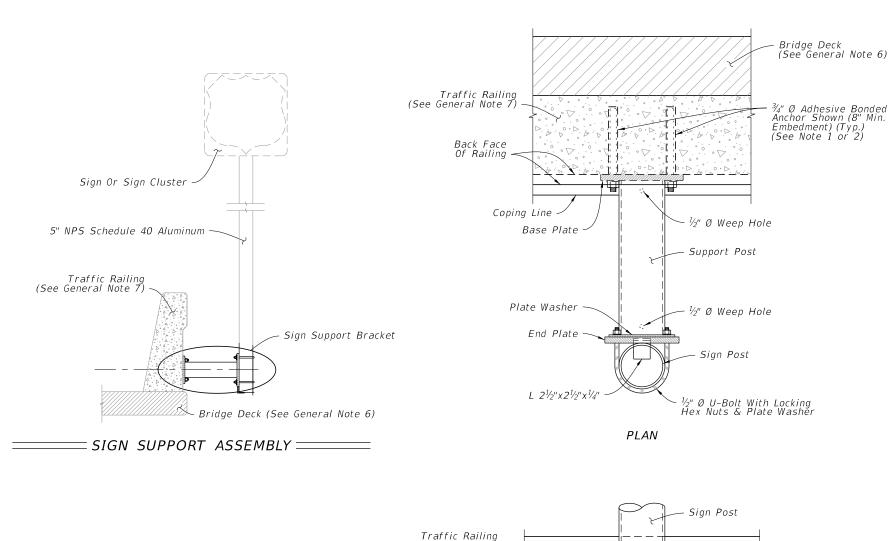
Dimension C = Vertical distance from the bottom of the sign or sign cluster to the Centroid of the sign or sign cluster.



REVISION 11/01/22

FDOT

DESCRIPTION:

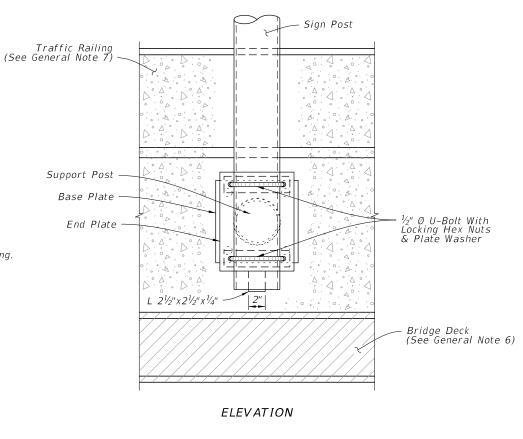




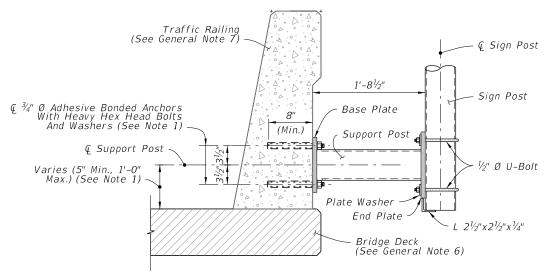
- 1. Existing Traffic Railings:
 - A. Locate existing conduit prior to drilling and adjust placement of base plate as necessary to avoid damaging existing conduit. Base plate must be flush with back of traffic railing. Maintain a minimum cover 2" from face of traffic railing to tip of Adhesive Anchor.
 - B. For concrete parapets less than 10" thick, through bolt 3/4" Ø Heavy Hex Head Bolts with Nuts and Washers in lieu of Adhesive Bonded Anchors. Bolt heads shall not protrude more than $1\frac{1}{2}$ " beyond traffic face of railing.
- C. For through bolting, countersink the nut and washer so that the bolt and nut does not extend beyond the face of the traffic railing. Do not exceed a countersink depth and diameter of $2\frac{1}{2}$ ".
- 2. New Traffic Railings:

DESCRIPTION:

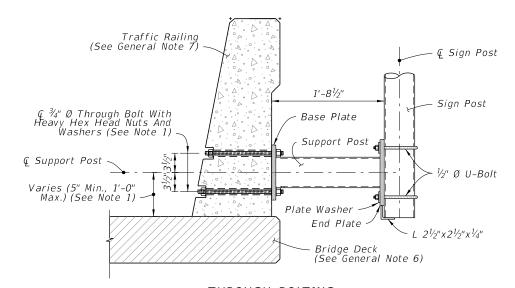
A. Optional Couplers are shown for slipforming; keep Anchor Bolt coupler threads free of concrete.



SIGN SUPPORT BRACKET =

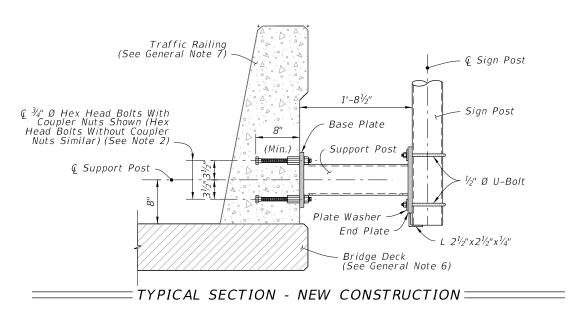


ADHESIVE BOND



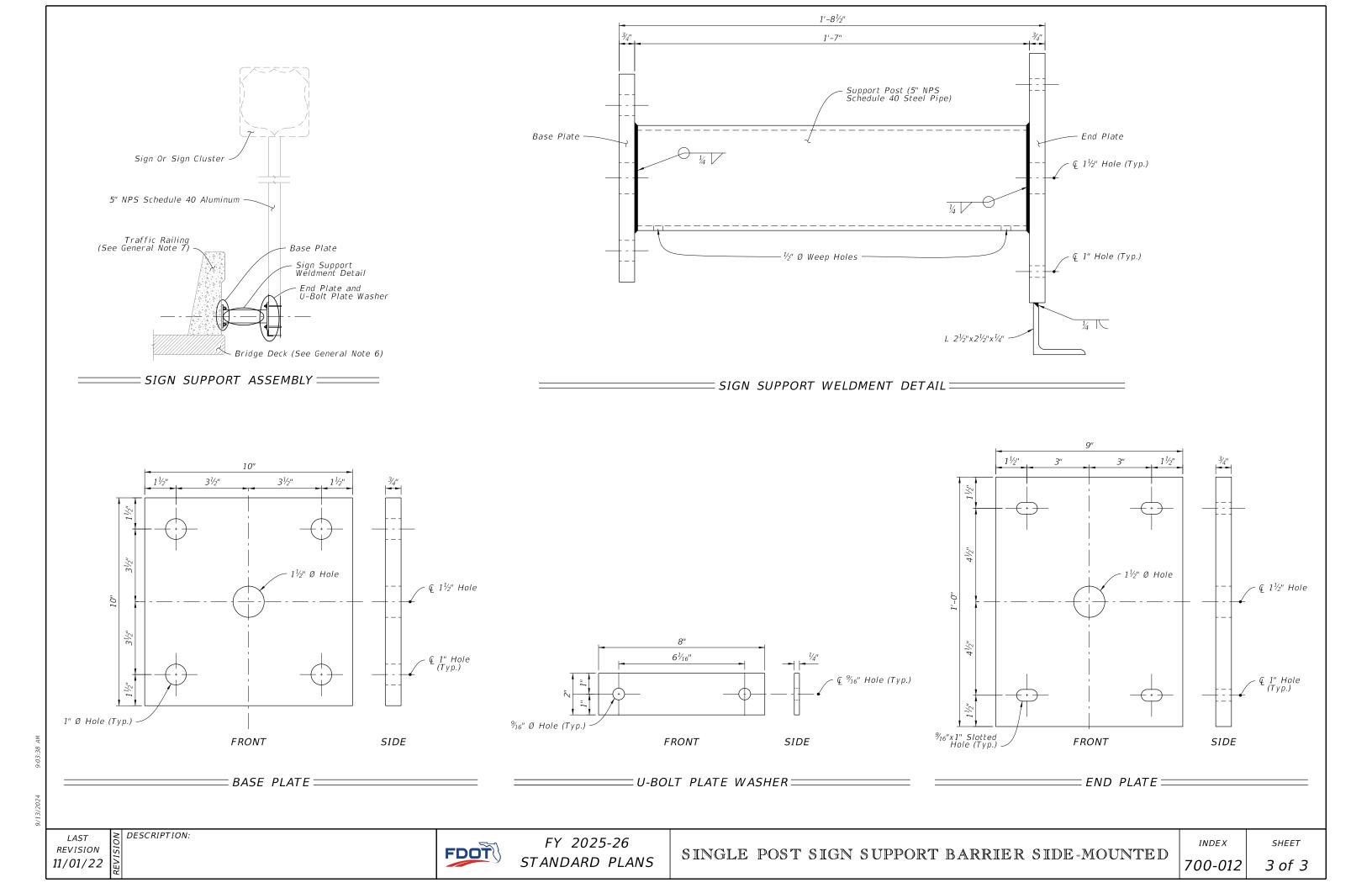
THROUGH BOLTING

TYPICAL SECTION - EXISTING RAILING



REVISION 11/01/22





2. Work with Index 700-010.

3. Shop Drawings: Not required.

4. Construction:

A. Locate Sign Support a minimum of 5 feet from an open joint or transition (sign stationing may be adjusted to accommodate this requirement

B. Base plate must be flush with top of Railing

C. Anchors in Traffic Railings:

a. Install Adhesive Anchors in accordance with Specification 416 except perform

field test on one anchor per sign support location b. Use template and tie anchors as necessary to maintain correct placement of C-I-P Embedded Anchors

c. Do not drill into existing reinforcing

D. Temporary Signs on Permanent Traffic Railings, Same as Permanent except field testing of anchors is not required

E. Temporary Signs on Temporary Railings/Barriers:
a. Install Sign Supports at the midpoint along the length of a single segment
b. Avoid drilling through existing reinforcement; use of metal detector not required.

c. Field testing of anchors is not required

5. Removal of Temporary Signs on Permanent Traffic Railings:

A. Cut anchor rods flush with the top of the railing

B. Coat anchors with Type F-1 epoxy to prevent corrosion a. Extend coating 2 inches beyond edge of cut anchor rods

b. Epoxy coating 1/16" thick minimum

6. Materials:

A. Steel Plate: ASTM A36 or ASTM A709 Grade 36 B. Steel Pipe (Support Post): ASTM A53 Grade B Schedule 40 C. Galvanized U-Bolts, Nuts and Plate Washer

a. U-Bolts: ASTM A449

b. Hex Nuts: ASTM A 563 Lock Nuts

c. Plate Washer: ASTM A 36 or ASTM A709 Grade 36 or 50

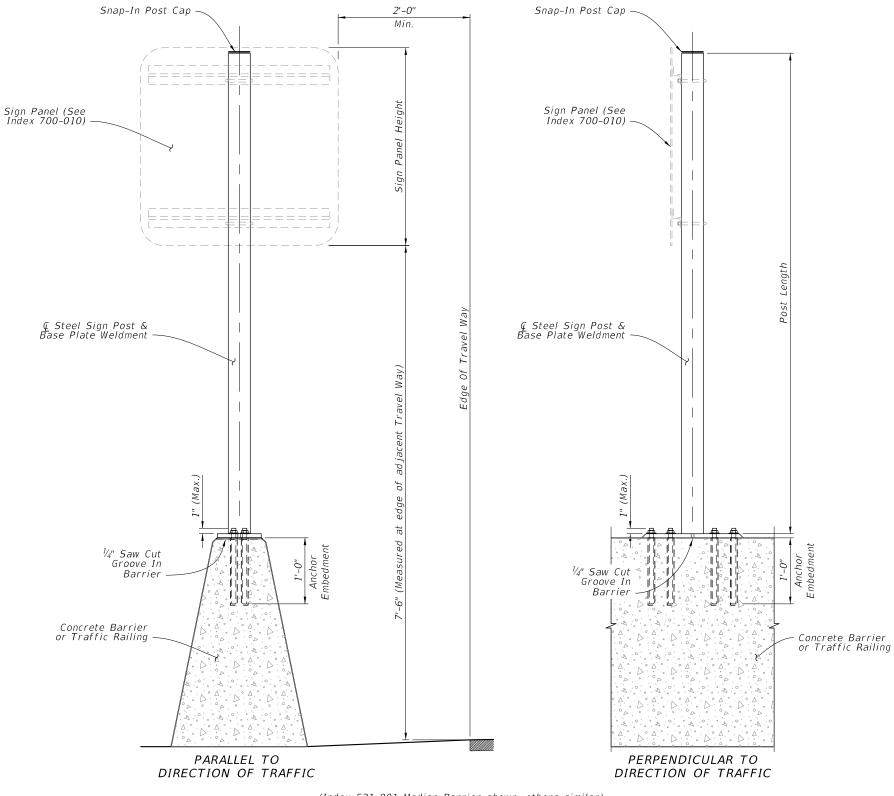
D. Galvanized Anchor Bolts, Nuts and Washers:

a. Anchor Rod: ASTM F1554 Grade 55 fully threaded (for Adhesive Anchors)

b. Anchor Bolts: ASTM F1554 Grade 55 Grade A Hex c. Nuts: ASTM A563 Heavy Hex Locking

d. Washers: ASTM F436

TABLE 1 - SIGN PANEL AND POST SIZING					
	Max. Sign Area (SF)	Post (NPS)			
Temporary Signs	≤ 24	3.0			
Bormanont Ciana	< 13.5	3.0			
Permanent Signs	13.5 < Sign < 20	3.5			



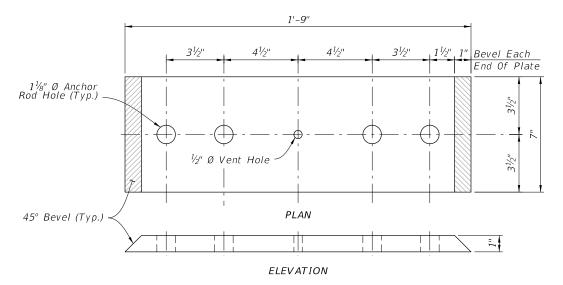
(Index 521-001 Median Barrier shown; others similar)

ELEVATION:

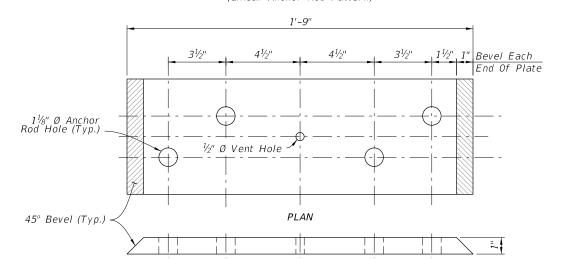
REVISION 11/01/22

FDOT

FY 2025-26 STANDARD PLANS

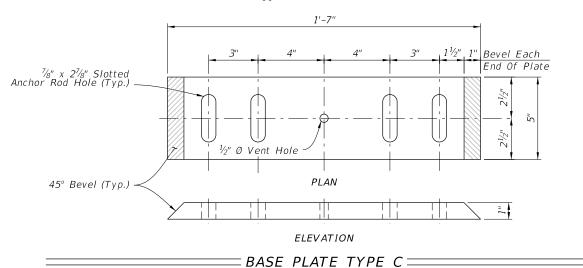


BASE PLATE TYPE A: (Linear Anchor Rod Pattern)



ELEVATION

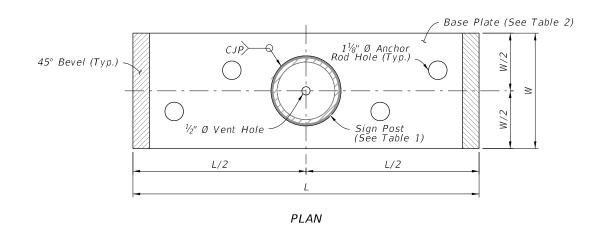
BASE PLATE TYPE B (Staggered Anchor Rod Pattern)

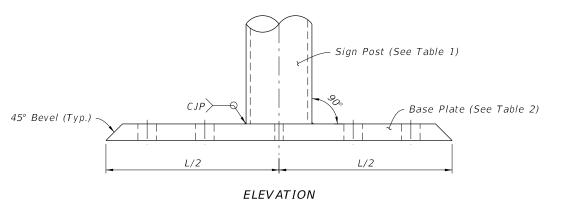


NOTES:

- 1. Place anchor rods in a staggered or linear pattern as necessary to avoid reinforcing.
- 2. Use a staggered pattern for all temporary barriers.

TABLE 2 - BASE PLATE TYPE AND ANCHOR ROD SIZING					
Index	Type/Application	Base Plate Type	Anchor Rod Ø		
521-001	Full Wall	В	1"		
521-001	Cantilever or L-Wall	Α	Ι		
All listed above Plus 102-110 & 102-100	Temporary Signs	С	3/4"		





 \equiv SIGN SUPPORT WELDMENT DETAIL \equiv (Staggered Anchor Rod Pattern shown)

REVISION 11/01/22

DESCRIPTION:

FDOT

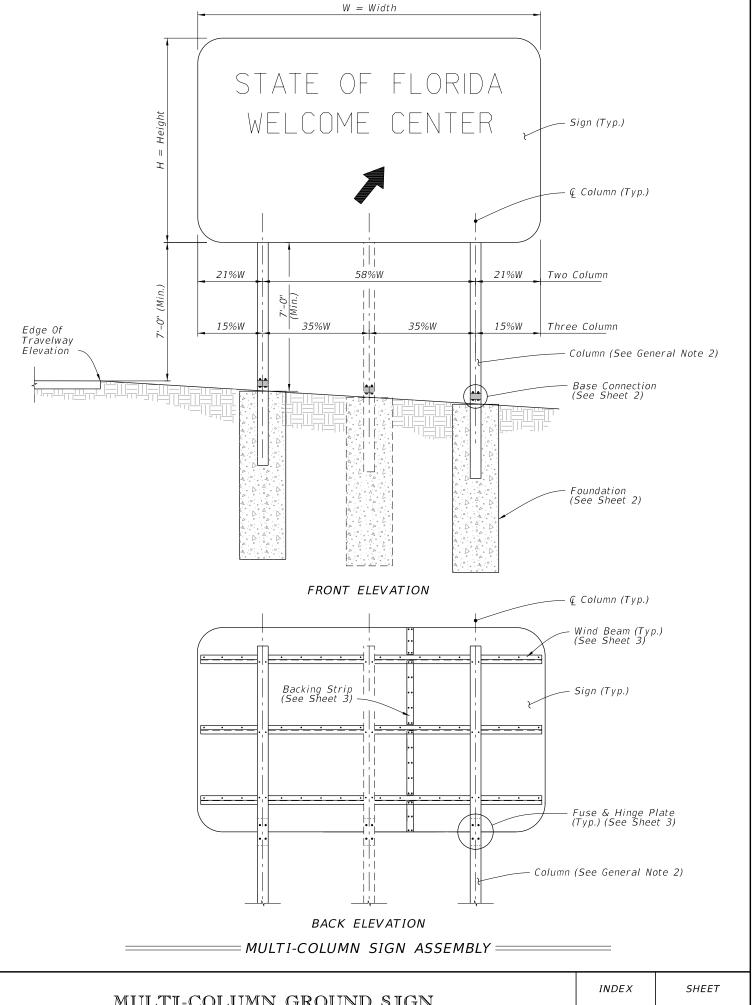
FY 2025-26 STANDARD PLANS

INDEX 700-013

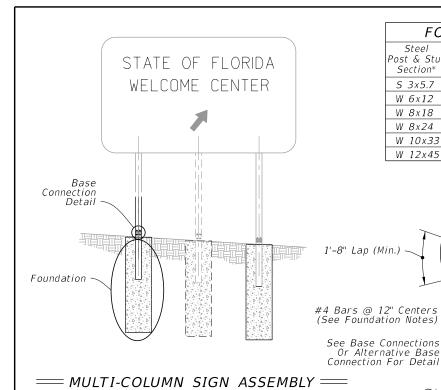
SHEET

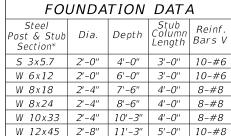
GENERAL NOTES:

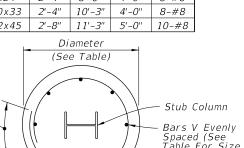
- 1. Meet the requirements of Specification 700.
- 2. Verify Column lengths in the field prior to fabrication.
- 3. Shop drawings:
- A. Sign Support Shop drawings are not required when fabricated in accordance with this Index and support columns do not exceed the width ("W") shown in the plans by more than 2'-0".
- B. Sign Panels: Horizontal panel splices are allowed at interior wind beams for sign panels with a height ("H") greater than 10 feet. Shop drawings required for horizontal panel splice details.
- C. When shop drawings are required, obtain approval prior to fabrication.
- 4. Materials:
- A. Sign Panel Mounting Materials:
 - a. Aluminum Bars, and Extruded Shapes: ASTM B221, Alloy 6061-T6 or Alloy 6351-T5
 - b. Aluminum Structural Shapes: ASTM B221, Alloy 6061-T6
- B. Sign Support Structure Materials:
 - a. Steel Plates and Structural Shapes: ASTM A36 or ASTM A709, Grade 36
 - b. Steel Weld Metal: E70XX
- c. Shims: Brass ASTM B36 or Galvanized Steel
- C. Aluminum Bolts, Nuts and Washers:
 - a. Flat Head and Button Head Bolts: ASTM F 468, Alloy 2024-T4
 - b. Hex Nuts: ASTM F467, 2024-T4
 - c. Washers: ASTM B221, Alloy 2024-T4
- D. Stainless Steel Bolts, Nuts and Washers Alloy Group 2, Condition A, may be substituted for the Aluminum bolts as follows:
 - a. Bolts: ASTM F593, CW1 or SH1
 - b. Nuts: ASTM F594,
- E. High Strength (H.S.) Steel Bolts, Nuts and Washers:
 - a. Galvanized Hex Head Bolts: ASTM F3125, Grade A325, Type 1
 - b. Galvanized Nuts: ASTM A563 Hex, Grade DH
- c. Galvanized Washers: ASTM F436
- F. Concrete: Class II.



DESCRIPTION:







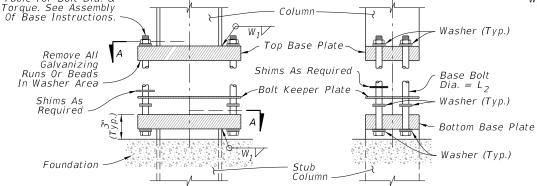
Spaced (See ' Table For Size

- Ç Of Foundation & Stub Column

Cover (Typ.) PLAN

H.S. Base Bolt With 3 Washers & Hex Nut on Each Bolt. See Table for Bolt Dia. &

Finished



_____ Direction of Traffic _____

SIDE ELEVATION

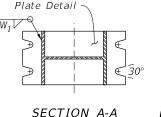
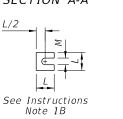
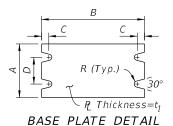


Plate Thickness=0.0149" (28 Gauge) BOLT KEEPER PLATE DETAIL





Depth of

R(Typ.)

Plate Thickness=0.0149"

(28 Gauge)

BOLT KEEPER PLATE DETAIL

STIFFENER PLATE DETAIL

Section

SHIM DETAIL

			BAS	E CO	NNEC	TION	DAT	4		SH	IM
Steel Post & Stub Section*	Α	В	С	D	R	t ₁	L ₂	W ₁	Torque (Ibf*in)	L	М
S 3x5.7	4"	7"	3/4"	2"	5/16"	1"	1/2"	1/4"	90 ± 20	1-1/4"	9/16"
W 6x12	4"	10"	3/4"	2"	3/8"	1-5/8"	5/8"	1/4"	270 ± 45	1-3/8"	11/16"
W 8x18	5-1/4"	12-1/2"	7/8"	2-3/4"	7/16"	1-3/4"	3/4"	3/8"	445 ± 75	1-3/4"	13/16"
W 8x24	6-1/2"	12-1/2"	7/8"	3-1/4"	7/16"	1-3/4"	3/4"	3/8"	445 ± 75	2-1/8"	13/16"
W 10x33	8"	16"	1-1/4"	4-3/4"	9/16"	2"	1"	1/2"	580 ± 90	2-3/8"	1-1/16"
W 12×15	10"	1.8"	1_1//"	6"	9/16"	2"	7"	1/2"	580 + 90	2-3//"	1-1/16"

 $[^]st$ Designations: (Nominal Depth in inches) x (weight in pounds per linear foot).

FRONT ELEVATION

FOUNDATION NOTES:

The foundation may be either precast or cast-in-place. Use Reinforcing bars or equivalent Welded Wire Reinforcement.

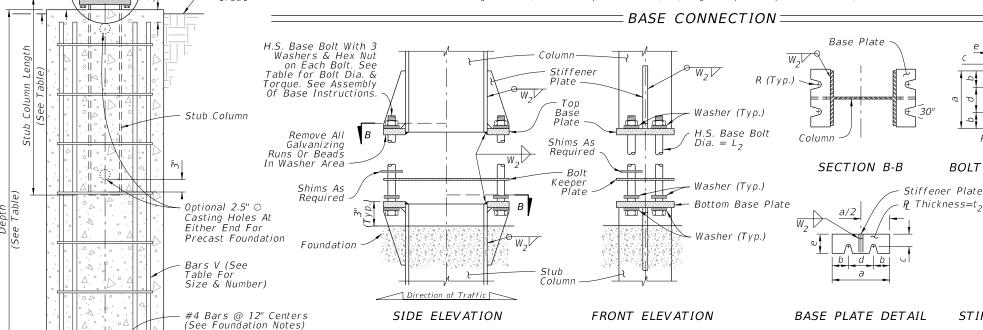
At the Contractor's option, the #4 tie bars at 12" o.c. may be replaced by D10 Spiral Wire @ 6" pitch, with three flat turns at the top and one flat turn at the bottom in accordance with Specification 415.

For precast foundations, the circular cross section shown may be substituted with an octagon shape. The out-to-out distance between parallel edges must be greater than or equal to the diameter in the Foundation Data table. Use the same reinforcing diameter with centered placement and a minimum 3" cover.

BASE CONNECTION NOTES:

- 1. Assembly of Base Instructions.
- A. Place one washer on each Base Bolt between the Bottom Base Plate and the head of high strength Base Bolt; place the next washer between the Bottom Base Plate and the Bolt Keeper Plate; add the Top Base Plate section and place the third washer between the Top Base Plate and the Nut
- B. Shim as required to plumb column. Provide 2-0.0149" thick (28 gauge) and 2-0.0329" thick (21 gauge) shims
- 2. H.S. Base Bolt L Tightening Instructions:
- A. Tighten Base Bolts to the maximum possible with a 12" to 15" wrench (this will bed the washers and shims and clear the bolt threads).
- B. Loosen each Base Bolt one turn
- C. Under the supervision of the Engineer, use a calibrated wrench to tighten bolts to the torque prescribed in the Table. Over tightened Base Bolts will not be permitted.
- D. Burr threads at junction with nut to prevent nut loosening. Treat damaged galvanizing.
- 3. Assemble Post to Stub with Base Bolts and three flat washers per bolt (See Base Connection Details). Tighten Base Bolts in accordance with Instructions with
- 4. Weld Base Plate to Post & Stub or if using the Alternate Connection Detail weld Base Plate and Stiffeners to Post
- 5. Orient Stub Post according to direction of traffic.

DESCRIPTION:



ALTERNATIVE BASE CONNECTION DATA Torque Steel W_2 (lbf*in) Section³ W 6x12 4-3/4" | 1-1/8" | 1-3/16" | 2-1/2" 1/2" 5/8" 3/8" | 270±45 | 5-1/8" 1/4" W 8x18 1-3/8" 2-3/4" 2-3/16" 5/8" 3/4" | 7/16" | 445±75 | 6-1/4" 1/4" 3/4" W 8x24 1-3/8" 3-1/2" 2-3/8" 3/4" | 7/16" | 445±75 | 2-3/8" 5/16" 3/4" W 10x33 1-9/16" 2-3/4" 1" 9/16" | 580±90 2-3/4" 5/16" 1-9/16" 3/4" 9/16" | 580±90

ALTERNATIVE BASE CONNECTION =

FOUNDATION AND BASE CONNECTION DETAILS

11/01/24

FDOT

ELEVATION

FOUNDATION =

FY 2025-26 STANDARD PLANS

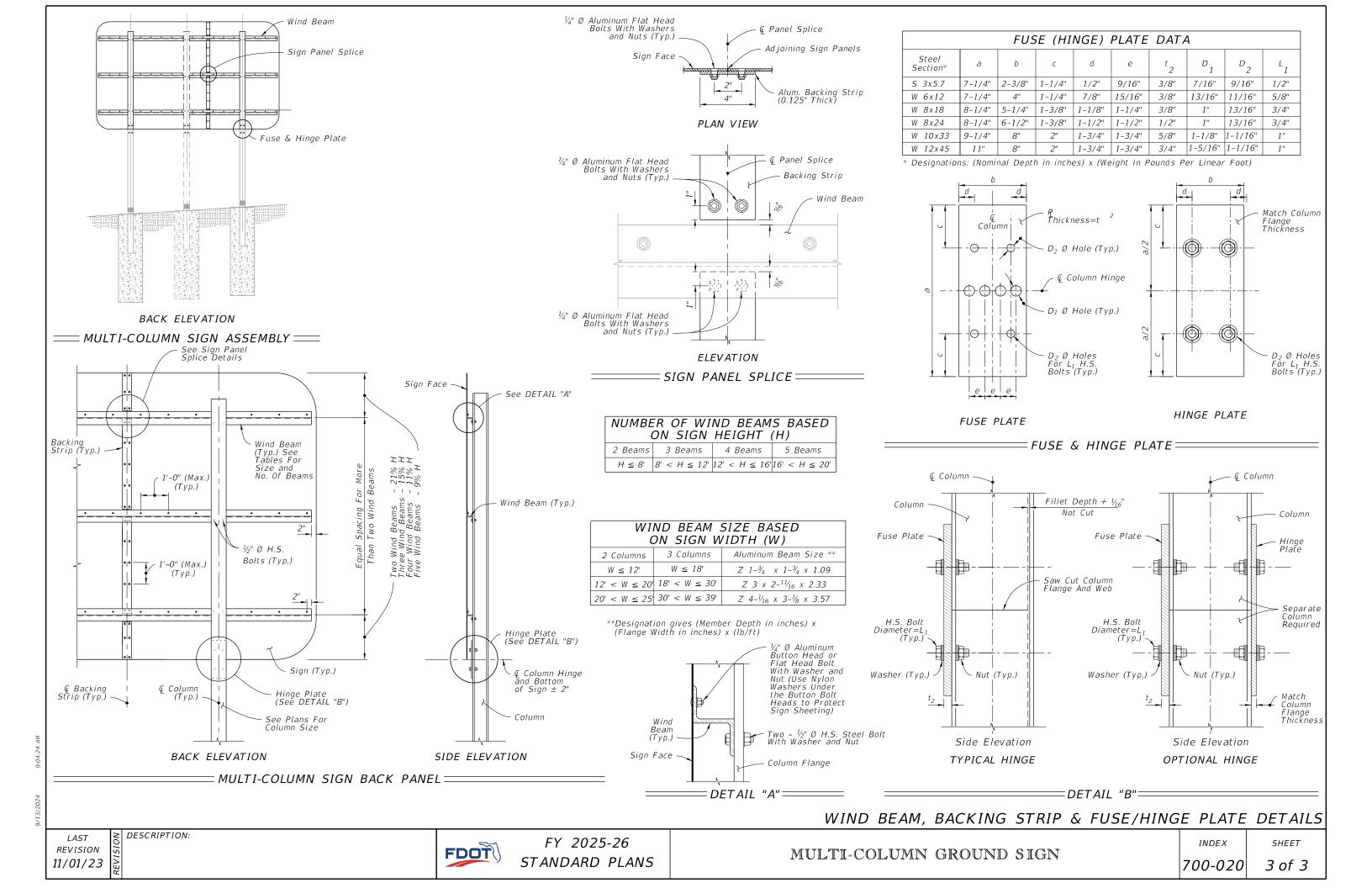
Class II

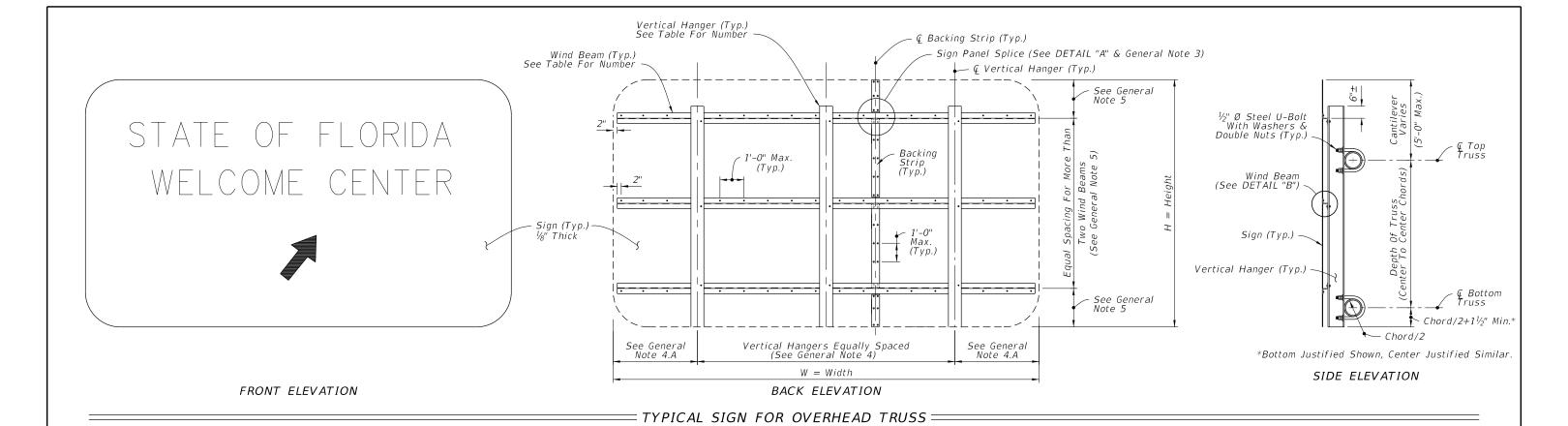
Concrete

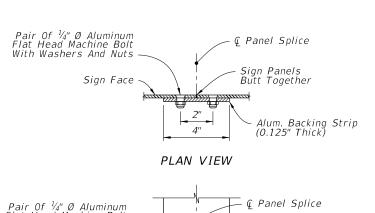
INDEX 700-020

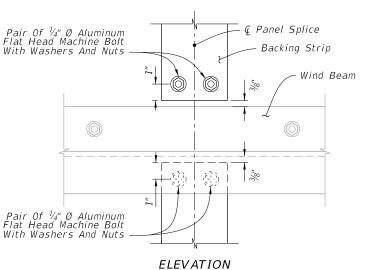
SHEET 2 of 3

arepsilon Designations: (Nominal Depth in inches) x (weight in pounds per linear foot).









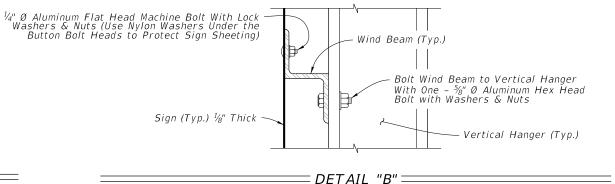
SIGN PANEL SPLICE

DETAIL "A"

WIND BEAM TABLE (Z 3 x $2^{11}/_{16}$ x 2.33) Number of Horizontal Wind Beams Based on Sign Height (H) 2 Beams 3 Beams 4 Beams 5 Beams $H \le 5' \mid 5' < H \le 9' \mid 9' < H \le 12' \mid 12' < H \le 15' \mid 15' < H \le 18'$

HANGE	ER TABLE	(I 6 X 4)	(4.69 or 2	$Z = 5 \times 3\frac{1}{4}$	x 4.01)	
Number of Vertical Hanger Beams Based on Wind Speed and Sign Width (W)						
	2 Hangers	3 Hangers	4 Hangers	5 Hangers	6 Hangers	
130 mph	W ≤ 20'	$20' < W \le 30'$	$30' < W \le 40'$	$40' < W \le 50'$		
150 mph	W ≤ 18'	18' < W ≤ 27'	27' < W ≤ 35'	35′ < W ≤ 45′	$45' < W \le 50'$	
170 mph	W ≤ 15'	$15' < W \le 20'$	$20' < W \le 28'$	28′ < W ≤ 35′	$35' < W \le 43'$	

NOTE: For Monroe County designs, use 170 mph values but with Z 5 x $3-\frac{1}{4}$ x 6.19 vertical hanger beams only.



GENERAL NOTES

- 1. Meet the requirements of Specification 700.
- 2. Work this Index with Index 700-040 and 700-041.
- 3. The number and location of the Panel Splices are determined by the Sign Face supplier.
- 4. Spacing of Vertical Hangers:
- A. Two Vertical Hanger = 21.0% W Three Vertical Hanger = 15.0% W Four Vertical Hanger = 11.0% W Five Vertical Hanger = 9.0% W
- Six Vertical Hanger = 7.0% W

 B. Spacing of vertical hangers may be varied slightly as necessary to clear the truss struts and diagonals
- 5. Spacing of Wind Beams:

Two Wind Beams = 21.0% H Three Wind Beams = 15.0% H Four Wind Beams = 11.0% H Five Wind Beams = 9.0% H Six Wind Beams = 7.0% H

- 6. Shop Drawings:
- A. Required for Sign Panels deeper than 10'-0" with a horizontal panel splice.
- B. Splice must be located in between interior Zee Supports and only allowed on signs greater
- 7. Wind Speed by county: see Index 715-010.
- 8. Materials:
- - a. Bars, and Extruded Shapes: ASTM B221, Alloy 6061-T6 or Alloy 6351-T5

 - a. Bars, and Extruded Shapes: ASTM B221, Alloy 6061-16 of Alloy 635 b. Structural Shapes: ASTM B221, Alloy 6061-T6 c. Flat Head and Hex Head Machine Bolts: ASTM F468, Alloy 2024-T4 d. Hex Nuts: ASTM F467, Alloy 6061-T6 or Alloy 6262-T9 e. Washers: ASTM B221, Alclad 2024-T4
- - a. U-Bolts: ASTM A449 or ASTM A193 B7 b. Nuts: ASTM A563, 2 per leg c. Washers: ASTM F436, (Flat Washers)

REVISION 11/01/23

DESCRIPTION:

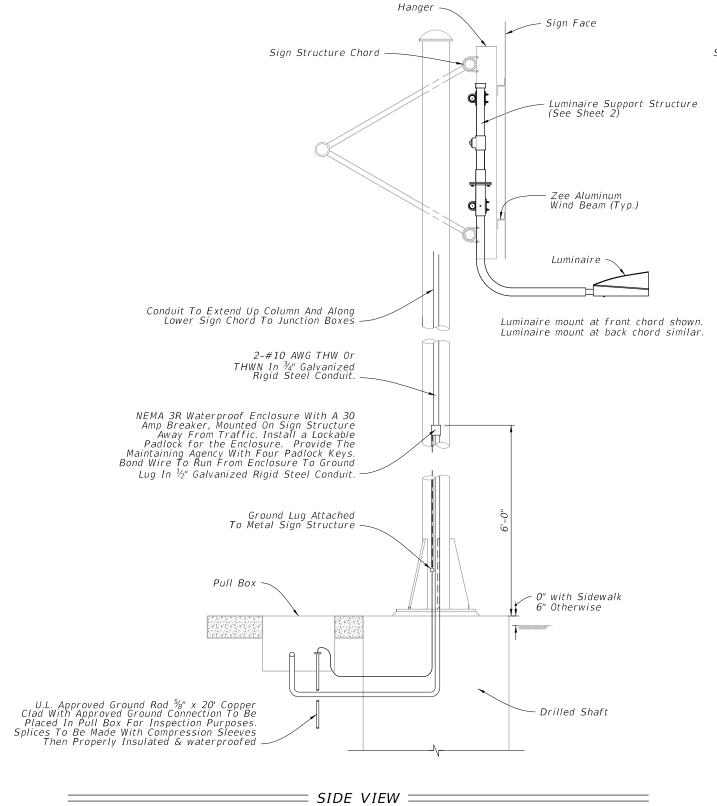
FDOT

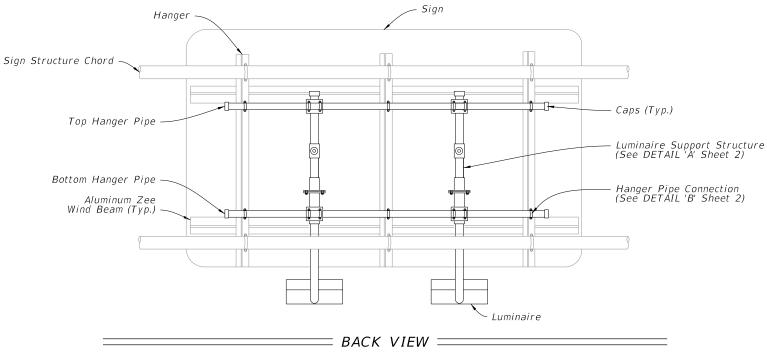
FY 2025-26 STANDARD PLANS

WIND AND HANGER BEAMS FOR OVERHEAD SIGNS

INDEX

SHEET 1 of 1





PLACEMENT OF SIGN LIGHTS

- 1. This Index details a bottom luminaire support structure. For signs requiring top luminaire support structures, the detail can be reversed.
- 2. Luminaire spacing and arm length is shown on Guide Sign Worksheet.
- 3. The Guide Sign Worksheet indicates the sign luminaire used for basis of design. The contractor may propose a different luminaire by submitting photometric calculations for each lighted sign for review by the Engineer.

SIGN LIGHTING INSTALLATION

Roadway Lighting included in contract:

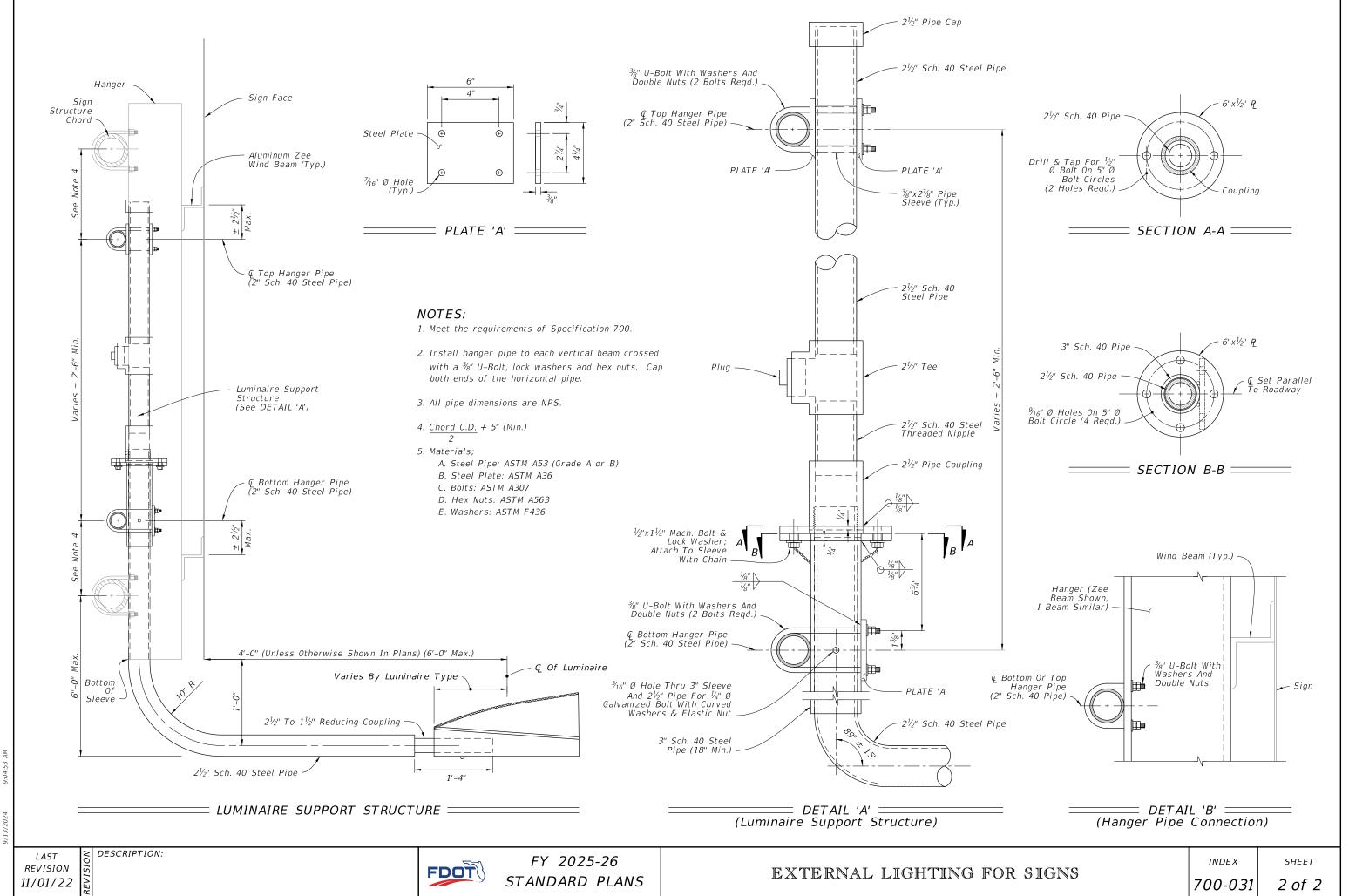
- 1. Power for the sign lighting provided from the roadway lighting circuit.
- 2. Indicate sign location and a pull box location for connection to the sign lights in the lighting plans.
- 3. Lighting contractor installs pull box and loop 2' of lighting circuit conductors in the pull box for connection by the signing contractor.
- 4. Signing contractor furnishes and installs the Luminaires, NEMA 3R enclosure, 30 amp breaker, conduit, conductors and all other electrical equipment necessary for connection to the lighting circuit.

Roadway Lighting not included in contract:

- 1. Signing plans include the pay item numbers to furnish and install conduit, conductors, ground rods, pull boxes and service point equipment.
- 2. Signing plans indicate the location of the service point equipment and circuit runs.
- Signing contractor provides all electrical equipment necessary for connection of the sign lights.

REVISION 11/01/17

DESCRIPTION:

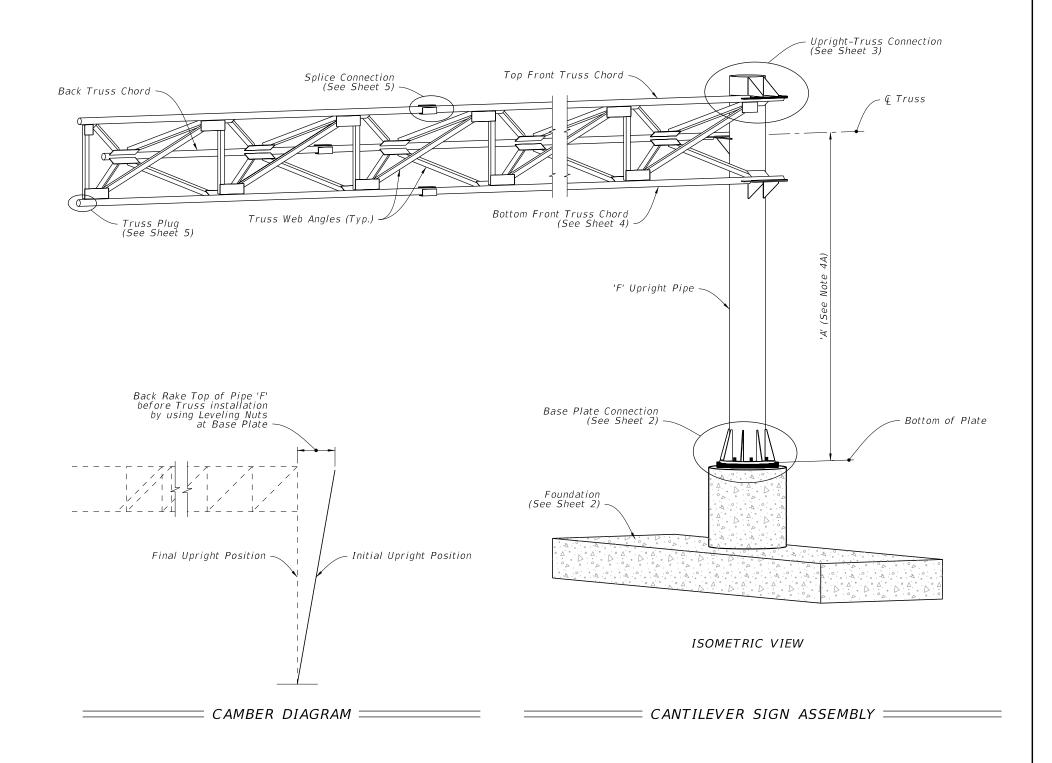


GENERAL NOTES:

- 1. Meet the requirements of Specification 700.
- 2. Work this Index in conjunction with CANTILEVER SIGN STRUCTURE DATA TABLES in the Plans and Index 700–030.
- 3. Handholes are required at pole base for DMS Structures. Refer to Index 700-090 for Handhole Details.
- 4. Shop Drawings are required.

