

General/Standards

1. Place signing, pavement markings and traffic control devices in accordance with the Manual on Uniform Traffic Control Devices, the plans, FDOT Design Standards, FDOT Plans Preparation Manual (PPM), FHWA Standard Highway Signs, Turnpike Plans Preparation and Practices Handbook (TPPPH), and FDOT Traffic Engineering Manual.

Sign Placement and Installation

2. The Engineer will field verify all sign locations to ensure the sign is properly located and appropriate sign spacing is achieved (i.e., offset from travel lanes, spacing from other signs is adequate, no utility conflicts). The Field Engineer or CEI may make minor adjustments if the sign is not properly located, appropriate sign spacing is not met, or if utility conflicts are discovered. The Engineer of Record must be consulted on major adjustments. In all cases, roadway safety must be increased, not diminished.
3. Notify Sunshine State ONE CALL at 1-800-432-4770 and/or the appropriate utility owners in concurrence with Florida Statute 556.
4. Hand dig or vacuum excavate the first four feet of sign foundations.
5. Any work necessary in the shoulder area to construct signs, such as grading, sodding, clearing, and grubbing, is considered incidental to sign installation and is to be included in the cost of the sign assembly.
6. All existing signs shall be shown on the plans. Label "existing to remain" for those that are to remain in place. All existing signs are to remain visible until such time as the proposed sign installation is completed.
7. Remove or cut vegetation as needed to provide adequate sight distance for all overhead and ground mounted signs. Vegetation removal and trimming is included in the unit price of the sign assembly. Do not alter vegetation without prior approval from the Engineer.

Sign Panels /Faces

8. Use countersunk screws when using mechanical fasteners to attach sign panels to windbeams, brackets and splice plates for single and multi-post signs.
9. Patch attachment hardware, such as countersunk screws or rivet heads, with retroreflective buttons that match the color and sheeting material of the finished sign panel including the background, legend or border.
10. Ensure the outside corner of sign is concentric with border. Ensure white borders are designed and fabricated to be parallel to the edge of the sign. Ensure black borders are recessed from the edge of the sign.
11. Download the SunPass logo in Microstation format for use in sign fabrication from the Florida's Turnpike Traffic Design website: <http://design.floridasturnpike.com/> or obtain the logo by contacting the Turnpike Traffic Design Engineer at (407) 264-3418. The logo shall not be fabricated by hand cut-out method.

Overlays

12. When using an aluminum sheet overlay, ensure the overlay is a minimum of 0.04 inches