Obtain Shop Drawing approval prior to fabrication. Include the following:

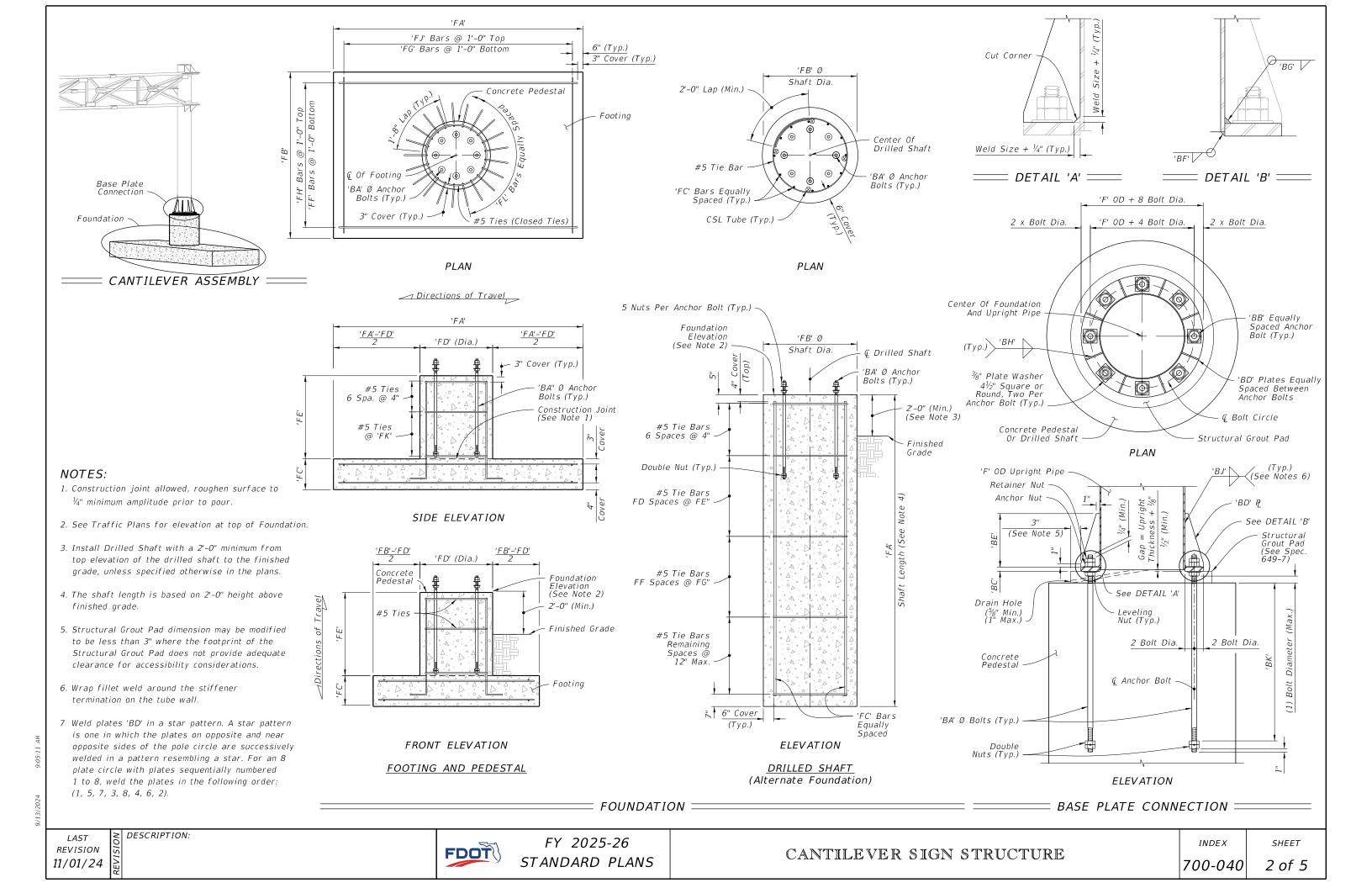
- A. Upright Pipe height ('A') and Foundation elevations: Verify dimension in the field prior to submittal to ensure minimum vertical clearances of the sign panel over the roadway.
- B. Height of the foundation above adjacent ground.
- C. Anchor bolt orientation with respect to centerline of truss and the direction of traffic.
- D. Chord Splices
- E. Handholes at pole base (when required).
- 5. Materials:
- A. Sign Structure:
- a. Upright and Chords (Steel Pipe): API 5L X42 PSL2, 42 ksi yield or ASTM A500, Grade B (Min.)
- b. Steel Angles and Structural Plates and Bars: ASTM A709 Grade 36
- B. Bolts, Nuts and Washers:
- a. High Strength Bolts: ASTM F3125, Grade A325 Type 1
- b. Nuts: ASTM A563 Grade DH Heavy-Hex
- c. Washers: ASTM F436 Type 1, one under turned element
- C. Anchor Bolts, Nuts and Washers
- a. Anchor Bolts: ASTM F1554 Grade 55
- b. Nuts: ASTM A563 Grade A Heavy-Hex (5 per bolt)
- c. Plate Washers: ASTM A36 (2 per bolt)

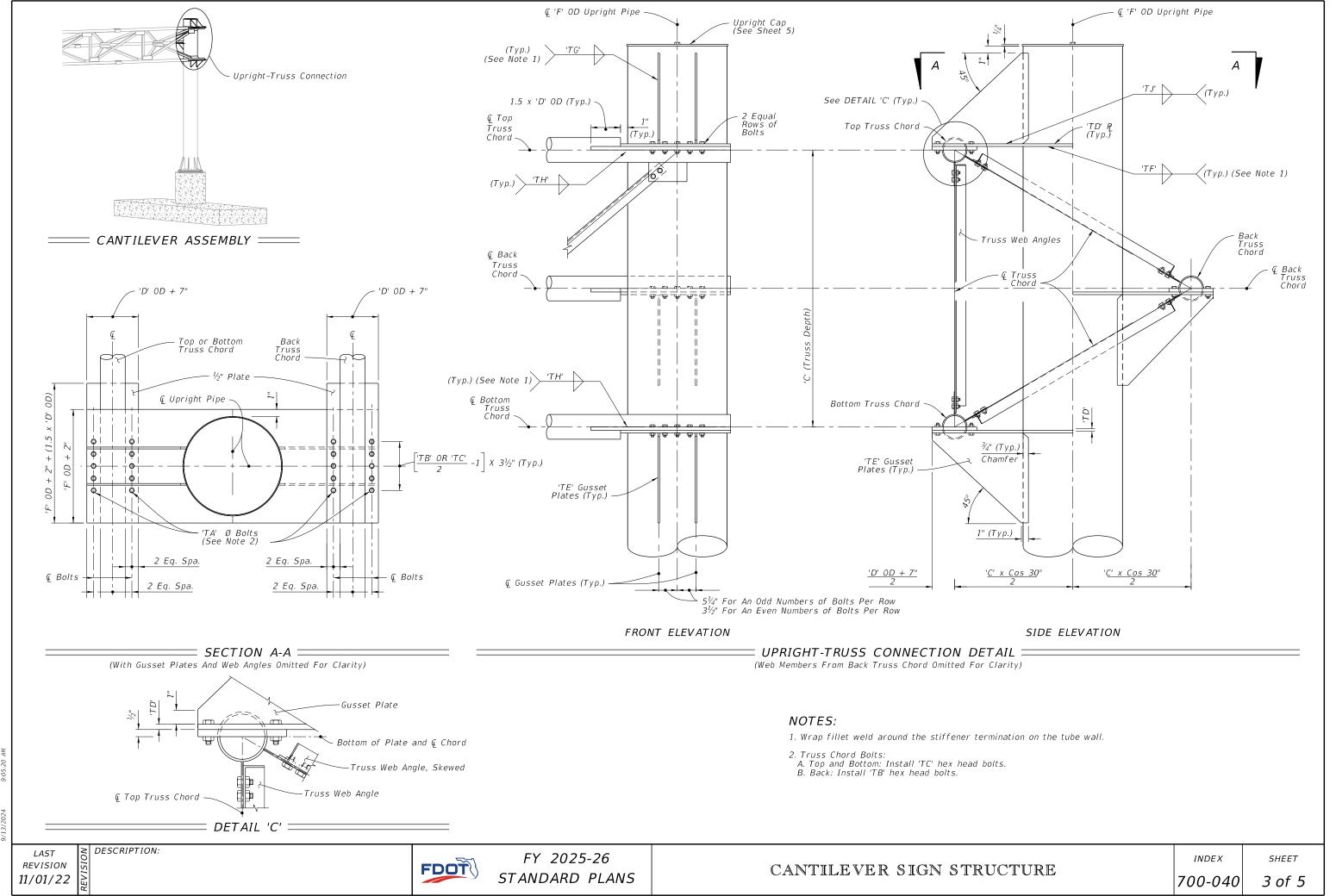


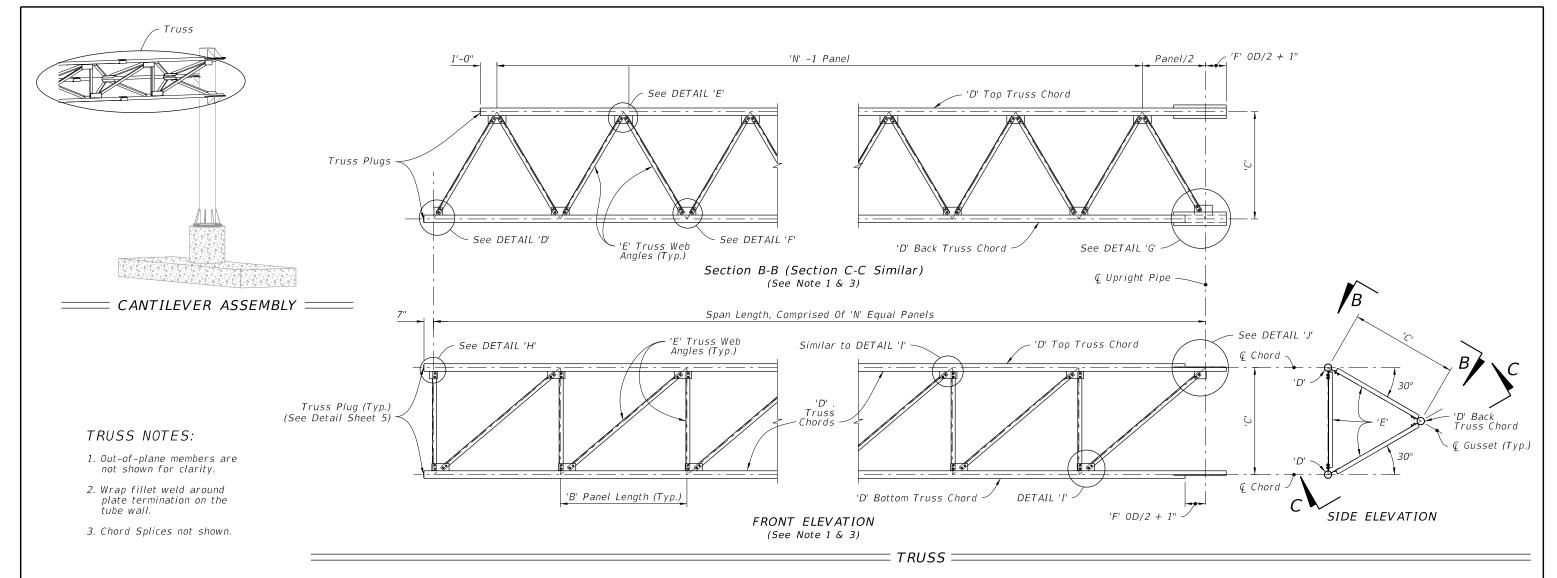
9:05:01 AM

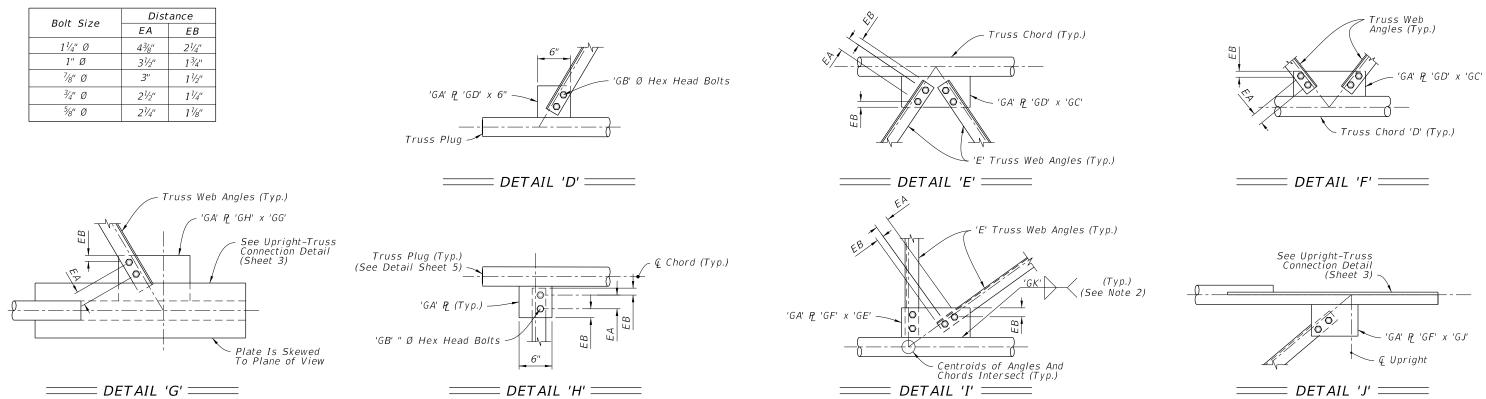
DESCRIPTION:











CANTILEVER SIGN STRUCTURE

INDEX

700-040

SHEET

4 of 5

FY 2025-26

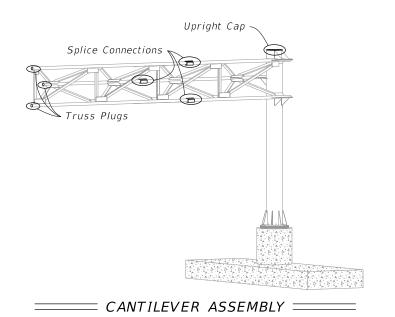
STANDARD PLANS

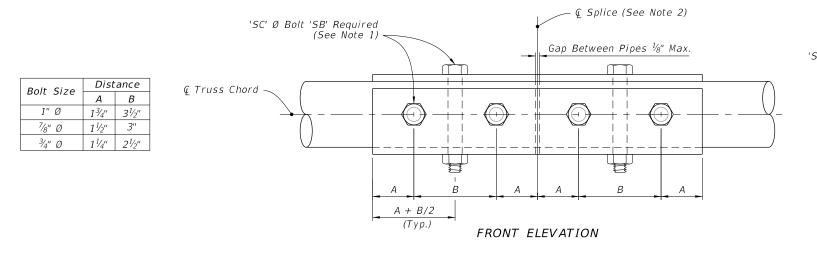
FDOT

DESCRIPTION:

REVISION

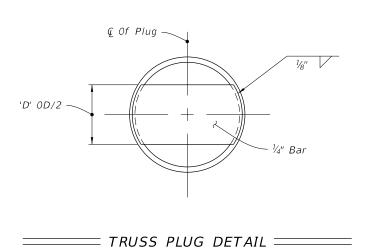
11/01/22

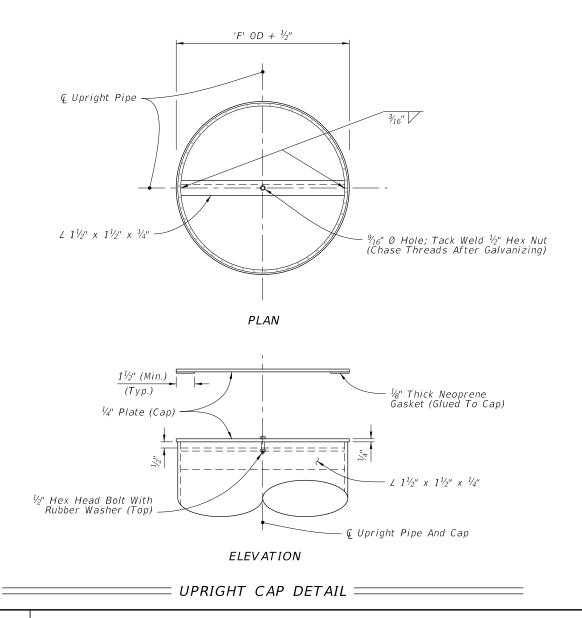




SPLICE CONNECTION NOTES:

- 1. Only 6 bolts are shown in detail for clarity. (One Half Each Side Of Splice)
- 2. Splices are not permitted for trusses less than or equal to 40', Splice optional for trusses greater than 40'.
- 3. Chord Splices: "SD" Panel from upright is the closest panel in which a chord splice may be used. See Plans for CANTILEVER SIGN STRUCTURE DATA TABLE. Minimum splice spacing is two truss panel lengths apart.





SPLICE CONNECTION DETAIL =

REVISION 11/01/22

DESCRIPTION:



FY 2025-26 STANDARD PLANS

CANTILEVER SIGN STRUCTURE

INDEX

SHEET 5 of 5

← Truss Chord

'SC' Ø Bolt (Typ.)

SIDE ELEVATION

700-040

GENERAL NOTES: 1. Meet the requirements of Specification 700.

- 2. Work this Index in conjunction with SPAN SIGN STRUCTURE DATA TABLES in the Plans and Index 700-030.
- 3. Handholes at the pole base are required for DMS Structures. Refer to Index 700-090 for Handhole Details.
- 4. Shop Drawings are required.

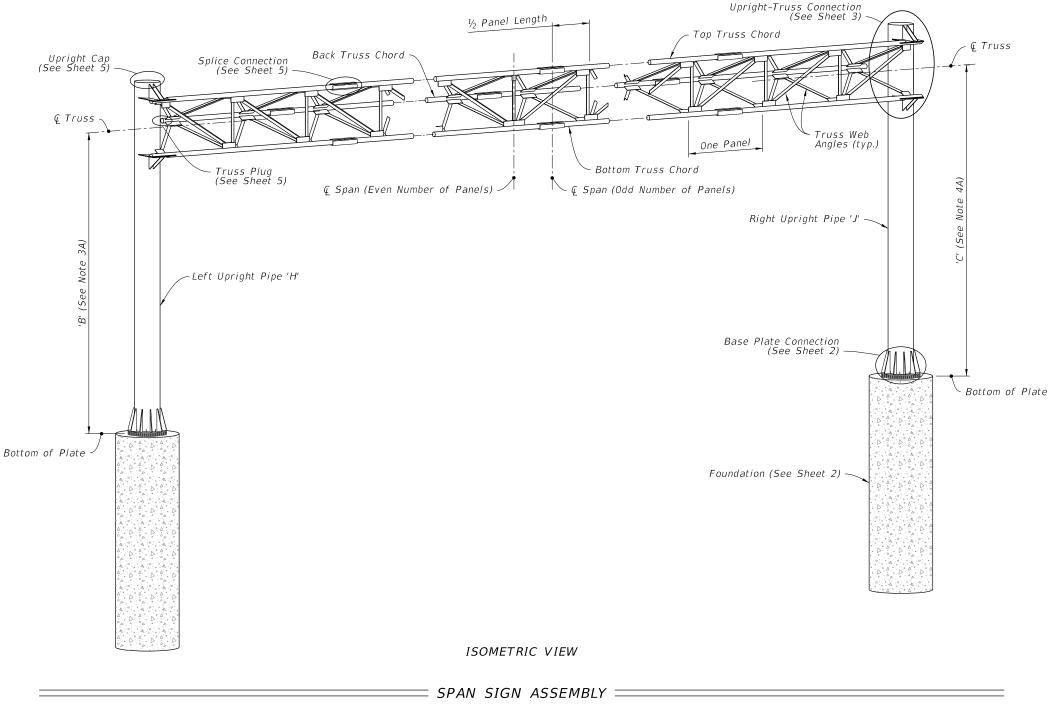
Obtain Shop Drawing approval prior to fabrication. Include the following:

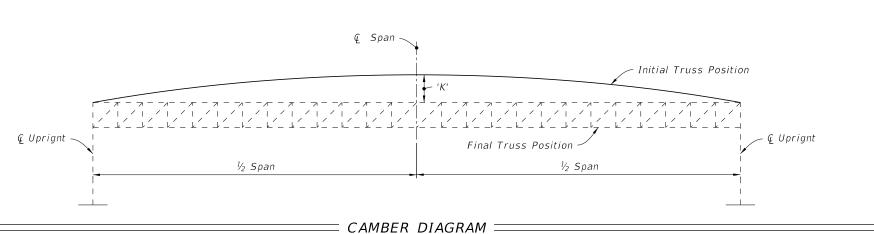
A. Upright Pipe height ('C' & 'B') and foundation elevations: Verify dimensions in the field prior to submittal to ensure minimum vertical clearances of the sign panel over the roadway.

- B. Height of the foundation above adjacent ground.
- C. Anchor bolt orientation with respect to centerline of truss and the direction of traffic.
- D. Method to be used to provide the required parabolic camber (see Camber Diagram).
- E. Handholes at pole base (when required).
- 5. Provide a parabolic camber with the required upward deflection as shown on the Camber Diagram.
- 6. Materials:
- A. Sign Structure:
- a. Upright and Chords (Steel Pipe): API 5L X42 PSL2, 42 ksi yield or ASTM A500, Grade B (Min.)
- b. Steel Angles and Plates: ASTM A709 grade 36
- B. Bolts, Nuts and Washers:
- a. High Strength Bolts: ASTM F3125, Grade A325, Type 1
- b. Nuts: ASTM A563, Grade DH Heavy-Hex
- c. Washers: ASTM F436, Type 1, one under turned element
- C. Anchor Bolts, Nuts and Washers

DESCRIPTION:

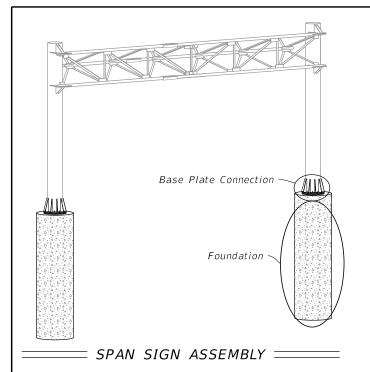
- a. Anchor Bolts: ASTM F1554 Grade 55
- b. Nuts: ASTM A563 Grade A Heavy-Hex (5 per bolt)
- c. Plate Washers: ASTM A36 (2 per bolt)

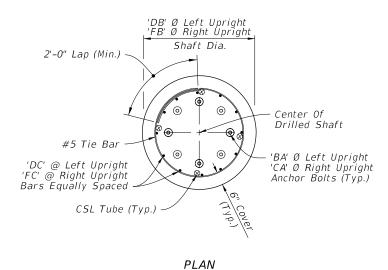


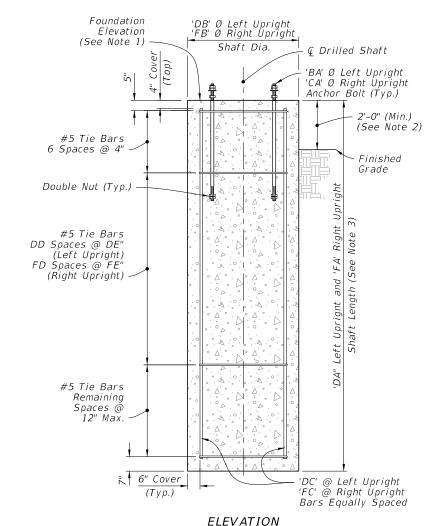


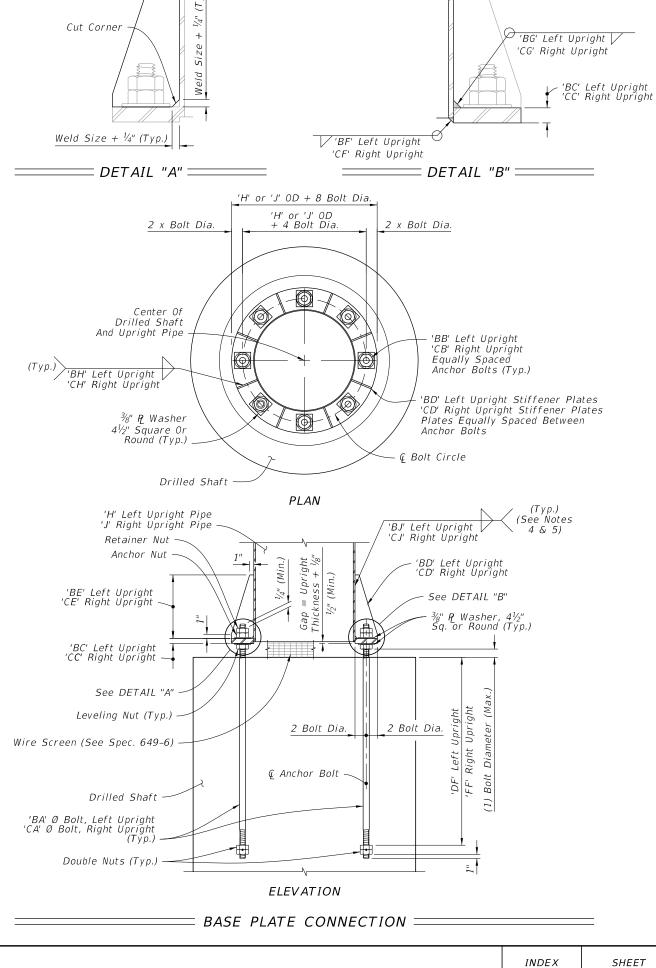
LAST REVISION 11/01/22

INDEX 700-041









NOTES:

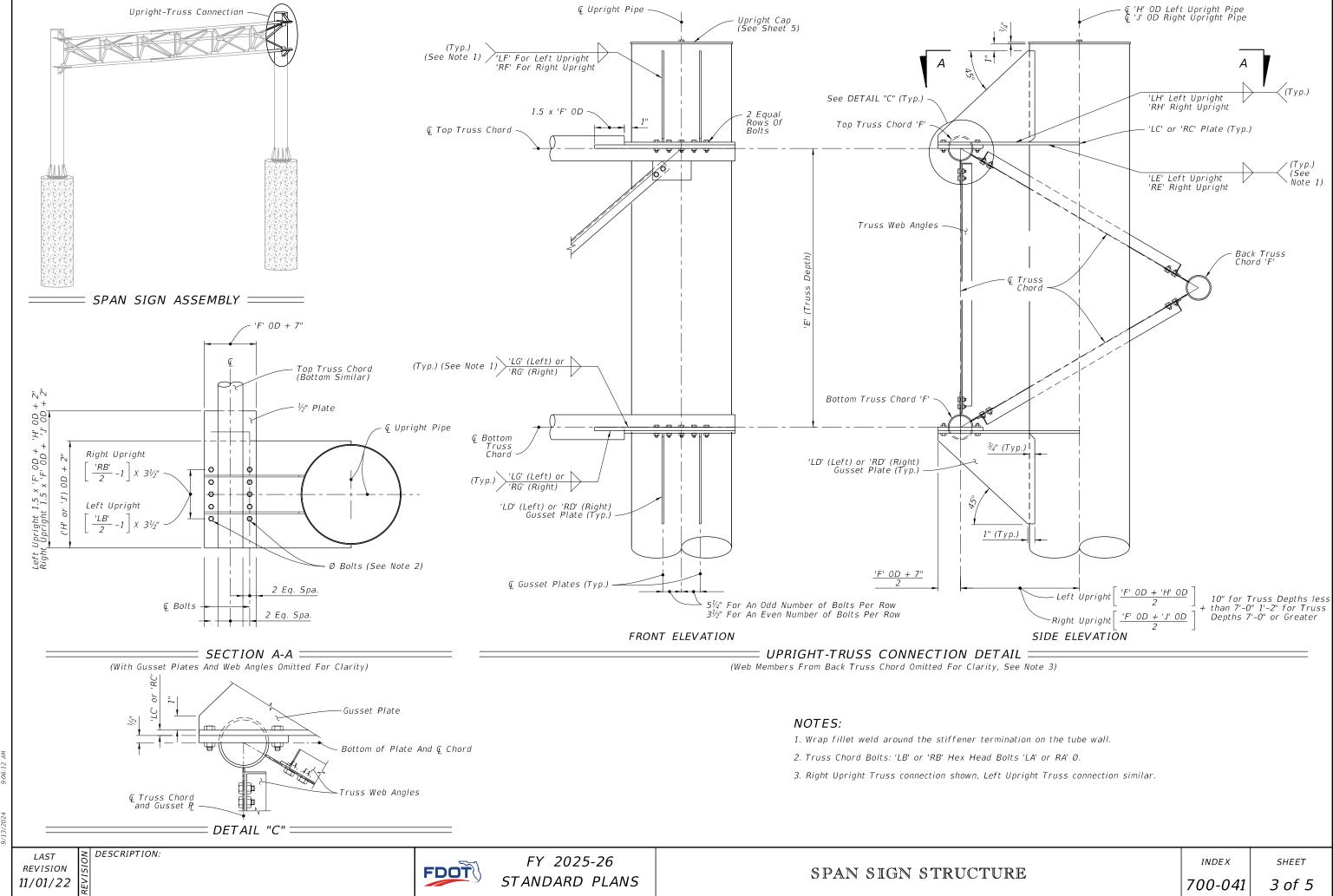
- 1. See Traffic Plans for elevation at top
- 2. Install Drilled Shaft with a 2'-0" minimum from top elevation of the drill shaft to the finished grade, unless specified otherwise in the plans.
- 3. The shaft length is based on 2'-0" height above finished grade.
- 4. Wrap fillet weld around the stiffener termination on the tube wall (Typ).

DESCRIPTION:

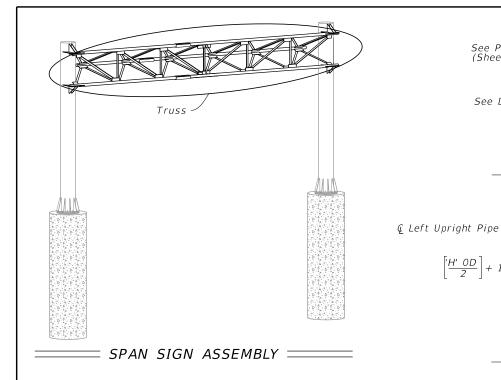
- 5. After galvanizing, provide magnetic particle testing on 100% of upright fillet welds.
- 6. Weld plates 'BD' and 'CD' in a star pattern. A star pattern is one in which the plates on opposite and near opposite sides of the pole circle are successively welded in a pattern resembling a star. For an 8 plate circle with plates sequentially numbered 1 to 8, weld the plates in the following order: (1, 5, 7, 3, 8, 4, 6, 2).

DRILLED SHAFT

FOUNDATION



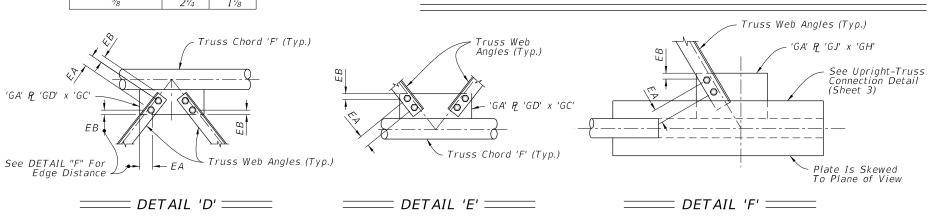
2000/01/0



NOTES:

- 1. Out-of-plane members are not shown for clarity.
- 2. Back truss chord and attached angles are not shown for clarity.
- 3. Wrap fillet weld around plate termination on the tube wall

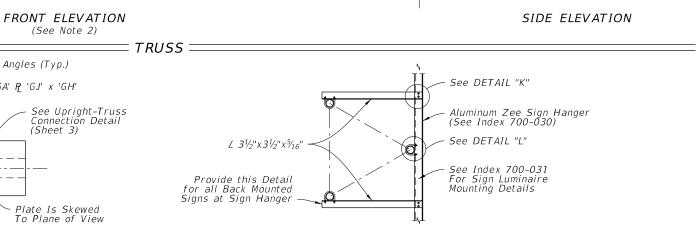
Bolt Diameter	Distance (in.)			
(in.)	EA	EB		
$1\frac{1}{4}$	43/8	21/4"		
1	31/2	13/4		
7/8	3	11/2		
³ / ₄	21/2	11/4		
5/6	21/.	11/2		



See Plug Detail (Sheet 5) (Typ.)

See DETAIL 'D'

 $\left[\frac{H' \ OD}{2}\right] + 1''$



BACK-SIDE SIGN MOUNTING =

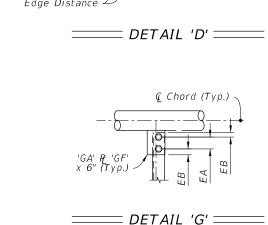
See DETAIL 'F'

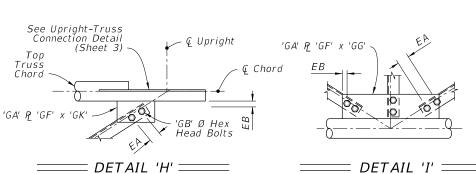
@ Right Upright Pipe

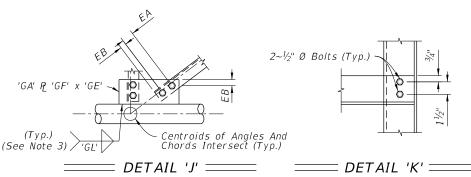
18

← Top Truss Chord

Bottom Truss Chord







'D'-1 Panels

Section B-B (Section C-C Similar) (See Note 1)

Span Length, 'A', Comprised Of 'D' Equal Panels

See DETAIL 'G'

'F' OD Back Truss Chord

'G' Truss Web Angles (Typ.)

 $\frac{1}{2}$ The Number of Panels For An Even Number Of Panels

 $\frac{1}{2}$ The Number Of Panels Rounded Down To the Closest

Whole Number For An odd Number Of Panels

'F' OD Bottom Truss Chord

See DETAIL 'E'

See DETAIL 'I

& Span (Even Number of Panels) -

___ @ Span (Even Number of Panels)

'F' OD Top Truss Chord

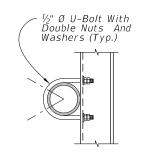
'F' OD Top Truss Chord

See DETAIL 'H'

See DETAIL 'J'

Q Span (Odd Number of Panels)

© Span (Odd Number of Panels)



DETAIL 'L'

DESCRIPTION: LAST REVISION 11/01/22

FDOT

FY 2025-26 STANDARD PLANS

SPAN SIGN STRUCTURE

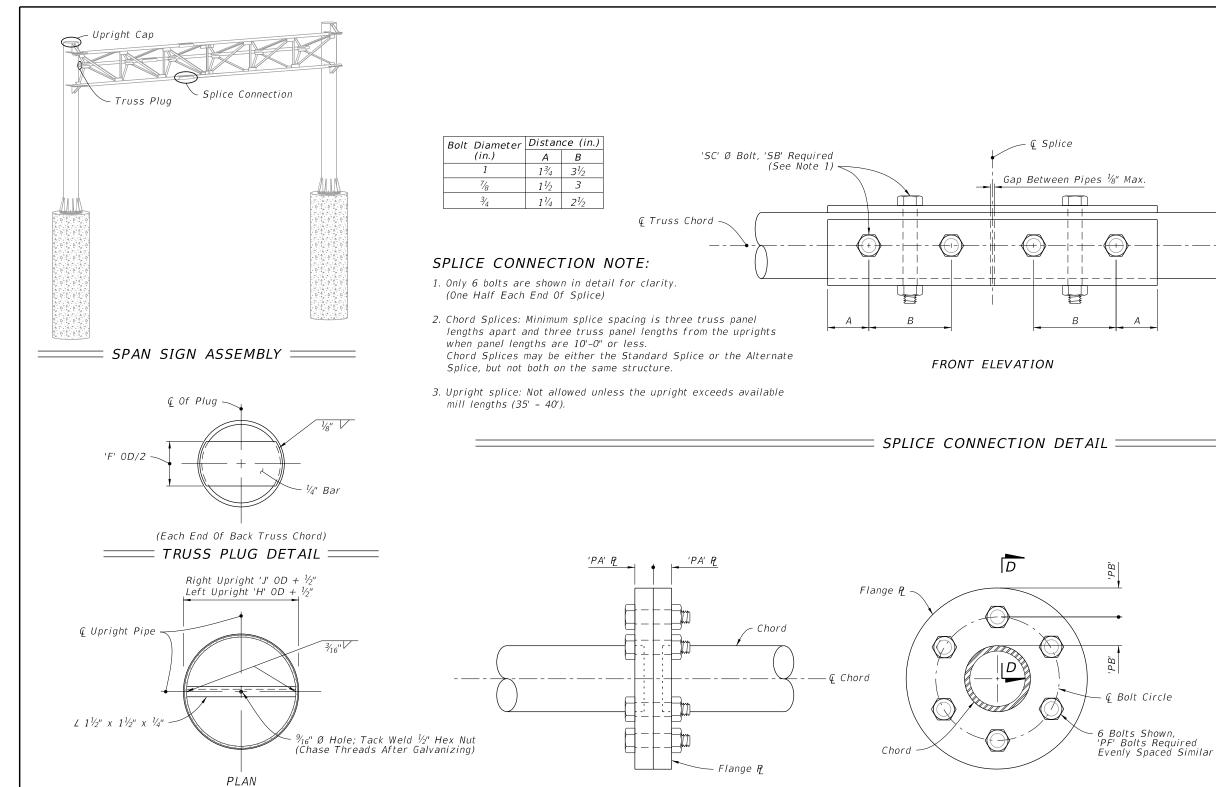
INDEX 700-041

SHEET

8

Ç Gusset And Back Truss

Chord



1/8" Thick Neoprene Gasket (Glued To The Underside Of The Cap) Δ 1½" x 1½" x ½"

- @ Upright Pipe And Cap

ALTERNATE SPLICE CONNECTION DETAIL

SIDE ELEVATION

UPRIGHT CAP DETAIL =

ELEVATION

 $1\frac{1}{2}$ " (Min.) $\frac{1}{2}$

1/4" Plate (Cap)

DESCRIPTION:

1/2" Hex Head Bolt With Rubber Washer (Top Leg of L Shape)

LAST REVISION 11/01/22

FDOT

FRONT ELEVATION

'SA' Angle Shape <

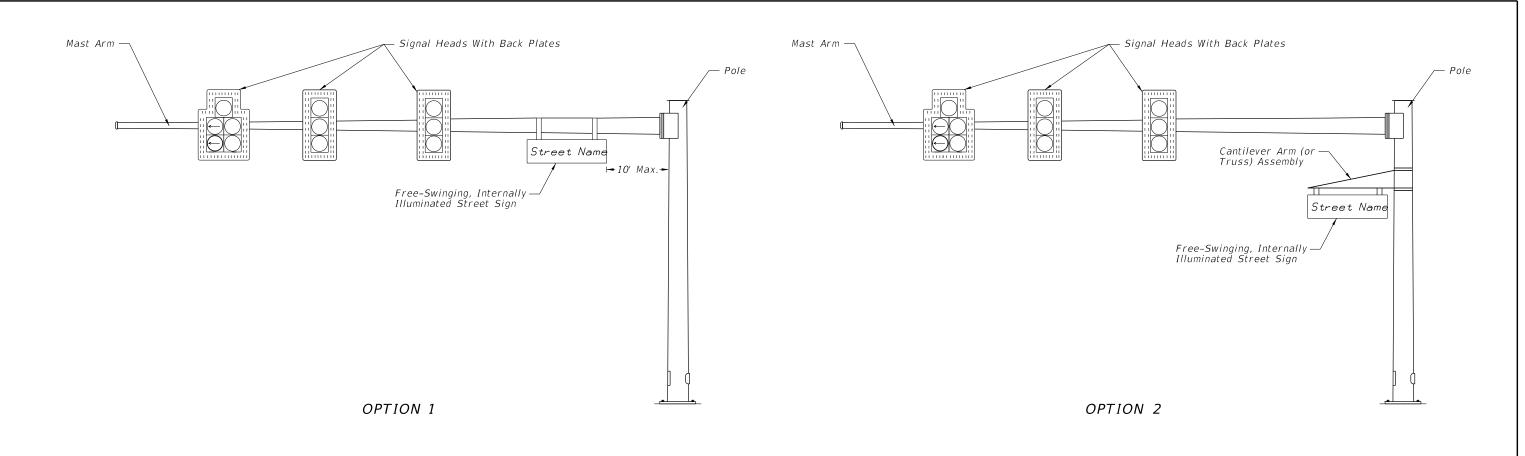
Flange R

SIDE ELEVATION

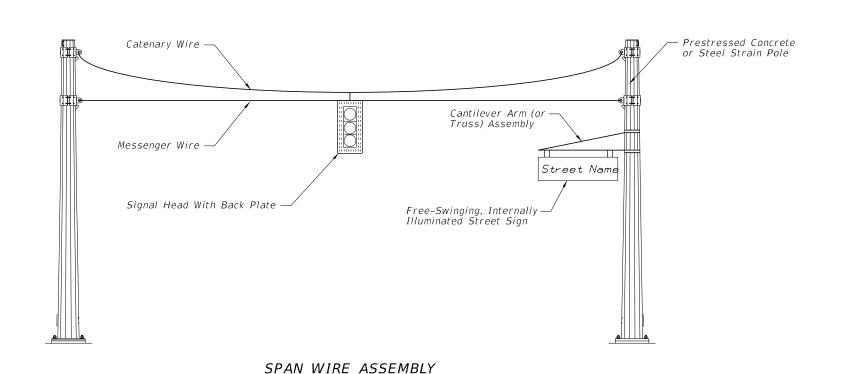
SECTION D-D

→ Q Truss Chord

'PE' Dia. Bolts (Typ.)



MAST ARM ASSEMBLY



NOTES:

- 1. Free-swinging, internally-illuminated street signs shall only be installed on the signal pole for span wire assemblies. For mast arm assemblies the street sign may be installed on the arm or pole.
- 2. Free-swinging, internally-illuminated street signs meet the requirements of Specification 700.
- 3. Pole attachments and cantilever arm (or truss) assemblies may be accepted by Contractor certification provided the signs being supported meet the weight and area limitations included in Specification 700 for "Acceptance by Certification".
- 4. Pole attachments and cantilever arm (or truss) assemblies supporting signs not meeting the weight or area limitations included in Specification 700 for "Acceptance by Certification" require the submittal of structural calculations and Shop Drawings that have been prepared by and sealed by the Specialty Engineer.

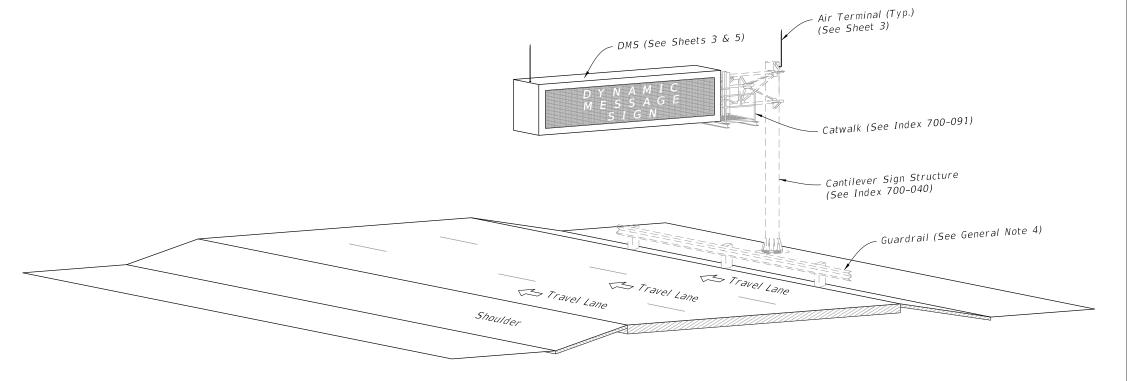
LAST REVISION 11/01/17

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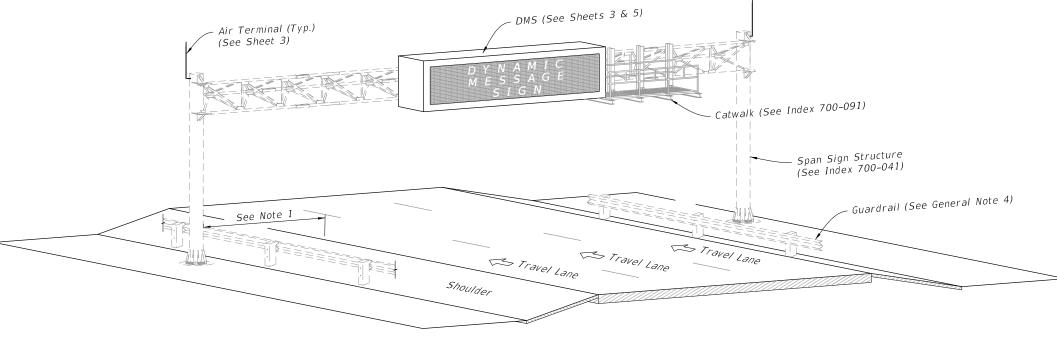


FY 2025-26 STANDARD PLANS

- 2. Furnish and install the Dynamic Message Sign (DMS), sign structure in accordance with Index 700-040 or 700-041. Locate foundations at locations shown in the Plans.
- 3. Shop Drawings are required:
- A. Include the DMS connection
- B. Do not start fabrication until the shop drawings are approved
- 4. If required, install guardrail at location show in the Plans and in accordance with Index 536-001.
- 5. Installation:
- A. See project requirements for location of DMS Cabinet.
- B. Field Adjust pole-mounted DMS cabinet height to achieve best access for maintenance personnel given site condition as directed by the Engineer. Avoid conflicts with stiffeners, handhole and maintenance of anchor bolts.
- C. Locate the sign horizontal on the structure as shown in the Plans. Vertically center the sign enclosure with the centerline
- D. Before erection, field drill the bolt holes in the vertical hangers and horizontal mounting member attached to the sign enclosure. Field locate holes to allow vertical hanger placement as shown on the Plans with no conflicts with gusset or splice plates.
- E. Locate threaded couplings on sign side of upright above the sign truss
- F. Connect grounding conductors to the steel framework that has been cleaned to base metal by use of bonding plates having contact area of not less than 8 square inches or by welding or brazing. Drilling and tapping the steel structure to accept a threaded connector is also an acceptable method
- G. If steel framework is to be drilled and tapped to accept threaded connector, the threaded connector shall be galvanized and have at least 5 threads fully engaged and secured with a jam nut to the steel framework.
- H. Bends in the conduit must be greater than the minimum bending radius for the cable contained in the conduit.
- I. Completely encase all data, fiber optic and power cables for the DMS within the sign structure or in conduit.
- J. Permanently stamp/mark foundation to indicate conduit locations.
- K. Transition conduit in foundation to indicate underground conduit with appropriate reducer outside the limits of the foundation.
- 6. Materials (Sign Mounting Components):
 - A. Aluminum Structural Shapes: ASTM B221, Alloy 6061-T6
 - B. Vertical Hangers: ASTM A709, Grade 36
 - C. U-Bolts: ASTM A449 or A193 B7
 - D. Steel Bolts, Nuts, and Washers:
 - 1. High Strength Bolts: ASTM F3125, Grade A325, Type 1
 - 2. Nuts: ASTM F563
 - 3. Washers: ASTM F463 (Flat Washer)



CANTILEVER ISOMETRIC VIEW



SPAN ISOMETRIC VIEW

DYNAMIC MESSAGE SIGN ASSEMBLY =

REVISION 11/01/22

DESCRIPTION:

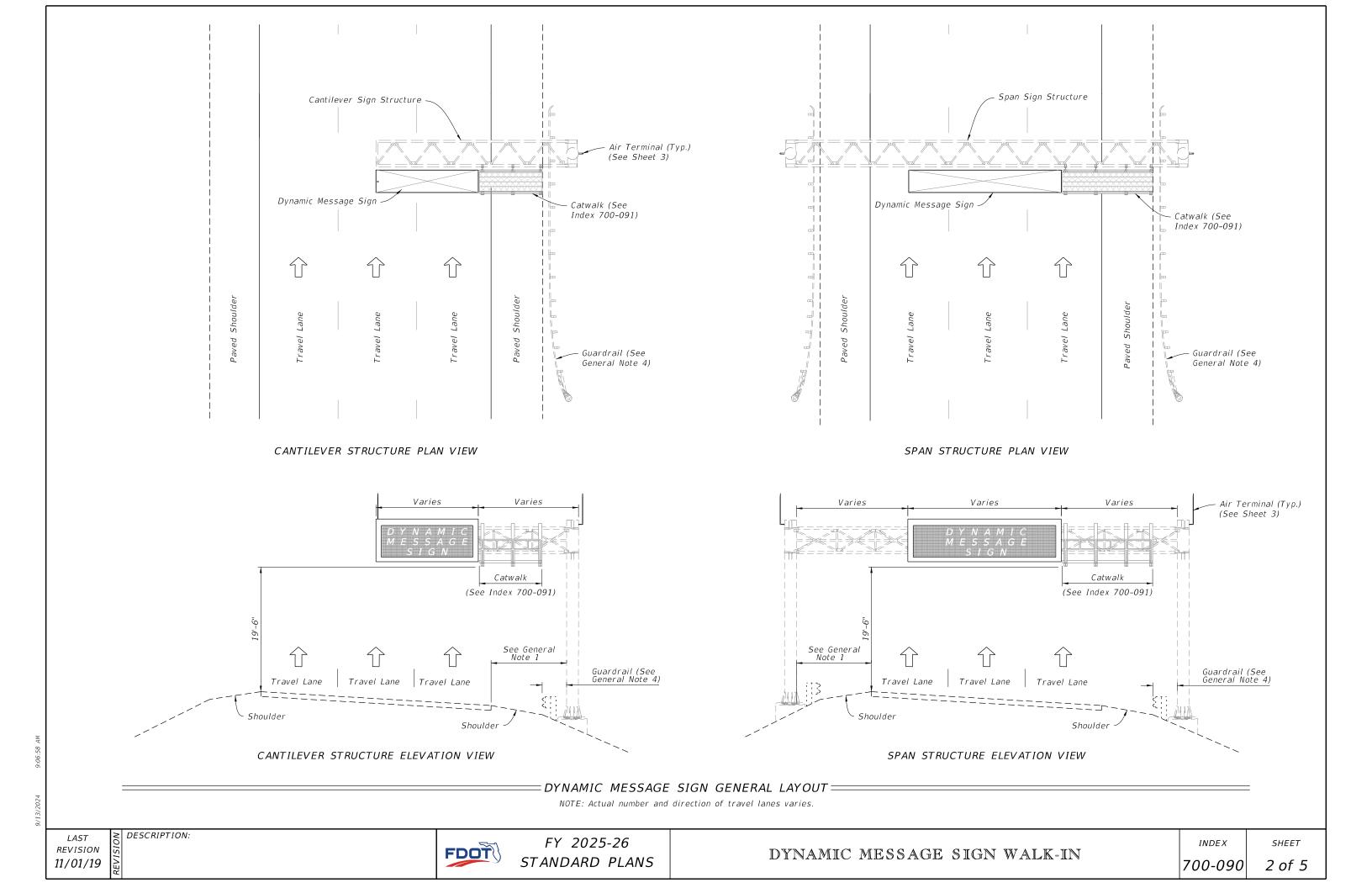
FDOT

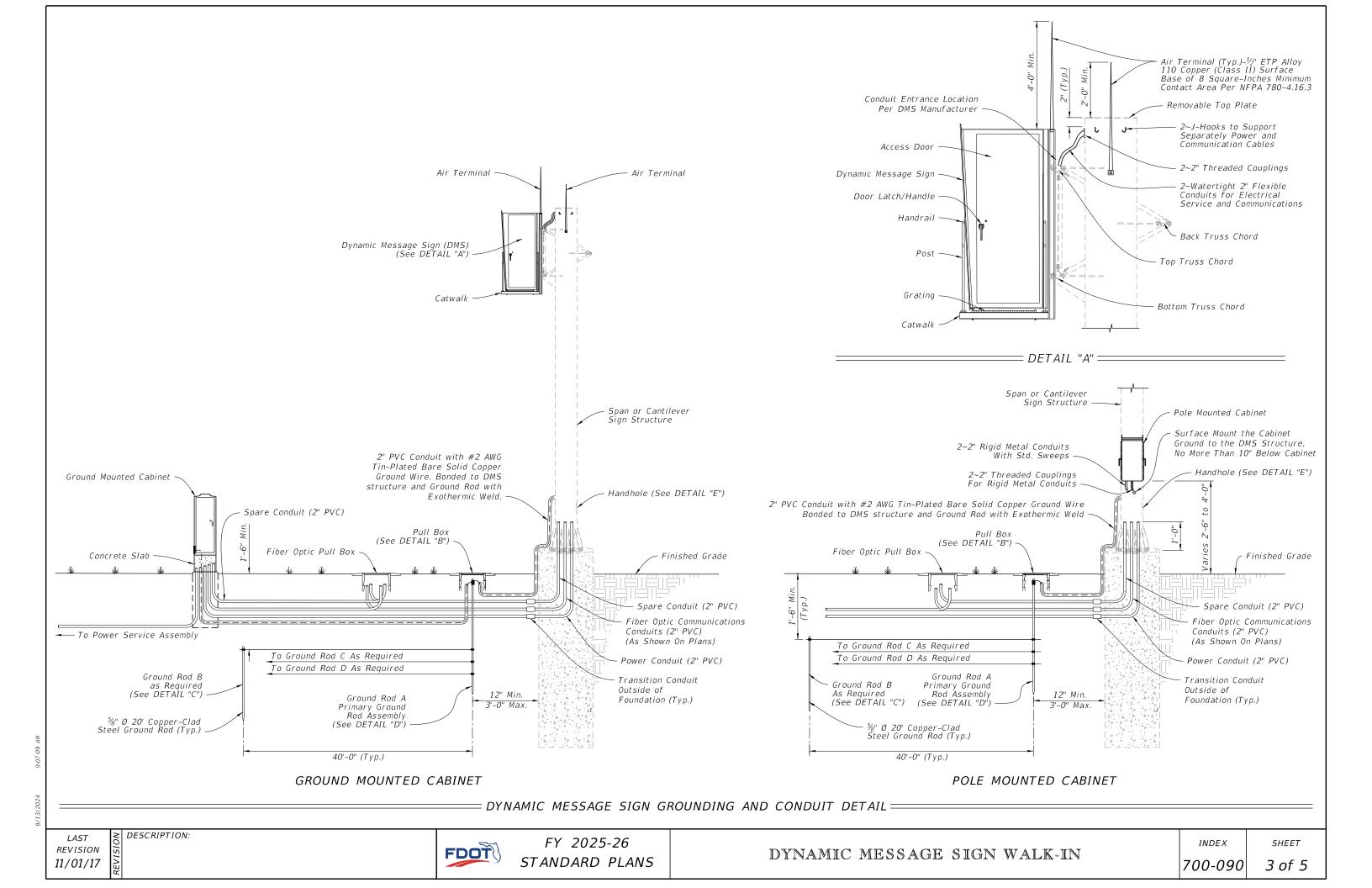
FY 2025-26 STANDARD PLANS

DYNAMIC MESSAGE SIGN WALK-IN

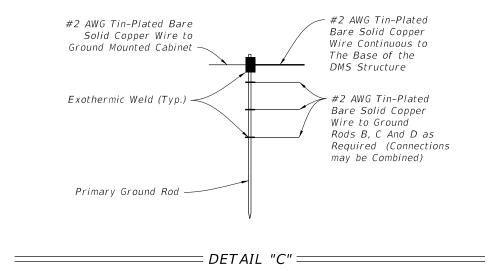
INDEX

SHEET

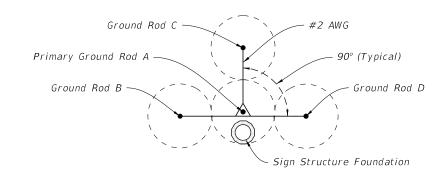








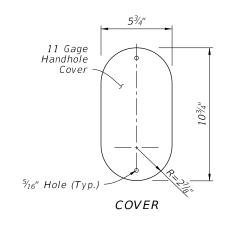
20' Radius Each "Sphere Of Influence"

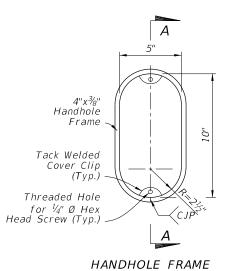


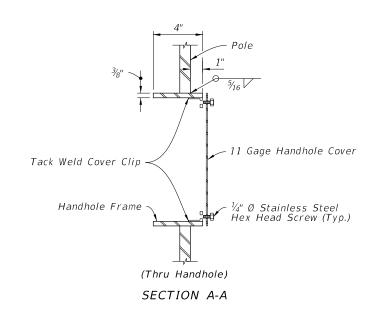
TYPICAL (20' Rods, 40' Spacing)

GROUND ROD ARRAY DETAIL

= DETAIL "D" =





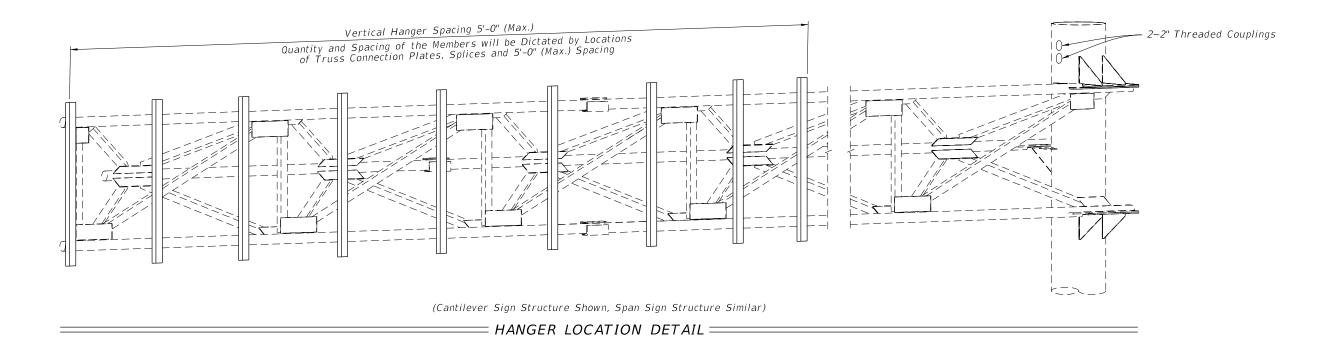


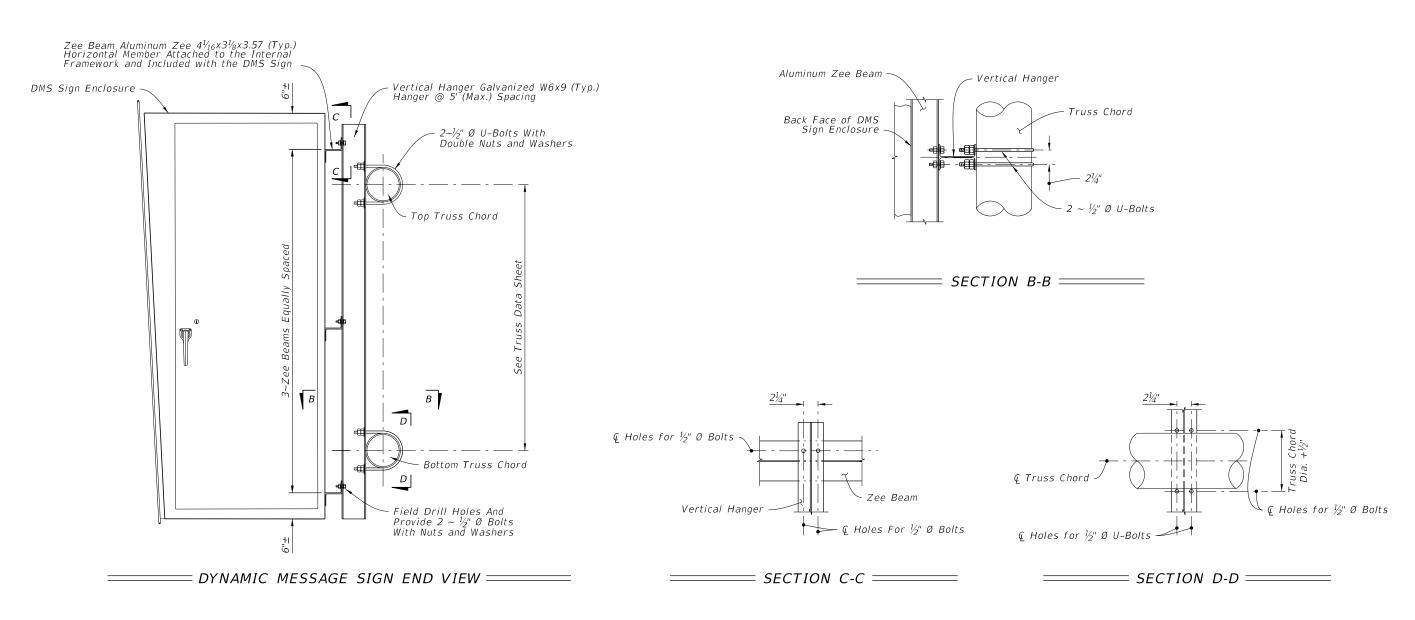
DETAIL "E"=

REVISION 11/01/24

DESCRIPTION:







REVISION 11/01/17

DESCRIPTION:

GENERAL NOTES:

- 1. Meet the requirements of Specification 700.
- 2. Shop Drawings are required:
- A. Provide length as shown in the Plans
- B. Design in accordance with AISC, AASHTO, and OSHA requirements
- B. Do not start fabrication until the shop drawings are approved
- 3. Catwalk hangers must be positioned to avoid conflicts with the sign structure truss and gusset plates. Place walkway close to the sign with a maximum open distance from walkway grate to DMS sign of $\frac{1}{2}$ ".
- 4. Maximum spacing of Catwalk hanger supports is 5'-0". Cantilever ends of grating is 8".
- 5. Galvanized steel catwalk grating meeting the requirements of Specification 504-2.3. Support a 90 psf load and have a $3\frac{1}{2}$ " minimum toe kick. Attach grating in accordance with the manufacturer's instructions using stainless steel or galvanized fasteners.
- 6. Supply and install an OSHA 1910 compliant, self closing, hot dip galvanized safety Install per manufactures instructions.
- 7. Chain link fabric options (2" mesh with knuckled selvage top and bottom for all opti
 - A. AASHTO M181 Type I Zinc Coated Steel, No. 9 gage (coated wire diameter), at the rate of 1.8 oz/ft². (M181 Class D 2.0 oz./ft². modified to 1.8 oz./ft².).
 - B. AASHTO M181 Type II Aluminum Coated Steel, No. 9 gage (coated wire diame coated at the rate of 0.40 oz./ft2.
- 8. Install 2" NPS (Sch. 40) guiderail and posts: ASTM A53 Grade B for standard weight
- 9. Materials:
 - A. Steel plates ASTM A 36 or A709 Grade 36.
 - B. W-Sections: ASTM A572 Grade 36 or 50.

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						Cantilever Sign Structure (See Index 700-040)
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		Travel Lane	La,	ne		
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DMS (See Index 700-090)

TABLE OF CONTENTS:							
Description							
General Notes and Content							
General Assembly and Fixed Base Details							
Walkway Support Details							

CATWALK ASSEMBLY = (Cantilever Shown, Span Similar)

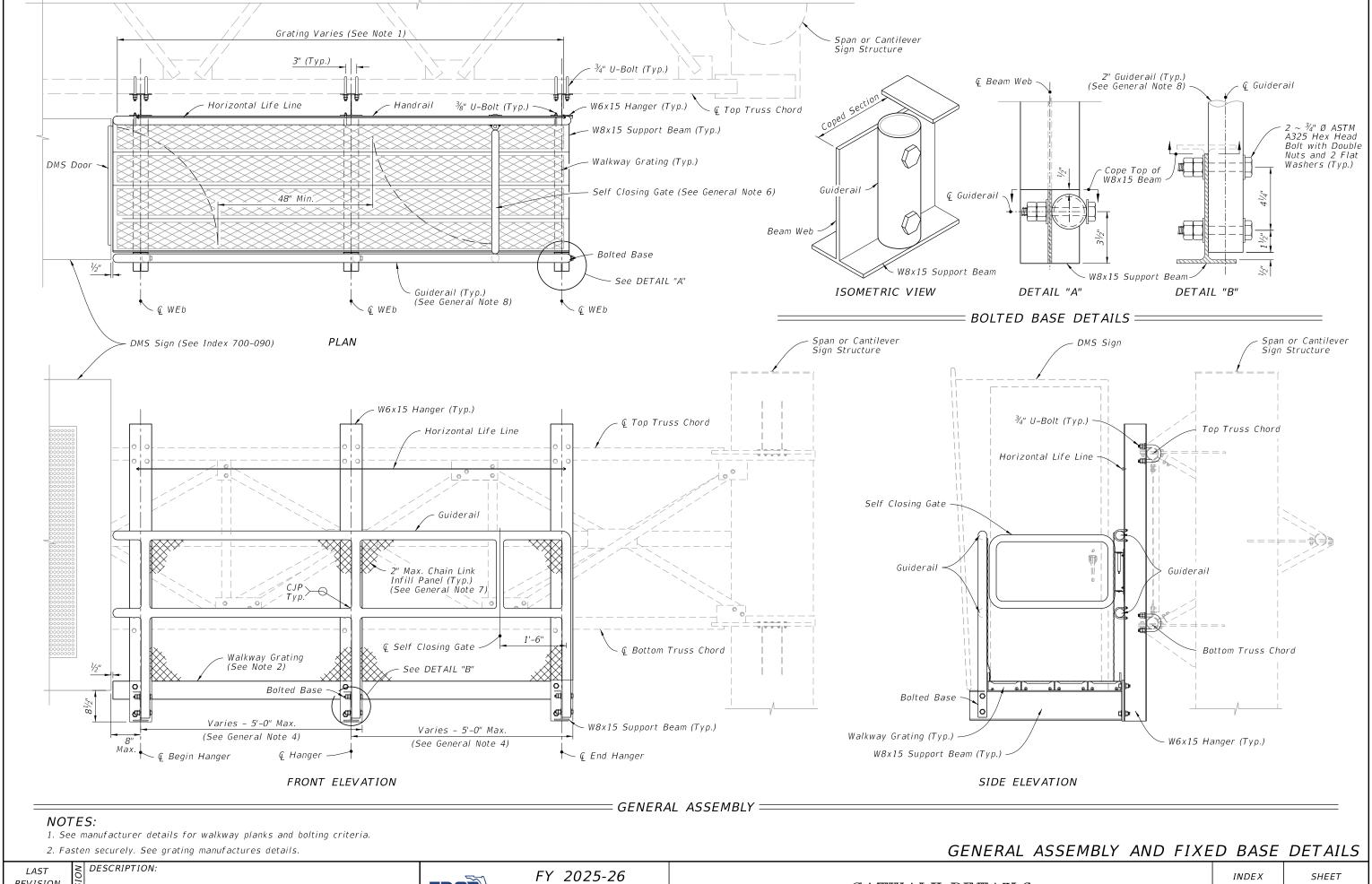
LAST REVISION 11/01/22

DESCRIPTION:



700-091

1 of 3



REVISION 11/01/19

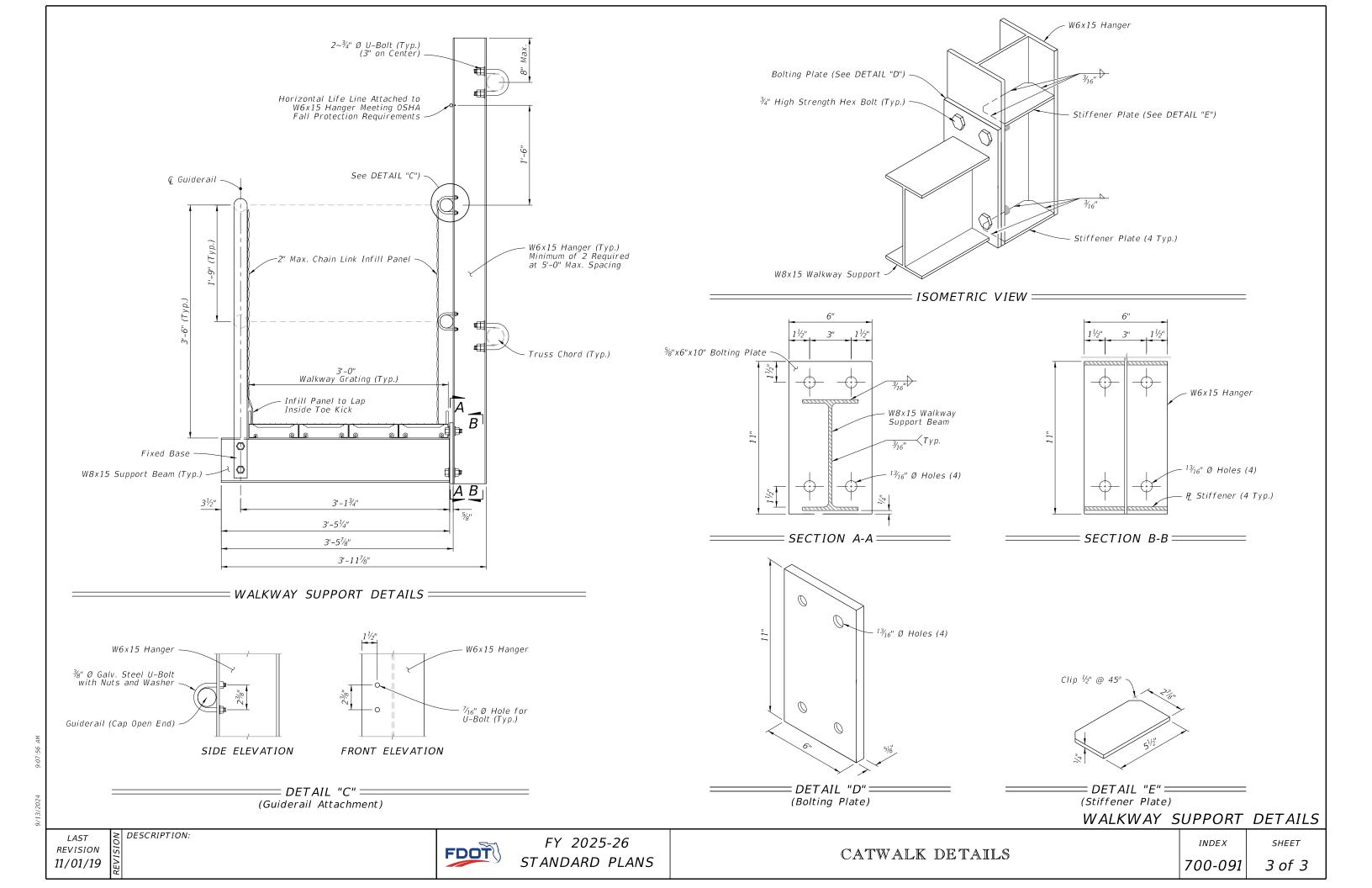
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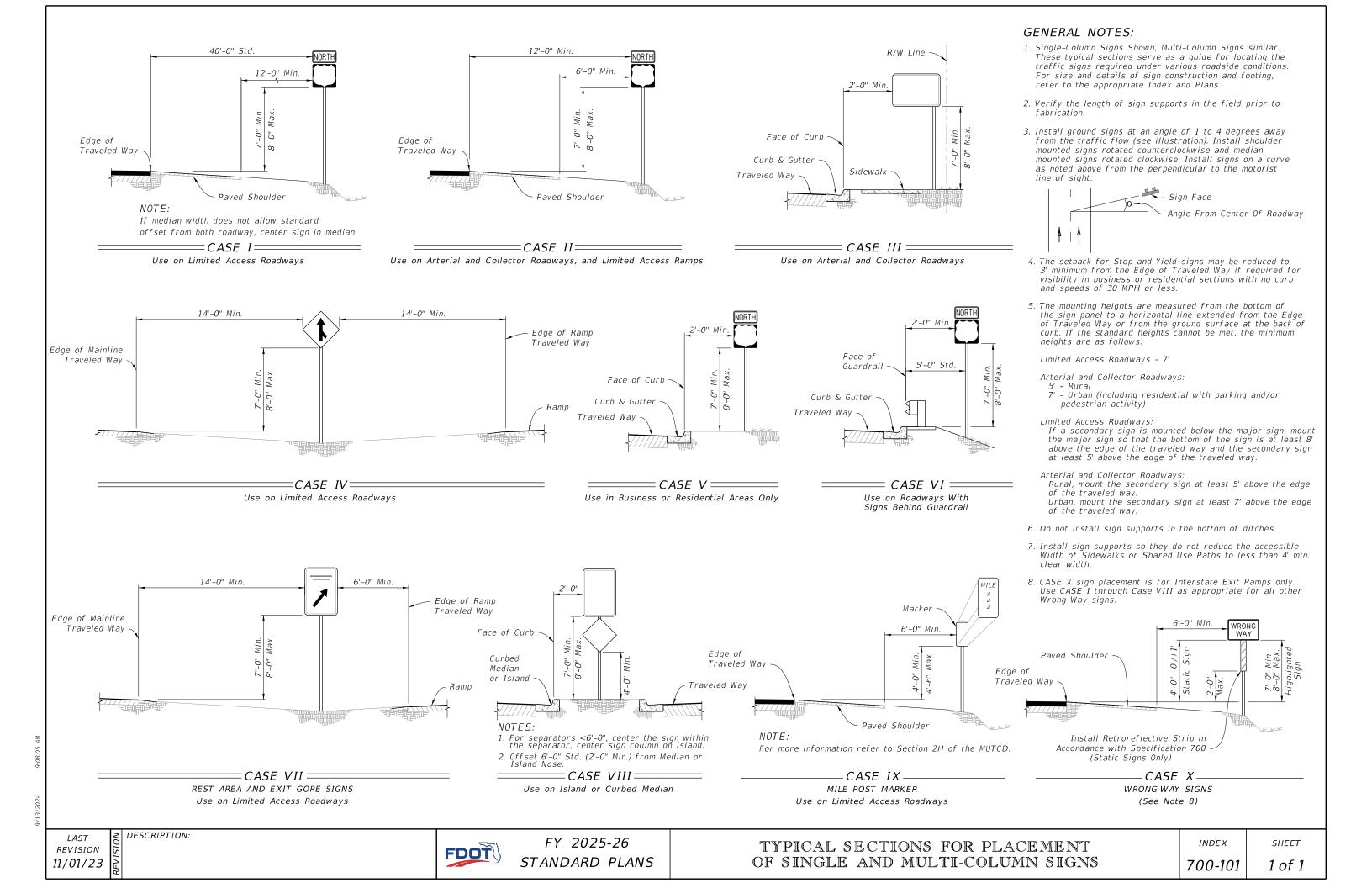
STANDARD PLANS

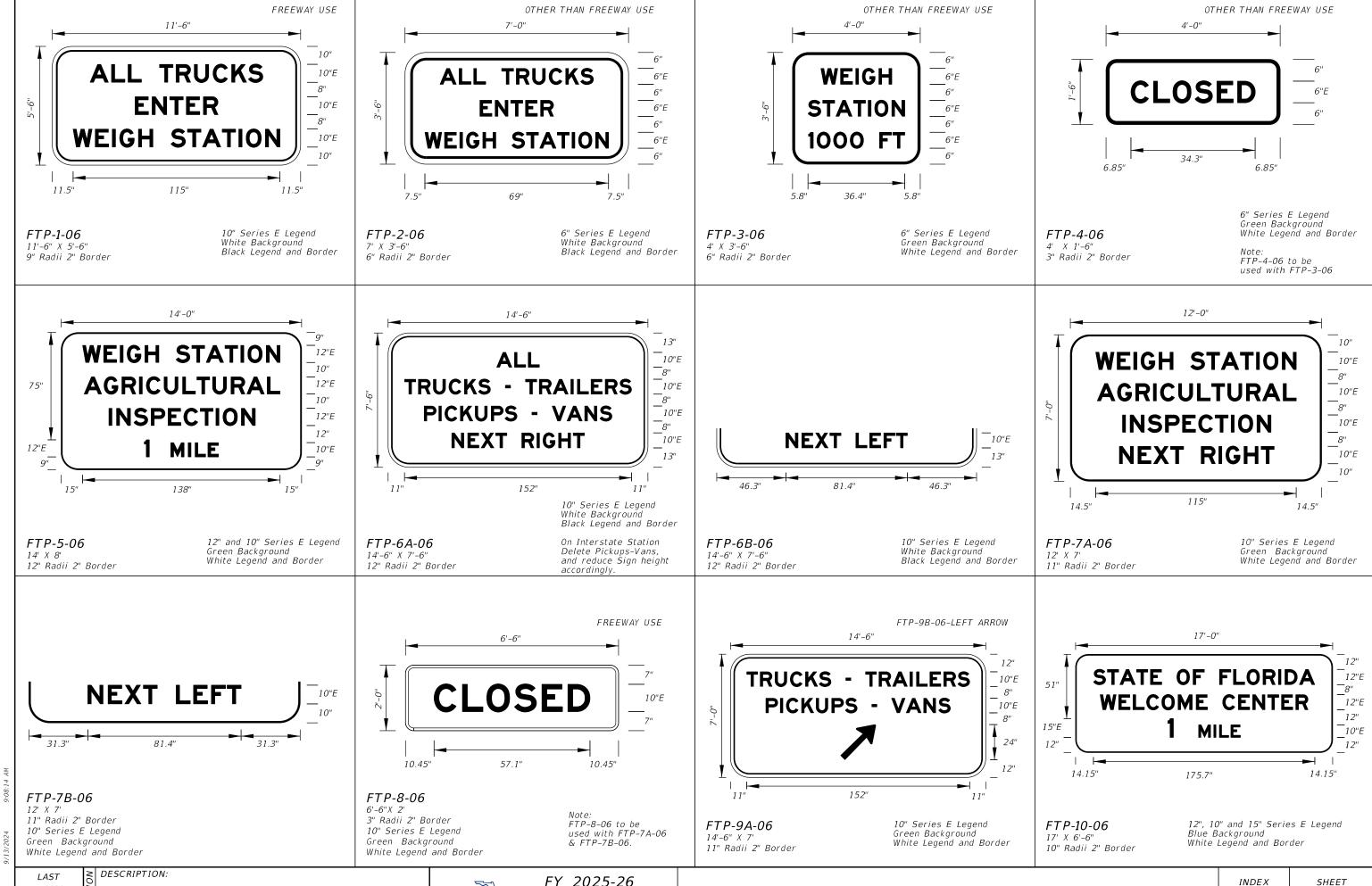
CATWALK DETAILS

700-091

2 of 3

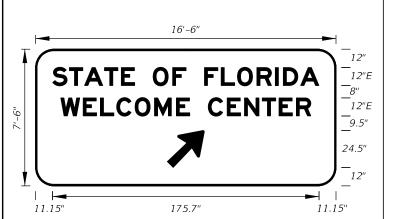






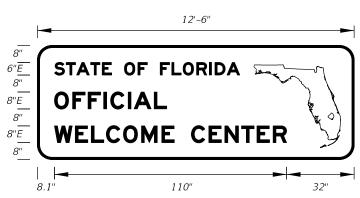
REVISION

11/01/20



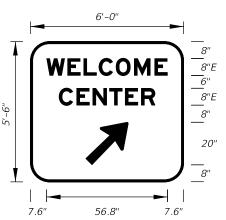
FTP-11-06

16'-6" X 7'-6" 12" Radii 2" Border 12" Series E Legend Blue Background White Legend and Border



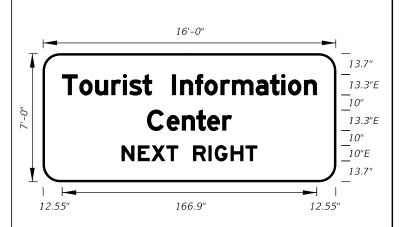
FTP-12-06 12'-6" X 4'-6"

7" Radii 2" Border 6" and 8" Series E Legend Blue Background White Legend and Border



FTP-13-06

6' 0" X 5'-6" 9" Radii 2" Border 8" Series E Legend Blue Background White Legend and Border



FTP-14-06

16'-0" X 7'-0" 11" Radii 2" Border 13.3 and 10" Series E Legend Blue Background White Legend and Border



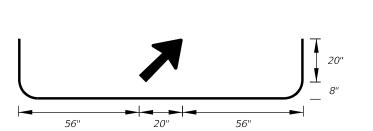
FTP-15A-06

11'-0" X 4'-6" 7" Radii 2" Border 8" Series E Legend Blue Background White Legend and Border



FTP-15B-06

11'-0" X 5'-0" 8" Radii 2" Border 8" and 12" Series E Legend Blue Background White Legend and Border



FTP-15C-06

11'-0" X 5'-6" 9" Radii 2" Border 8" Series E Legend Blue Background White Legend and Border



FTP-17-10 3'-0" X 4'-0" 1.5" Radii 3/4" Border 7" Series B Legend Green Background White Legend, Border, and Florida Symbol



FTP-18-10 4'-0" X 5'-0"

3" Radii 1 1/4" Border 8" Series B Legend Green Background White Legend, Border, and Florida Symbol



FTP-16-10 2'-6" X 3'-0"

1.5" Radii 3/4" Border 5" Series B Legend Green Background White Legend, Border, and Florida Symbol

DESCRIPTION:

FDOT

FY 2025-26 STANDARD PLANS

SPECIAL SIGN DETAILS

INDEX 700-102

SHEET

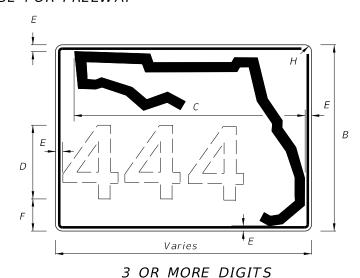
REVISION 11/01/20

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

NOTES:

- 1. Stroke width of State Outline shall be 1".
- 2. 2½" Radii

INDEPENDENT USE FOR FREEWAY = 1 OR 2 DIGITS



NOTES:

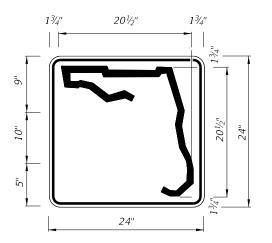
- 1. Florida marker shall have Black Legend with White Background.
- 2. Stroke width of State outline shall be 13/4" for Guide Sign.
- 3. Series D Legend.
- 4. %" Border

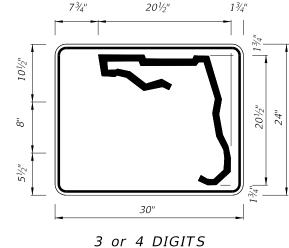
DESCRIPTION:

В D Ε G Н 30" 24" 26" 12" 11/4" 11/4" 23/4" 81/4" 36" 30" 32" 15" 31/4" 11/4" 36" 38" 15" 11" 11/4"

GUIDE SIGN USE

=FTP-17-06 - FLORIDA ROUTE MARKER=





1 or 2 DIGITS

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

NUMERAL	SERIES	PANEL
SIZE	LEGEND	SIZE

30" x 24"

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"

DIGITS

4

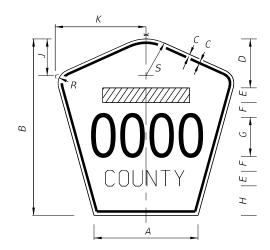
8"

3. 1½" Radii

=INDEPENDENT USE OTHER THAN FREEWAY=

NOTES:

- 1. Series D Legend.
- 2. Color: Yellow Legend and Border on Blue Background.
- 3. When used on 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.



	DIMENSIONS								Rectangular				
SIGN	Α	В	С	D	Ε	F	G	Н	J	К	R	S	Yellow Background
4 DIGIT POST MOUNTED	25½"	42"	3/4"	10"	4"	4"	8"	8"	8¾"	22"	5"	83/4"	Dimensions (See Note 3)
2 DIGIT OVERHEAD	21½"	36"	1/2"	7½"	3"	3"	12"	41/2"	71/8"	187/8"	41/4"	7½"	42"x 42"
3 DIGIT OVERHEAD	25½"	42"	3/4"	8"	4"	4"	12"	6"	8¾"	22"	5"	83/4"	48"x 48"
4 DIGIT OVERHEAD	297/8"	48"	3/4"	8"	5"	5"	12"	8"	9¾"	25 ⁵ / ₈ "	5¾"	101/4"	52"x 52"

= FTP-18-06 - COUNTY ROUTE MARKER (M1-6) ====

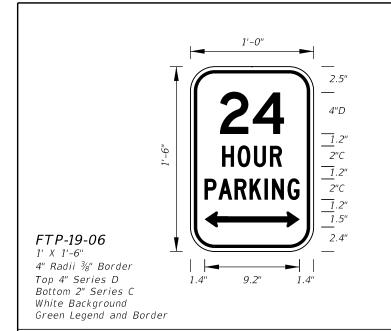
REVISION 11/01/20

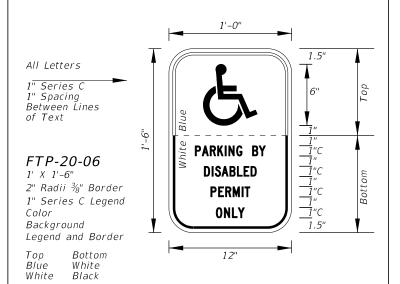


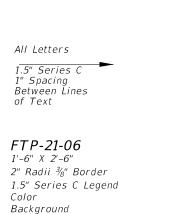
FY 2025-26 STANDARD PLANS

INDEX 700-102

SHEET 3 of 12







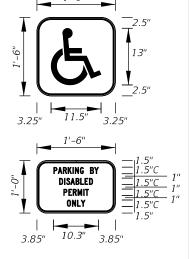
Legend and Border

White Black

Blue

Bottom

White

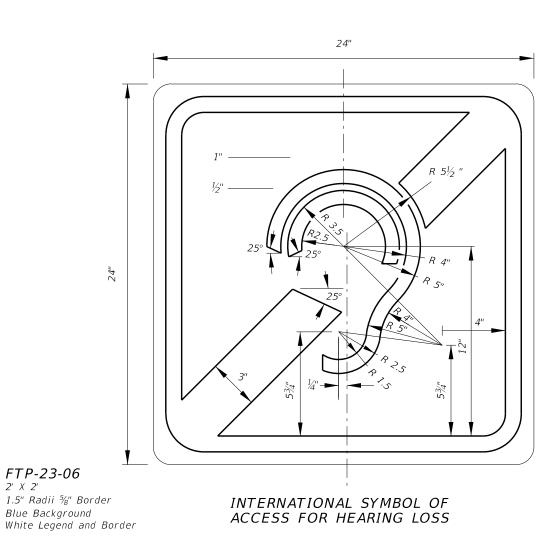


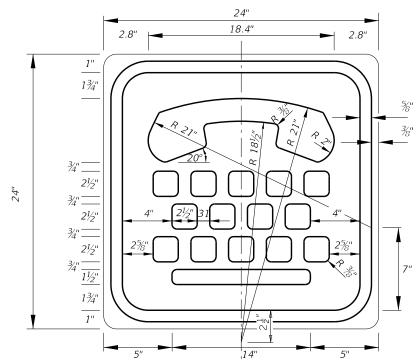


FTP-22-06

1' X 6" 1" Radii ¾" Border

1" Series C Legend White Background Black Legend and Border Supplemental Panel for the FTP-20-06 and FTP-21-06 signs





FTP-24-06 2' X 2' 1.5" Radii ⅓" Border Blue Background White Legend and Border

INTERNATIONAL TDD SYMBOL

REVISION 11/01/20

DESCRIPTION:

2' X 2'

FDOT

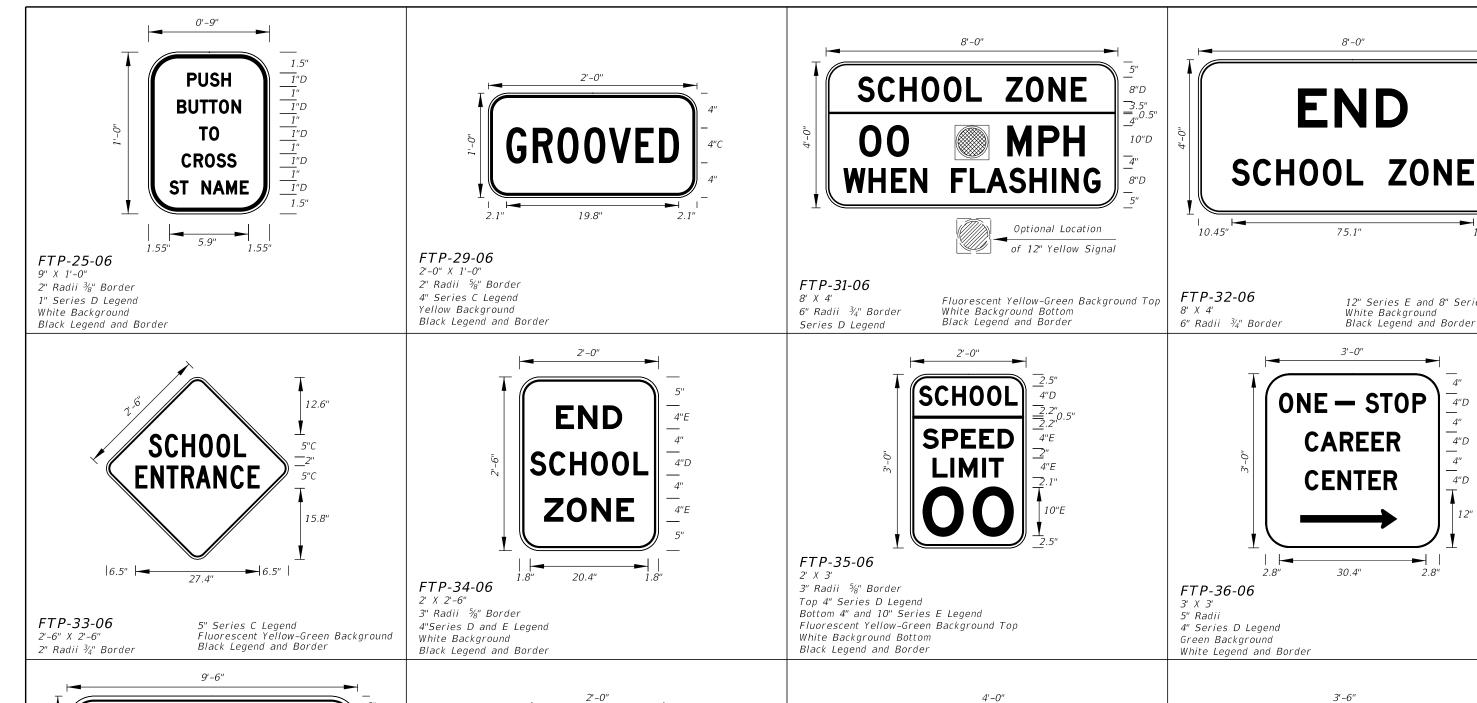
FY 2025-26 STANDARD PLANS

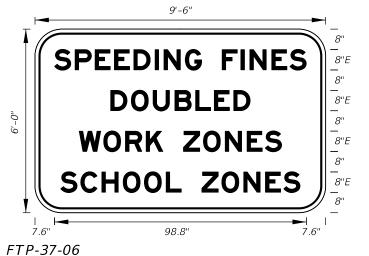
SPECIAL SIGN DETAILS

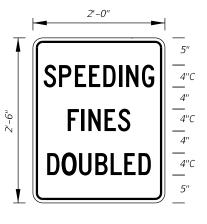
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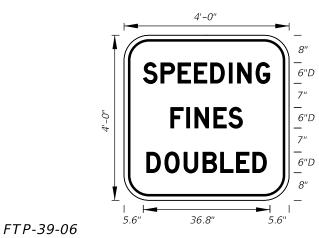
SHEET 4 of 12

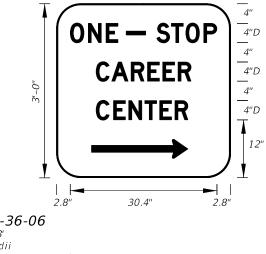
700-102











8'-0"

75.1"

3'-0"

10"

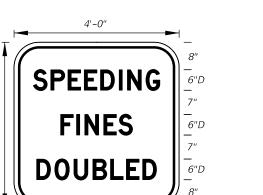
8"D

10.45"

12" Series E and 8" Series D Legend

White Background

Black Legend and Border





FTP-40-21 3'-6" X 4' 6" Radii ¾" Border

3" and 6" Series C Legend White Background Black Legend and Border

White Background Black Legend and Border DESCRIPTION: REVISION 11/01/21

9" Radii 2" Border

8" Series E Legend

9'-6"X 6'

FDOT

FTP-38-22

1.5" Radii ½" Border

Black Legend and Border

White Background

4" Series C Legend 80% Spacing

2' X 2'-6"

State Line Sign

FY 2025-26 STANDARD PLANS 4' X 4'

6" Radii ¾" Border

6" Series D Legend

Black Legend and Border

White Background

Freeway Sign

INDEX

SHEET

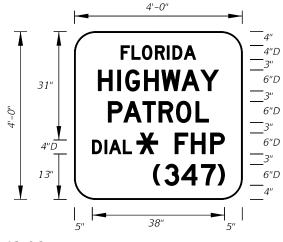


FTP-41-21 2'-6"X 3' 4" Radii ¾" Border 2" and 4" Series C Legend White Background Black Legend and Border



FTP-42-06

4'X 2'-6" 3" Radii Top 4" Series C Legend Bottom 2" Series EM Legend White Background Blue Legend and Border



FTP-43-06

4' X 4' 6" Radii 1" Border Top 4" Series D Legend Bottom 6" Series D Legend Blue Background White Legend and Border

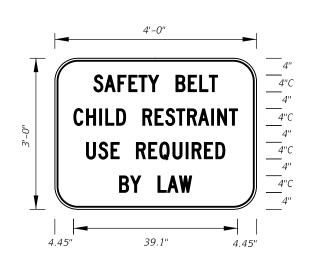


FTP-44-06

9' X 6'

9" Radii ¾" Border

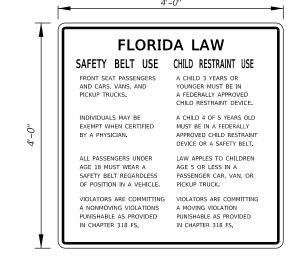
8" Series D Legend White Background Black Legend and Border



FTP-44A-25 4' X 3'

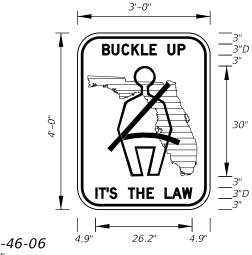
5" Radii ¾" Border

4" Series C Legend White Background Black Legend and Border



FTP-45-25 4'-0" X 4'-0" 1.5" Radii 0.4" Border

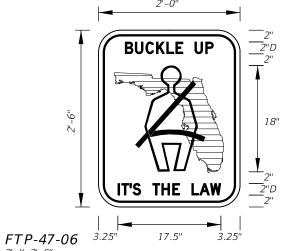
2.5" Series C Legend 2" Series C Legend 1.5" Series C Legend and White Background Black Legend and Border



FTP-46-06 3' X 4'

5" Radii ¾" Border 3" Series D Legend

White Background Green Florida Symbol Black Legend, Border and Man Belt Symbol



2' X 2'-6"

3" Radii ¾" Border 2" Series D Legend

Green Florida Symbol White Background Black Legend, Border and Man Belt Symbol



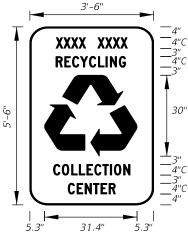
FTP-48-06

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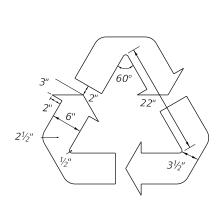
6" Radii 4" Series C Legend Green Background

3'-6" X 5' White Legend, Border and Symbol DESCRIPTION:

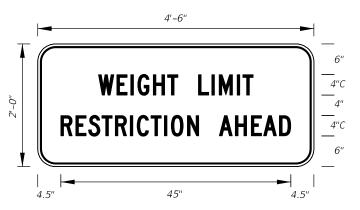


FTP-49-06 3'-6" X 5'-6" 6" Radii 4" Series C Legend Green Background

Municipality Name Optional White Legend, Border and Symbol



Detail for FTP-48-06 and FTP-49-06



FTP-50-06 4'-6" X 2'

3" Radii ¾" Border 4" Series C Legend Yellow Background Black Legend and Border

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SPECIAL SIGN DETAILS



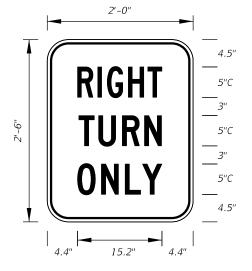
FTP-51-06 3' X 2' 3" Radii ¾" Border

5" Series D Legend

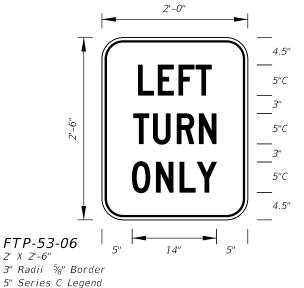
White Background

Black Legend and Border

4" Series E Legend Black Legend and Border



FTP-52-06 2' X 2'-6" 3" Radii ¾" Border 5" Series C Legend White Background Black Legend and Border



FTP-54L-06 4' X 5' 6" Radii ¾" Border 10" Series D Legend

8.8" 10"D

> FTP-54R-06 for (Right Turn Arrow)

4.5" 5"D FTP-55L-06 2' X 2'-6" 3" Radii ¾" Border

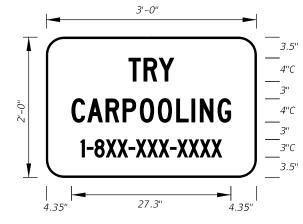
FTP-55R-06 for (Right Turn Arrow)



FTP-56-06 6'-6"X 4'

6" Radii ¾" Border 8" and 6" Series D Legend Blue Background White Legend and Border

Design Project Manager or Transit Administrator will supply correct 1-8XX



FTP-56A-06

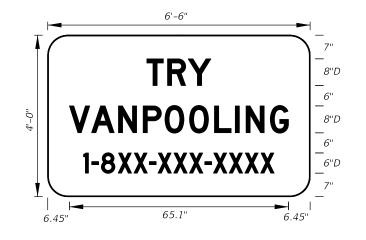
2' X 2'-6"

White Background

Black Legend and Border

3' X 2' 3" Radii 4" and 3" Series C Legend Blue Background White Legend and Border

Design Project Manager or Transit Administrator will supply correct 1-8XX



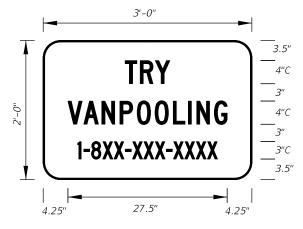
FTP-57-06

White Background

Black Legend and Border

6'-6" X 4' 6" Radii 8"and 6" Series D Legend Blue Background White Legend and Border

Design Project Manager or Transit Administrator will supply correct 1-8XX

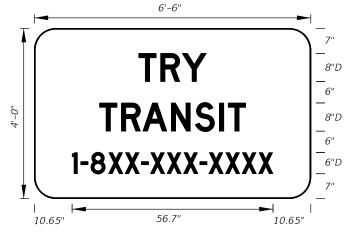


FTP-58-06

3' X 2' 3" Radii 4" and 3" Series C Legend Blue Background

DESCRIPTION:

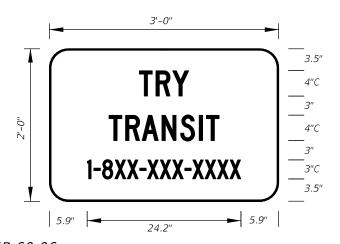
Design Project Manager or Transit Administrator will supply correct 1-8XX



FTP-59-06 6'-6" X 4'

6" Radii 8" and 6" Series D Legend Blue Background White Legend and Border

Design Project Manager or Transit Administrator will supply correct 1-8XX number



FTP-60-06

3' X 2' 3" Radii 4"and 3" Series C Legend Blue Background White Legend and Border

Design Project Manager or Transit Administrator will supply correct 1-8XX number.



FTP-61-06 3' X 2'

3" Radii ¾" Border

4" and 3" Series C Legend Yellow Background Black Legend and Border

White Legend and Border REVISION 11/01/24

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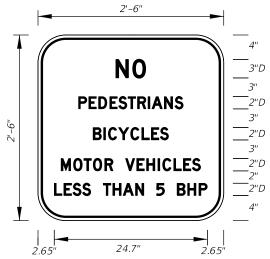
FTP-62-06

3' X 3'

2" Radii ¾" Border 4"and 5" Series C Legend Yellow Background Black Legend and Border



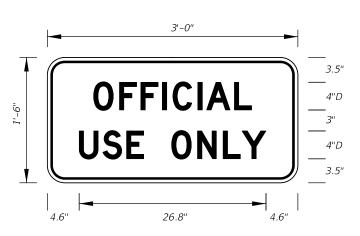
DETAIL for FTP-66 AND FTP-67



FTP-69-06 2'-6" X 2'-6"

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White Background Black Legend and Border



FTP-65-06 3' X 1'-6"

2" Radii ¾" Border

4" Series D Legend White Background Black Legend and Border



FTP-66-21

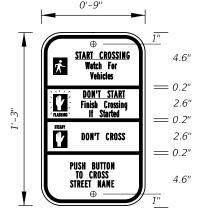
4' X 5' 3" Radii 1" Border 6" Series D Legend Blue Background White Legend and Border FTP-67-21 5.5' X 6'

3" Radii 1" Border 8" Series D Legend Blue Background

FLORIDA 16" 6" **TRAVEL** 8"D 6" **INFO** 8"D 6" 8"D 53" White Legend and Border

5'-6"

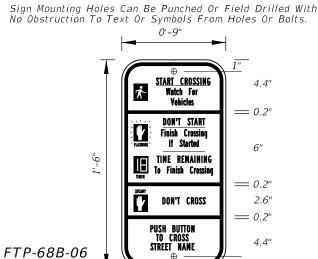
Sign Mounting Holes Can Be Punched Or Field Drilled With No Obstruction To Text Or Symbols From Holes Or Bolts.



FTP-68A-06 9" X 1'-3"

1.5" Radii ¾" Border Series B Legend White Background Black Legend and Border

See MUTCD R10-3f for for Letter Size, Spacing, and Symbol Sizes and Color

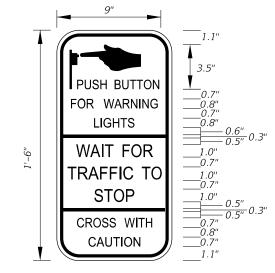


9" X 1'-6" 1.5" Radii ¾" Border Series B Legend White Background Black Legend and Border

FTP-71-06

4' X 4'

See MUTCD R10-3i for for Letter Size, Spacing, and Symbol Sizes and Color



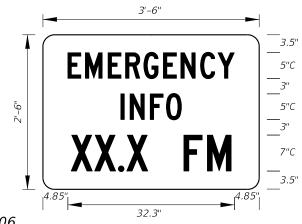
FTP-68C-21 9" X 1'-6" 1.5" Radii 1/4" Border

Series D Legend White Background Black Legend and Border

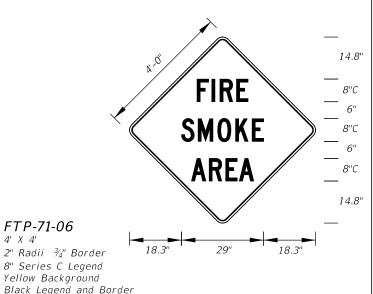


4" Radii ¾" Border

2" and 3" Series D Legend



FTP-70-06 3'-6" X 2'-6" 2.25" Radii ¾" Border 5" Series C and 7" Series C Legend Blue Background White Legend and Border



12.3" **FIRE** 6"C **SMOKE** 6"C **AREA** 6"C 12.3"

FTP-72-06 3' X 3' 2" Radii ¾" Border 6" Series C Legend Yellow Background Black Legend and Border

DESCRIPTION: REVISION

FDOT

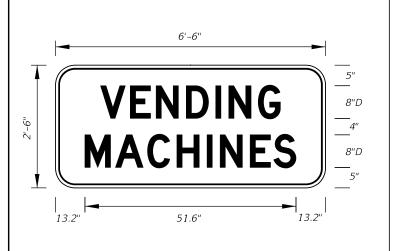
FY 2025-26 STANDARD PLANS

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FTP-73-06 6'-6" X 2'-6" 4" Radii ¾" Border

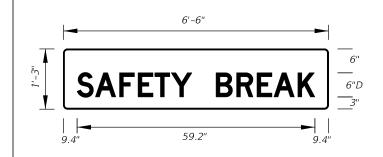
8" Series D Legend Blue Background White Legend and Border



FTP-74-06 6'-6" X 2'-6"

4" Radii ¾" Border 6" Series D Legend

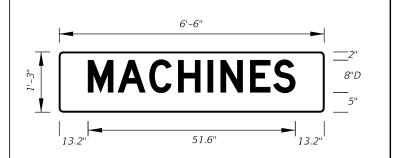
Blue Background White Legend and Border



FTP-75-06

6'-6" X 1'-3" 1" Radii

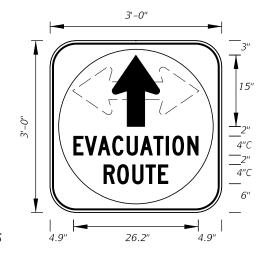
6" Series D Legend Blue Background White Legend



FTP-76-06

6'-6" X 1'-3" 1" Radii

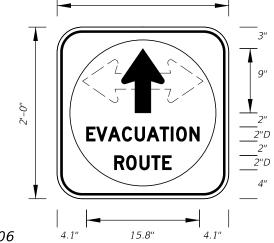
8" Series D Legend Blue Background White Legend



FTP-77-06 3' X 3'

5" Radii ¾" Border

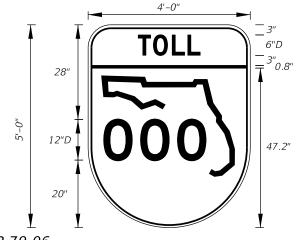
4" Series C Legend White Background with Blue Circle Background White Legend and Black Border



FTP-78-06 2' X 2'

3" Radii ¾" Border 2" Series D Legend

White Background with Blue Circle Background White Legend and Black Border



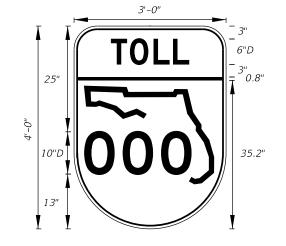
FTP-79-06 4' X 5'

3.5"

3.5" 5"D 6" Radii ¾" Border

6" and 12" Series D Legend

Top Yellow Background with Black Legend and Black Border Bottom White Background with Black Legend and Border



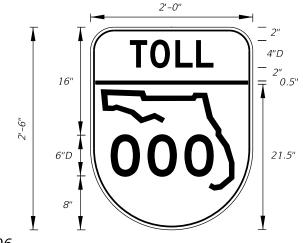
FTP-80-06

3' X 4'

5" Radii ¾" Border

6"and 10" Series D Legend

Top Yellow Background with Black Legend and Black Border Bottom White Background with Black Legend and Border



FTP-81-06

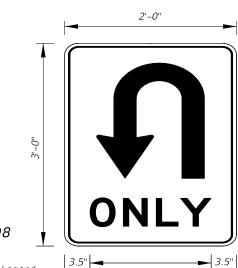
2' X 2'-6"

3" Radii ¾" Border

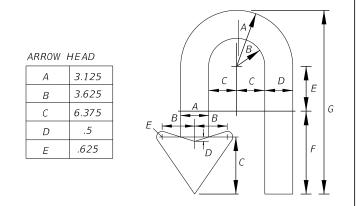
4" and 6" Series D Legend

Top Yellow Background with Black Legend and Black Border Bottom White Background with Black Legend and Border

DESCRIPTION:

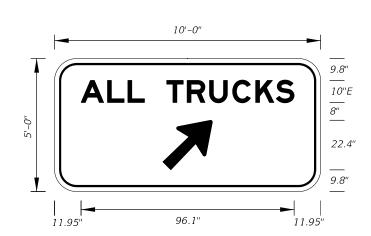


FTP-82-08 2' X 3' 1.5" Radii 5" Series D Legend White Background Black Legend and Border



ARROW BODY G D 6.25 3.125 3.125 3.125 9.25 20.5

FTP-82-08 Details



FTP-83-08 10'-0" X 5'-0" 8" Radii

10" Series E Legend Green Background White Legend

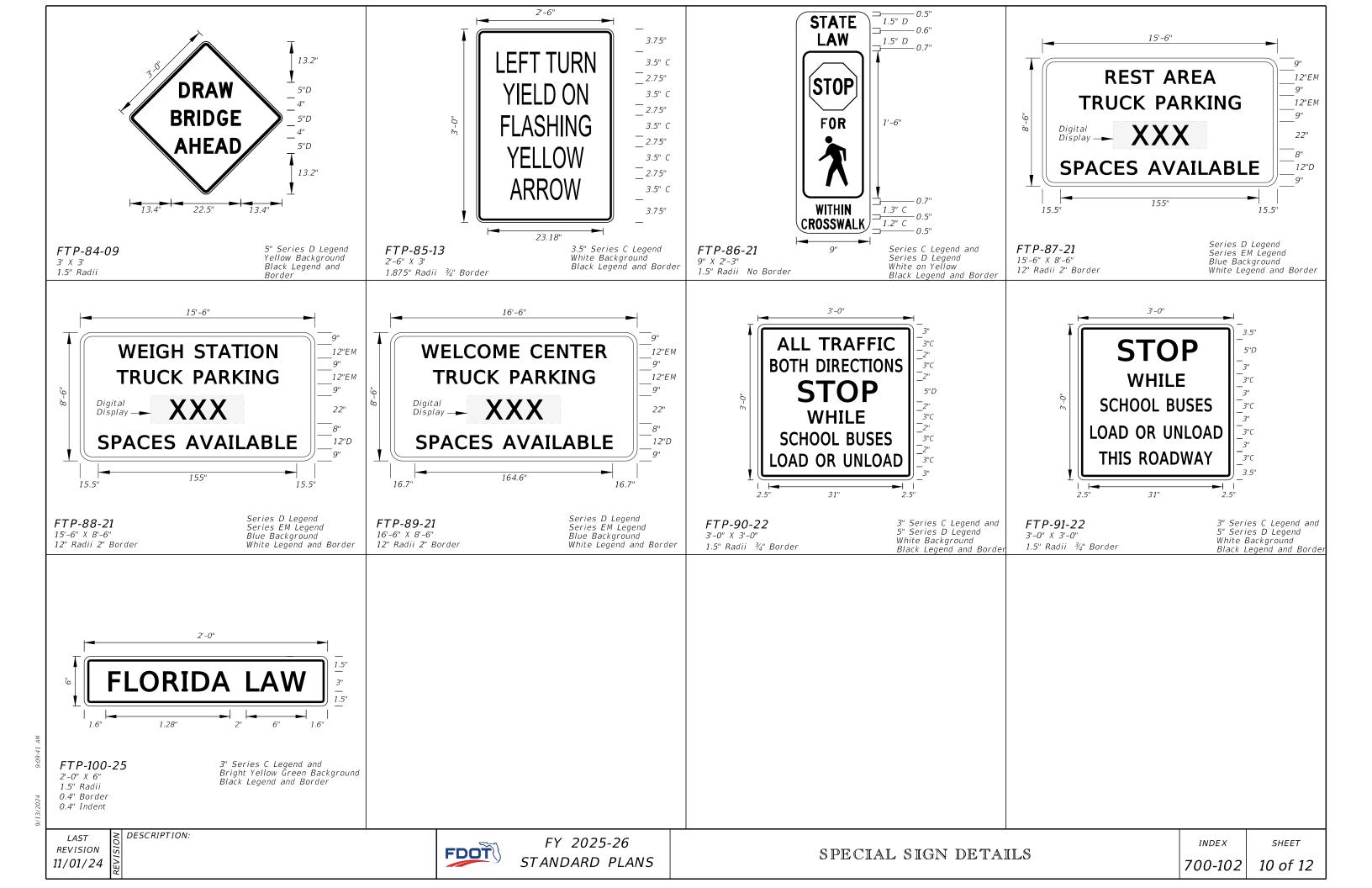
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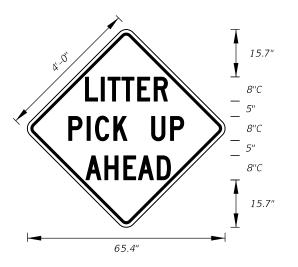
SPECIAL SIGN DETAILS

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MOT-1-22 4' X 4' 3" Radii ³4" Border 8" Series C Legend Orange Background Black Legend and Border

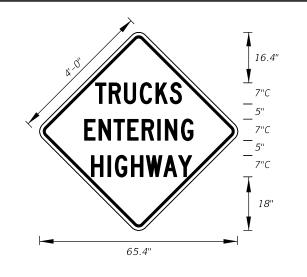


MOT-4-22 4' X 4' 3" Radii ¾" Border 8" Series C Legend Orange Background Black Legend and Border

7" Series D Legend

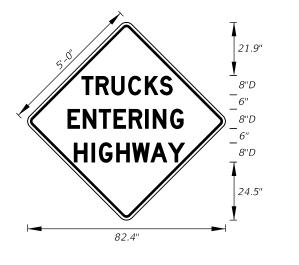
Orange Background

Black Legend and Border

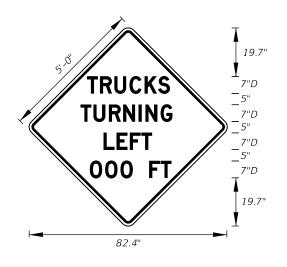


MOT-5-22 4' X 4' 3" Radii ³/₄" Border

7" Series C Legend Orange Background Black Legend and Border



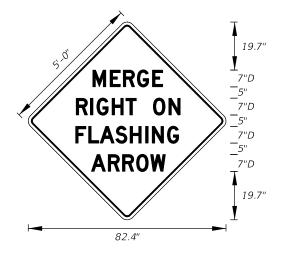
MOT-6-22 5' X 5' 3" Radii ³4" Border 8" Series D Legend Orange Background Black Legend and Border



MOT-7-22 5' X 5'

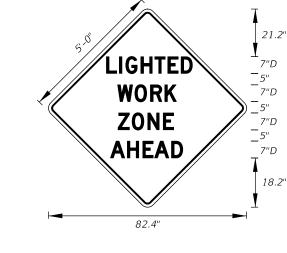
3" Radii ¾" Border

7" Series D Legend Orange Background Black Legend and Border



MOT-8-22

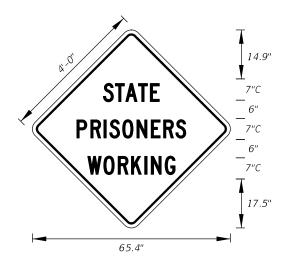
5' X 5' 3" Radii ¾" Border



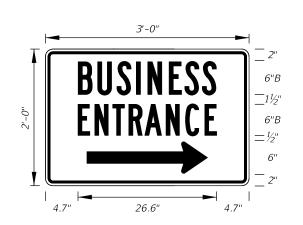
MOT-9-22 5' X 5'

3" Radii ¾" Border

7" Series D Legend Orange Background Black Legend and Border



 7" Series C Legend Orange Background Black Legend and Border



MOT-11-06 3' X 2'

3" X 2" 2" Radii ¾" Border 6" Series B Legend Blue Background White Legend and Border



MOT-12R-06

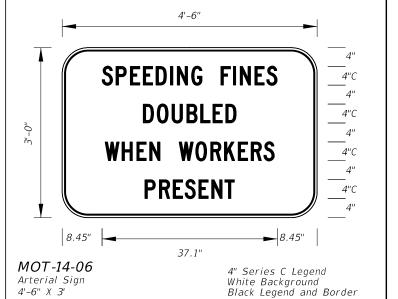
2' X 1' 2" Radii ¾" Border 2" Series B Legend White Background Black Legend and Border



MOT-13-06 Freeway Sign 6' X 4'

6" Radii ¾" Border

6" Series C Legend White Background Black Legend and Border



LAST O DESCRIPTION:

FDOT

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MOT-12L-06

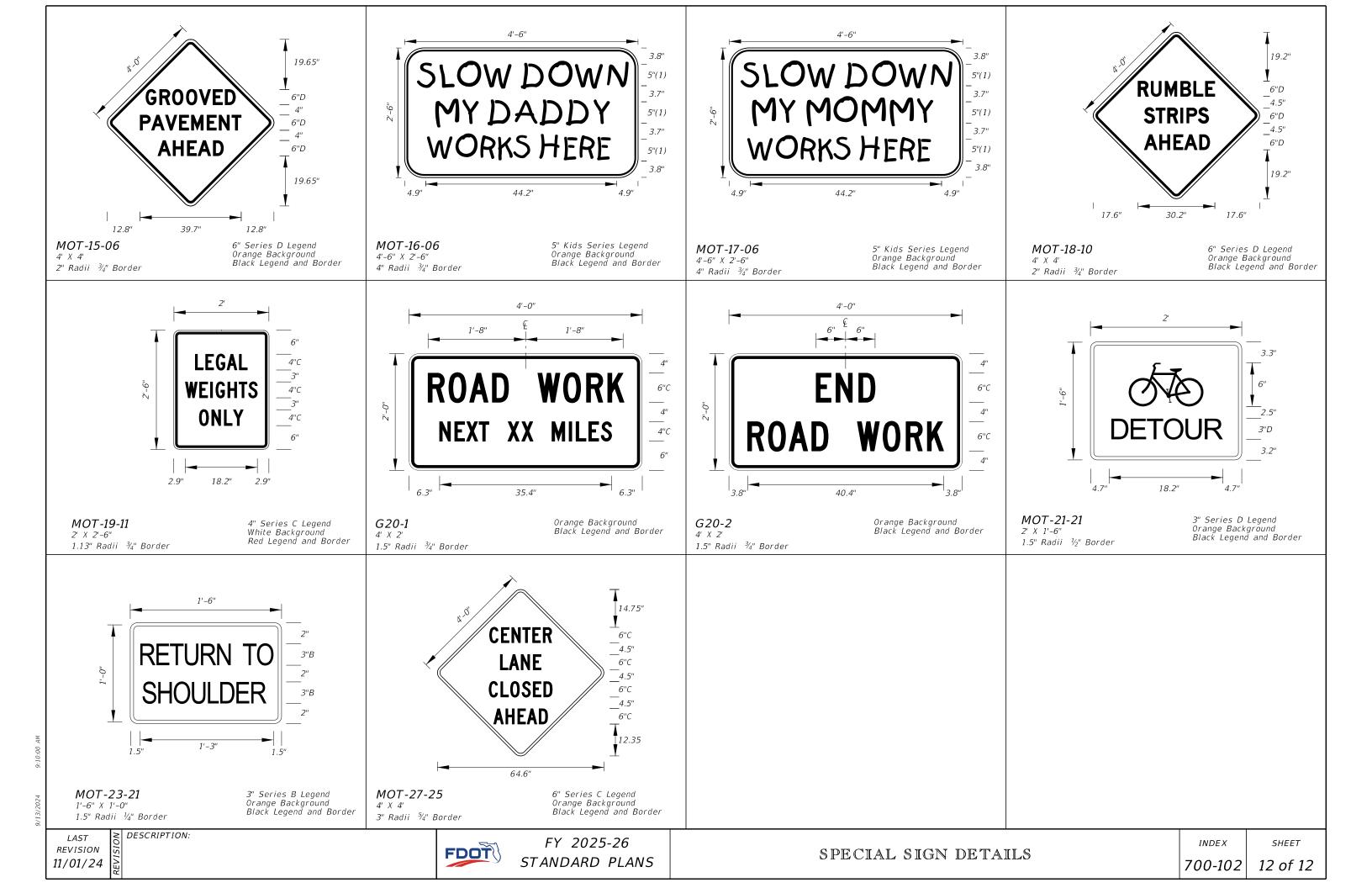
For Diversion to the left

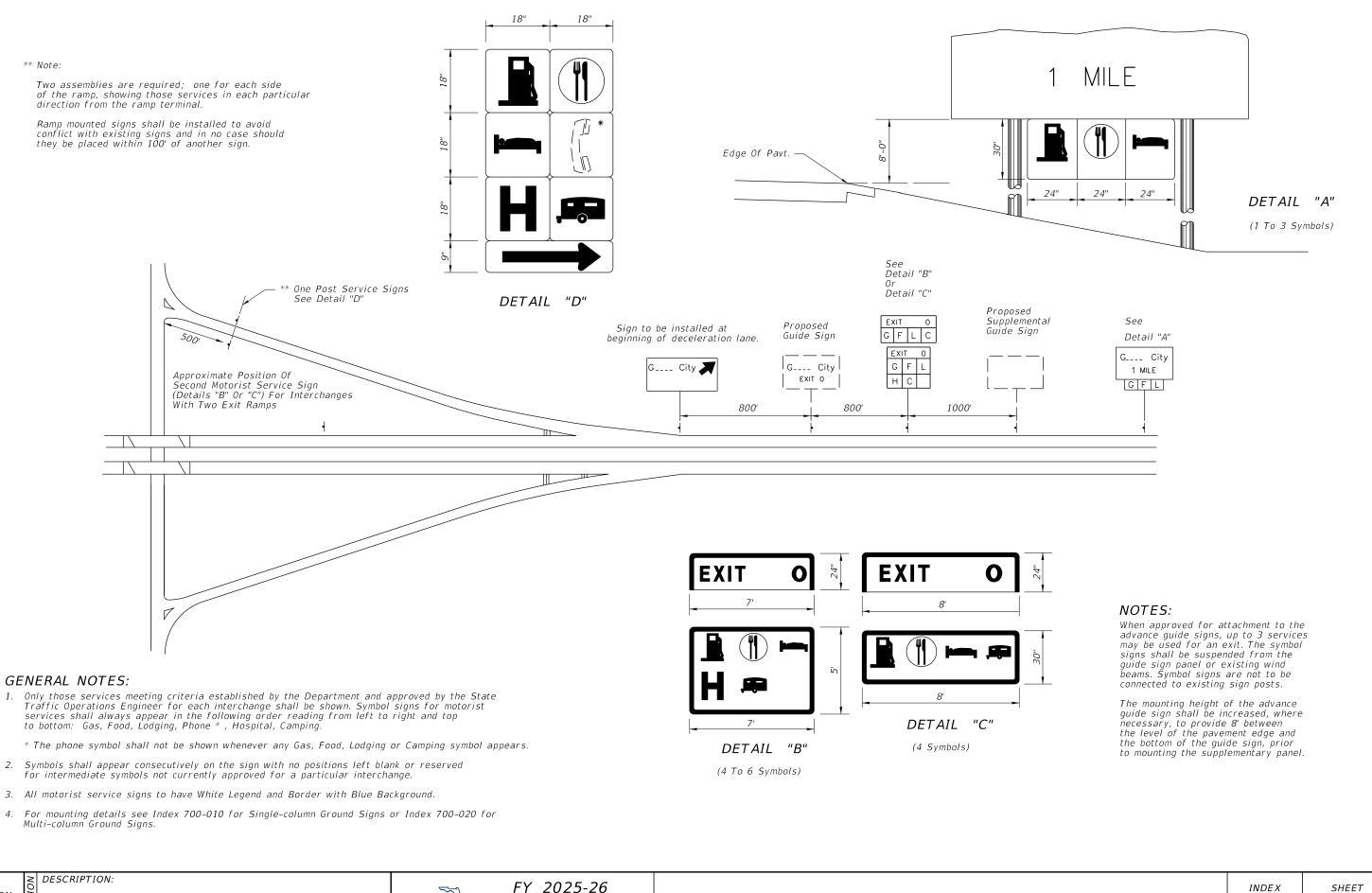
SPECIAL SIGN DETAILS

5" Radii ¾" Border

INDEX SHEET

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REVISION 11/01/19

STATE OF FLORIDA **WELCOME CENTER** MILE

STATE OF FLORIDA **WELCOME CENTER**

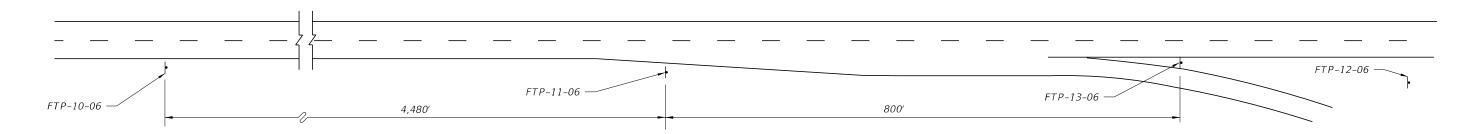
STATE OF FLORIDA **OFFICIAL WELCOME CENTER** WELCOME **CENTER**

Sign FTP-10-06

Sign FTP-11-06

Sign FTP-12-06

Sign FTP-13-06



Note: Roadway not drawn to scale Distances shown are adequate for driver communication but may be altered slightly if conditions require.

Tourist Information Center **NEXT RIGHT**

Sign FTP-14-06

Note: Sign FTP-14-06 shall be used as a supplemental guide sign at interchanges which have a Tourist Information Center approved for such signing (locate half-way between normal guide signs)

Notes:

- 1. Signs and sign structures shall be erected in accordance with the details shown on Index 700-020.
- 2. Sign FTP-12-06 shall be located on the Welcome Center grounds in proximity to the building and as far from the main line roadway as possible (2 signs back to back).
- 3. Sign FTP-10-06, 11-06, 12-06 shall be located as limited access highways only.
- 4. All legend to be Series E.
- 5. See Index 700-102 for sign details.

FOR LIMITED ACCESS HIGHWAYS

REVISION 11/01/17

DESCRIPTION:

FDOT

FY 2025-26 STANDARD PLANS

STATE OF FLORIDA **WELCOME CENTER** MILE

SIGN FTP-15A-06

STATE OF FLORIDA **OFFICIAL WELCOME CENTER**

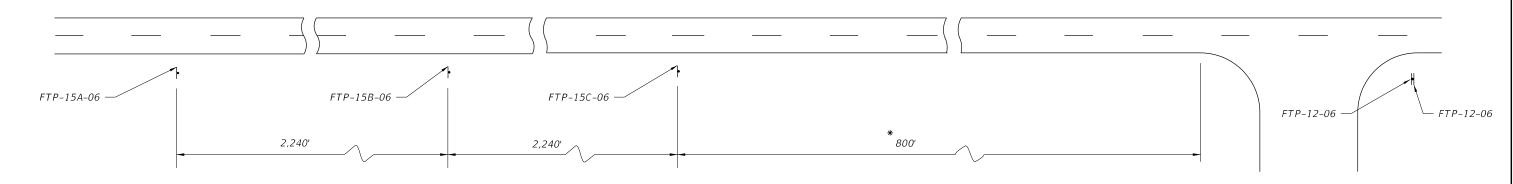
SIGN FTP-12-06

1/2 MILE

SIGN FTP-15B-06



SIGN FTP-15C-06



* 800' Maximum For Rural Conditions 50' Minimum For Rural Conditions

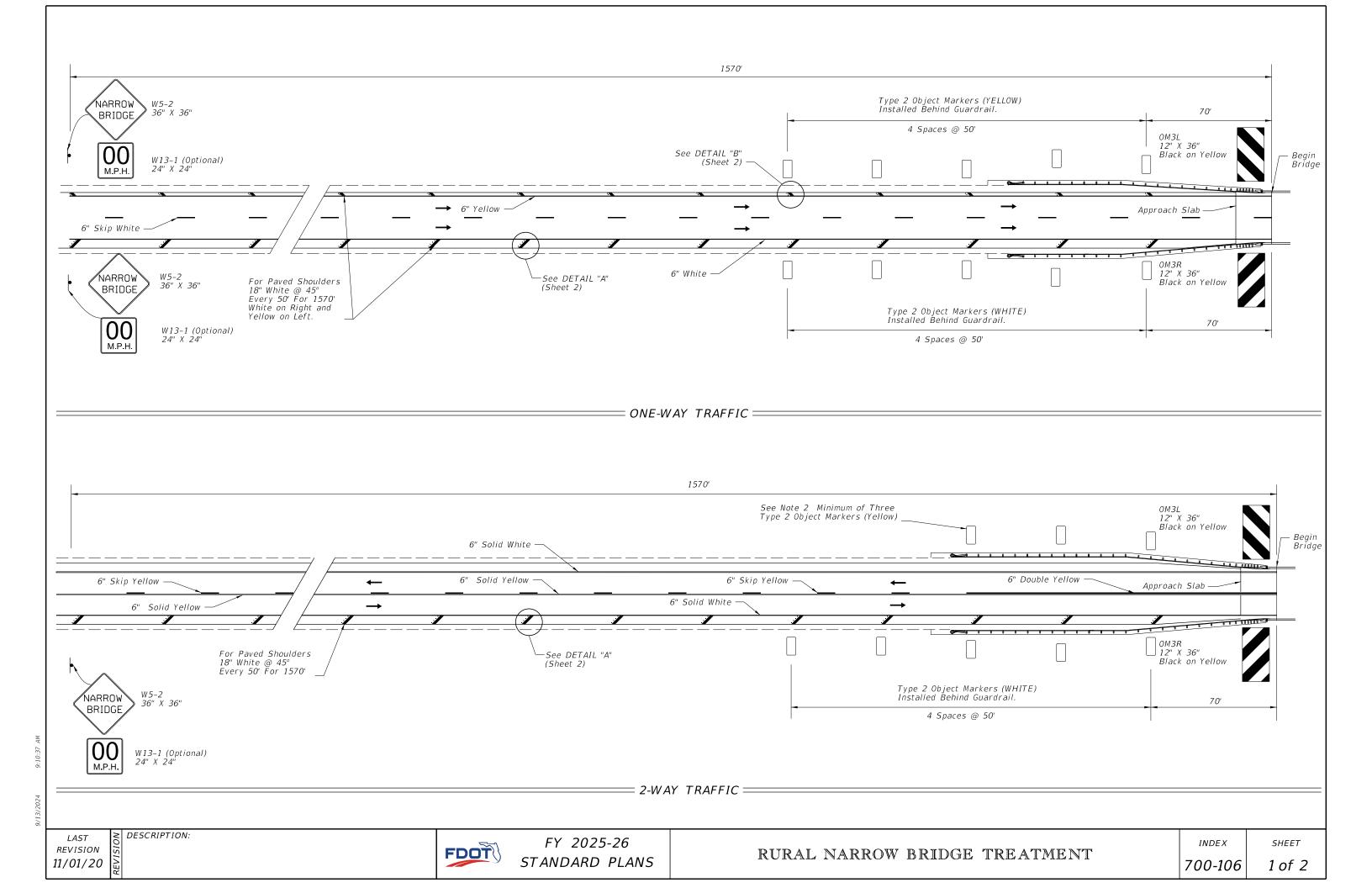
NOTES:

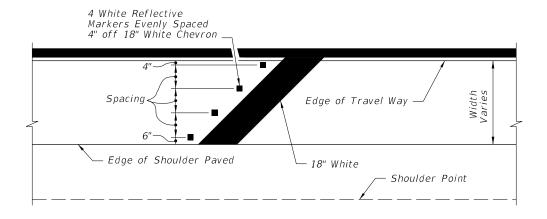
- 1. Signs and sign structures shall be erected in accordance with the details shown on Index 700-020.
- 2. Sign FTP-12-06 shall be located on the Welcome Center grounds in proximity to the building and as far from the Main Line Roadway as possible (2 signs back to back).
- 3. All legend to be Series E.
- 4. One sign FTP-15A-06 or 15B-06 should be used depending on speed, roadside development & geometric conditions.

FOR PRIMARY HIGHWAYS

REVISION 11/01/17

DESCRIPTION:

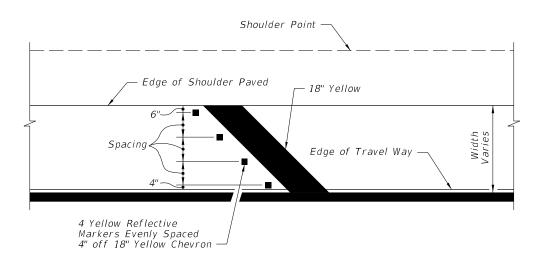




Direction of Travel

NOTES:

- 1. Roadways with Two-Way Traffic: No passing zone should be extended 1570' in advance of narrow bridge.
- 2. If the bridge or the approach is on a curve, delineators shall be installed for a distance of 1570' in advance of narrow bridge on the outside portion of the roadway. Spacing shall be 100' between delineators. Delineators are to be placed not less than 2' or not more than 8' outside the outer edge of pavement.
- 3. Object markers and delineators on both sides of roadway shall face traffic approaching bridge
- 4. The OM-3R & OM-3L object markers shall be installed 4' above the roadway edge. The panels may be post mounted at the bridges.
- 5. Install Audible and Vibratory treatments (e.g., ground-in rumble strips or profiled thermoplastic) in accordance with the Plans.

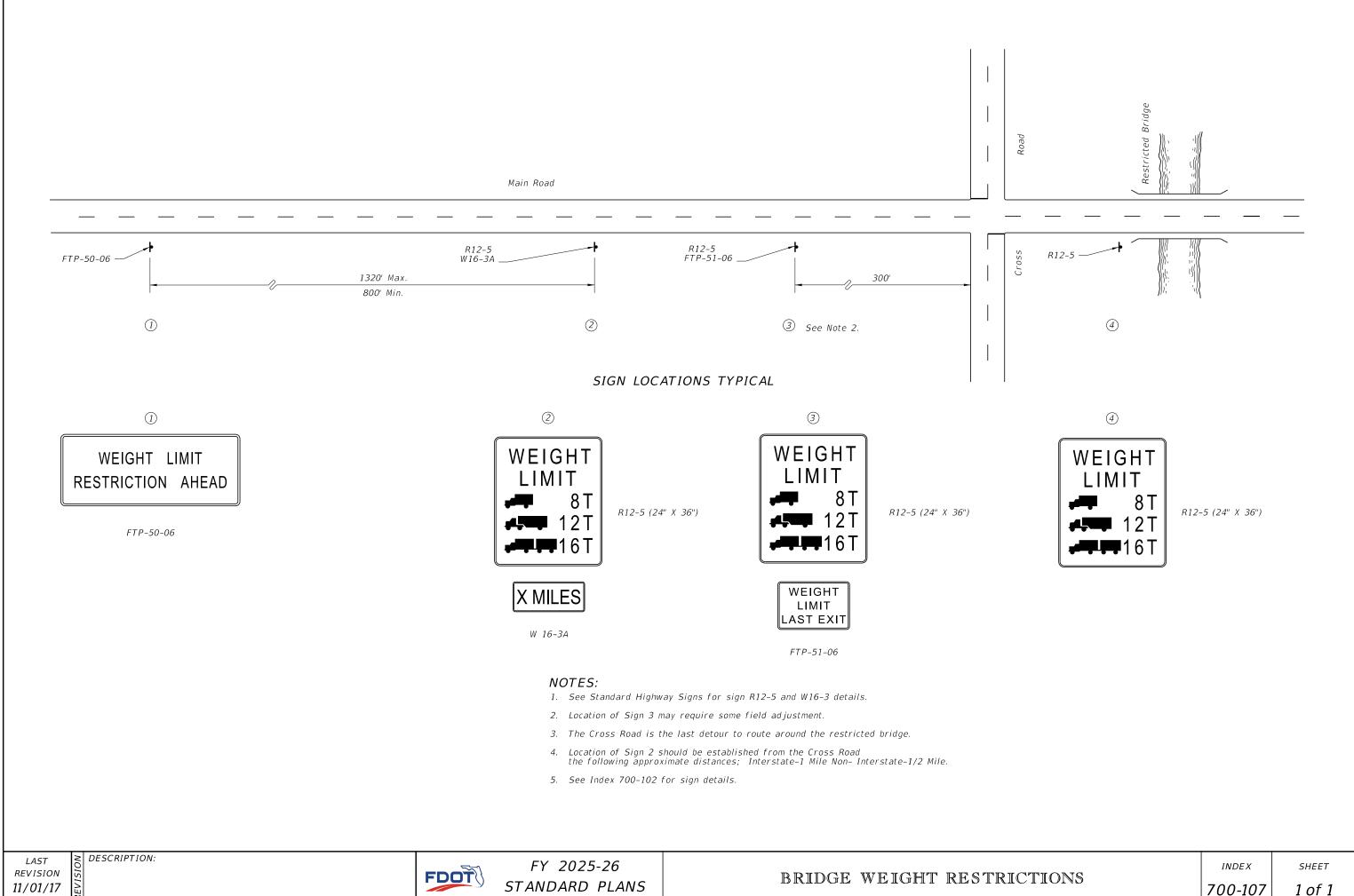


Direction of Travel

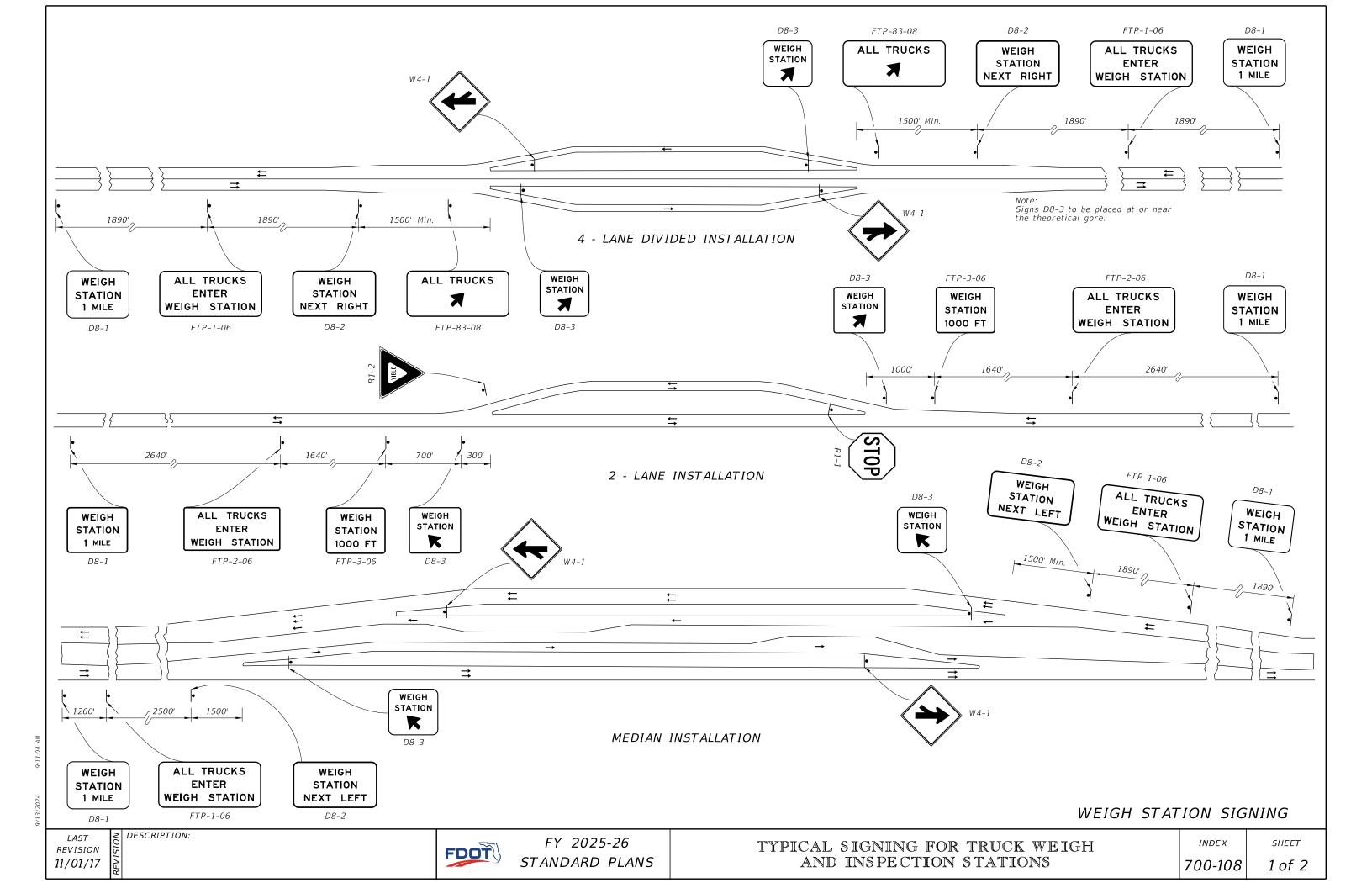
Shoulder Width	No. of RPM's	Spacing
2'	2	14"
3'	3	13"
4'	3	19"
5'	4	16.67"

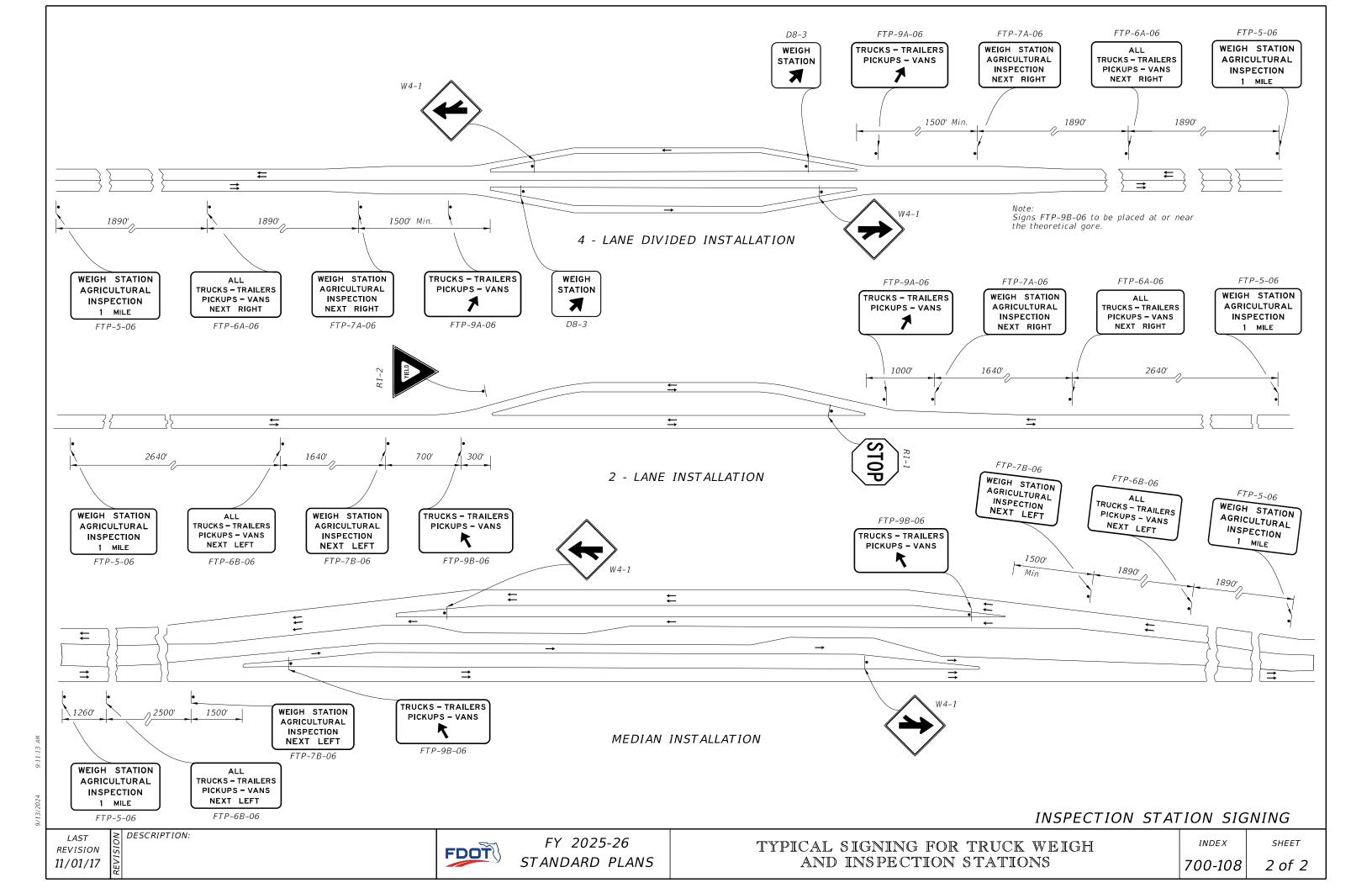
DESCRIPTION:





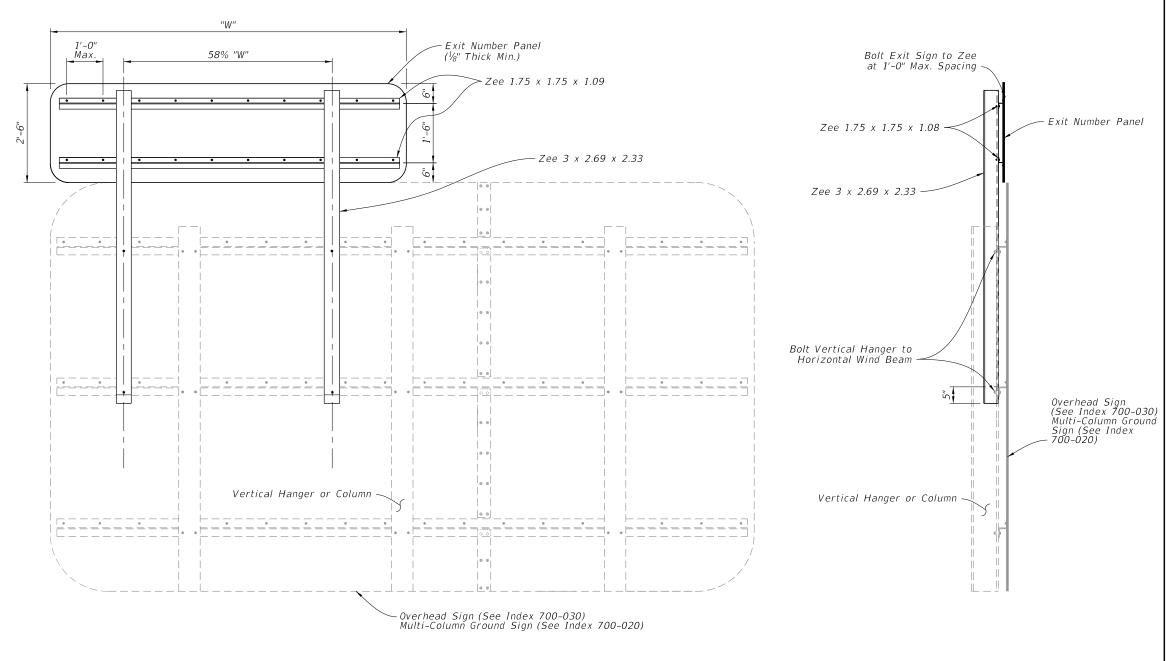
11/01/17





GENERAL NOTES:

- 1. Meet the requirements of Specification 700.
- 2. Work with Indexes 700-020 and 700-030.
- 3. Fabrication: See sign layout sheet for dimension "W" and sign face details in the Plans.
- 4. For right exits, install the Exit Numbering Panel to the top right side of the Highway Sign.
- 5. For left exits, install the Exit Numbering Panel to the top left side of the Highway Sign.
- 6. Materials (Aluminum):
- A Sheets and Plates: ASTM B209 Alloy 6061-T6
- B. Extruded and Standard Structural Shapes: ASTM B221 Alloy 6061-T6
- C. For Bolts, Nuts, and Washers requirements see Index 700-020 or 700-030.



BACK ELEVATION

SIDE ELEVATION

REVISION 11/01/23

DESCRIPTION:

TABLE OF CONTENTS:

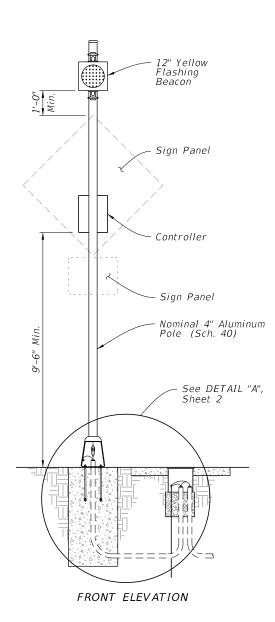
GENERAL NOTES:

- 1. Meet the regirements of Specifications 646 and 700.
- 2. Engage all threads on the transformer base and post unless the aluminum post is fully seated into base.
- 3. Install a concrete slab around all roadside assemblies on slopes 6:1 or greater. The minimum slab dimension is 6" by 4'-0" by 5'-0".
- 4. When wire entry holes are drilled in the sign column, use a bushing or rubber grommet to protect conductors.

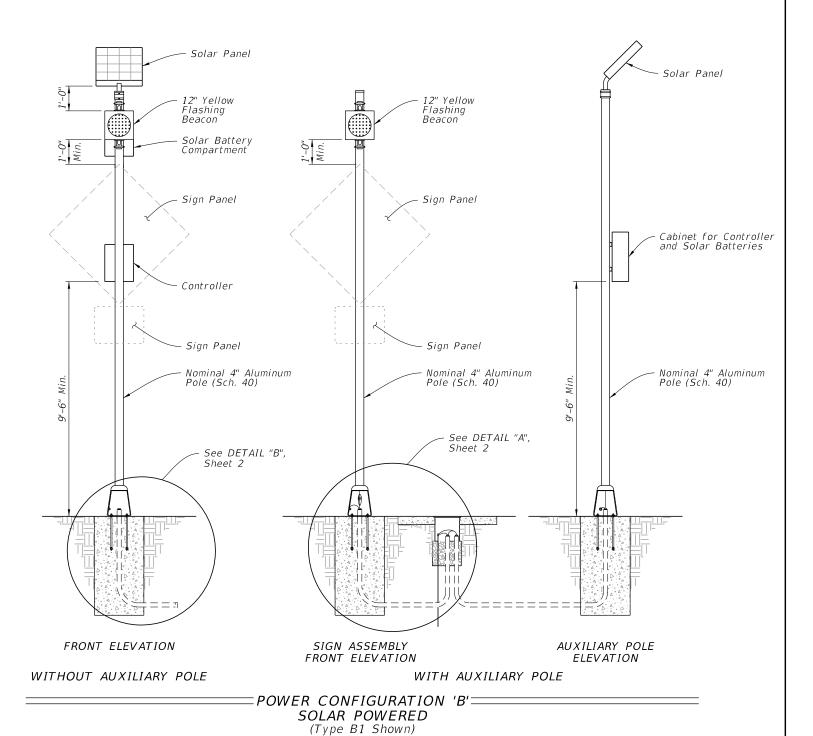
POWER CONFIGURATION 'B' NOTES:

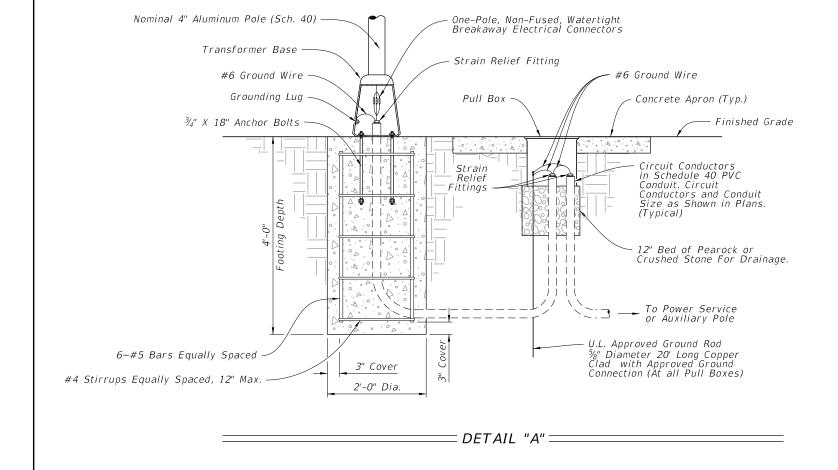
- 1. Install a separate pole for mounting the solar panel, controller and batteries for all roadside assemblies with solar panels, controllers and batteries weighing more than 170 lbs.
- 2. Install the auxiliary pole as close to the right of way boundary as possible.
- 3. Install the auxiliary pole so that the height is the same as the column for the roadside assembly.
- 4. Orient solar panel to face South for optimal exposure to sunlight.
- 5. The controller and the solar batteries may be located in the same compartment.

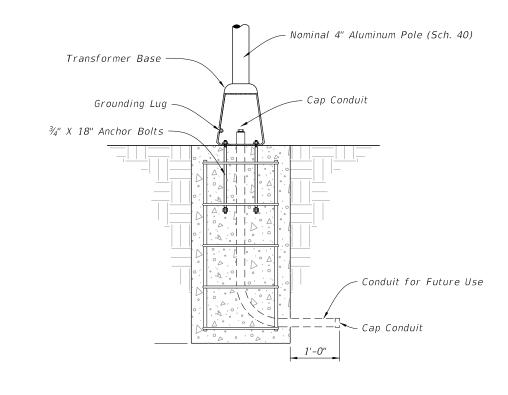
DESCRIPTION:









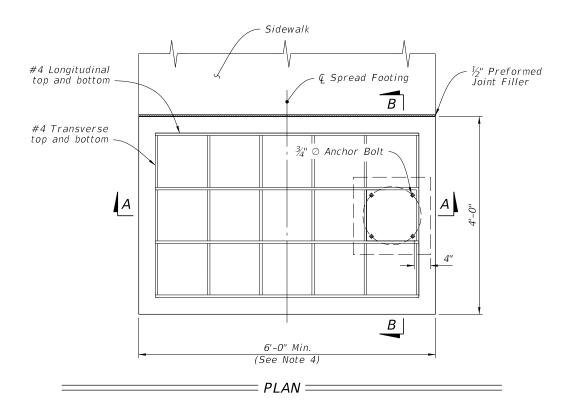


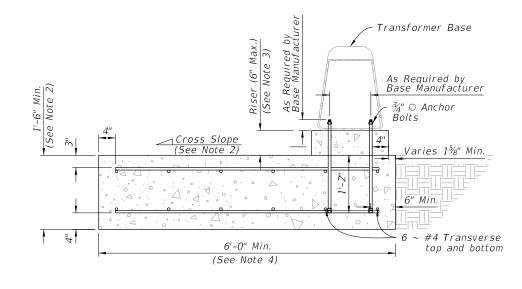
DETAIL "B"

CONDUIT, WIRING, AND FOUNDATION DETAILS

LAST REVISION 11/01/24

DESCRIPTION:





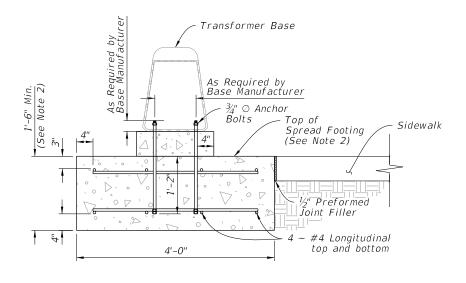
SECTION A-A=

NOTES:

1. Install the Spread Footing Foundation only where called for in the Plans.

2. SIDEWALK:

- a. When abutting sidewalk, match the cross slope of the adjacent sidewalk or curb ramp where applicable. Maintain the minimum depth of footing.
- b. $\frac{1}{2}$ " expansion preformed joint filler required between sidewalk and spread footing.
- c. Apply concrete surface finish to the top of the spread footing in accordance with Specification 522-7.
- d. Sidewalk placed on the other side or both sides of the spread footing is permitted where shown in the Plans.
- 3. Only use concrete riser when installed in-line with sidewalk curb that results in a drop off to the adjacent sidewalk.
- 4. For sidewalks greater than 6', match sidewalk width. Add one #4 transverse bar, top and bottom, per additional foot of spread footing to maintain at minimum the same reinforcement area per foot.
- 5. Base location can vary on spread footing. Location shown in Plans.

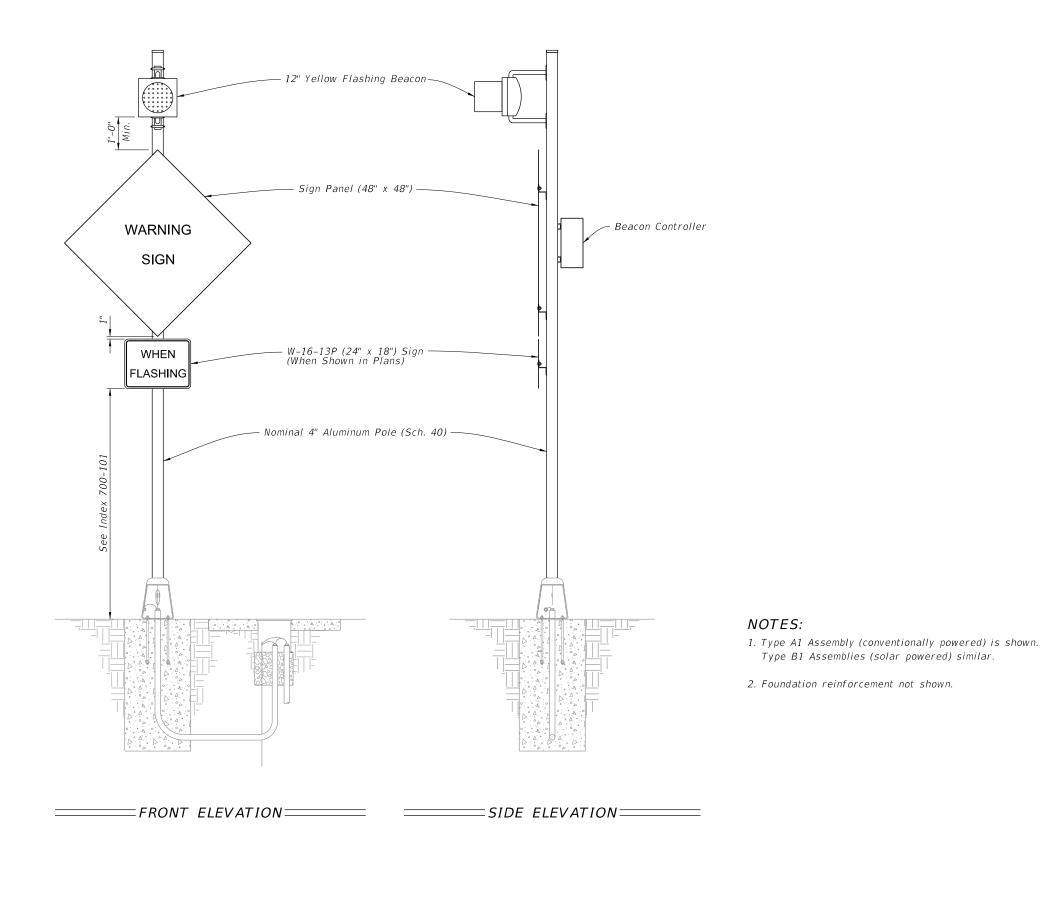


= SECTION B-B =====

SPREAD FOOTING FOUNDATION

LAST REVISION 11/01/24

DESCRIPTION:

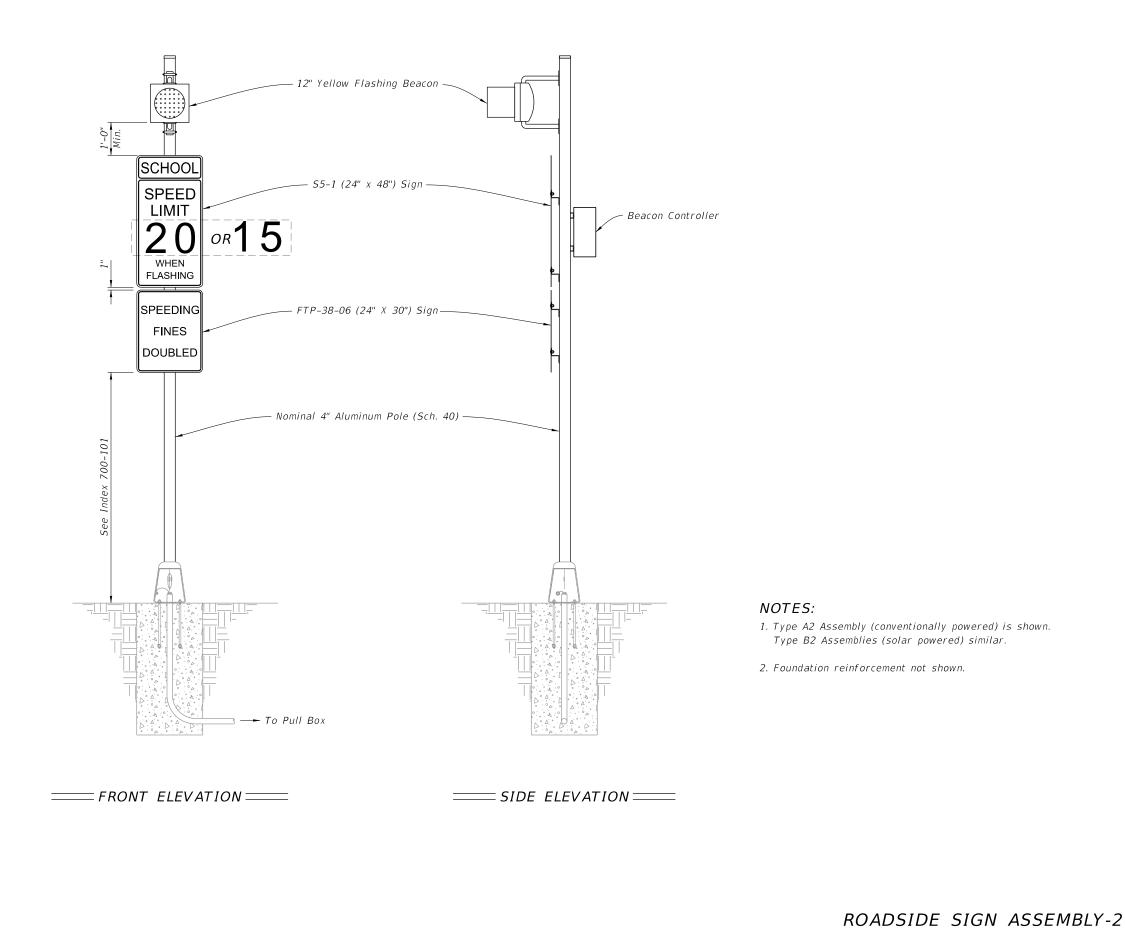


ROADSIDE SIGN ASSEMBLY-1

DESCRIPTION: REVISION 11/01/24

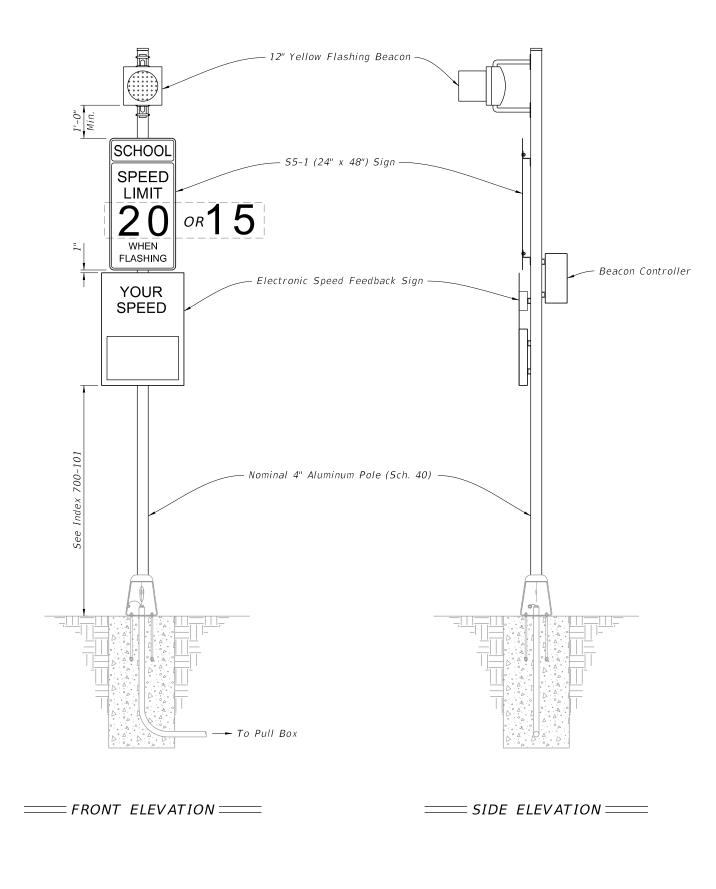
FDOT

FY 2025-26 STANDARD PLANS



/13/2024 9:12:09

LAST REVISION 11/01/24



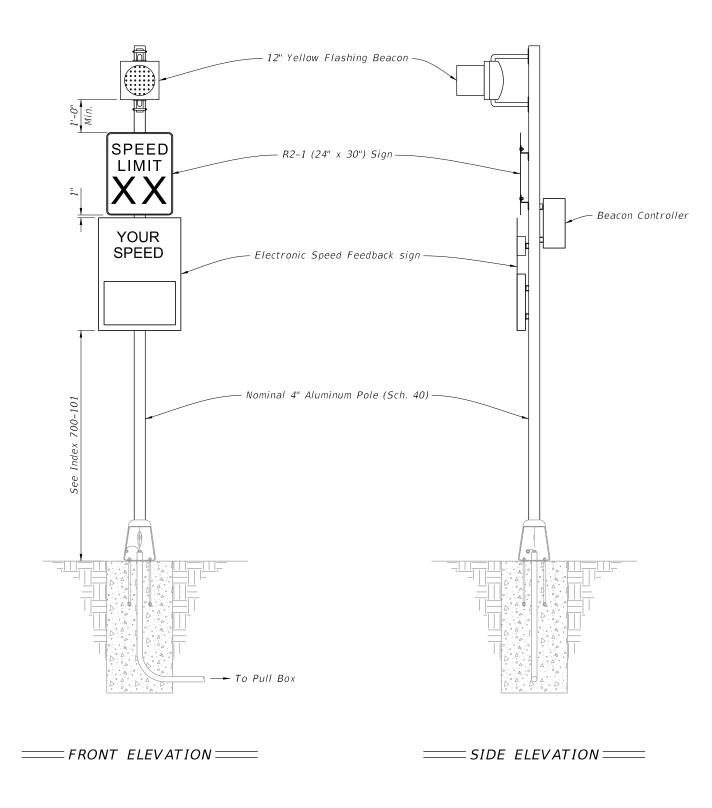
NOTES:

- 1. Type A3 Assembly (conventionally powered) is shown. Type B3 Assemblies (solar powered) similar.
- Use electronic speed feedback sign with 15" high numerals for posted speed of 45 mph or less, and 18" high numerals for posted speeds greater than 45 mph.
- 3. Foundation reinforcement not shown.

ROADSIDE SIGN ASSEMBLY-3

LAST REVISION 11/01/24

DESCRIPTION:



NOTES:

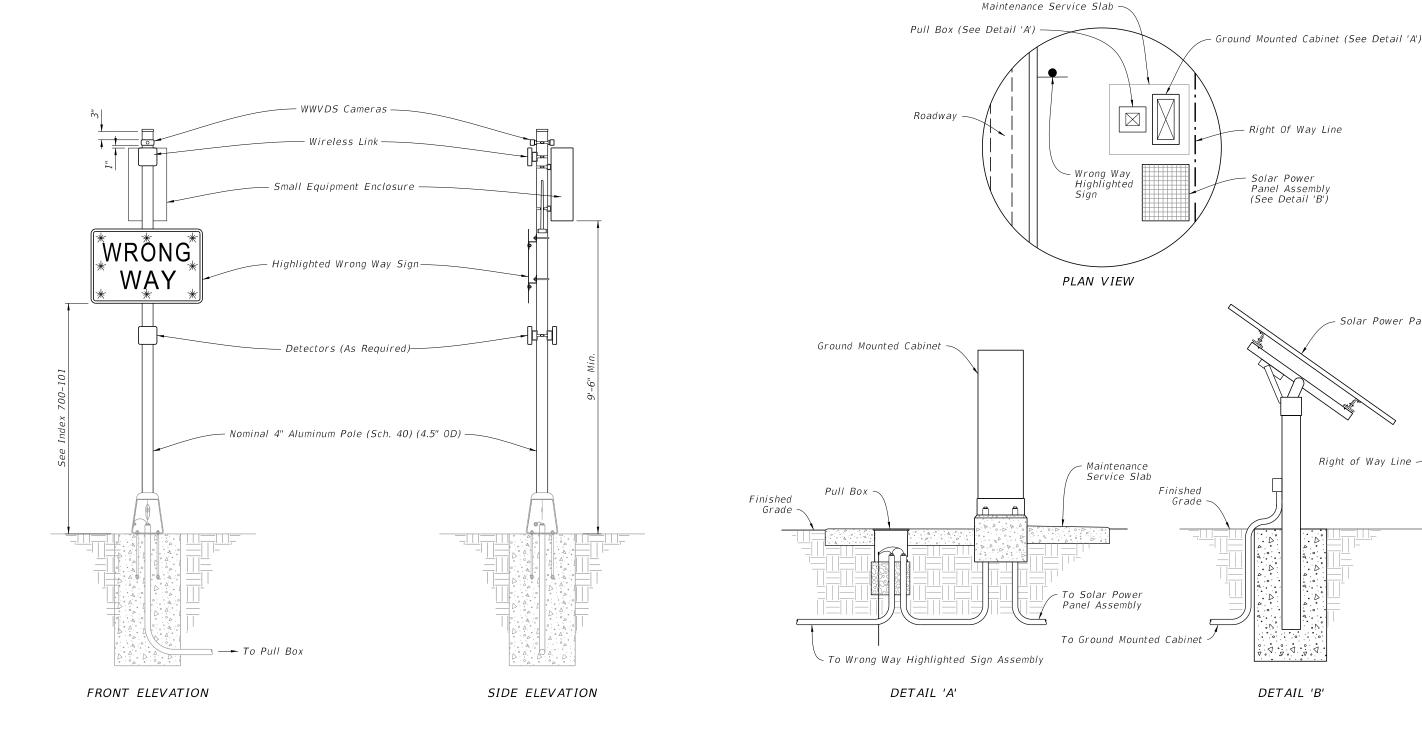
- 1. Type A6 Assembly (conventionally powered) is shown. Type B6 Assemblies (solar powered) similar.
- 2. Use electronic speed feedback sign with 15" high numerals for posted speed of 45 mph or less, and 18" high numerals for posted speeds greater than 45 mph.
- 3. Foundation reinforcement not shown.

ROADSIDE SIGN ASSEMBLY-4

LAST CONTRIBUTION IN THE PROPERTY IN THE PROPE

FDOT

FY 2025-26 STANDARD PLANS



WRONG WAY HIGHLIGHTED SIGN ASSEMBLY =

SOLAR POWER ASSEMBLY =

NOTES:

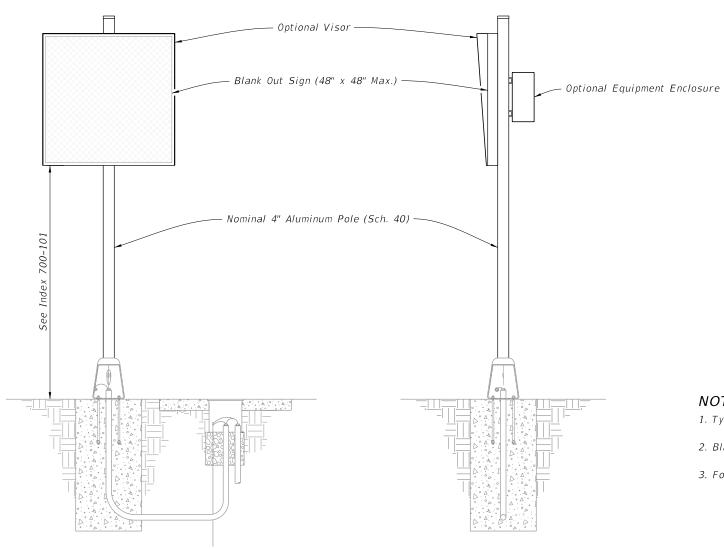
- 1. Install Wrong Way Vehicle Detection System (WWVDS) devices including cameras, detectors, wireless links, antennas, enclosures, and electronics in accordance with the manufacturer's instructions.
- 2. When a solar powered configuration (Type B7) is called for in the Plans, install a ground mounted cabinet and solar power panel assembly. Install the solar charge controller and batteries in the same ground mounted cabinet. Provide a separate pole for mounting the solar panel (DETAIL 'B' shown for illustration purposes only) and install in accordance with manufacturer's instructions. Locate the Solar Power Assembly as close to the right of way as possible. Orient the solar panel to face South.
- 3. Foundation reinforcement not shown.
- 4. Install cabinets in accordance with Index 676-010.

ROADSIDE SIGN ASSEMBLY-5

Solar Power Panel Assembly

Right of Way Line

REVISION 11/01/24 DESCRIPTION:

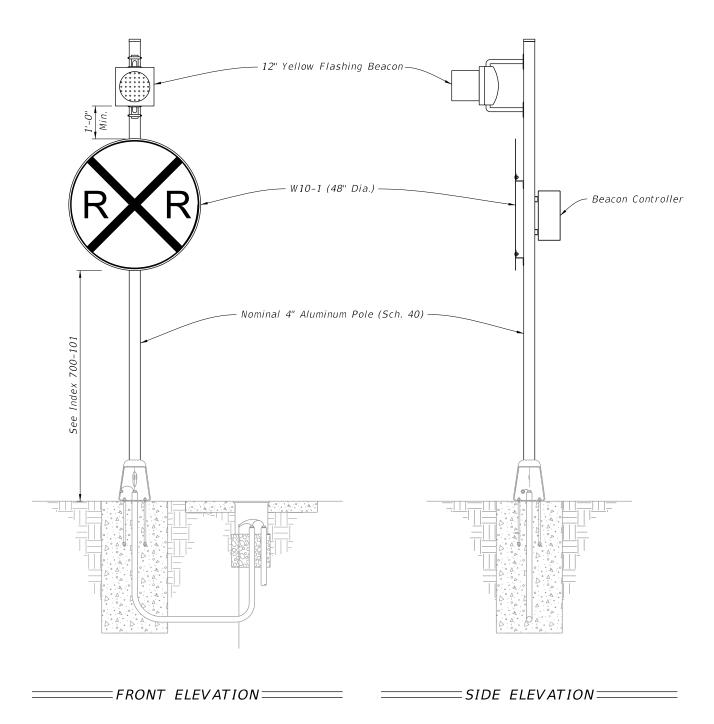


- 1. Type A8 Assembly (conventionally powered) is shown.
- 2. Blank Out Sign visors are optional.
- 3. Foundation reinforcement not shown.

= FRONT ELEVATION ==== == SIDE ELEVATION ======

ROADSIDE SIGN ASSEMBLY-6

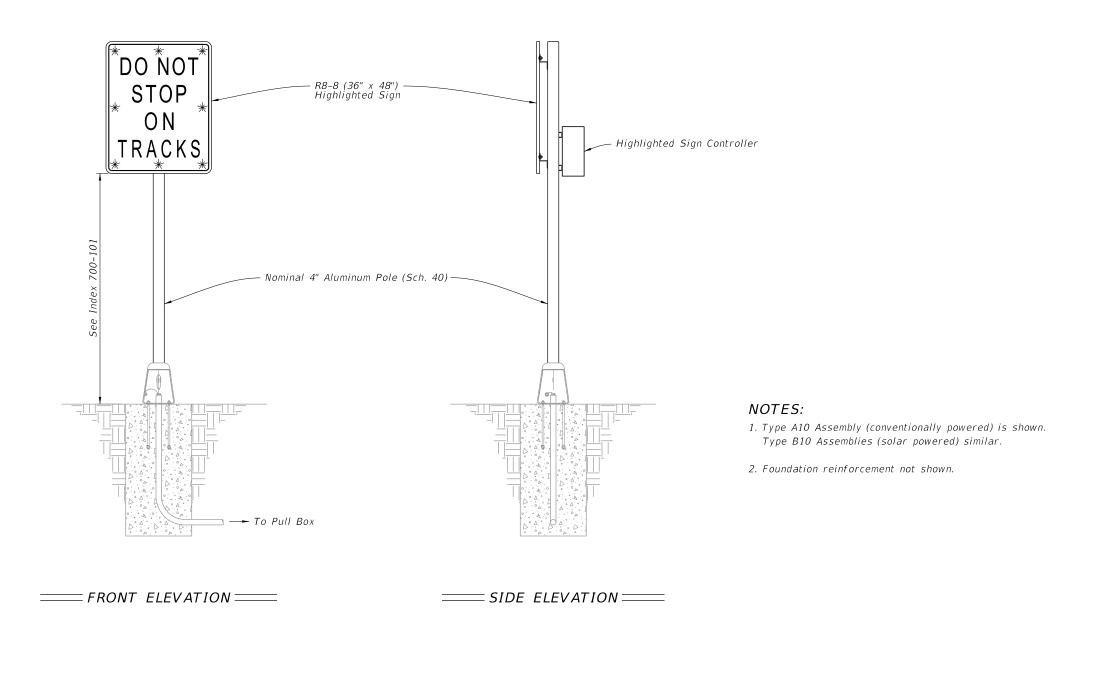
≥ DESCRIPTION: LAST REVISION 11/01/24



- 1. Type A9 Assembly (conventionally powered) is shown. Type B9 Assemblies (solar powered) similar.
- 2. Foundation reinforcement not shown.

ROADSIDE SIGN ASSEMBLY-7

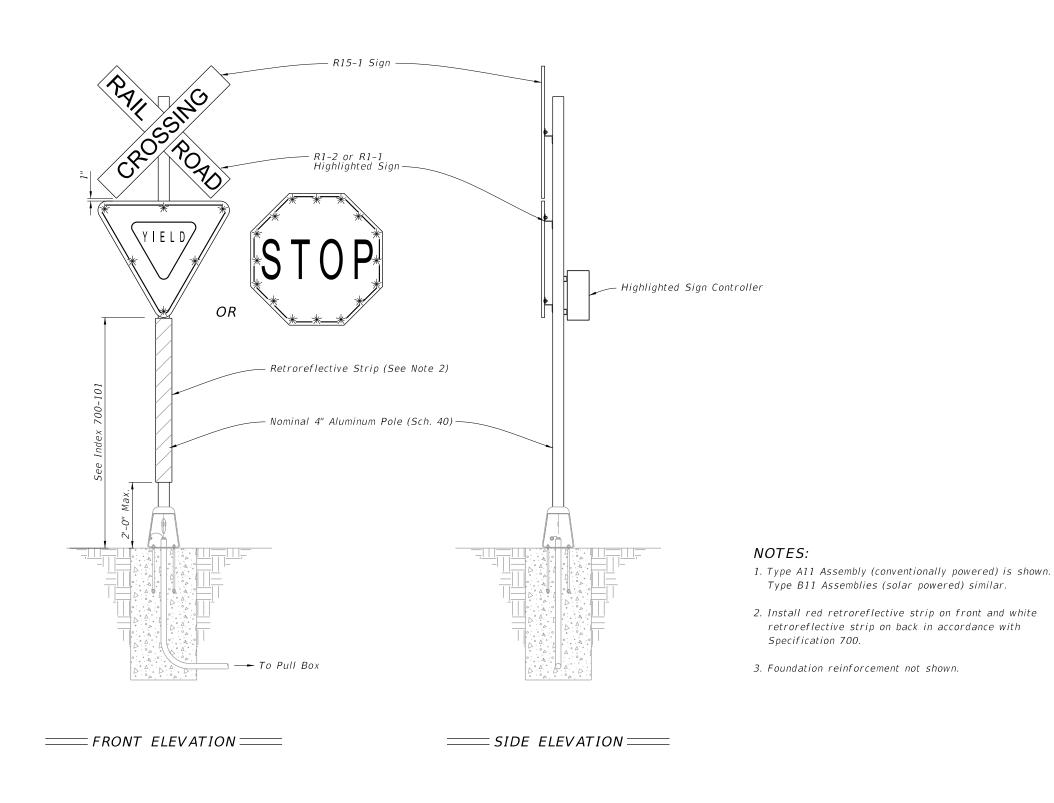
DESCRIPTION: LAST REVISION 11/01/24



ROADSIDE SIGN ASSEMBLY-8

REVISION 11/01/24

DESCRIPTION:

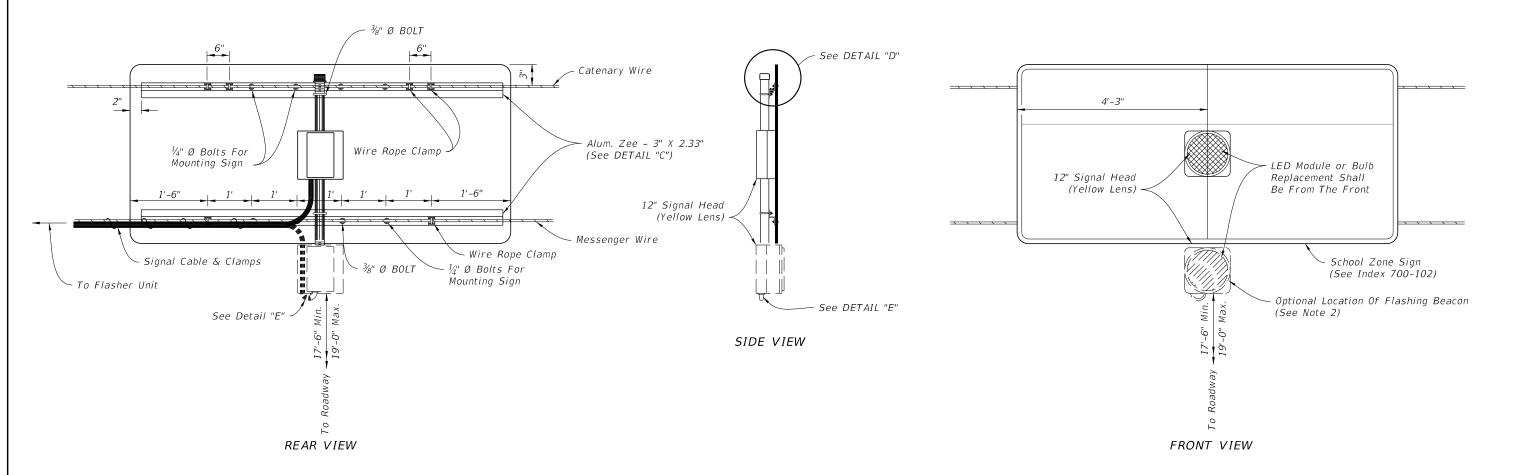


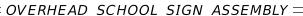
ROADSIDE SIGN ASSEMBLY-9

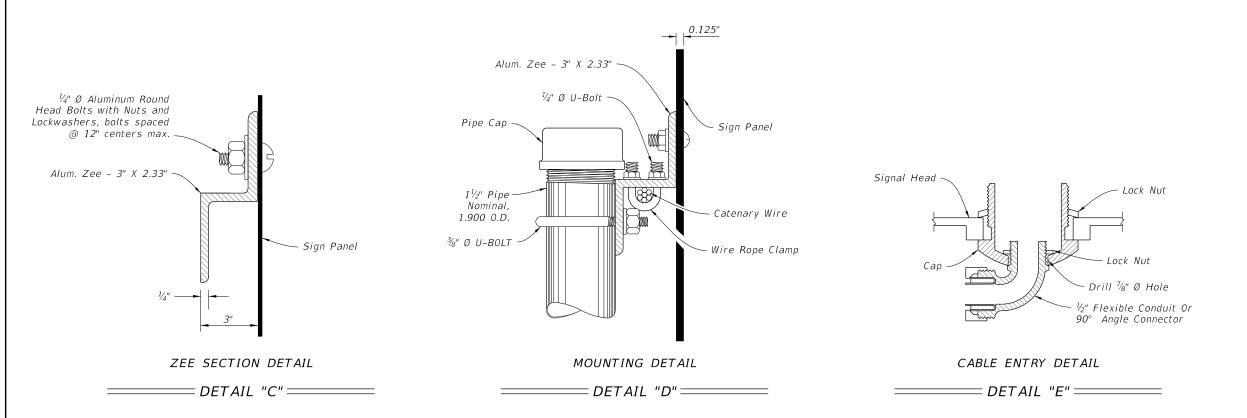
REVISION 11/01/24

FDOT

DESCRIPTION:







- 1. Flasher unit and cabinet to be placed on the strain pole supporting overhead sign assembly or on service pole. The flasher unit not to overhang private property or sidewalk.
- 2. Optional flashing beacon will be called for in the Plans. They may be placed within or below the panel, or face to the rear.

OVERHEAD SIGN ASSEMBLY

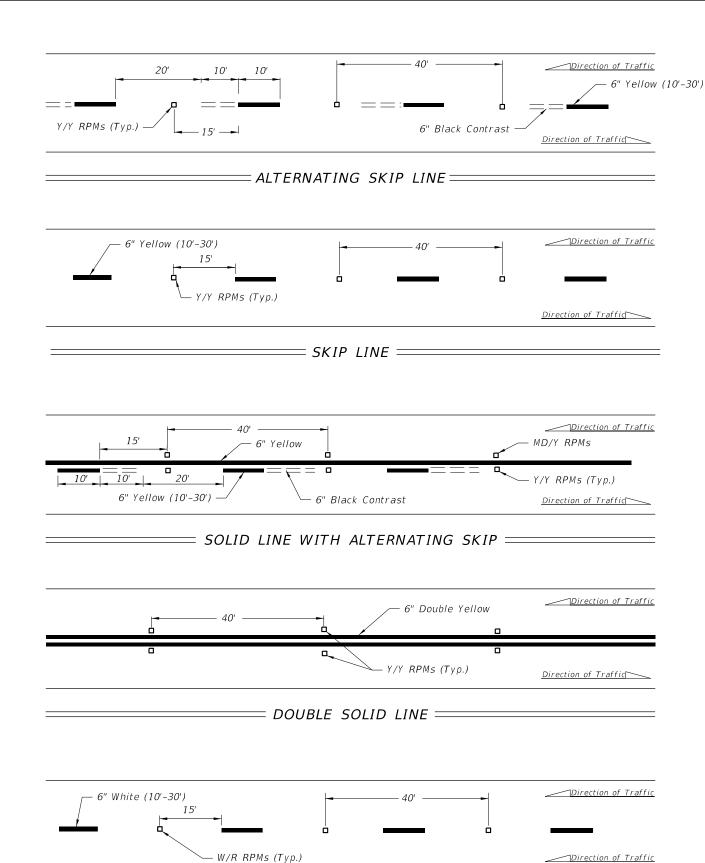
REVISION 11/01/24

DESCRIPTION:

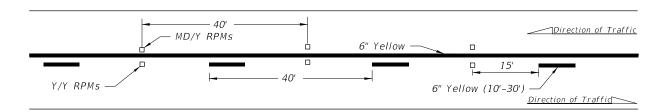
FDOT

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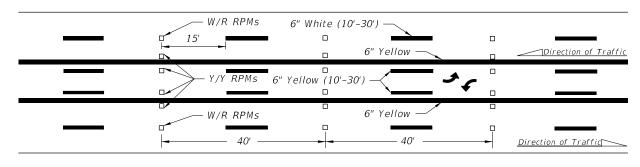
SHEET



= MULTILANE ===



= SOLID LINE WITH SKIP =



= SKIP LINE WITH TWO-WAY LEFT TURN LANE =



== ALTERNATING SKIP LINE WITH TWO-WAY LEFT TURN LANE =====

NOTES:

- 1. Offset all RPMs 1" from solid longitudinal lines unless otherwise noted or shown.
- 2. Spacing may be reduced for sharp curves if required.
- 3. For placement of RPMs on ramps, see Index 711-003.
- 4. Make the traffic face of the RPM the same color as the pavement marking that it is supplementing.

LEGEND:

B/C = BACK OF CURB

EOP = EDGE OF PAVEMENT

RPM = RAISED PAVEMENT MARKER

W/R = WHITE/RED RPM

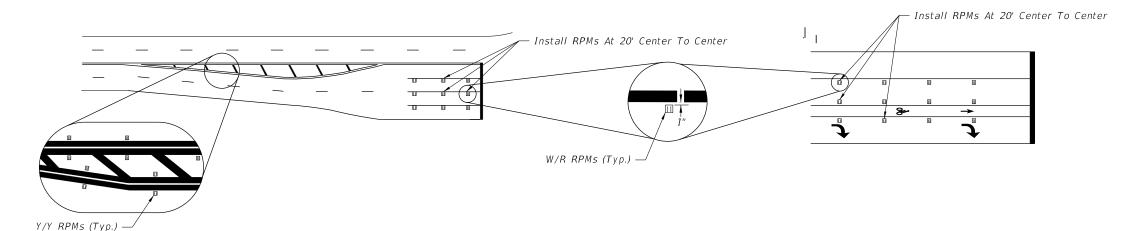
Y/Y = YELLOW/YELLOW RPM

Y/R = YELLOW/RED RPM

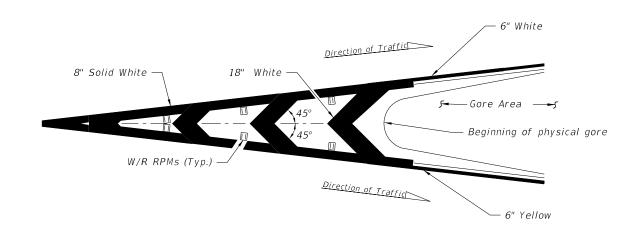
MD/Y = MONO-DIRECTIONALYELLOW RPM

REVISION 11/01/18

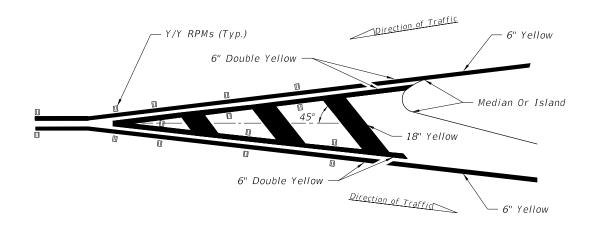
DESCRIPTION:



RPM PLACEMENT AT INTERSECTIONS =



===== RPM PLACEMENT AT TRAFFIC CHANNELIZATION AT GORE ====== (Traffic Flows In Same Direction)



= RPM PLACEMENT AT TRAFFIC SEPARATION =(Traffic Flows In Opposite Direction)

NOTE:

Center the Raised Pavement Markers between chevrons and crosshatching.

LEGEND:

B/C = BACK OF CURB

EOP = EDGE OF PAVEMENT

RPM = RAISED PAVEMENT MARKER

W/R = WHITE/RED RPM

Y/Y = YELLOW/YELLOW RPM

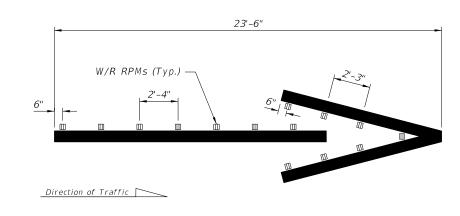
Y/R = YELLOW/RED RPM

MD/Y = MONO-DIRECTIONALYELLOW RPM

Direction of Traffic 6" White W/R RPMs (Typ.) Edge Of Pavt.

Right side of the roadway shown. For the left side of roadway, the pavement marking is yellow and oriented opposite hand.

= RPM PLACEMENT AT ROADSIDE CROSSHATCHING =====



= WRONG-WAY ARROW =

DESCRIPTION: REVISION 11/01/21

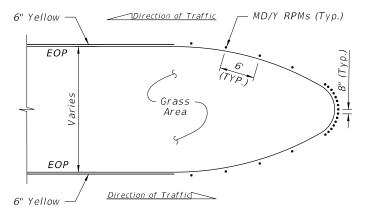
FDOT

FY 2025-26 STANDARD PLANS

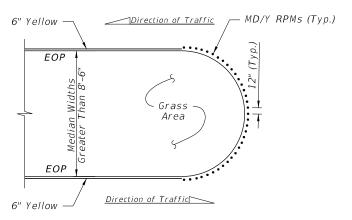
INDEX 706-001

SHEET 2 of 6

DETAIL "A"



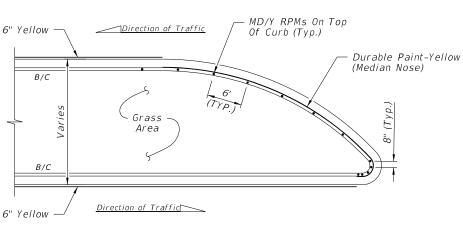
DETAIL "B'



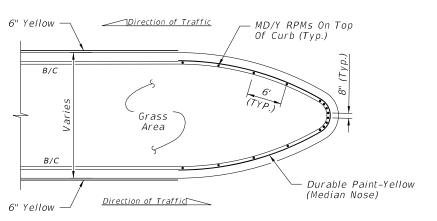
DETAIL "C"

FLUSH MEDIAN OPENINGS

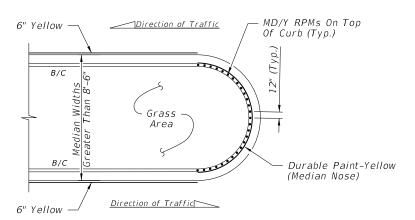
(Type "E" Curb Similar. See Note 1)



DETAIL "D"



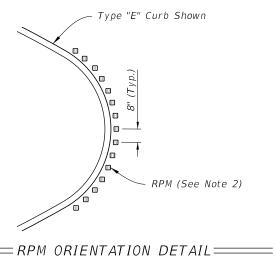
DETAIL "E"



DETAIL "F"

TYPE "D" OR "F" CURB

RPM PLACEMENT AT MEDIAN OPENINGS (When called for in the Plans)



POSTED SPEED LIMIT MPH	"Y" FEET		
30 OR LESS	10		
35	20		
40	20		
45	30		
50 OR MORE	40		

LEGEND:

B/C = BACK OF CURB

EOP = EDGE OF PAVEMENT

RPM = RAISED PAVEMENT MARKER

W/R = WHITE/RED RPM

Y/Y = YELLOW/YELLOW RPM

Y/R = YELLOW/RED RPM

MD/Y = MONO-DIRECTIONAL YELLOW RPM

NOTES:

- 1. For Type "E" Curb, install RPMs along the pavement edge marking using the same spacing shown.
- 2. Orient traffic faces of RPMs in curb median radii to be parallel to direction of travel lanes.
- 3. Use epoxy adhesive to install RPMs on concrete median nose curbs.
- 4. Install RPMs on clean, unpainted surface. Do not paint curb surface where RPMs will be placed.

REVISION 11/01/21

DESCRIPTION:

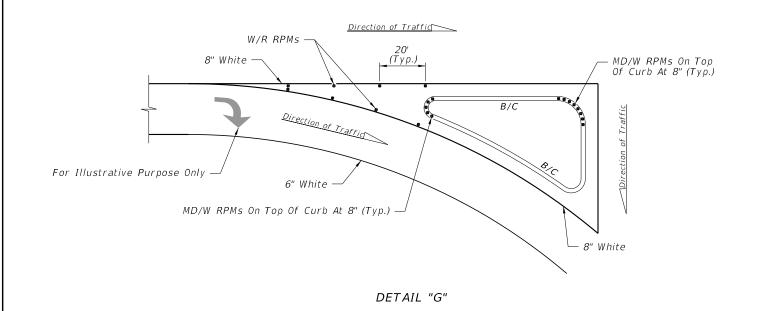


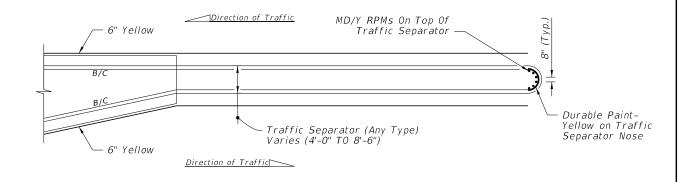
FY 2025-26 STANDARD PLANS

TYPICAL PLACEMENT OF RAISED PAVEMENT MARKERS INDEX

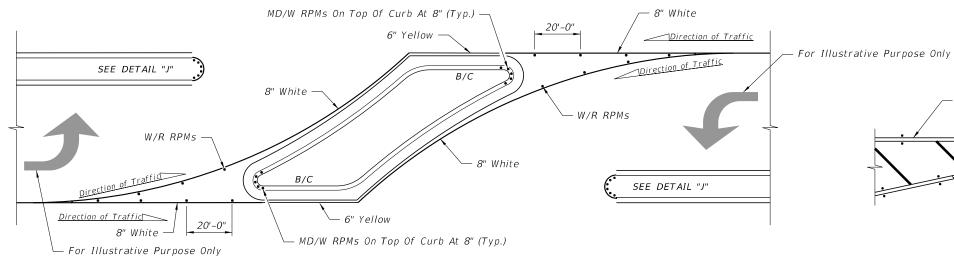
SHEET

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DETAIL "J"



_____Direction of Traffic 6" Double Yellow "Y" (Typ.) - Varies (4'-0" TO 8'-6") Y/Y RPMs (Typ.) Y/Y RPMs "Y" (Typ.) 6" Double Yellow Direction of Traffic

DETAIL "K"

RPM PLACEMENT AT ISLANDS = (When called for in the Plans)

DETAIL "H"

RPM PLACEMENT AT TRAFFIC SEPARATORS = (When called for in the Plans)

POSTED SPEED LIMIT FEET 30 OR LESS 10 35 20 40 20 45 30

40

50 OR MORE

NOTES:

- 1. For Type "E" Curb install RPMs along the pavement edge marking using the same spacing shown.
- 2. Orient traffic faces of RPMs in median radii to be parallel to direction of travel lanes.

LEGEND:

B/C = BACK OF CURB

EOP = EDGE OF PAVEMENT

RPM = RAISED PAVEMENT MARKER

W/R = WHITE/RED RPM

Y/Y = YELLOW/YELLOW RPM

Y/R = YELLOW/RED RPM

MD/Y = MONO-DIRECTIONALYELLOW RPM

MD/W = MONO-DIRECTIONAL

REVISION 11/01/21

DESCRIPTION:

FDOT

FY 2025-26

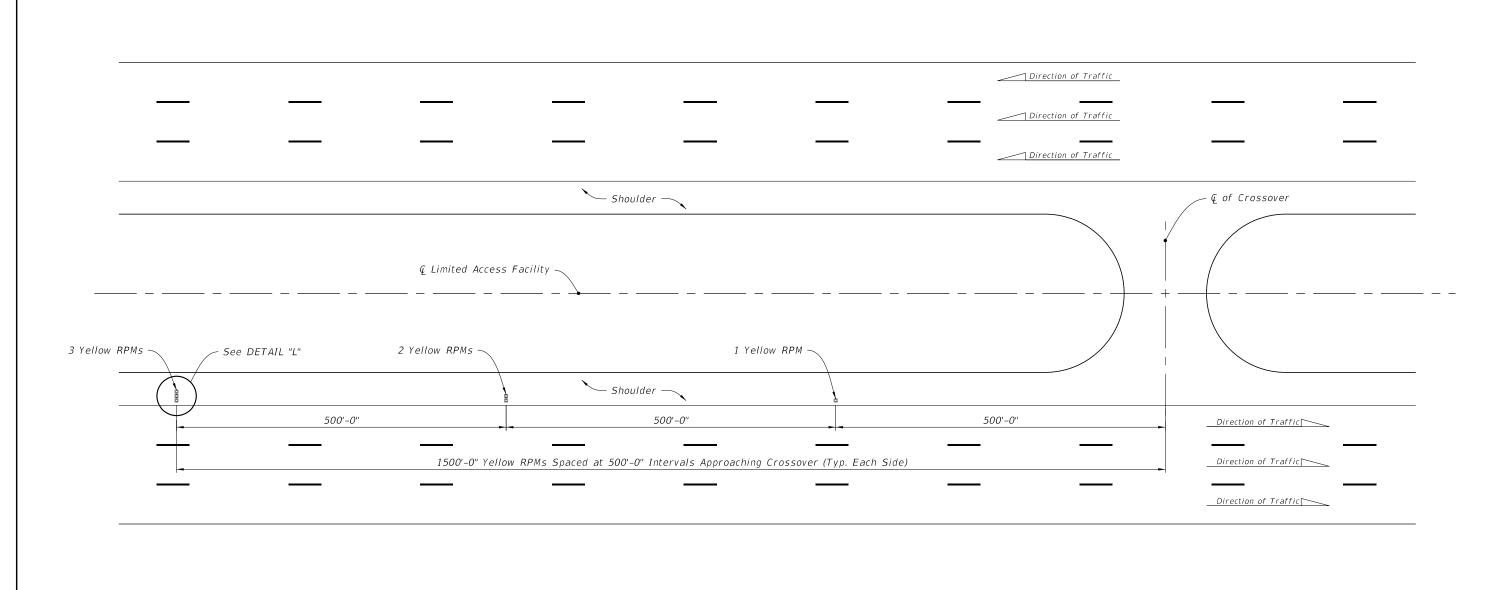
RAISED PAVEMENT MARKERS

INDEX

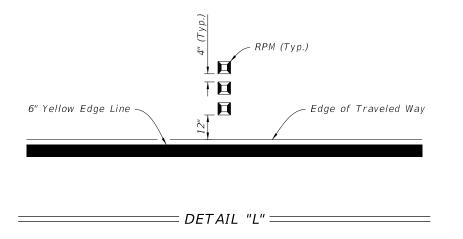
SHEET 4 of 6

706-001

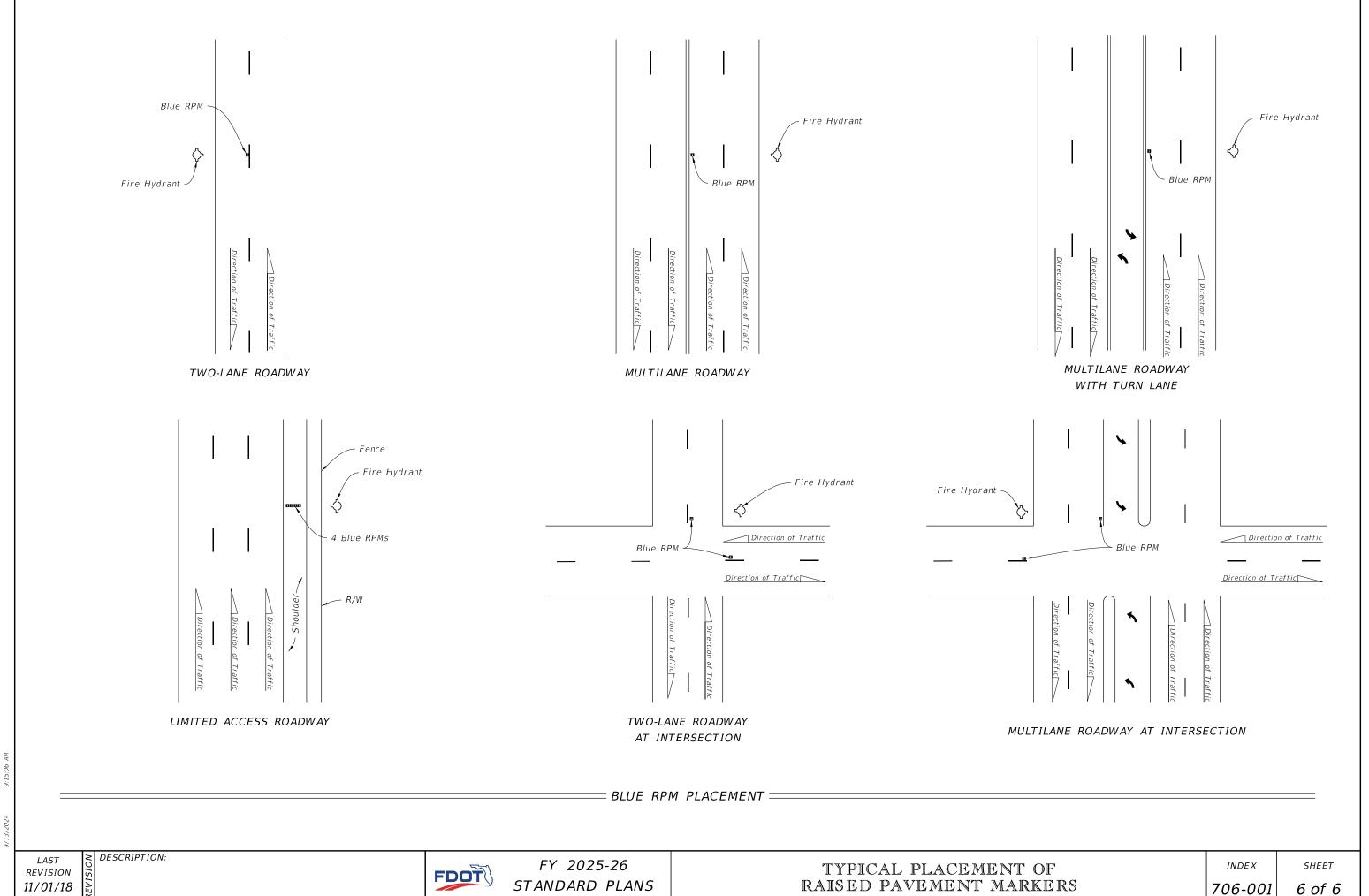
TYPICAL PLACEMENT OF STANDARD PLANS



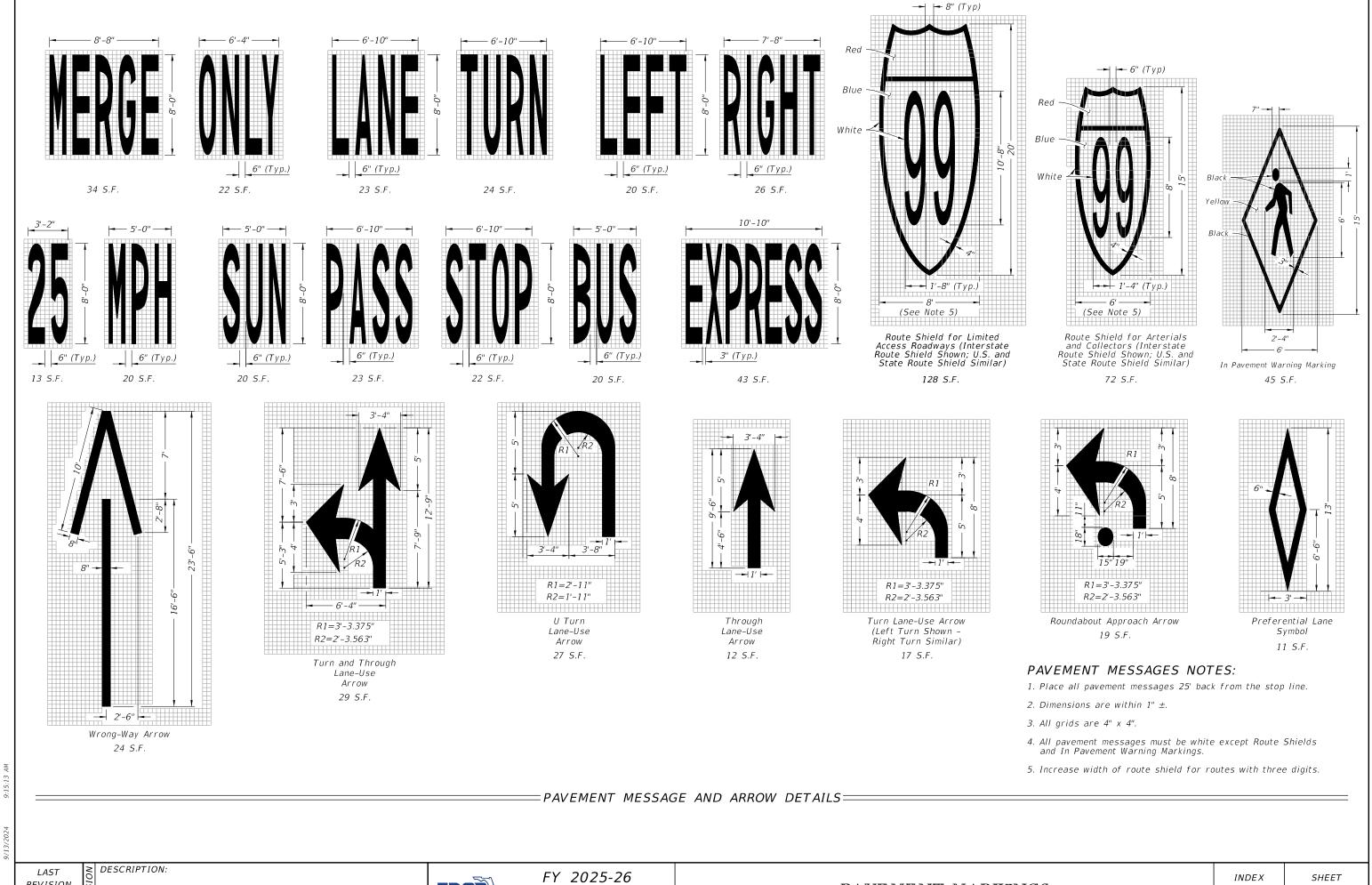
= RPM PLACEMENT FOR CROSSOVERS ON LIMITED ACCESS ROADWAYS =====



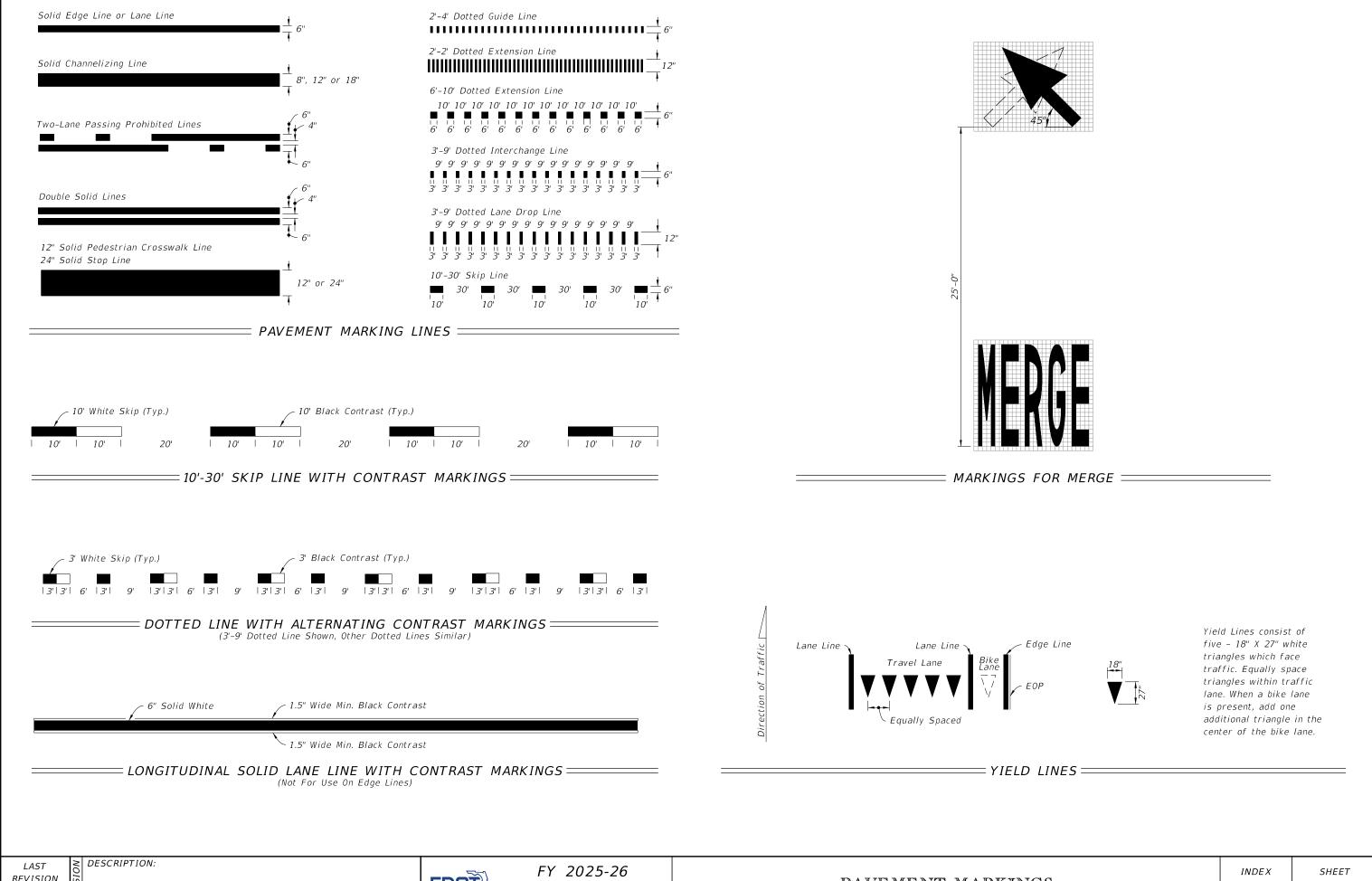
≥ DESCRIPTION: REVISION 11/01/18





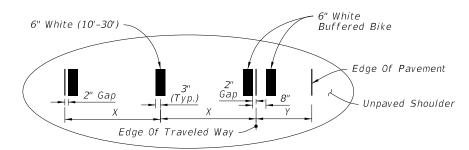


REVISION 11/01/21



REVISION 11/01/22

CURB AND GUTTER

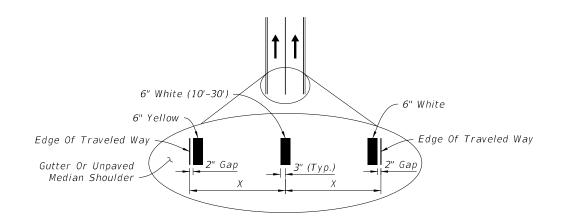


FLUSH SHOULDER

X = LANE WIDTH (FT.)

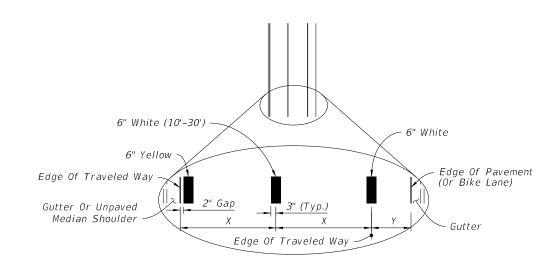
Y = BUFFERED BIKE LANE WIDTH (FT.)

= STRIPING FOR BUFFERED BIKE LANE =

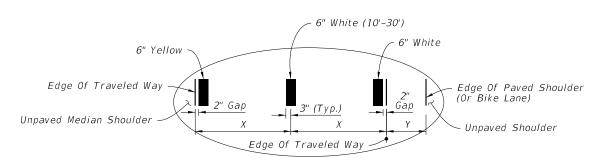


X = LANE WIDTH (FT.)

STRIPING WITH NO SHOULDER OR BIKE LANE =



CURB AND GUTTER



FLUSH SHOULDER

X = LANE WIDTH (FT.)

Y = PAVED SHOULDER / BIKE LANE

= STRIPING WITH SHOULDER OR NON-BUFFERED BIKE LANE ==

NOTES:

- 1. Lane widths (X) may not be same for each lane in the section.
- 2. For placement of RPMs, see Index 706-001.

PLACEMENT OF LONGITUDINAL PAVEMENT MARKINGS

REVISION 11/01/21

DESCRIPTION:

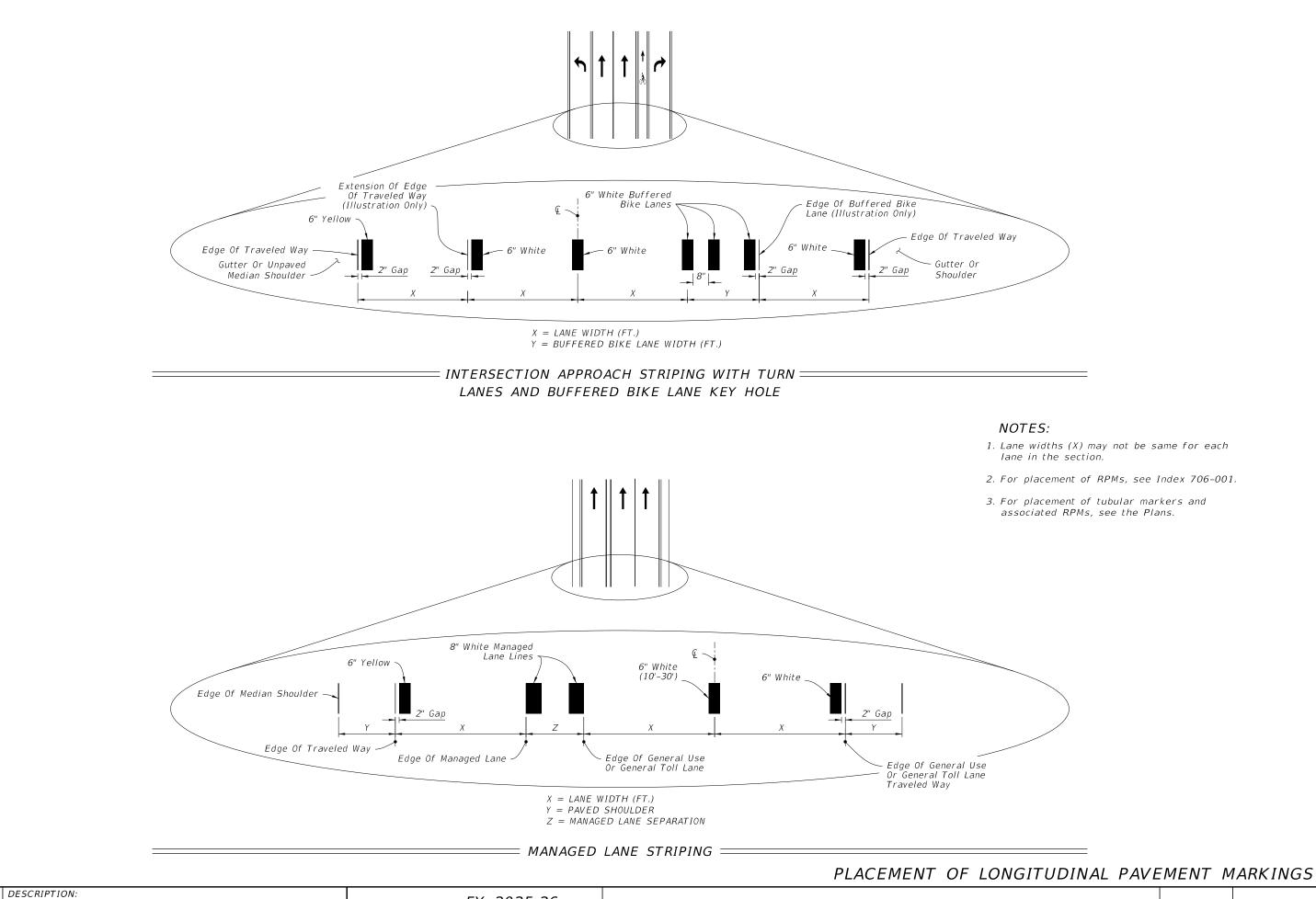
FDOT

FY 2025-26 STANDARD PLANS

PAVEMENT MARKINGS

INDEX

SHEET



REVISION 11/01/24

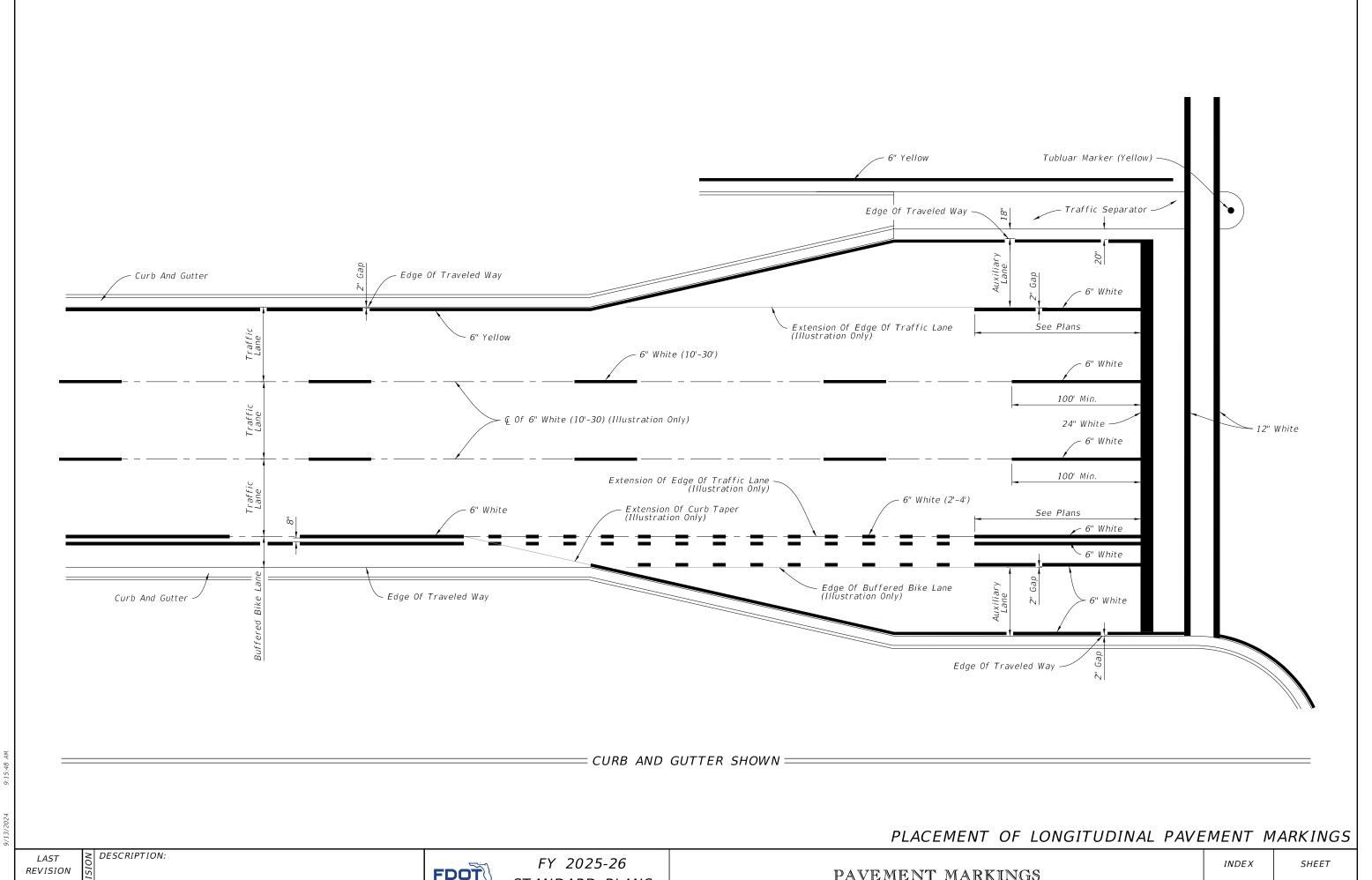
FDOT

FY 2025-26 STANDARD PLANS

PAVEMENT MARKINGS

INDEX

SHEET



11/01/21

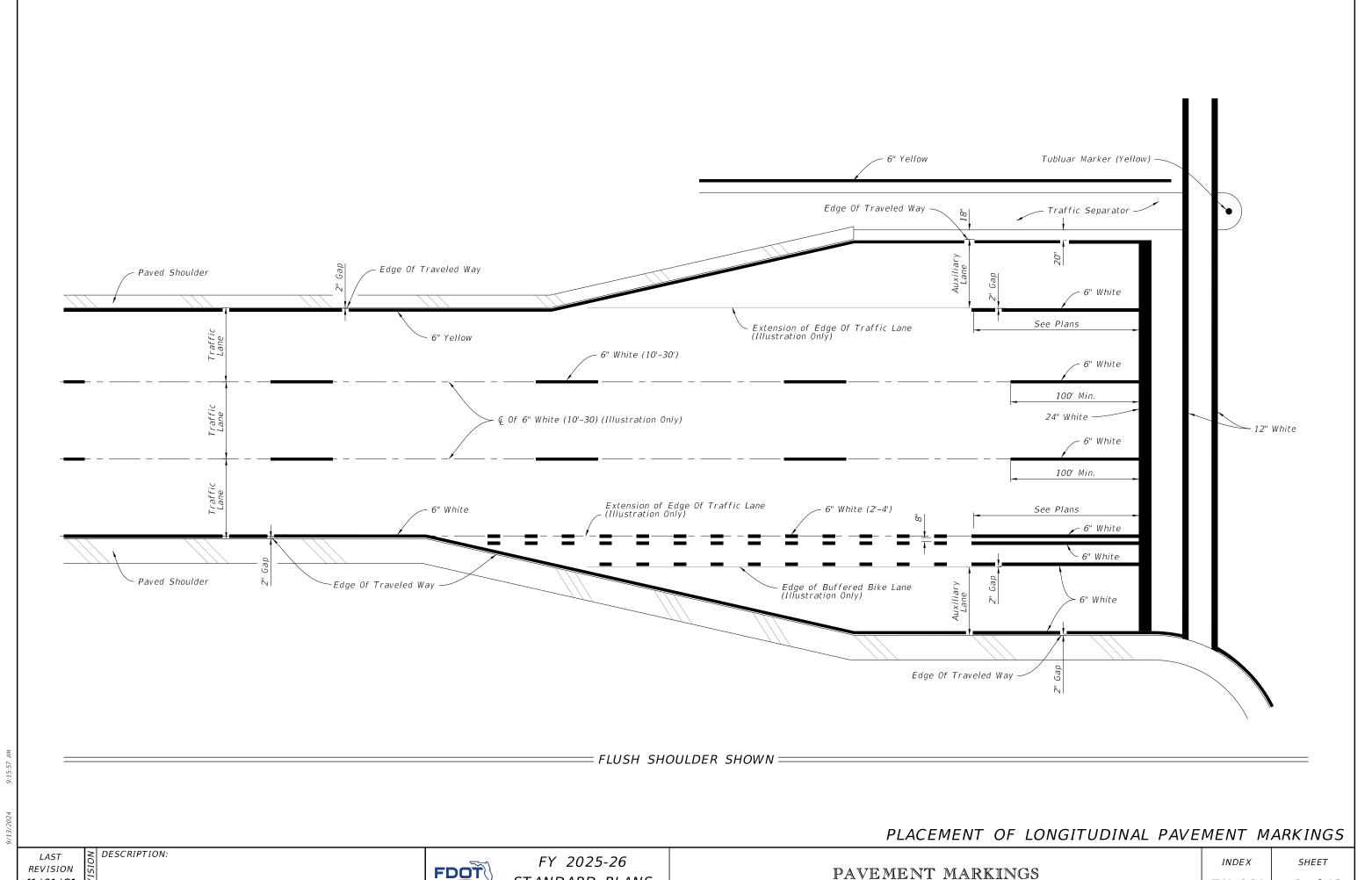
FDOT

STANDARD PLANS

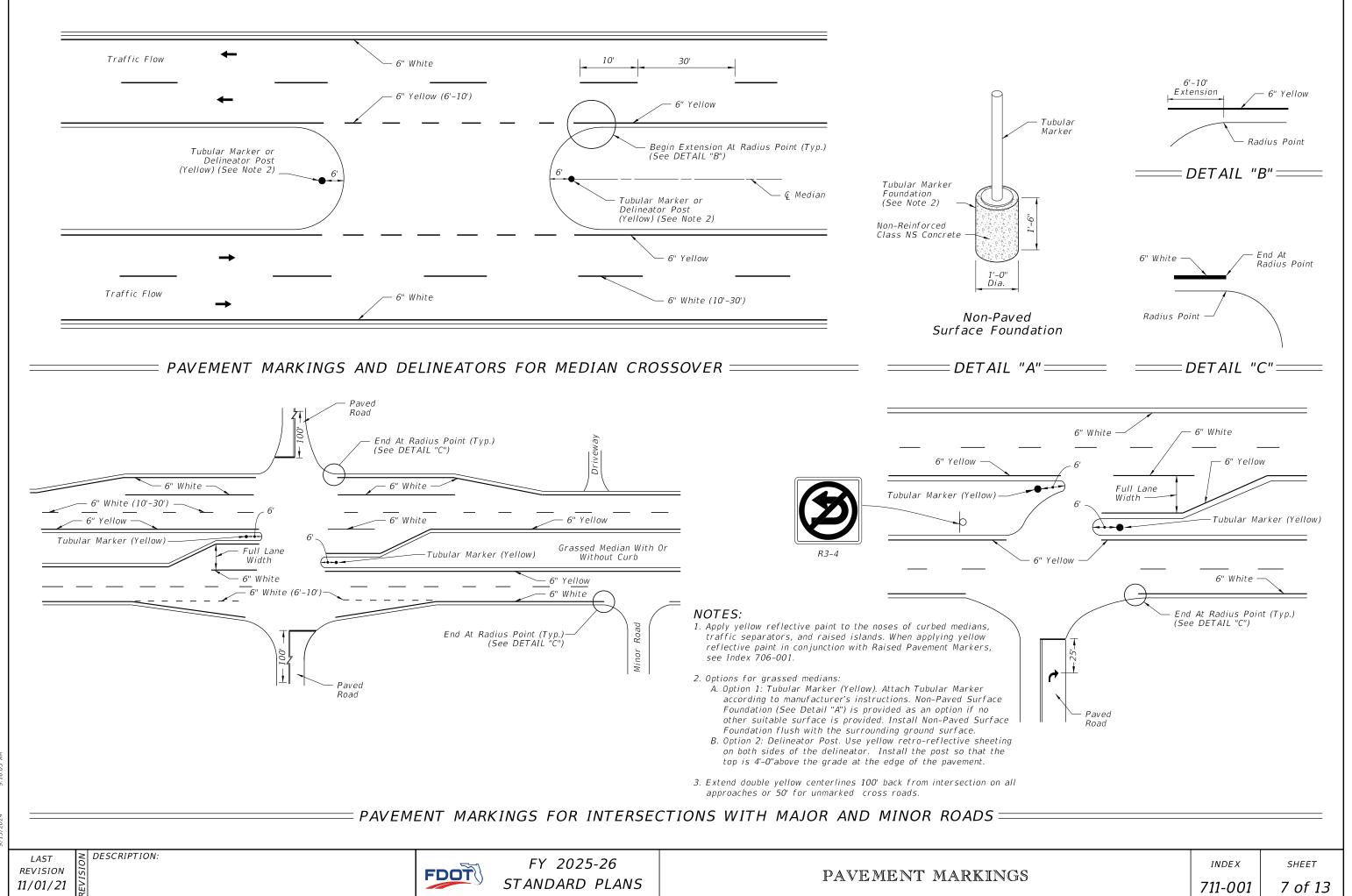
PAVEMENT MARKINGS

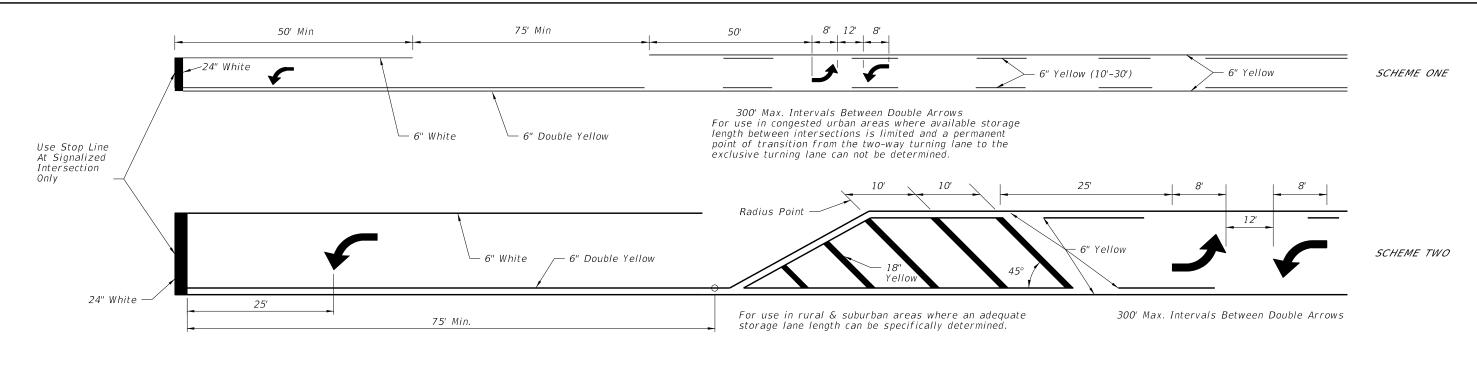
711-001

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11/01/21

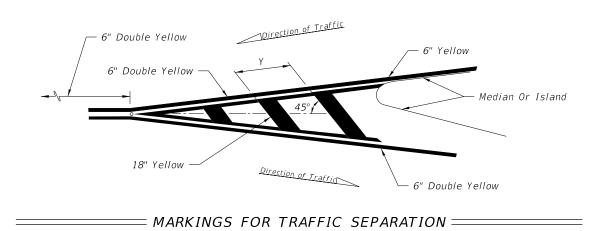


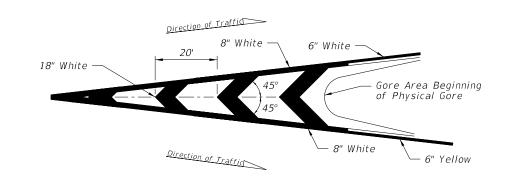


TWO WAY LEFT TURN LANE =

(With Single Lane Left Turn Channelization)

POSTED SPEED LIMIT MPH	"Y" (FT.)
30 OR LESS	10
35	20
40	20
45	30
50 OR MORE	40



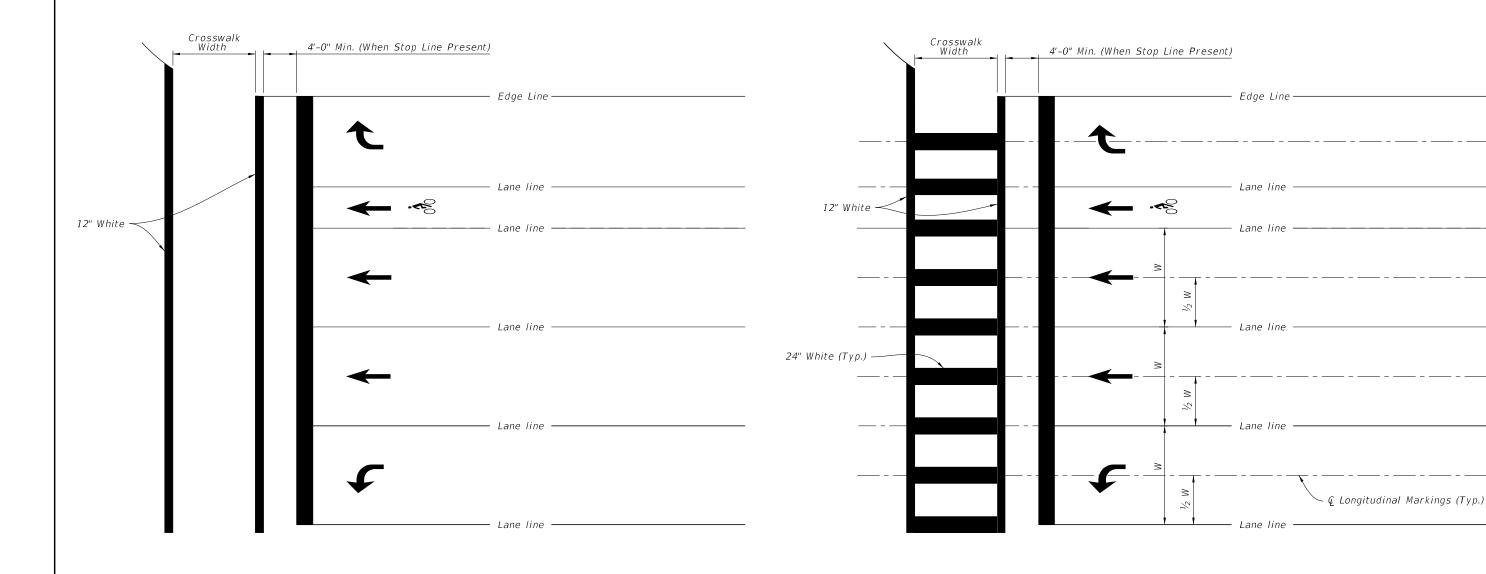


=== TRAFFIC CHANNELIZATION AT GORE ====

LAST REVISION 11/01/21

DESCRIPTION:





STANDARD CROSSWALK DETAILS =

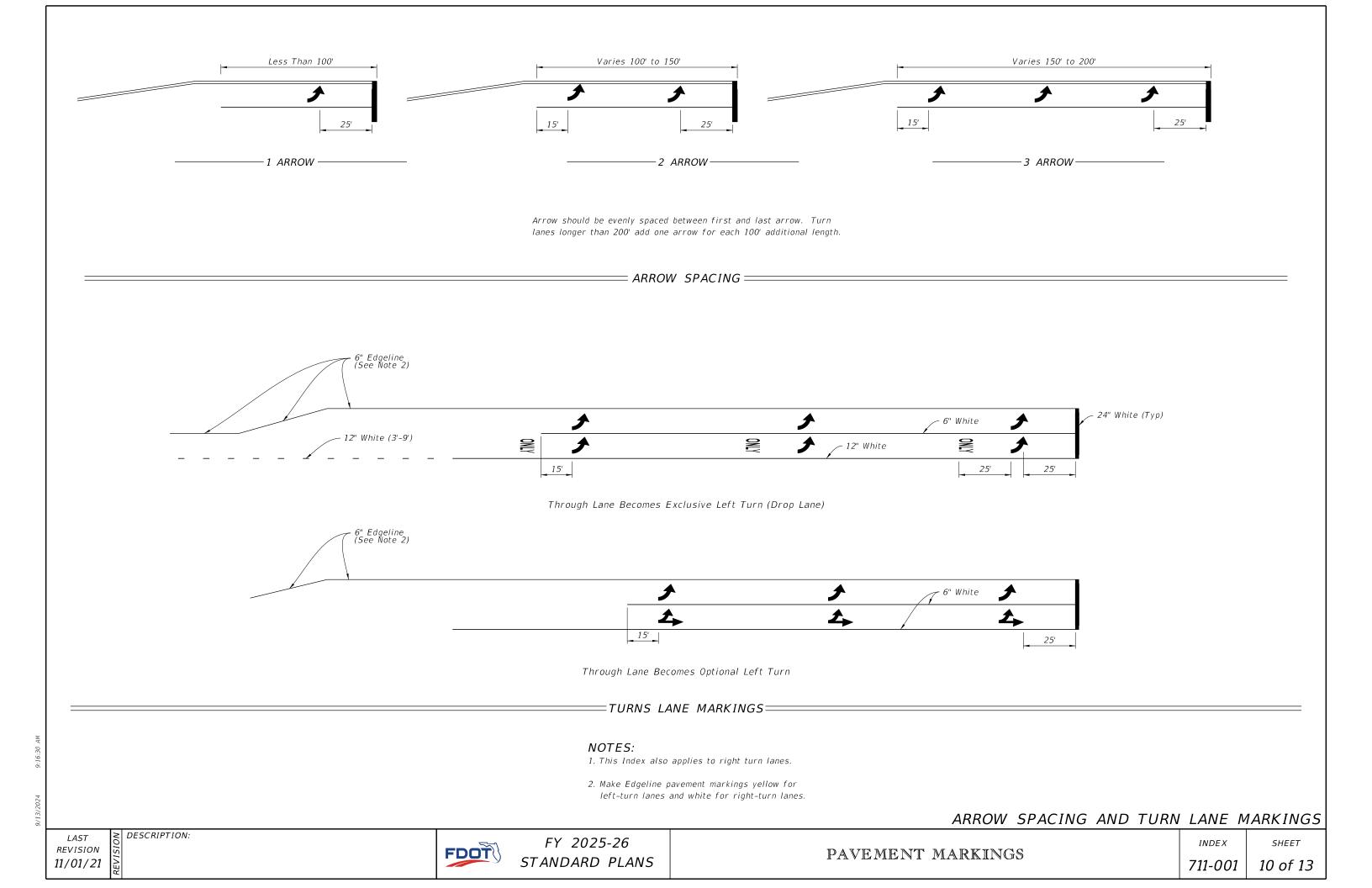
- 1. For crosswalk width, exceed width of the adjacent sidewalk, but do not make width less than 6' for intersection crosswalks and 10' for midblock crosswalks. Measure width from the inside of the transverse crosswalk markings.
- 2. When the Special Emphasis Crosswalk is not perpendicular to the lane lines, make the longitudinal markings parallel to the lane lines.
- 3. Refer to Index 522-002 when Curb Ramps are present.

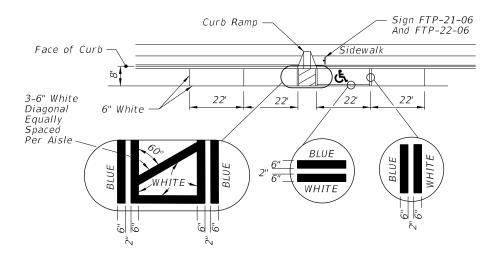
LAST REVISION 11/01/21

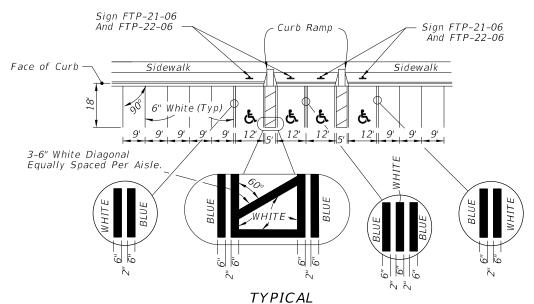
DESCRIPTION:

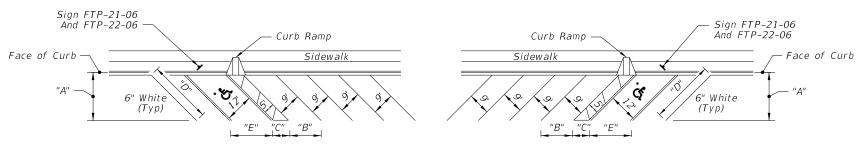
FDOT

SPECIAL EMPHASIS CROSSWALK DETAILS









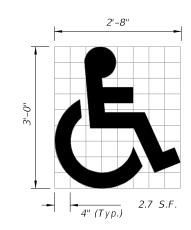
FORWARD-IN PARKING

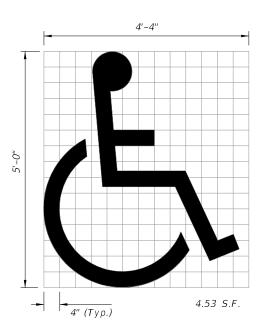
REVERSE-IN PARKING

*FOR ACCESSIBLE MARKINGS - SEE ABOVE

	DIMENSIONS						
€ ∆	"A"	"B"	"C"	"D"	"E"		
45°	17'-0"	12'-9"	7'-0"	24'-0"	17'-0''		

PAVEMENT MARKING FOR PARKING





(See Note 5)

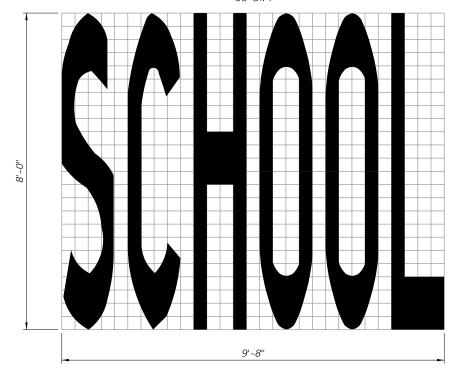
=UNIVERSAL SYMBOL OF ACCESSIBILITY ===

NOTES:

- 1. Dimensions are to the centerline of markings.
- 2. An Access Aisle is required for each accessible space when angle parking is used.
- 3. Criteria for pavement markings only, not public sidewalk curb ramp locations. For ramp locations refer to plans.
- 4. Mount FTP-22-06 sign below the FTP-21-06 sign.
- 5. Use of the pavement symbol in accessible parking spaces is optional. When pavement symbol is used, the symbol is either 3'-0" or 5'-0" high and white in color.

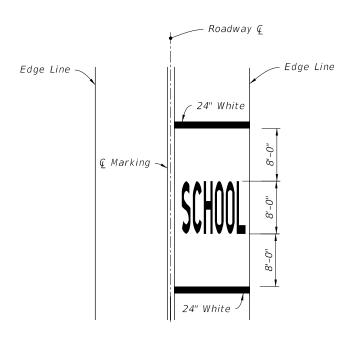
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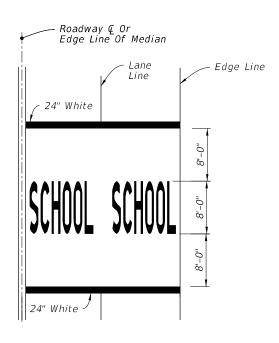
DESCRIPTION:

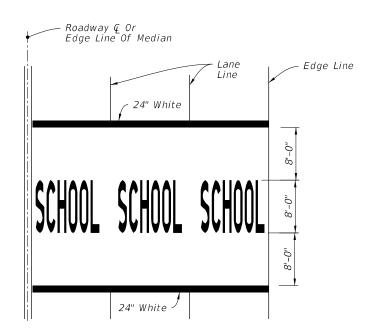


SCHOOL PAVEMENT MARKING

- 1. All grids are 4" x 4".
- 2. Pavement Marking Should Not Extend Into Opposing Lane.
- 3. Center School Pavement Marking in lane.







SINGLE-LANE APPROACH

TWO-LANE APPROACH

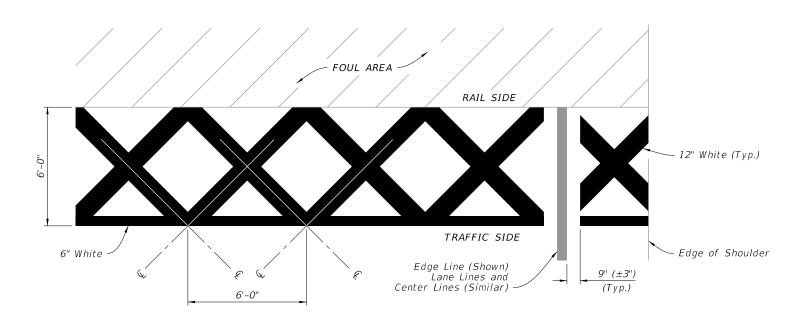
MULTI-LANE APPROACH (Three or More)

MARKINGS FOR SCHOOL ZONES =

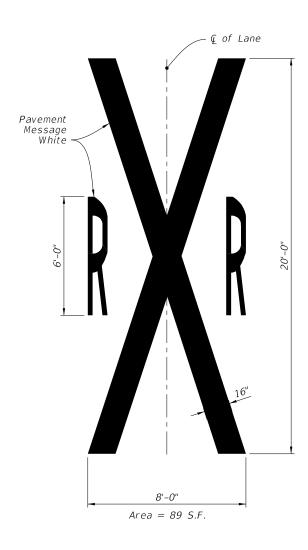
REVISION 11/01/21

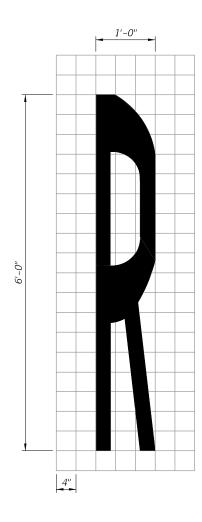
DESCRIPTION:

Orient Railroad Dynamic Envelope Marking as shown in the Plans.



= RAILROAD DYNAMIC ENVELOPE (RDE) PAVEMENT MARKING DETAIL =





RAILROAD CROSSING PAVEMENT MESSAGE

REVISION 11/01/21 DESCRIPTION:

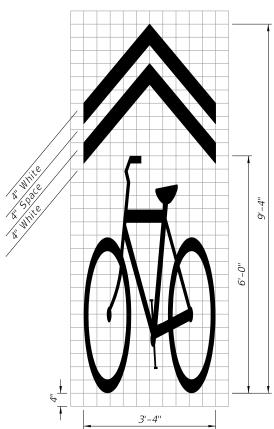
FDOT

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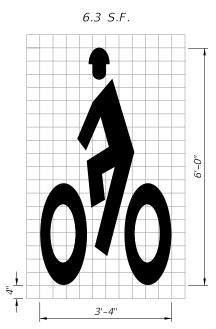
PAVEMENT MARKINGS

INDEX 711-001 SHEET

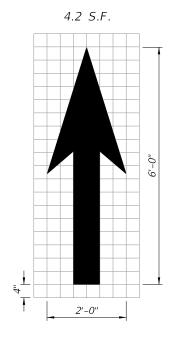
8.1 S.F.



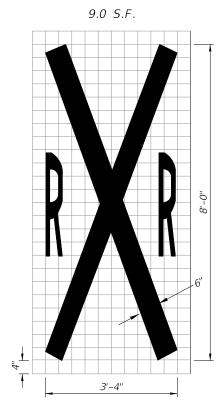
SHARED LANE MARKING (SLM)



HELMETED BICYCLIST SYMBOL



BIKE LANE ARROW



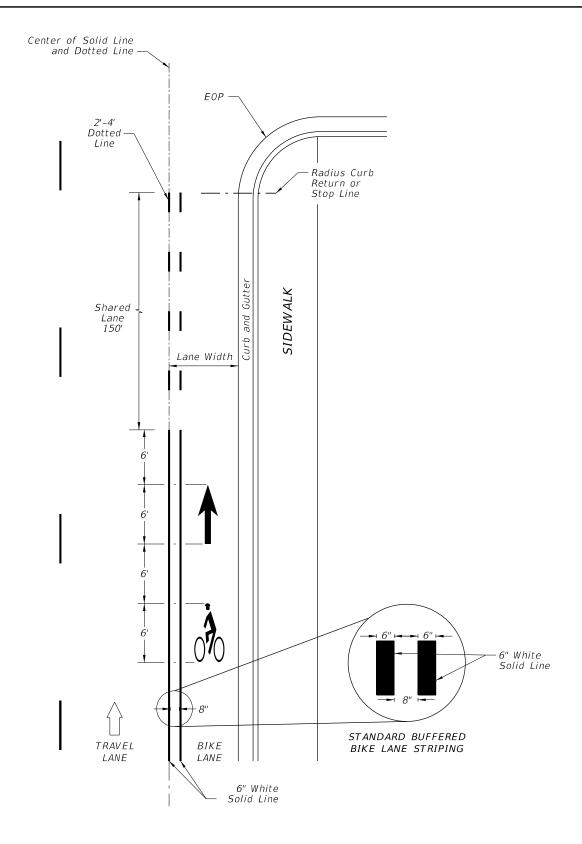
RAILROAD CROSSING

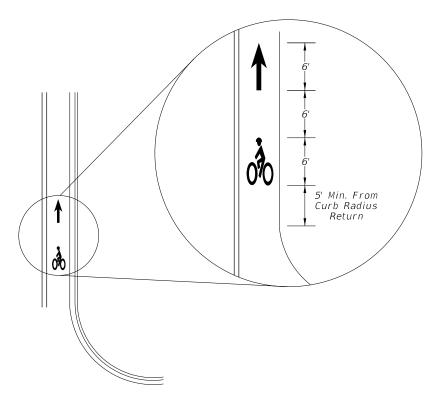
NOTES:

- 1. All bicycle markings and pavement messages shall be White.
- 2. All bicycle markings shall be preformed thermoplastic.
- 3. All grids are 4" x 4".

= STANDARD PAVEMENT MARKING MESSAGE LAYOUTS =

≥ DESCRIPTION:





FAR SIDE OF INTERSECTION DETAIL

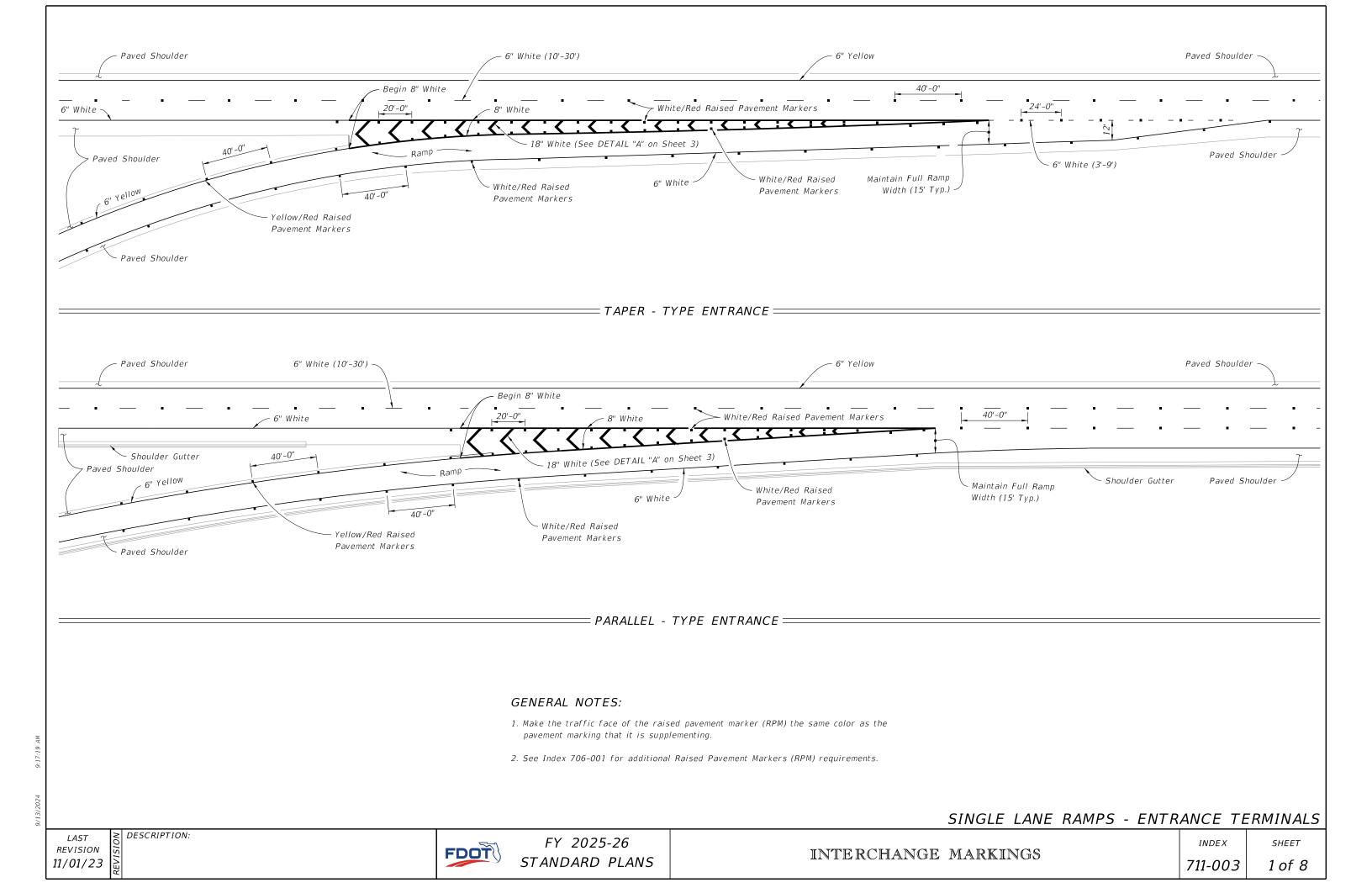
BICYCLE MARKINGS

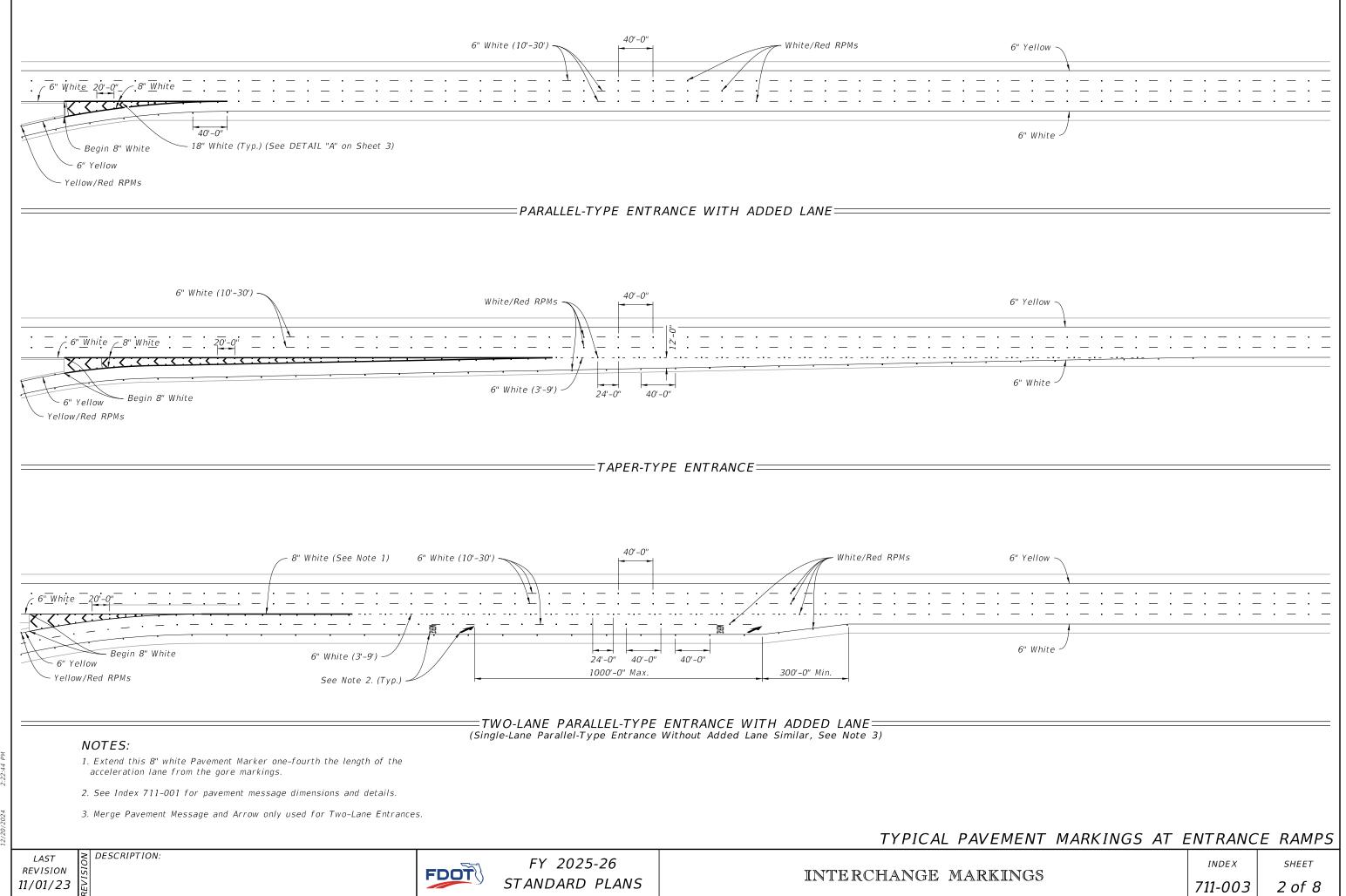
APPROACH TO INTERSECTIONS DETAILS

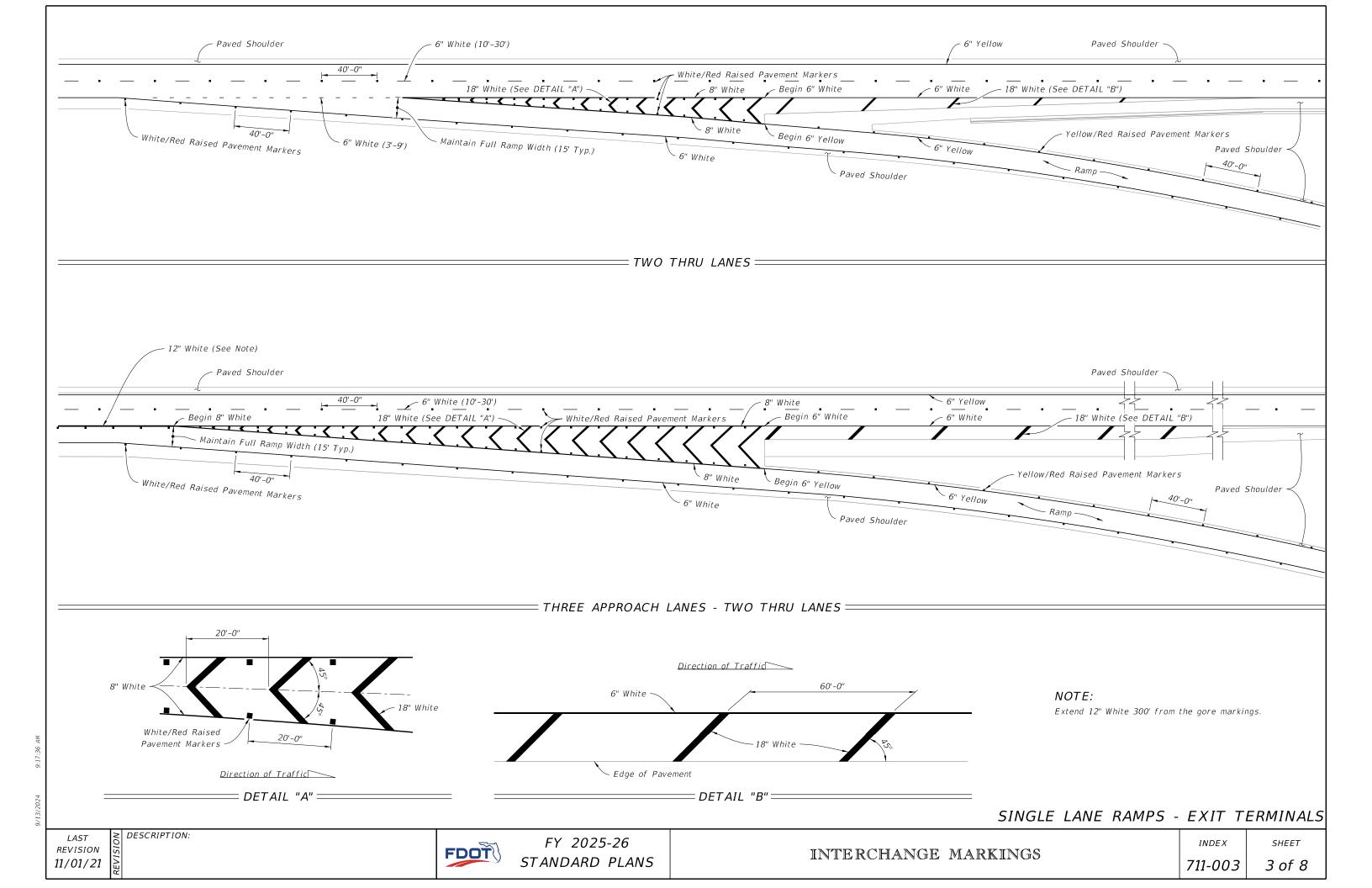
= BUFFERED BIKE LANES =

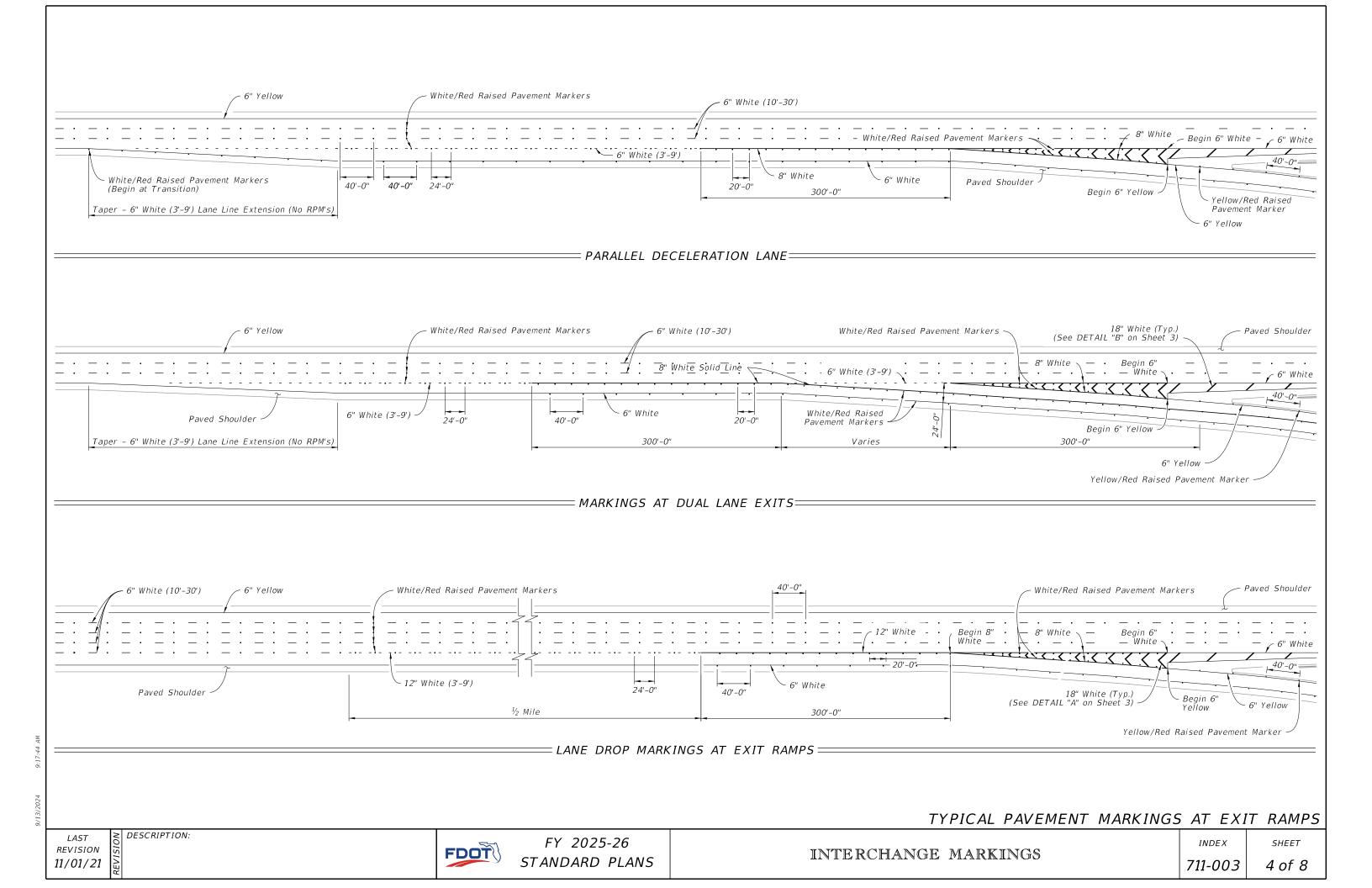
LAST REVISION 11/01/17

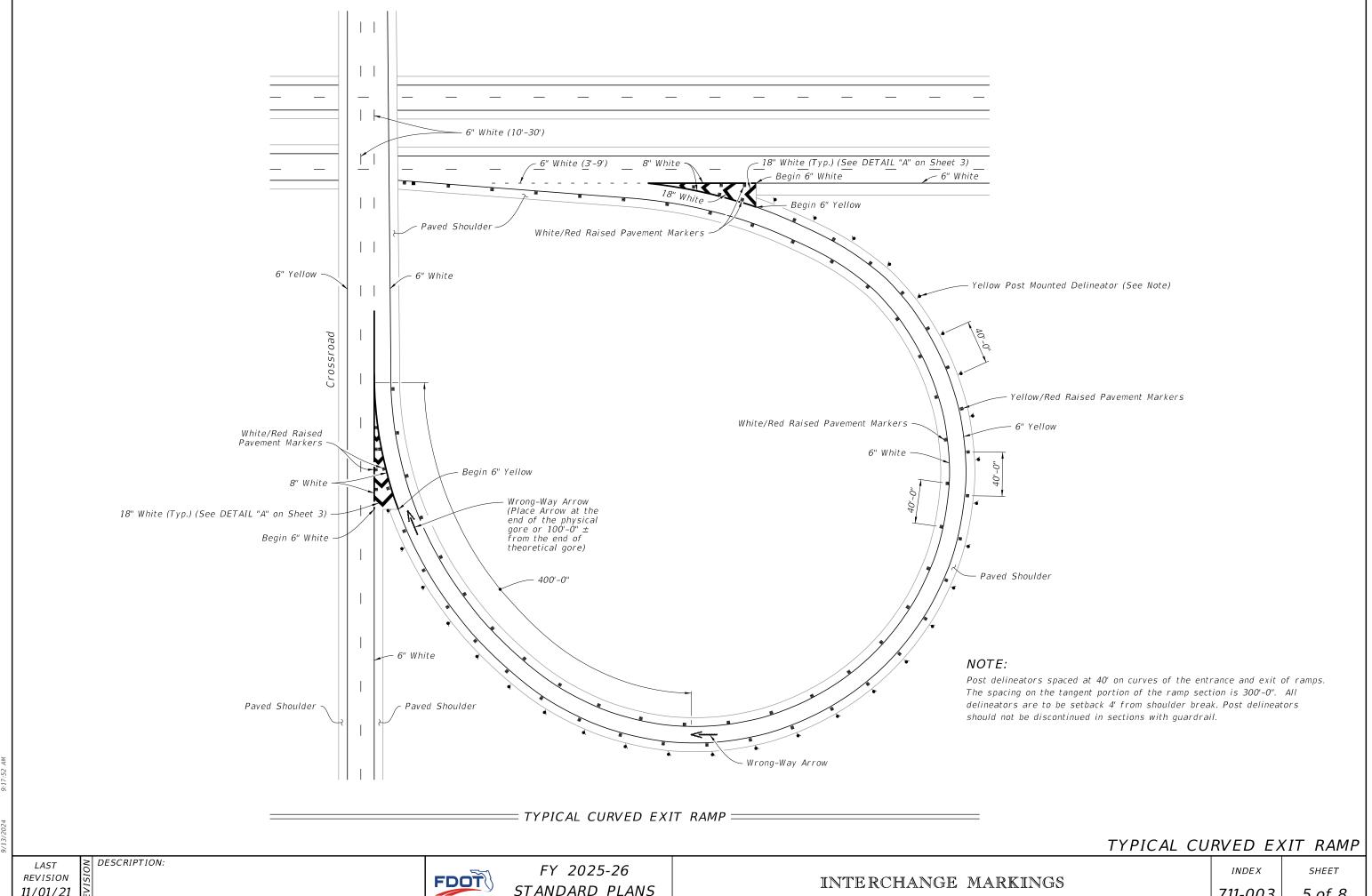
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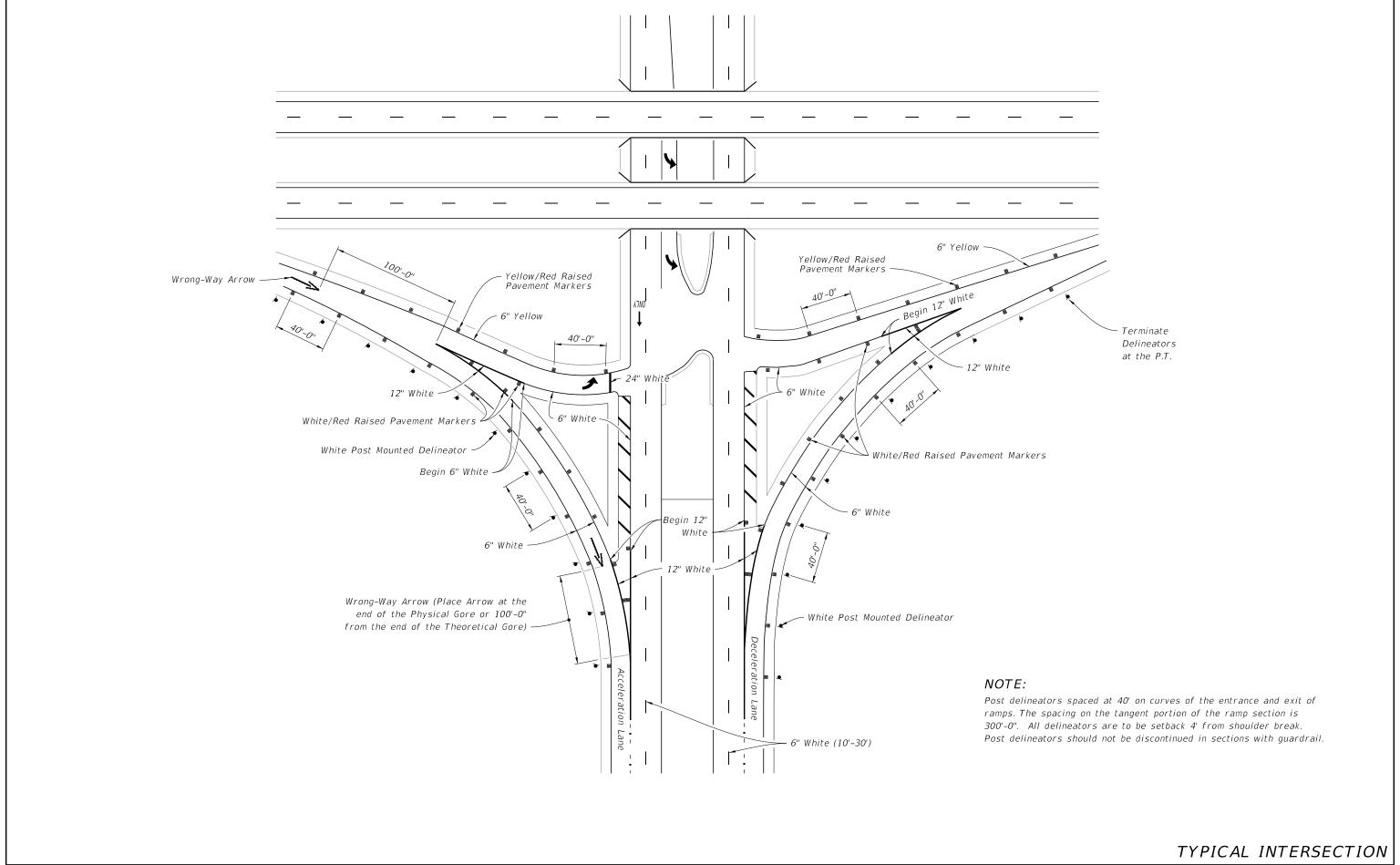








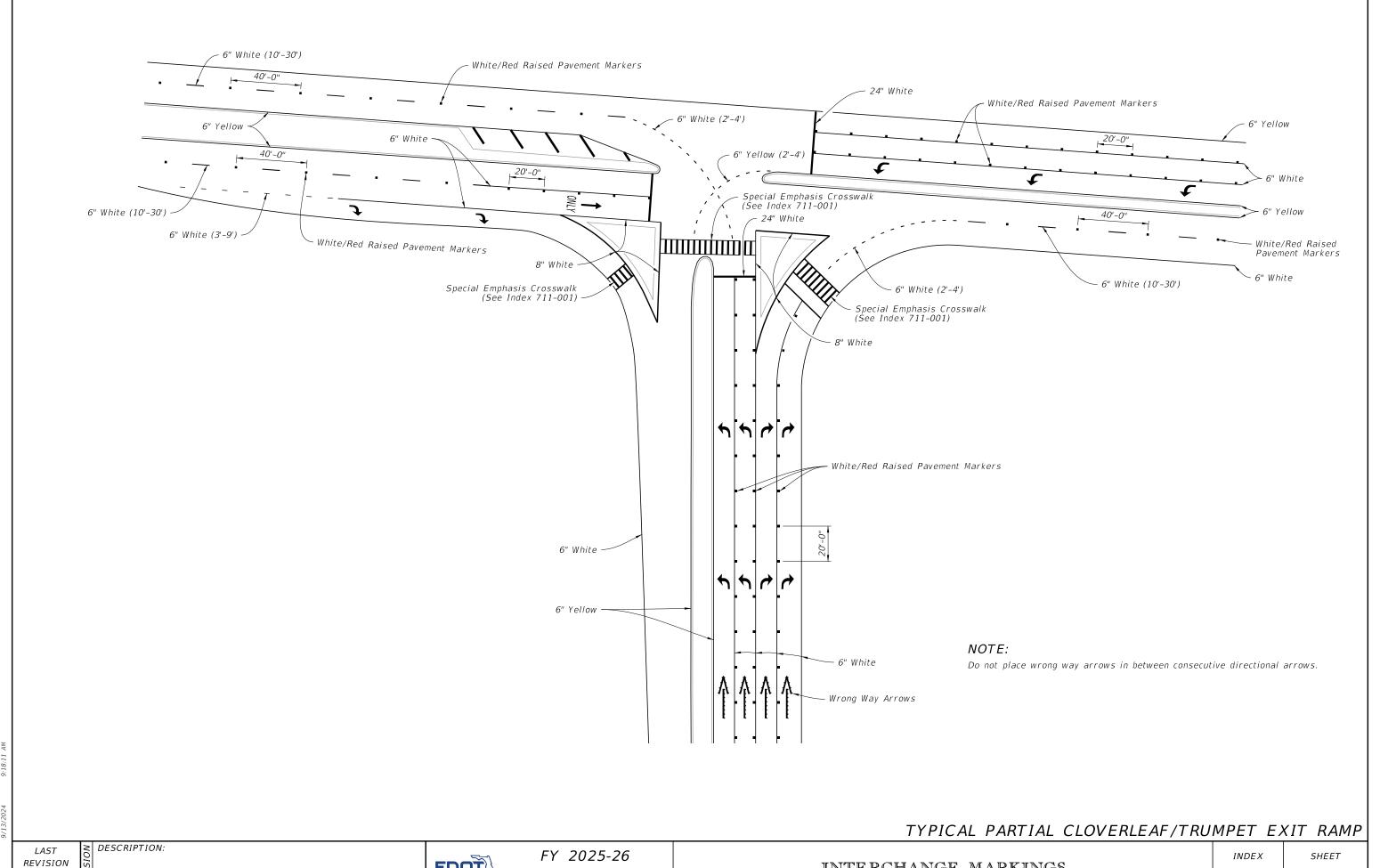
11/01/21



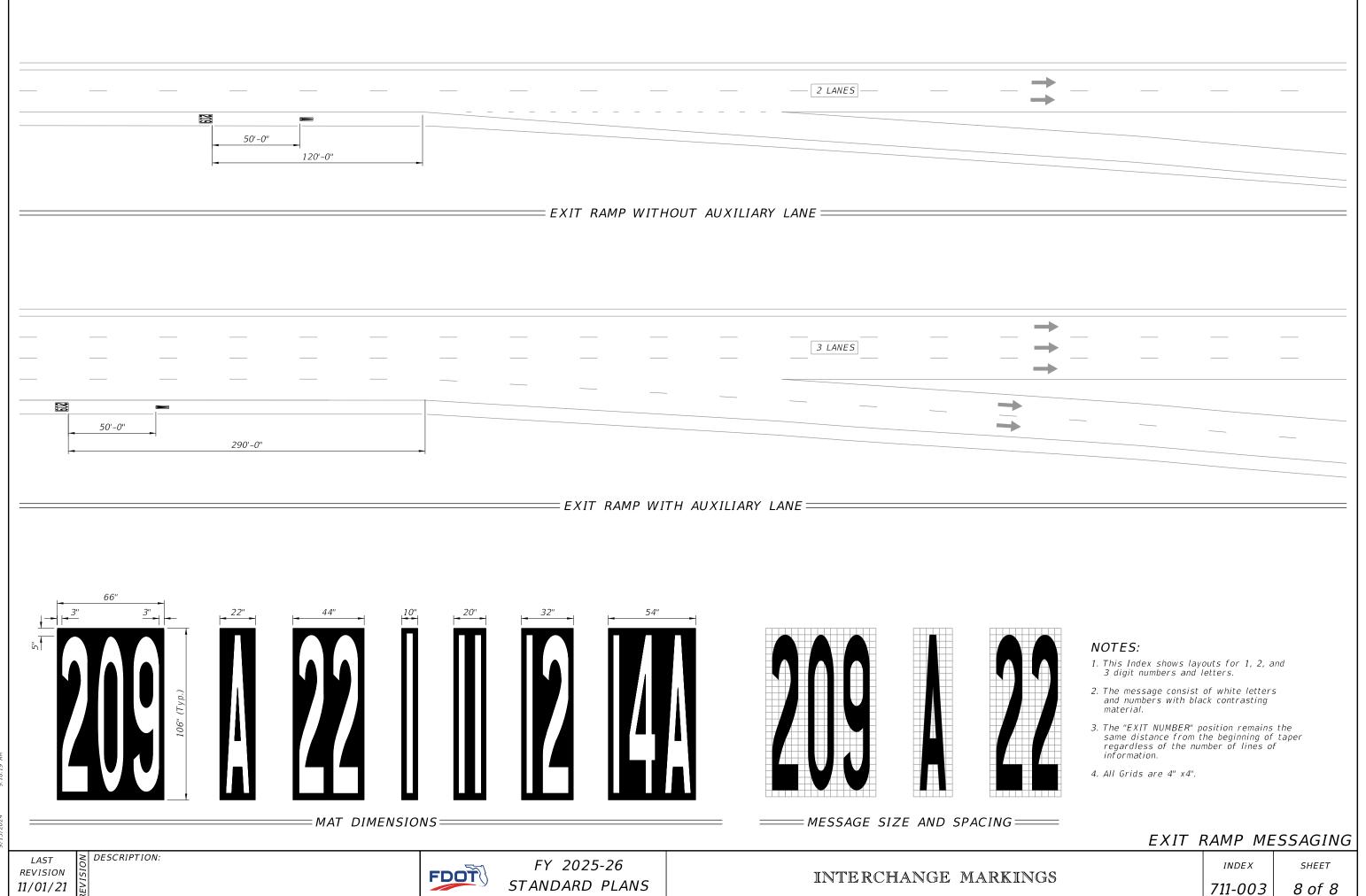
DESCRIPTION: REVISION 11/01/21

FDOT

FY 2025-26 STANDARD PLANS



11/01/21

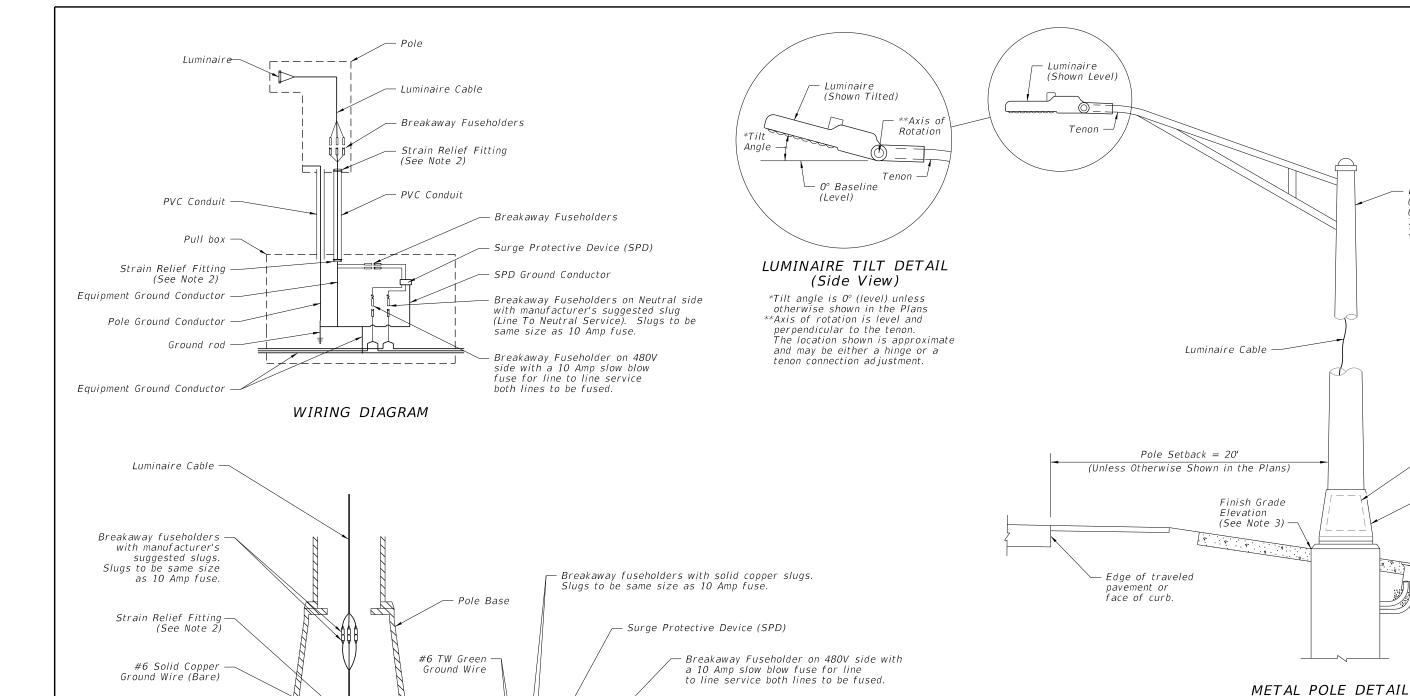


11/01/21

FDOT

STANDARD PLANS

8 of 8



- 1. Concrete Barrier and Bridge Mounted Poles: Place wiring system following conduit layouts and requirements of Index 715-002. Follow additional requirements of Specification 992. For wiring and devices shown inside of pull boxes on this sheet, place inside of embedded junction boxes instead. Place the vertical breakaway fuseholders inside the pole, at the handhole location.
- 2. Provide enough cable length to allow for removal of fuseholders from the transformer base, pole base, or pullbox for maintenance. Remove slack from the luminaire cable to provide tension on the fuseholders in breakaway pole designs. Pull excess cable into pull box tighten strain relief fittings or cable clamps at both ends of conduit to prevent cable from slipping.
- 3. Align the top, outside edge of the concrete foundation with the finish grade elevation on the side nearest the traffic lane. Relative to the finish grade elevation, this foundation alignment has a vertical tolerance of plus 2 inches to minus 0 inches.

WIRING AND

Light Pole

(See Index

715-002 & 715-003)

> Access Door (On Side Downstream

Pole Base

Pull Box

(See Metal

of Nearest Traffic)

Pole Wire Detail)

12" bed of

Pearock or

Ground Rod

crushed stone for drainage.

(Plumb)

REVISION 11/01/23 Grounding Lug

PVC conduit with Type TC Cable

1" PVC conduit with #6 Solid

Copper Ground Wire (Bare)

DESCRIPTION:

U.L. approved Ground Rod 5%" diameter 20' long copper—clad with approved ground connection (At all pull boxes)

METAL POLE WIRING DETAIL

FDOT

#6 Solid

Copper

Ground

FY 2025-26 STANDARD PLANS

— #6 TW Green Bonding Ground

Strain Relief Fitting (See Note 2)

Amp fuse.

Breakaway Fuseholders on Neutral side with manufacturer's suggested slug (Line To Neutral

Service). Slugs to be same size as 10

Circuit conductors in schedule 40 PVC

conduit. Circuit conductors and conduit

-12" bed of Pearock or crushed stone for drainage

size as shown in plans. (Typical)

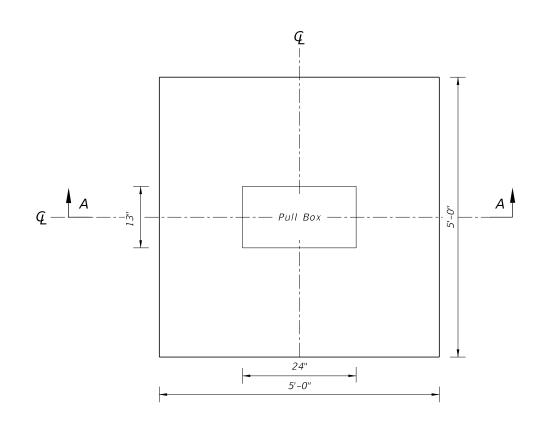
INSTALLATION DETAILS

INDEX

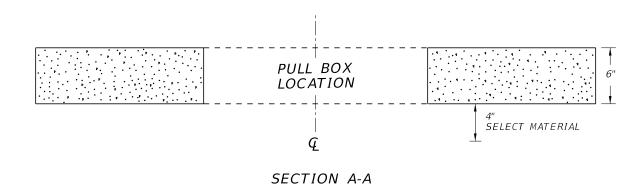
1 of 3

SHEET

- 1. Use compacted select material in accordance with Index 120-001.
- 2. Concrete shall be Class NS with a minimum strength at 28 days of f'c=2.5 ksi.
- 3. Outside edge of slab shall be cast against formwork.
- 4. The pull box shown is 13" x 24"; others approved under Specification 635 may be used.
- 5. Slabs to be placed around all Poles and Pull Boxes in rural locations. In urban areas or where space is limited slab dimensions may be adjusted as shown in the plans.
- 6. Concrete for slabs around pull boxes shall be included in the price of pull box.



SLAB DIMENSIONS



SLAB DETAILS FOR INTERMEDIATE PULLBOX LOCATIONS

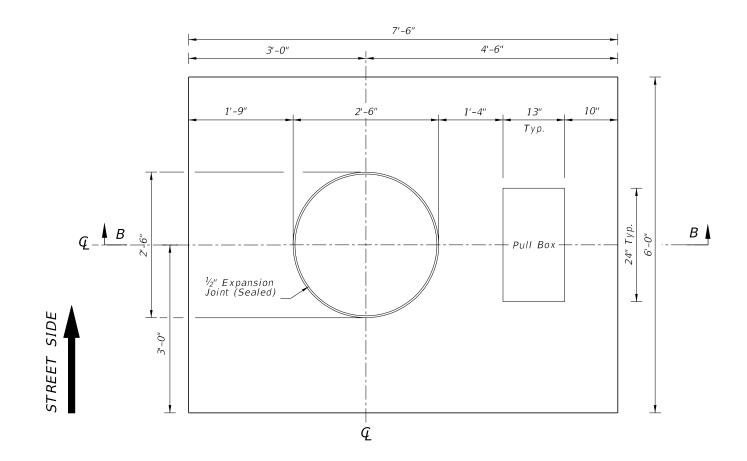
LAST REVISION 11/01/17

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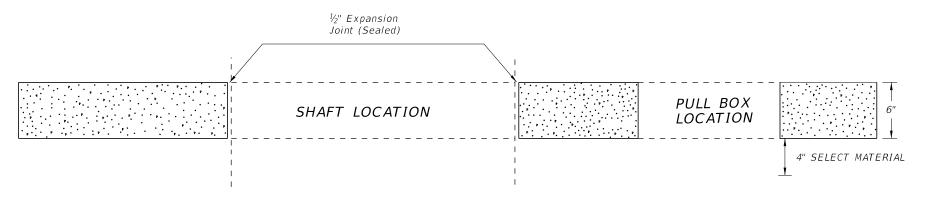
FDOT

FY 2025-26 STANDARD PLANS

- 1. Use compacted select material in accordance with Index 120-001.
- 2. Concrete shall be Class NS with a minimum strength at 28 days of f'c=2.5 ksi.
- 3. Outside edge of slab shall be cast against formwork.
- 4. The pull box shown is 13" x 24"; others approved under Specification 635 may be used.
- 5. Slabs to be placed around all Poles and Pull Boxes. In urban areas or where space is limited slab dimensions may be adjusted as shown in the plans.
- 6. Concrete for slabs around poles and pull boxes shall be included in the price of pole or pull box.
- 7. The expansion joint shall consist of ½" of closed-cell polyethylene foam expansion material. The top ½" of expansion material shall be removed after pouring the slab and sealed with an APL approved Type A sealant meeting the requirements of Specification 932.



SLAB DIMENSIONS



SECTION B-B

SLAB DETAILS FOR POLE AND PULL BOX LOCATIONS

REVISION 11/01/17

DESCRIPTION:

FDOT

FY 2025-26 STANDARD PLANS

CONVENTIONAL LIGHTING

INDEX

SHEET	CONTENTS
1	Index Contents; General Notes
2	Elevations
3	Arm & Damper Details
4	Shaft Foundation Option with Light Pole & Base Details
5	Spread Footing Foundation Option
6	Base Plate Details for Median Barrier Mounted Aluminum Light Pole
7	Spread Footing Details for Median Barrier Mounted Aluminum Light Pole
8	Cylindrical Foundation Details for Median Barrier Mounted Aluminum Light Pole
9	Details for Traffic Railing (Median 36" Single-Slope) Mounted Aluminum Light Pole

GENERAL NOTES:

- 1. LOADING: Poles are designed to support the following:
 - a. Luminaire Effective Projected Area (EPA): 1.55 SF
 - b. Weight: 75 lb.
- 2. SHOP DRAWINGS: This Index is considered fully detailed; only submit shop drawings for minor modifications not included in the Plans
- 3. MATERIALS:
 - a. Pole, Pole Connection Extrusions and Arm Extrusions: ASTM B221, Alloy 6063-T6 or Alloy 6061-T6
 - b. Bars, Plates, Stiffeners and Backer Ring: ASTM B221, Alloy 6063-T6
 - c. Caps and Covers: ASTM B-26, Alloy 319-F
 - d. Steel Bearing Plate: ASTM A709 or ASTM A36 Grade 36
 - e. Aluminum Weld Material: ER 4043
 - f. Transformer and Frangible Base Materials: ASTM B26 or ASTM B108, Alloy 356-T6
 - g. Bolts, Nuts and Washers:
 - i. Shoe Base Bolts: ASTM F3125, Grade A325, Type 1
 - ii. Nuts: ASTM A563 Grade DH Heavy-Hex
 - iii. Washer: ASTM F436 Type 1
 - h. Anchor Bolts, Nuts, and Washers:
 - i. Anchor Bolts: ASTM F1554 Grade 55
 - ii. Nuts: ASTM A563 Grade A Heavy-Hex
 - iii. Plate Washer: ASTM A36
 - i. Stainless Steel Fasteners: ASTM F593 Alloy Group 2, Condition A, CW1 or SH1
 - j. Nut Covers: ASTM B26 (319-F)
 - k. Concrete: Class II
 - I. Reinforcing Steel: Specification 415

4. FABRICATION:

- a. Weld Arm and Pole (Alloy 6063) in the T4 temper using 4043 filler. Age the Arm and Pole artificially to the T6 temper after welding
- b. Transverse welds are only allowed at the base.
- c. Roadway Light Pole Taper: Taper as required to provide a round top 0.D. of 6" and a base 0.D. of 8" for 20' and 25' mounting heights and 10" 0.D. for poles with 30' to 50' mounting heights. Portions of the pole near the base shoe and at the arm connections may be held to simplify fabrication.
- d. Median Barrier Mounted Light Pole Taper: Taper as required to provide a 6" O.D. round top with an 11" x 7" O.D. oblong base. Portions of the pole near the base and at the arm connections may be held constant at 11"x 7" oblong and 6" round respectively to simplify fabrication.
- e. Provide 'J', 'S' or 'C' hook at top of pole for electrical wires.
- f. Equip poles located on bridges, walls and concrete median barriers/Traffic Railings with a vibration damper.
- g. Perform all welding in accordance with AWS D1.2.
- h. Embedded Junction Box (EJB):

DESCRIPTION:

- i. Weld all seams continuously and grind smooth.
- ii. Hot Dip Galvanize after Fabrication.
- iii. Provide a watertight cover with neoprene gasket and secure cover with galvanized screws.

GENERAL NOTES (CONTINUED):

5. POLE CAPACITY: For Median Barrier Mounted Aluminum Light Poles, the fabricator must demonstrate the ability to produce a crack free pole.

The fabricator's Department-approved QC Plan must contain the following information prior to fabrication:

- a. Tests demonstrating a pole with a $\frac{1}{4}$ " wall thickness achieves and ultimate moment capacity of 36 kip*ft in the strong axis and 30 kip*ft in the weak axis.
- b. Tests demonstrating a pole with a $^{15}\!\!\!/_{6}$ " wall thickness achieves an ultimate moment capacity of 44 kip*ft in the strong axis and 37 kip*ft in the weak axis.
- c. Test results showing the pole does not buckle at the shape transition area under the ultimate moment capacity loads.
- d. Complete details and calculations for the reinforced 4"x 6" (Min.) handhole located 1'-6" above the base plate.
- 6. IDENTIFICATION TAG: (Submit details for approval.)
 - a. 2" x 4" (Max.) aluminum identification tag.
 - b. Locate on the inside of the transformer base and visible from the door opening.
 - c. Secure to transformer base with $\frac{1}{8}$ " diameter stainless steel rivets or screws.
 - d. Include the following information on the ID Tag:
 - i. Financial Project ID
 - ii. Pole Height
 - iii. Manufacturer's Name
- 7. COATINGS/FINISH:
 - a. Pole and Arm Finish: 50 grit satin rubbed.
 - b. Galvanize Steel Bolts, Screws, Nuts and Washers: ASTM F2329
 - c. Hot Dip Galvanize EJB and other steel items including poles and plate washers: ASTM A123
- 8. CONSTRUCTION:
 - a. Foundation: Specification 455, except payment for the foundation is included in the cost of the pole.
 - b. Frangible Base, Base Shoe, and Clamp:
 - i. Certify that the Clamp, Frangible Transformer Base, and Base Shoe Design are capable of providing the required capacity.
 - ii. Certify the Base conforms to the current FHWA required AASHTO Frangibility Requirements, tested under NCHRP Report 350 Guidelines (e.g. Akron Foundry TB1-17).
 - iii. Do not erect pole without Luminaire attached.
- 9. EMBEDDED JUNCTION BOX (EJB): Install EJBs per Note 4 and in accordance with Specification 635, as shown on the following Sheets.
- 10. WIND SPEED BY COUNTY:

120 MPH

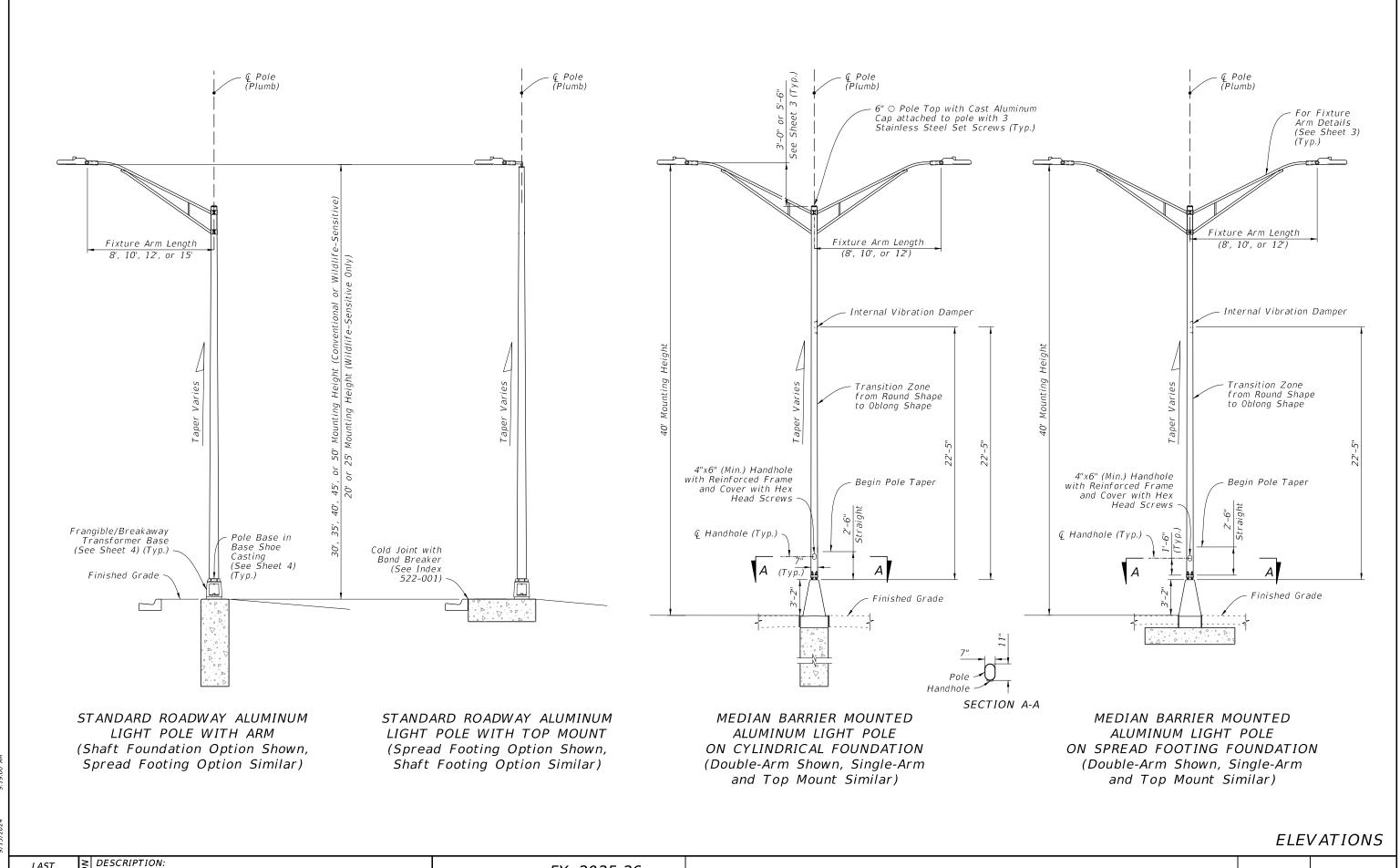
Alachua, Baker, Bradford, Calhoun, Clay, Columbia, Dixie, Duval, Gadsden, Gilchrist, Hamilton, Jackson, Jefferson, Lafayette, Leon, Liberty, Nassau, Madison, Putnam, Suwannee, Taylor, Union and Wakulla Counties.

140 MPH

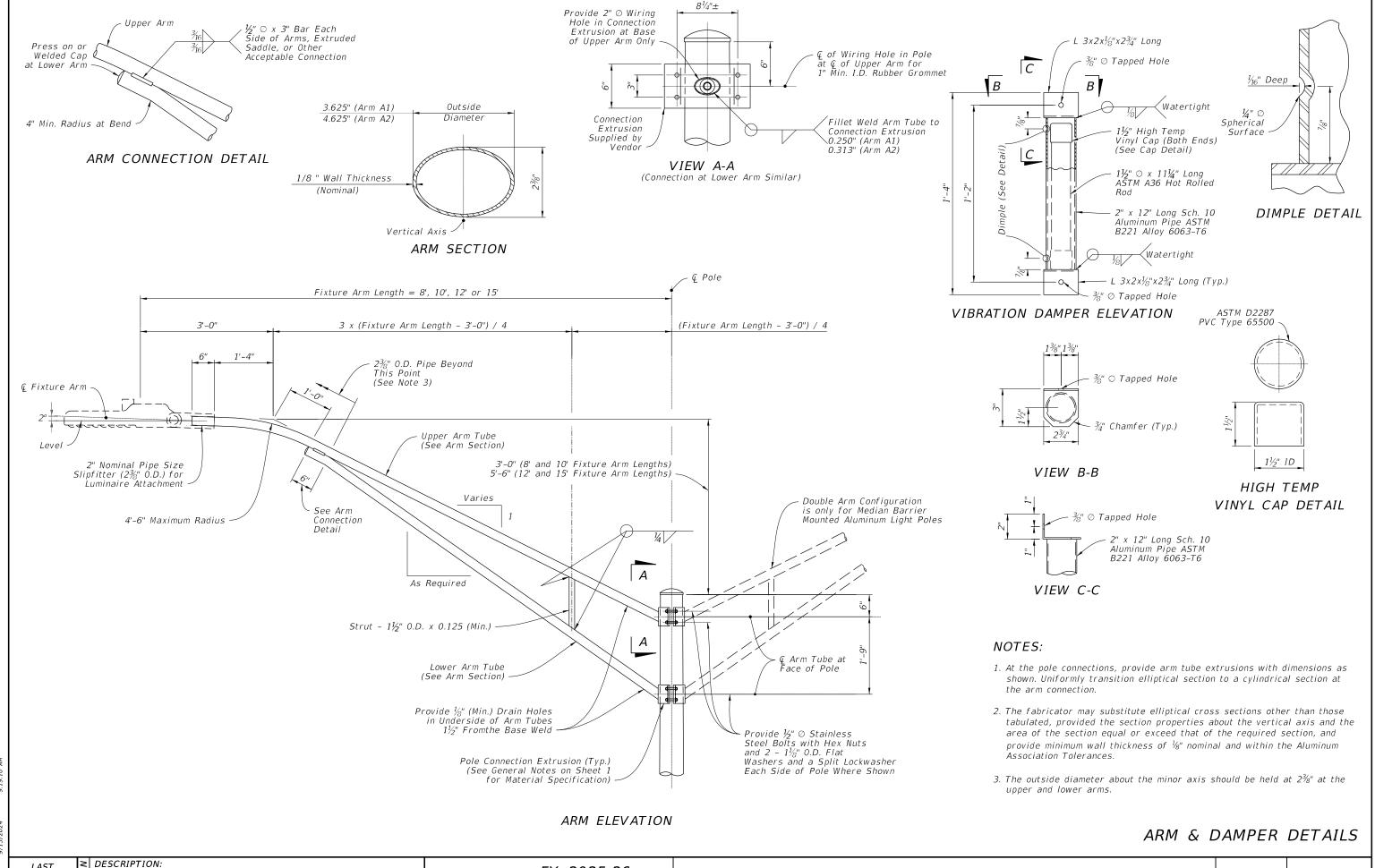
Bay, Citrus, De Soto, Flagler, Franklin, Glades, Gulf, Hardee, Hendry, Hernando, Highlands, Hillsborough, Holmes, Lake, Levy, Manatee, Marion, Okaloosa, Okeechobee, Orange, Osceola, Pasco, Pinellas, Polk, Santa Rosa, Seminole, St. Johns, Sumter, Volusia, Walton and Washington Counties.

60 MPH

Brevard, Broward, Charlotte, Collier, Escambia, Indian River, Lee, Martin, Miami-Dade, Monroe, Palm Beach, Sarasota and St. Lucie Counties.



REVISION 11/01/24



REVISION

11/01/24

SHAFT FOUNDATION NOTES:

DESCRIPTION:

- 1. Depths shown are for slopes equal to or flatter than 1:4. For slope steeper than 1:4 and equal to or flatter than 1:2 add 2'-6" to foundation depths shown.
- 2. Foundation Tie Bars: #4 Tie Bars @ 12" centers (max.) or D10 (or W10) spiral @ 6" pitch, 3 flat turns top and 1 flat turn bottom.
- 3. For precast foundations, the circular cross section shown herein may be substituted with an octagon shape. The out-to-out distance between parallel edges of the octagon must be ≥ 2'-6". Use the same reinforcing diameter and centered placement with a minimum 3" cover.

ARM-POLE TABLE

FOR STANDARD ALUMINUM LIGHT POLES WITH ARM

Mounting	Wind Speed and Arm Lengths (Ft.)							
Height	120 mph	140	mph	160	mph			
(Ft.)	8, 10, 12, 15	8, 10, 12	15	8, 10	12, 15			
30				A1-P1	A2-P1			
35	A1-P1	A1-P1	A1-P1	A1-P1	A1-P1	A2-P1	A1-P1	A2-P1
40	AI-PI			A1-P2	A2-P2			
45	A1-P2	A1-P2	A2-P2	AI-FZ	AZ-FZ			
50	A1-P2	A1-P2	AZ-PZ	A1-P3	A2-P3			

ARM POLE NOTES:

- 1. See ARM SECTION detail on Sheet 3 for all A1 and A2 Values.
- 2. See Pole Table for all P1, P2, and P3 values.
- 3. For Median Barrier Mounted Pole, Use Arm A1.
- 4. For 20' and 25' assembly heights use only 8' or 10' arm A1 with PO

	POLE TABLE						
Pole	Pole Wall Thickness	Top of Base Shoe Weld	Inside of Base Shoe Weld				
P0	0.156	³ / ₁₆ "	⁵ / ₃₂ "				
P 1	0.156	³ / ₁₆ "	⁵ / ₃₂ "				
P2	0.250	1/4"	1/4"				
Р3	0.313	⁵ / ₁₆ "	⁵ / ₁₆ "				

POLE NOTES:

- 1. Pole wall thicknesses shown are nominal and must be within the Aluminum Association tolerances.
- 2. Thicker walls are permitted and tapered walls may be used in accordance with the minimum Aluminum Association thicknesses.

,	TOP MOUNT POLE TABLE FOR STANDARD ALUMINUM LIGHT POLES WITH TOP MOUNT					
Mounting		Wind Speed				
Height (Ft.)	120 mph	140 mph	160 mph			
20	Pole PO	Pole PO	Pole PO			
25	roie ro	rule ru	Pole Po			
30			Pole P1			
35	Pole P1	Pole P1	Pole P1			
40						
45	Pole P2	Pole P2	Pole P2			
50	ruie P2	roie P2				

SHAFT FOUNDATION TABLE						
Pole	P0	P1	P2	Р3		
Depth	6'-0"	7'-0"	8'-0"	8'-0"		
Bolt Min. Embedment	2'-6"	3'-6"	3'-6"	3'-6"		

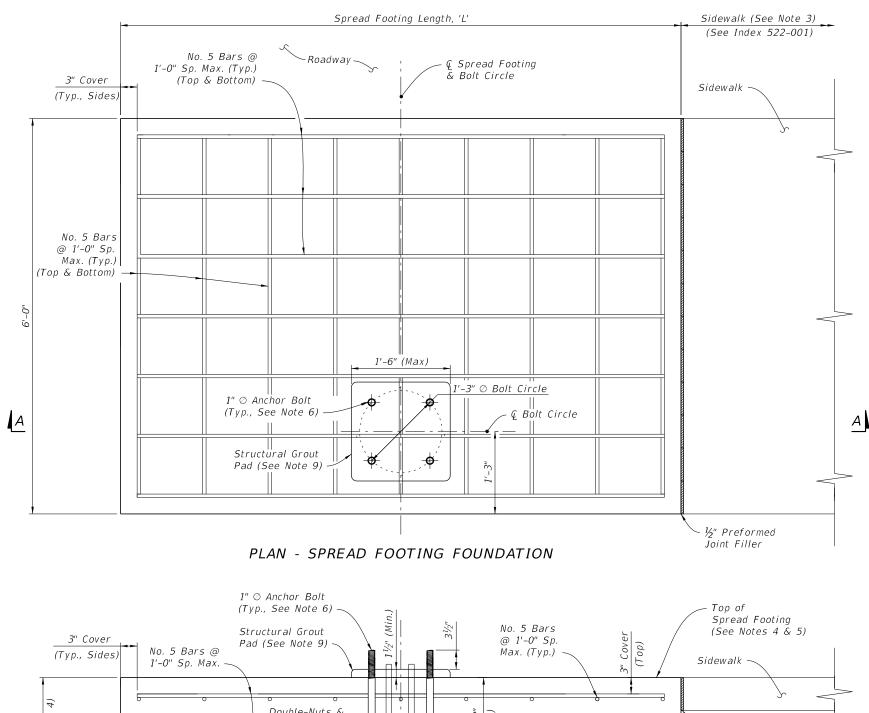
SHAFT FOUNDATION OPTION
WITH LIGHT POLE & BASE DETAILS

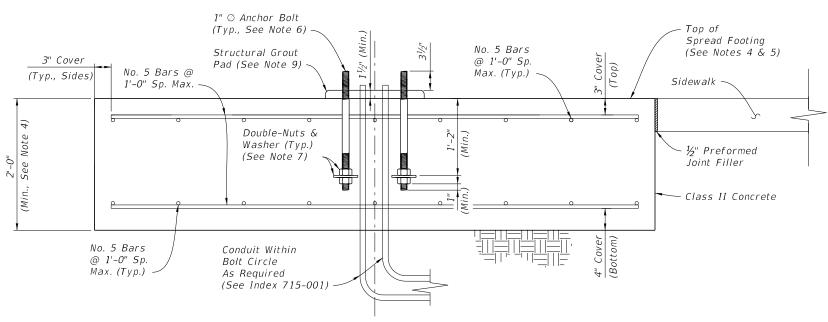
LAST REVISION 11/01/24



POLE BASE ELEVATION

-002 4 0





SPREAD FOOTING LENGTH, 'L' Wind Speed (All Arm Lengths) Mounting Height (Ft.) 120 mph 140 mph 160 mph 4'-6" 5'-0" 6'-0" 20 4'-6" 6'-0" 25 5'-0" 30 7'-0" 7'-0" 7'-0" 7'-0" 7'-0" 7'-0" 35 40 7'-0" 7'-0'' 10'-0" 45 10'-0" 8'-6" 10'-0" 8'-6" 10'-0" 11'-6" 50

NOTES:

- 1. Install the Spread Footing Foundation Option only where called for in the Plans.
- 2. The Spread Footing Foundation Option is only permitted for use with single arm or top mount light poles. Where applicable, the pole arm must be oriented towards the roadway side of the footing as shown. Double arm configurations are not permitted.
- 3. Sidewalk placed on the other side or both sides of the spread footing is permitted where shown in the Plans. The sidewalk connection to spread footing requires the $\frac{1}{2}$ " expansion joint shown regardless of the side.
- 4. The top of the spread footing must match the cross slope of the adjacent sidewalk where applicable per the Plans. The nominal bottom of the spread footing must remain level.
- 5. Apply concrete surface finish to the top of the spread footing in accordance with Specification 522-7.
- 6. Mount the anchor bolts plumb. For the corresponding pole base details, see Sheet 4.
- 7. Place galvanized or zinc-plated steel washers with a minimum thickness of 1/4". Use washers with a minimum size of $3\frac{1}{2}$ " \oslash round or 3"x3" square.
- 8. Where raised curb is called for in the Plans, provide a tooled cold joint with bond breaker between the foundation and back of raised curb. See Sheet 2 and the connection between concrete sidewalk and raised curb per Index 522-001.
- 9. Place a structural grout pad in accordance with Specification 934. The grout pad is square and centered on the bolt circle centerlines. Level the top of the grout pad and smooth the edges and corners per the approval of the Engineer. Install the transformer base in accordance with Sheet 4 and the manufacturer's specifications.

SPREAD FOOTING FOUNDATION OPTION

REVISION 11/01/24

DESCRIPTION:

FDOT

SECTION A-A - SPREAD FOOTING

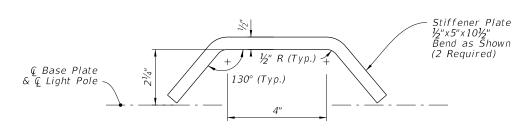
FOUNDATION ELEVATION

FY 2025-26 STANDARD PLANS

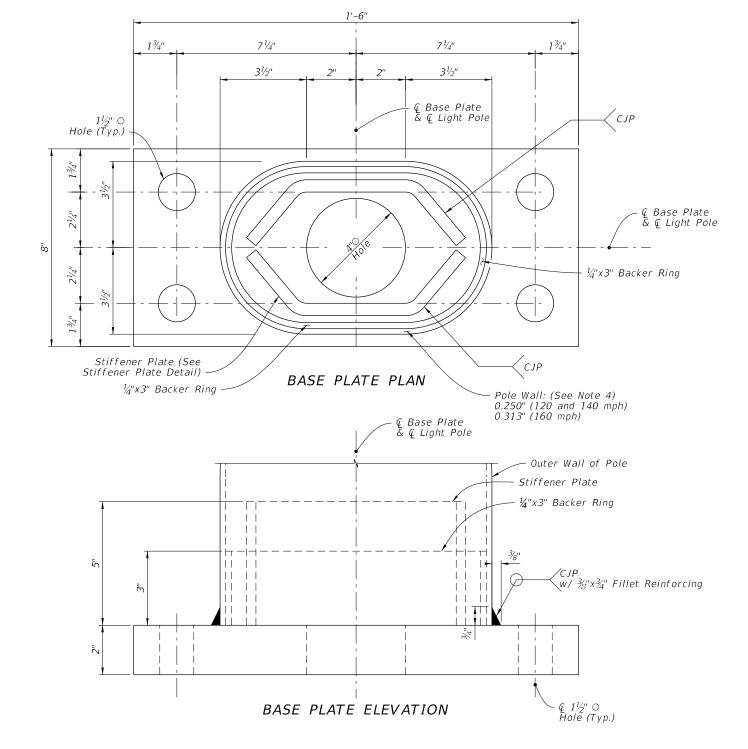
INDEX 715-002

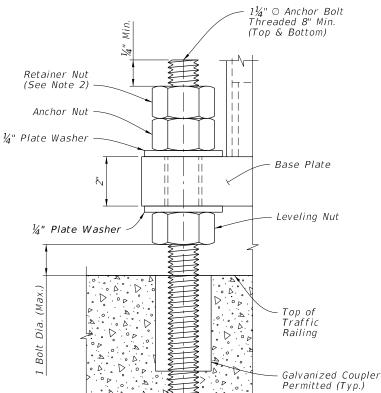
SHEET

5 of 9



STIFFENER PLATE DETAIL

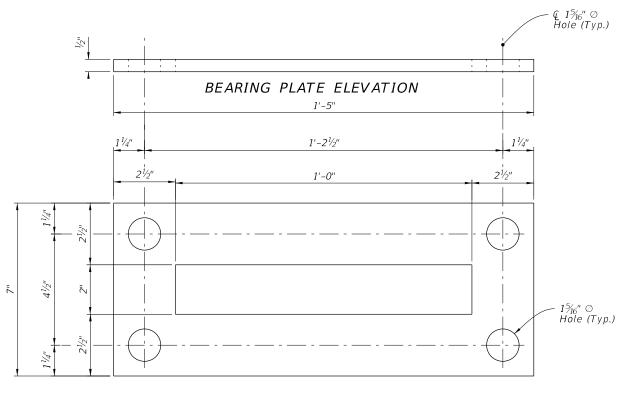




DETAIL 'A'

NOTES:

- 1. For locations of Bearing Plates, Base Plates and Detail 'A' see Sheets 7 thru 9.
- 2. The retainer nut may be substituted by a half-height nut.
- 3. Provide individual nut covers (not shown) for each bolt.
- 4. Pole wall thicknesses shown are nominal and shall be within the Aluminum Association Tolerances. Thicker walls are permitted and tapered walls may be used in accordance with the minimum Aluminum Association thicknesses.



BASE PLATE DETAILS FOR MEDIAN BARRIER MOUNTED ALUMINUM LIGHT POLE

LAST REVISION 11/01/24

DESCRIPTION:

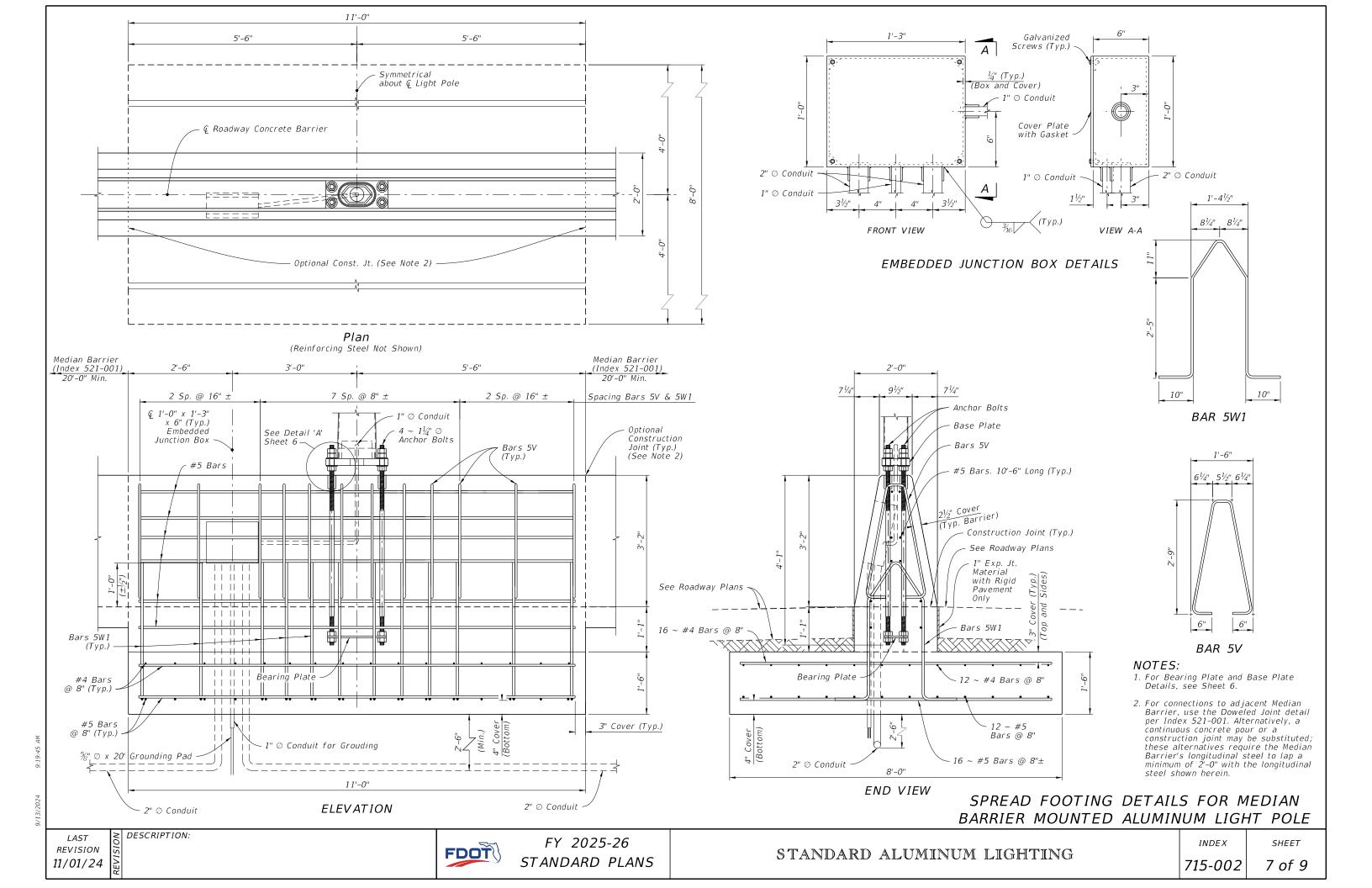
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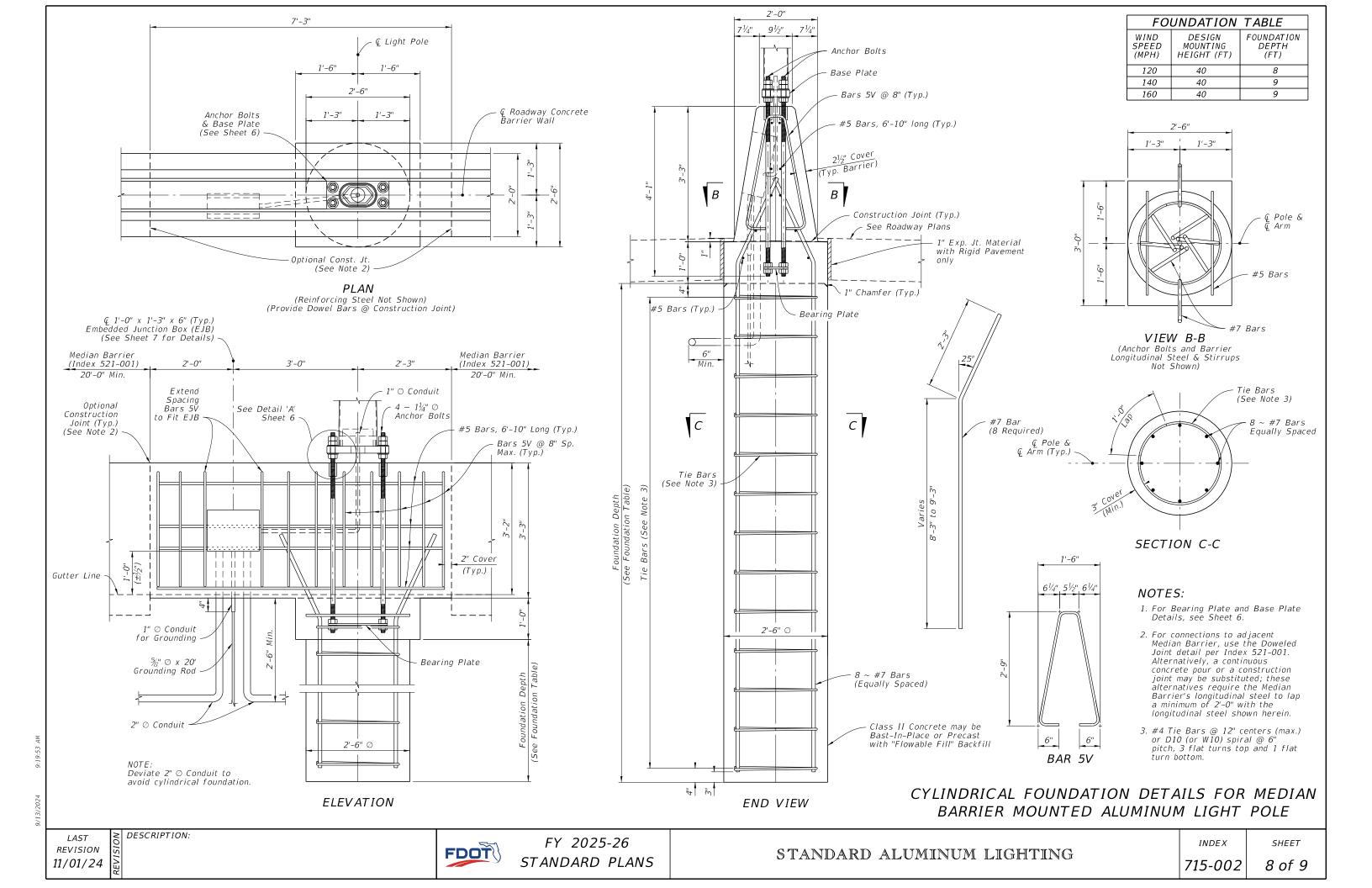
FY 2025-26 STANDARD PLANS

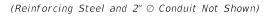
STANDARD ALUMINUM LIGHTING

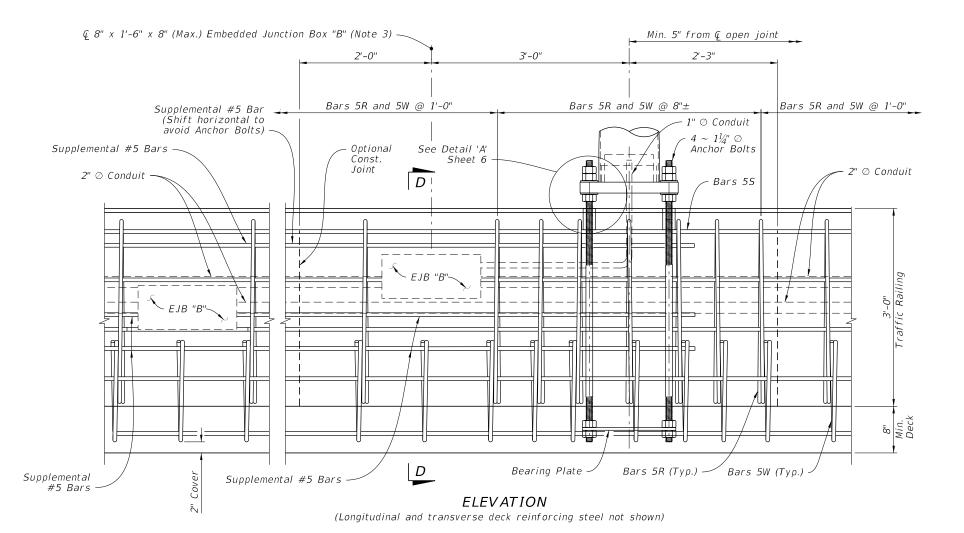
BEARING PLATE PLAN

INDEX 715-002

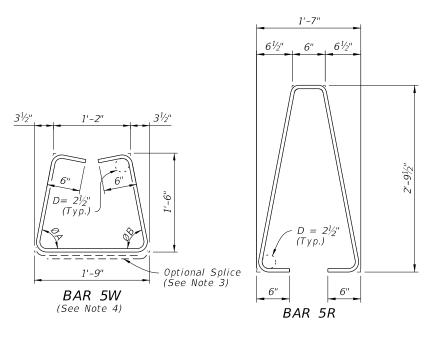


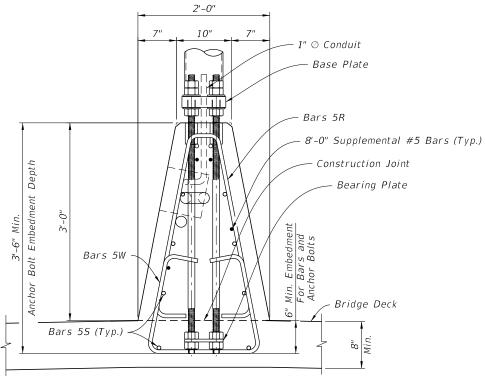






- 1. For Base Plate Details, Bearing Plate Details, and Detail 'A', see Sheet 6.
- 2. See Index 521-426 for details of adjacent Traffic Railing (Median 36" Single-Slope) and for angles $\bigcirc A$ and $\bigcirc B$.
- 3. See Index 630-010 for Conduit, EJB and supplemental reinforcing details.
- 4. At the Contractor's option, Bars 5W may be fabricated as a two piece bar with a 1'-2" lap splice at the bottom legs.





SECTION D-D (Longitudinal and Transverse Deck Reinforcing Steel Not Shown) (See Index 521–426 for Traffic Railing Reinforcing Positions)

DETAILS FOR TRAFFIC RAILING (MEDIAN 36" SINGLE-SLOPE) MOUNTED ALUMINUM LIGHT POLE

REVISION 11/01/24

DESCRIPTION:

FDOT

FY 2025-26 STANDARD PLANS

STANDARD ALUMINUM LIGHTING

INDEX 715-002

GENERAL NOTES:

2. SHOP DRAWINGS: This Index is considered fully detailed; only submit shop drawings for minor modifications not included in the Plans.

3. MATERIALS:

A. Pole, Arm Tubes, Strut Tubes, Bars, Plates, Stiffeners: ASTM B221, Alloy 6063-T6 or Alloy 6061-T6

B. Pole Connection Extrusion Clamp: ASTM B221, Alloy 6061-T6 C. Caps and Covers: ASTM B-26, Alloy 319-F

D. Aluminum Weld Material: ER 4043

E. Transformer and Frangible Base Materials: ASTM B26 or ASTM

B108, Alloy 356-T6
F. Base Bolts, Nuts and Washers:

a. Shoe Base Bolts: ASTM F3125, Grade A325, Type 1

b. Nuts: ASTM A563 Grade DH Heavy-Hex

c. Washer: ASTM F436 Type 1

G. Anchor Bolts, Nuts, and Washers:

a. Anchor Bolts: ASTM F1554 Grade 55 b. Nuts: ASTM A563 Grade A Heavy-Hex

H. Clamp Hardware: See Sheet 2

I. Stainless Steel Cap Fasteners: ASTM F593 Alloy

Group 2, Condition A, CW1 or SH1 J. Nut Covers: ASTM B26 (319-F)

K. Concrete: Class II

L. Reinforcing Steel: Specification 415

4. FABRICATION:

A. Weld Arm and Pole Alloy in the T4 temper using 4043 filler. Age the Arm and Pole artificially to the T6 temper after welding.

B. Transverse welds are only allowed at the base.

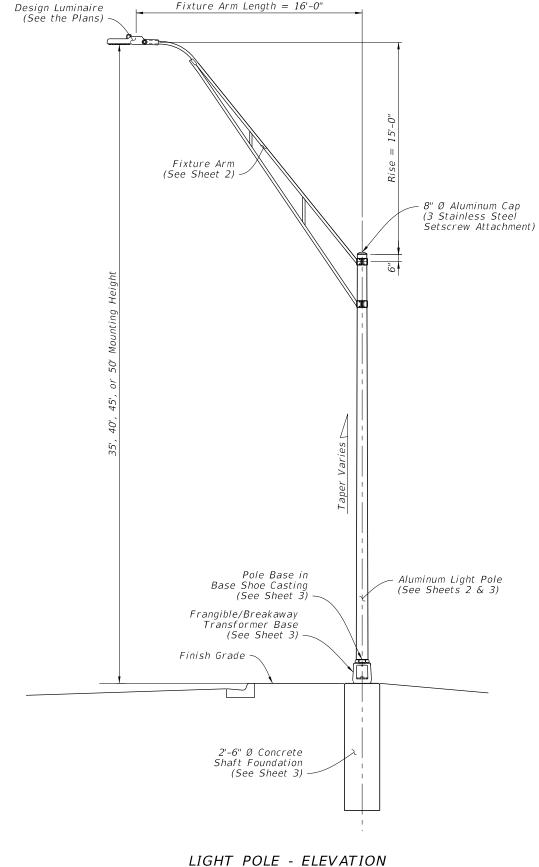
- C. Light Pole Properties: Taper as required to provide a round top 0.D. of 8" and a base 0.D. of 10" for all pole heights. Portions of the pole near the base shoe and at the arm connections may be held constant to simplify fabrication. Maintain pole wall thickness of 0.313" Min.
- D. Fixture Arm Tube Properties: See Sheet 2.
- Provide 'J', 'S' or 'C' hook at top of pole for electrical wires.
- Perform all welding in accordance with AWS D1.2. G. Identification Tag: (Submit details for approval.)
- a. 2" x 4" (Max.) aluminum identification tag.
- b. Locate on the inside of the transformer base and visible from the door opening.
- c. Secure to transformer base with $\mathcal{V}_{\!\!B}^{"}$ diameter stainless steel rivets or screws.
- d. Include the following information on the ID Tag: 1. Financial Project ID
- 2. Pole Height
- 3. Manufacturer's Name

5. COATINGS/FINISH:

- A. Pole and Arm Finish: 50 grit satin rubbed.
- B. Galvanize Steel Bolts, Screws, Nuts and Washers: ASTM F2329
- C. Hot Dip Galvanize miscellaneous steel items: ASTM A123

6. CONSTRUCTION:

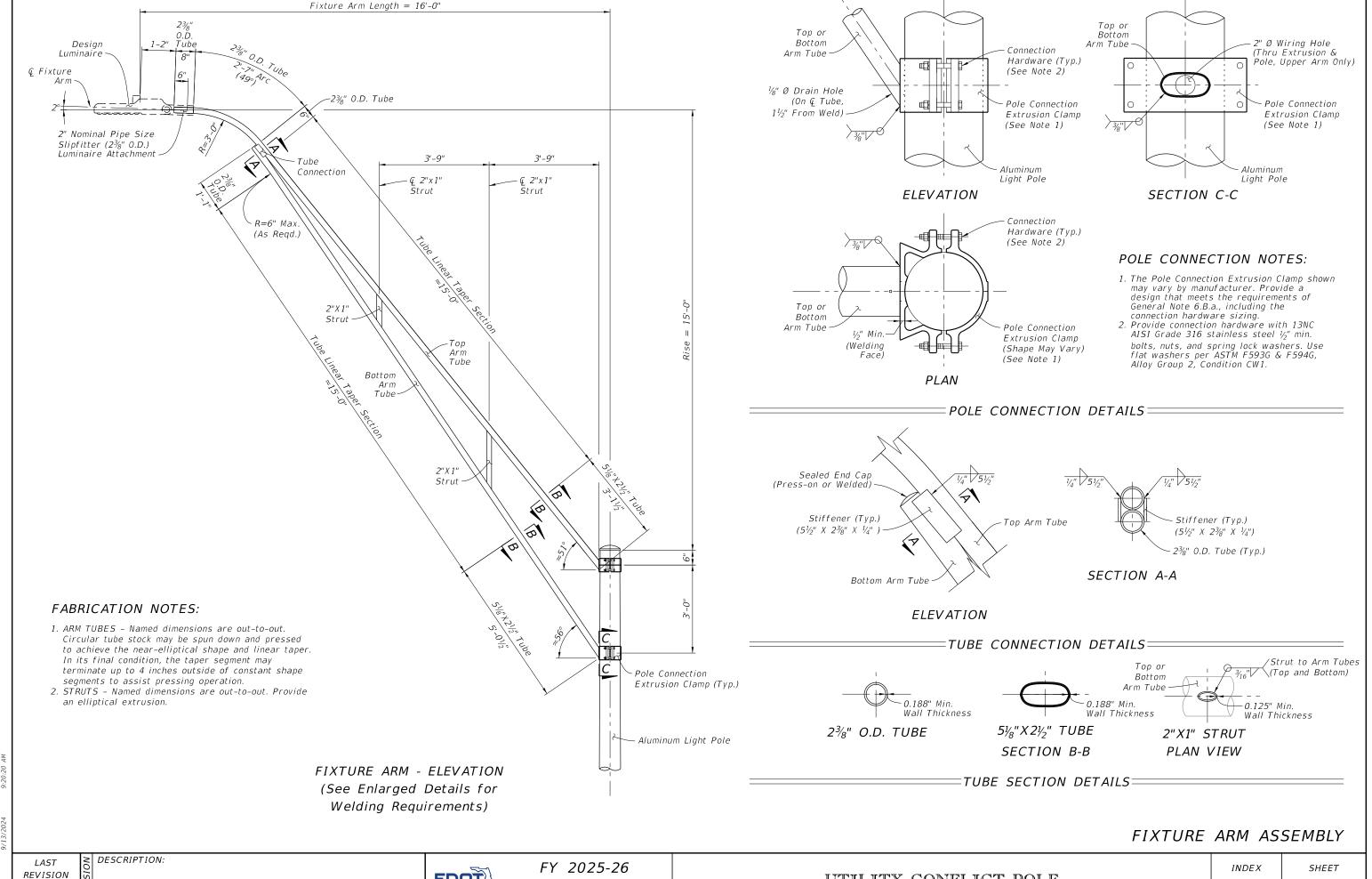
- A. Foundation: Specification 455, except payment for the foundation is included in the cost
- B. Frangible Base, Base Shoe, and Pole Connection Extrusion Clamp.
- a. Certify that the Pole Connection Extrusion Clamp, Frangible Transformer Base, and Base Shoe Design are capable of providing the required capacity, assuming a design wind speed of 160 MPH.
- b. Certify the Base conforms to the FHWA required AASHTO Frangibility Requirements, tested under NCHRP Report 350 Guidelines (e.g. Akron Foundry TB1-17).
- c. Do not erect pole without Luminaire attached.



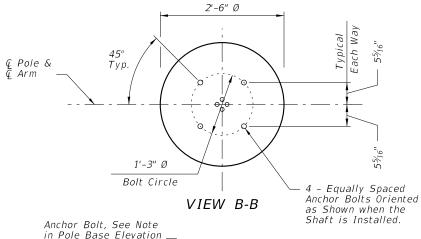
(Shaft Foundation Shown, Spread Footing Foundation Similar)

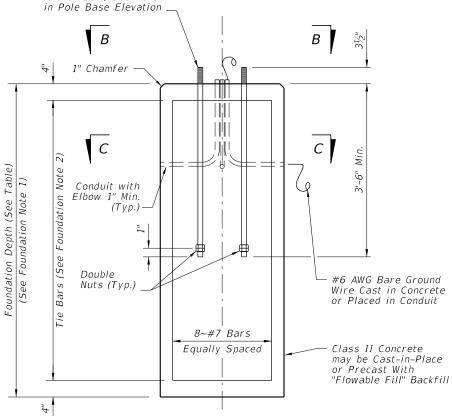
REVISION 11/01/24

DESCRIPTION:



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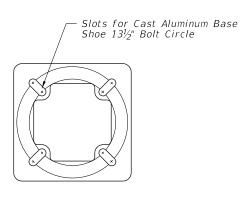


SHAFT FOUNDATION ELEVATION

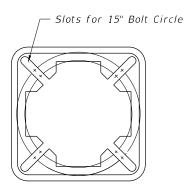
FOUNDATION DEPTHS				
Luminaire Mounting Height ≤ 40 Ft. 45-50 Ft				
Depth	8'-0"	9'-0"		

FOUNDATION NOTES:

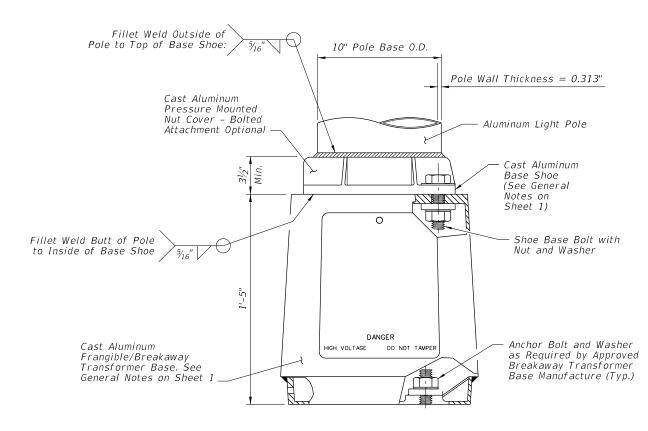
- 1. Depths shown are for slopes equal to or flatter than 1:4. For slopes steeper than 1:4 and equal to or flatter than 1:2 add 2'-6" to foundation depths shown.
- 2. Foundation Tie Bars: #4 Tie Bars @ 12" centers (max.) or D10 (or W10) spiral @ 6" pitch, 3 flat turns top and 1 flat turn
- 3. For precast foundations, the circular cross section shown may be substituted with an octagon shape. The out-to-out distance between parallel edges of the octagon must be $\geq 2'-6''$. Use the same reinforcing diameter and centered placement with a minimum 3" cover.



TOP VIEW TRANSFORMER BASE



BOTTOM VIEW TRANSFORMER BASE



POLE BASE ELEVATION

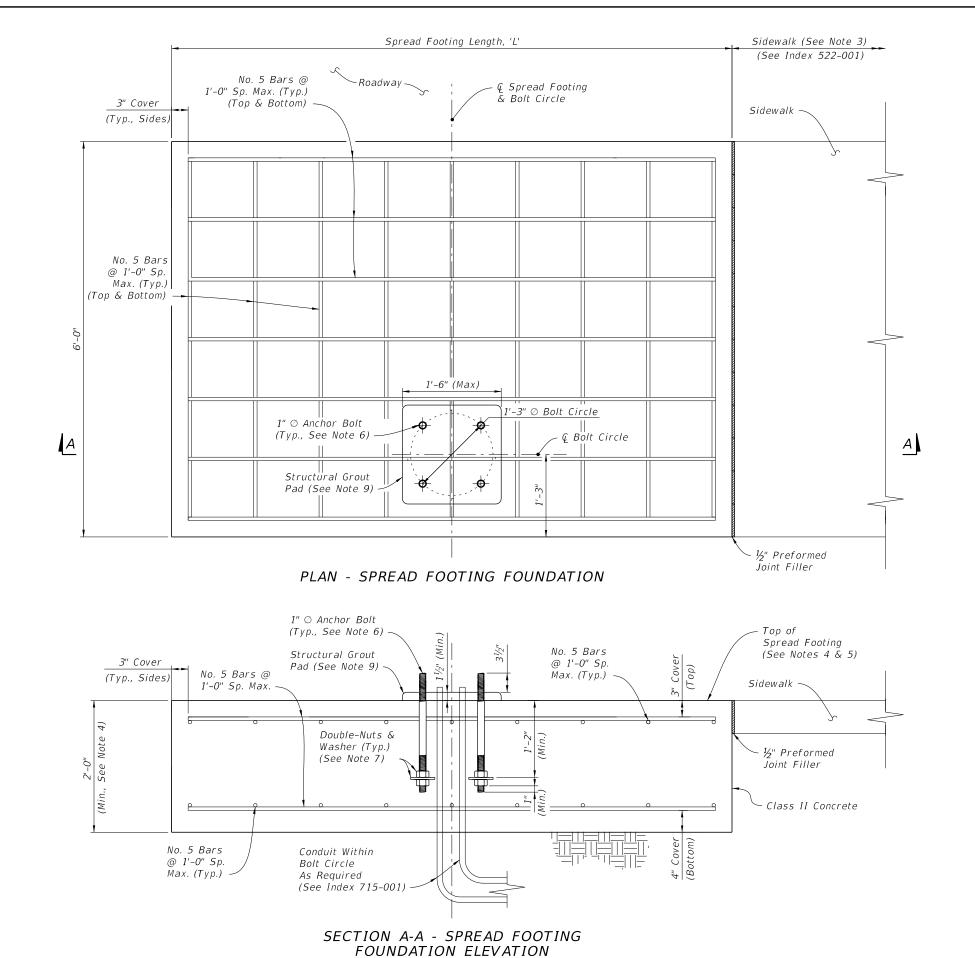
SHAFT FOUNDATION OPTION AND BASE DETAILS

REVISION 11/01/24

DESCRIPTION:

FDOT

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SPREAD FOOTING LENGTH, 'L' Wind Speed (All Arm Lengths) Mounting Height (Ft.) 120 mph 140 mph 160 mph 4'-6" 5'-0" 6'-0" 20 4'-6" 6'-0" 25 5'-0" 30 7'-0" 7'-0" 7'-0" 7'-0" 7'-0" 35 40 7'-0" 7'-0'' 10'-0" 45 10'-0" 8'-6" 10'-0" 8'-6" 10'-0" 11'-6" 50

NOTES:

- 1. Install the Spread Footing Foundation Option only where called for in the Plans.
- 2. The Spread Footing Foundation Option is only permitted for use with single arm light poles. The pole arm must be oriented towards the roadway side of the footing as
- 3. Sidewalk placed on the other side or both sides of the spread footing is permitted where shown in the Plans. The sidewalk connection to spread footing requires the $\frac{1}{2}$ " expansion joint shown regardless of the side.
- 4. The top of the spread footing must match the cross slope of the adjacent sidewalk where applicable per the Plans. The nominal bottom of the spread footing must remain level.
- Apply concrete surface finish to the top of the spread footing in accordance with Specification 522-7.
- 6. Mount the anchor bolts plumb. For the corresponding pole base details, see Sheet 3.
- 7. Place galvanized or zinc-plated steel washers with a minimum thickness of $\frac{1}{4}$ ". Use washers with a minimum size of $3\frac{1}{2}$ " \oslash round or 3"x3" square.
- 8. Where raised curb is called for in the Plans, provide a tooled cold joint with bond breaker between the foundation and back of raised curb. See Sheet 1 and the connection between concrete sidewalk and raised curb per Index 522-001
- 9. Place a structural grout pad in accordance with Specification 934. The grout pad is square and centered on the bolt circle centerlines. Level the top of the grout pad and smooth the edges and corners per the approval of the Engineer. Install the transformer base in accordance with Sheet 3 and the manufacturer's specifications.

SPREAD FOOTING FOUNDATION OPTION

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DESCRIPTION:

FDOT

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UTILITY CONFLICT POLE

INDEX 715-003

A. One (1) cylindrical head assembly with a maximum effective projected area of 6 sf and 340 lbs (Max.) B. Eight (8) cylindrical luminaires with a maximum effective projected are of 1.5 sf and 77 lbs each.

- 2. Shop Drawings: This Index is considered fully detailed, only submit shop drawings for minor modifications not detailed in the Plans.
- 3. High Mast Structure Materials:
 - A. Poles and Backing Rings:
 - a. Less than $\frac{3}{16}$ ": ASTM A1011 Grade 50, 55, 60 or 65
 - b. Greater than or equal to $^{3}\!\!\!/_{16}$ ": ASTM A572 Grade 50, 55, 60 or 65 c. ASTM A595 Grade 4 (55 ksi yield) or Grade B (60 ksi yield)
 - B. Steel Plates: ASTM A709 or ASTM A36
 - C. Pole Caps: ASTM A1011 Grade 50, 55, 60, or 65 or ASTM B209
 - D. Weld Metal: E70XX
 - E. Stainless Steel Screws: AISI 316
 - F. Anchor Bolts, Nuts and Washers:
 - a. Anchor Bolts: ASTM F1554 Grade 55
 - b. Nuts: ASTM A563 Grade A Heavy-Hex (5 per anchor bolt)
 - c. Plate Washer: ASTM A36 (2 per anchor bolt)
 - G. Nut Covers: ASTM B26 (319-F)
 - H. Concrete: Class IV (Drilled Shaft)
 - I. Reinforcing Steel: Specification 415
- 4. Fabrication:
 - A. Welding:
 - a. Specification Section 460–6.4 and b. AASHTO LRFD Specification for Structural Supports for Highway Signs, Luminaires, and Traffic Signals Section 14.4.4
 - B Poles
 - a. Round or 16-sided (Min.)
 - b. Taper pole diameter at 0.14 inches per foot

 - c. Pole shaft may be up to three sections (using telescopic field splices)
 - d. Circumferentially welded pole shafts and laminated pole shafts are not permitted
 - e. Fabricate Pole longitudinal seam welds (2 maximum) with 60 percent minimum penetration or fusion welds except as follows:
 - i. Use a complete joint penetration weld within 6 inches of the circumferential tube-to-plate connection and ii. Use complete joint penetration welds on the female end section of telescopic (i.e., slip type) field
 - splices for a minimum length of 42 inches.
 - C. Identification Tag: (Submit details for approval)
 - a. 2"x 4" (Max.) aluminum tag
 - b. Locate on the inside of the pole and visible from the handhole
 - c. Secure with 1/8" diameter stainless steel rivets or screws.
 - d. Include the following information on the ID Tag:
 - 1. Financial Project ID
 - 2. Pole Type
 - 3. Pole Height
 - 4. Manufacturers' Name 5. Yield Strength (Fy of Steel) 6. Base Wall Thickness
 - D. Except for Anchor Bolts, bolt hole diameters are bolt diameter plus 1/16" and anchor bolts holes are bolt diameter plus ½ (Max) prior to galvanizing. E. Hot Dip Galvanize after fabrication
- 5. Coating:
 - A. Galvanize Anchor Bolts, Nuts and Washers: ASTM F2329 B. Hot Dip Galvanize all other steel items including plate washers: ASTM A123
- - A. Foundation: Specification 455 Drilled Shaft, except that payment is included in the cost of the Structure. B. After Installation: Place wire screen between top of foundation and bottom of baseplate in accordance with Specification 649-6.
- 7. Wind Speed by County:

Alachua, Baker, Bradford, Calhoun, Clay, Columbia, Dixie, Duval, Gadsden, Gilchrist, Hamilton, Jackson, Jefferson, Lafayette, Leon, Liberty, Nassau, Madison, Putnam, Suwannee, Taylor, Union and Wakulla Counties.

Bay, Citrus, De Soto, Flagler, Franklin, Glades, Gulf, Hardee, Hendry, Hernando, Highlands, Hillsborough, Holmes, Lake, Levy, Manatee, Marion, Okaloosa, Okeechobee, Orange, Osceola, Pasco, Pinellas, Polk, Santa Rosa, Seminole, St. Johns, Sumter, Volusia, Walton and Washington Counties.

Brevard, Broward, Charlotte, Collier, Escambia, Indian River, Lee, Martin, Miami-Dade, Monroe, Palm Beach, Sarasota and St. Lucie Counties.

STANDARD POLE DESIGN NOTES

LAST REVISION 11/01/23

DESCRIPTION:

FDOT

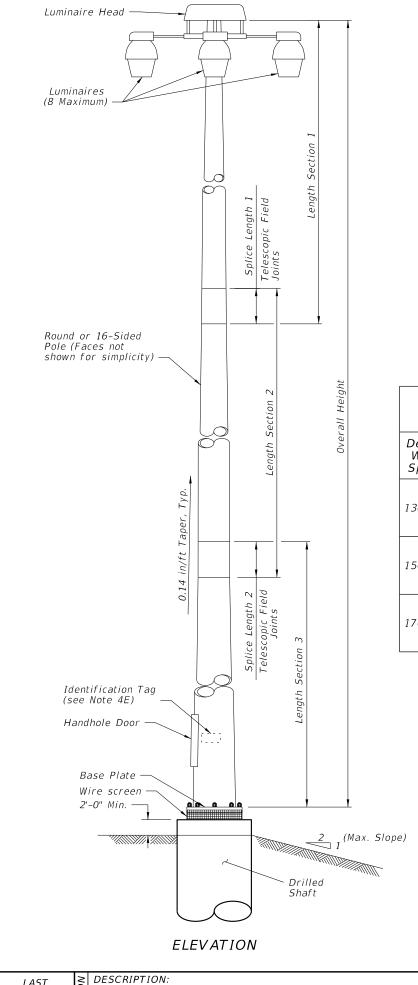


TABLE 1 POLE DESIGN TABLE*

	SECTION 1 (TOP)		SECTION 2 SECTION 3					3				
Design Wind Speed	Pole Overall Height (ft)	Length	Wall Thickness (in.)	Minimum Splice Length 1	Base Dia. (in.)	Length	Wall Thickness (in.)	Minimum Splice Length 2	Base Dia. (in.)	Length	Wall Thickness (in.)	Base Dia. (in.)
	80	41'-0"	0.250	2'-0"	11	42'-0"	0.250		16		_	_
130 mph	100	23'-0"	0.179	2'-0"	10	41'-0"	0.250	2'-6"	15	43'-0"	0.250	20
	120	41'-0"	0.250	2'-0"	12	43'-0"	0.250	2'-9"	17	43'-0"	0.313	22
	80	41'-0"	0.250	2'-0"	11	42'-0"	0.313		16			
150 mph	100	23'-0"	0.179	2'-0"	10	41'-0"	0.250	2'-6"	15	43'-0"	0.313	20
	120	41'-0"	0.250	2'-6"	16	43'-0"	0.250	3'-0"	21	44'-0"	0.375	26
	80	40'-0"	0.250	2'-3"	13	43'-0"	0.313		18			_
170 mph	100	23'-0"	0.250	2'-0"	11	42'-0"	0.313	2'-6"	16	44'-0"	0.375	21
	120	41'-0"	0.250	3'-0"	18	44'-0"	0.313	3'-6"	23	45'-0"	0.375	28

^{*} Diameter Measured Flat to Flat

TABLE 2 BASE PLATE AND BOLTS DESIGN TABLE

	DASE TEATE AND BOLTS DESTON TABLE						
Design Wind Speed	Pole Overall Height (ft)	Base Plate Diameter (in.)	Base Plate Thickness (in.)	Bolt Circle (in.)	No. Bolts	Bolt Diameter (in.)	Bolt Embedment (in.)
	80	30.0	3.000	23.0	8	1.75	38
130 mph	100	34.0	3.000	27.0	8	1.75	42
	120	38.0	3.875	30.0	8	2.00	48
	80	30.0	3.000	23.0	8	1.75	43
150 mph	100	36.0	3.875	28.0	8	2.00	47
	120	44.0	3.875	35.0	8	2.25	52
	80	32.0	3.000	25.0	8	1.75	47
170 mph	100	37.0	3.000	29.0	8	2.00	54
	120	46.0	3.875	37.0	10	2.25	58

	SHAFT DESIGN TABLE						
Design Wind Speed	Pole Overall Height (ft)	Shaft Diameter	Shaft Length	Longitudinal Reinforcement			
	80	4'-0"	13'-0"	14-#11			
130 mph	100	4'-6"	14'-0"	16-#11			
	120	4'-6"	16'-0"	16-#11			
	80	4'-0"	14'-0"	14-#11			
150 mph	100	4'-6"	16'-0"	16-#11			
	120	5'-0"	18'-0"	18-#11			
	80	4'-6"	15'-0"	16-#11			

4'-6"

5'-0"

17'-0"

20'-0"

16-#11

18-#11

TABLE 3

170 mph

100

120

Shaft Design Table Shaft Length is based on level ground (flatter than 1:5). Increase the shaft depth in accordance with the Additional Shaft Depth Due to Ground Slope table for foundations with slopes 1:5 and steeper. Use the higher value for slope or diameter values that fall between those shown on the table.

TABLE 4				
ADDITIONAL SHAFT DEPTH DUE TO GROUND SLOPE				
Ground Slope	4'-0" Shaft Diameter	5'-0" Shaft Diameter		
1:5	3'-0"	4'-0"		
1:4	4'-0"	5'-0"		
1:3	5'-0"	6'-0"		
1:2	7'-0"	9'-0"		
1:2	7'-0"	9'-0''		

POLE DESIGN TABLES

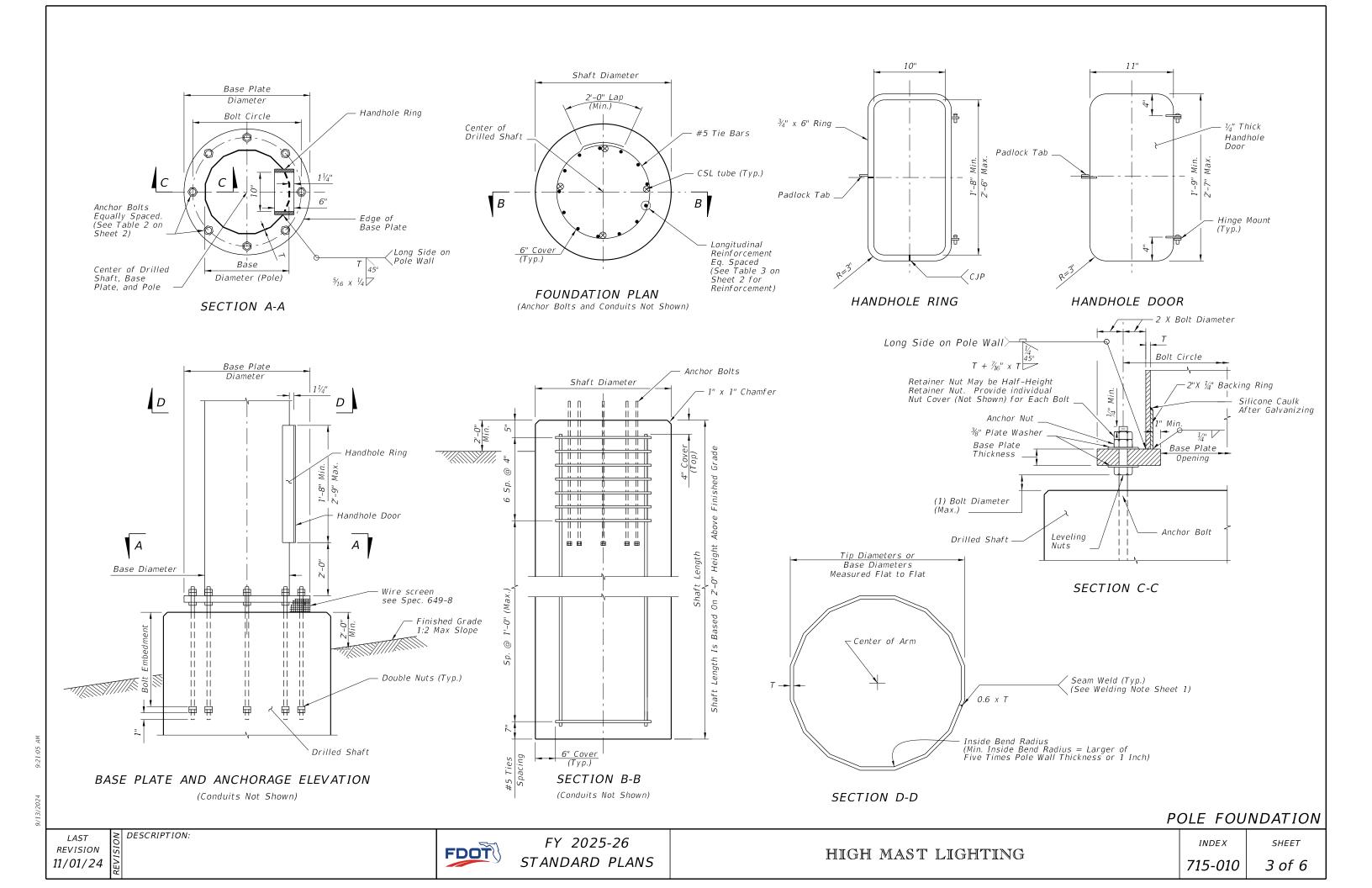
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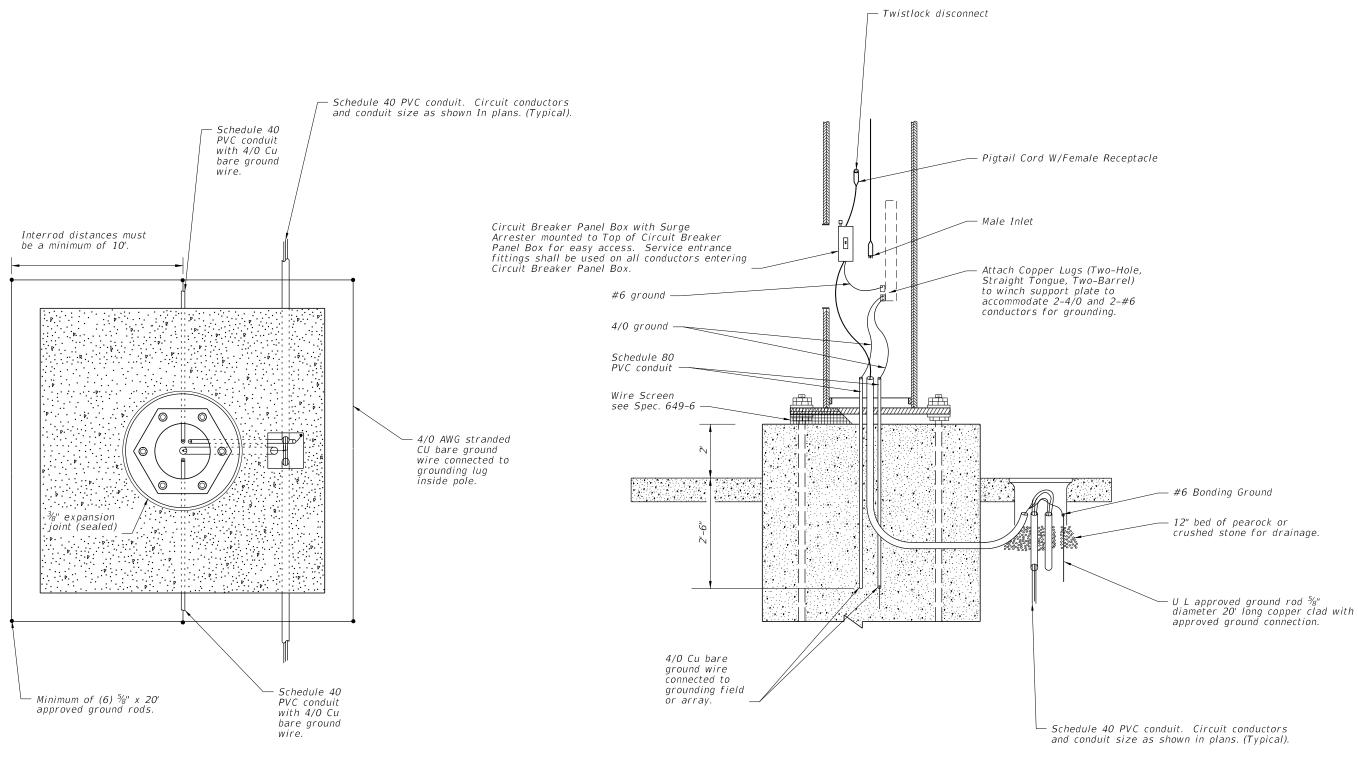
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FY 2025-26 STANDARD PLANS

HIGH MAST LIGHTING

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- 1. At all pull boxes and pole bases, ends of conduit shall be sealed in accordance with Specification 630.
- 2. Slabs to be placed around all Poles and Pull Boxes.
- 3. For Pull Boxes between Poles refer to Index 715-001.

WIRING DETAILS

LAST REVISION 11/01/17

DESCRIPTION:

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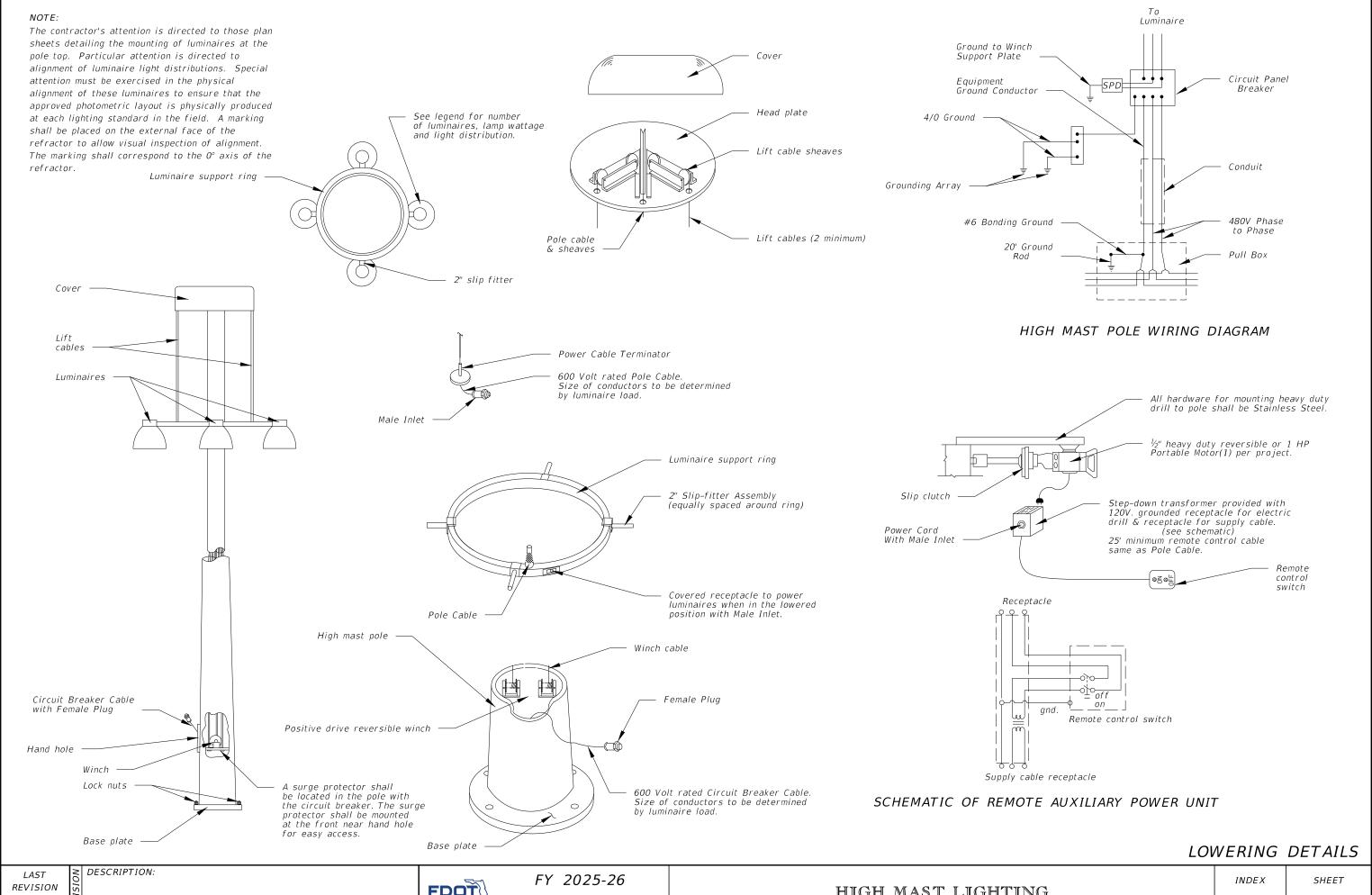
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HIGH MAST LIGHTING

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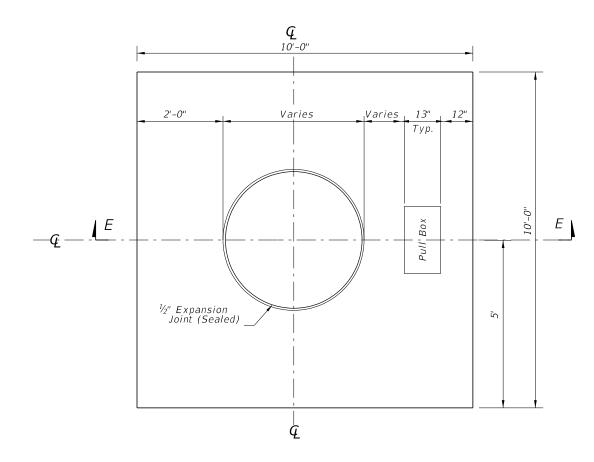
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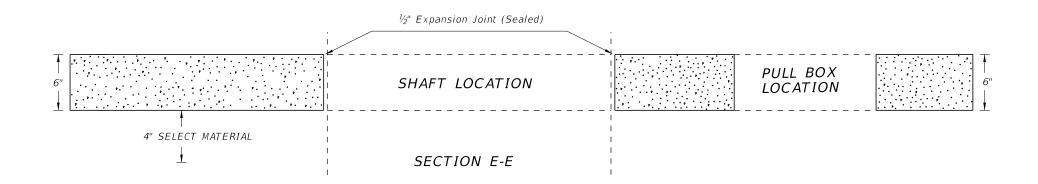


11/01/17

- 1. Use compacted select material in accordance with Index 120-001.
- 2. Concrete shall be Class NS with a minimum strength at 28 days of f'c=2.5 ksi.
- 3. Outside edge of slab shall be cast against formwork.
- 4. The pull box shown is 13" x 24"; others approved under Specification 635 may be used.
- 5. Slabs to be placed around all Poles and Pull Boxes. In urban areas or where space is limited slab dimensions may be adjusted as shown in the plans.
- 6. Concrete for slabs around poles and pull boxes shall be included in the price of pole or pull box.
- 7. The expansion joint shall consist of $\frac{1}{2}$ " of closed-cell polyethylene foam expansion material. The top $\frac{1}{2}$ " of expansion material shall be removed after pouring the slab and sealed with an APL approved Type A sealant meeting the requirements of Specification 932.



SLAB DIMENSIONS



REVISION 11/01/17

DESCRIPTION:

FDOT

FY 2025-26 STANDARD PLANS SLAB DETAILS

CROSSING SURFACES				
Type	Definition			
С	Concrete			
R	Rubber			
RA	Rubber/Asphalt			
TA	Timber/Asphalt			

STOP ZONE FOR	RUBBER CROSSING
Design Speed (mph)	Zone Length (Distance From Stop)
45 Or Less	250'
50 - 55	350'
60 - 65	500'
70	600'

Notes:

- 1. Type R Crossings are NOT to be used for multiple track crossings within zones for an existing or scheduled future vehicular stop. Zone lengths are charted above.
- 2. Single track Type R Crossings within the zones on the chart may be used unless engineering or safety considerations dictate otherwise.

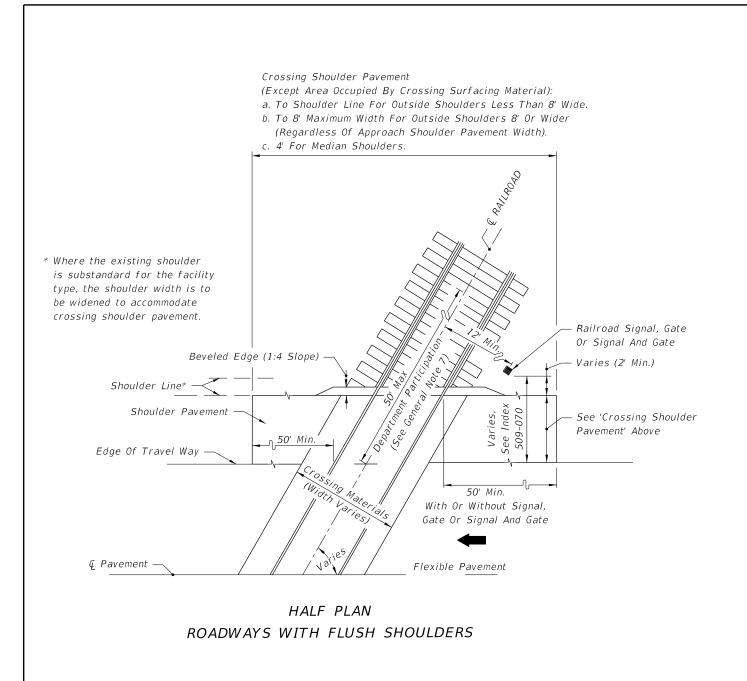
GENERAL NOTES:

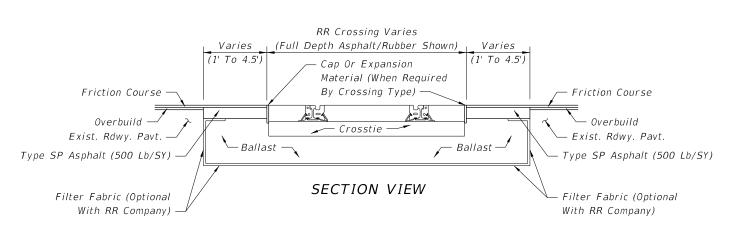
- 1. The Railroad Company will furnish and install all track bed (ballast), crossties, rails, crossing surface panels and accessory components. All pavement material, including that through the crossing, will be furnished and installed by the Department or its Contractor, unless negotiated otherwise.
- 2. When a railroad grade crossing is located within the limits of a highway construction project, a transition pavement will be maintained at the approaches of the crossing to reduce vehicular impacts to the crossing. The transition pavement will be maintained as appropriate to protect the crossing from low clearance vehicles and vehicular impacts until the construction project is completed and the final highway surface is constructed.
- 3. The Central Rail Office will maintain a list of currently used Railroad Crossing Products and will periodically distribute the current list to the District Offices as the list is updated.
- 4. The Railroad Company shall submit engineering drawings for the proposed crossing surface type to the Construction Project Engineer and/or the District Rail Office for concurrence along with the List of Railroad Crossing Products. The approved engineering drawings of the crossing surface type shall be made a part of the installation agreement.
- 5. Sidewalks shall be constructed through the crossing between approach sidewalks of the crossing. Sidewalks shall be constructed with appropriate material to allow unobstructed travel through the crossing in accordance with ADA requirements.
- 6. Install pavement in accordance with the Specifications.
- 7. The Department will participate in crossing work, that requires adjustments to rail outside of the crossing, no more than 50 feet from the edge of the travel way.

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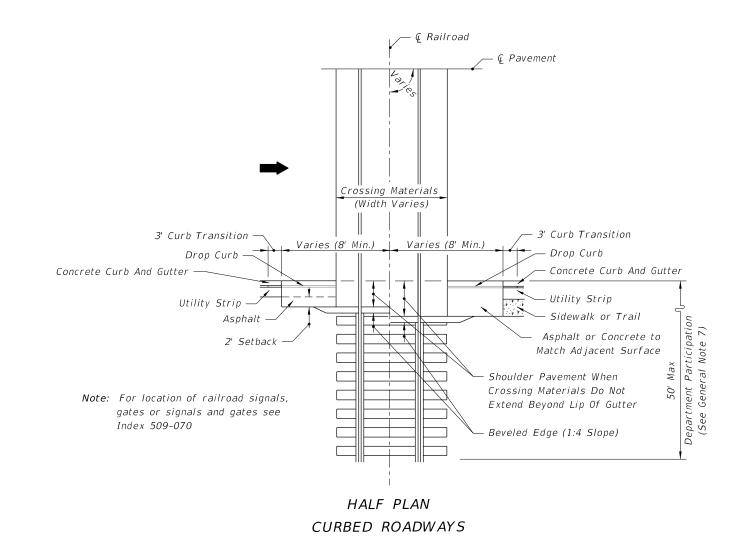


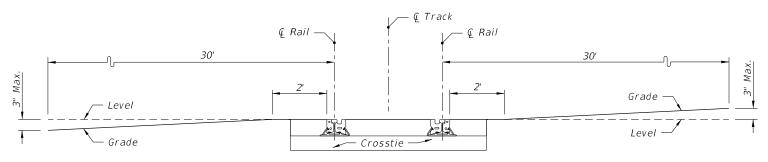
1 of 2





TYPICAL CROSSING MATERIAL REPLACEMENT AT RR CROSSINGS





To prevent low-clearance vehicles from becoming caught on the tracks, the crossing surface should be at the same plane as the top of the rails for a distance of 2 feet outside the rails. The surface of the highway should also not be more than 3 inches higher or lower than the top of the nearest rail at a point 30 feet from the rail unless track superelevation makes a different level appropriate. Vertical curves should be used to traverse from the highway grade to a level plane at the elevation of the rails. Rails that are superelevated, or a roadway approach section that is not level, will necessitate a site specific analysis for rail clearances.

VERTICAL ROADWAY ALIGNMENT THROUGH A RAILROAD CROSSING

REVISION 11/01/19

DESCRIPTION:

FDOT

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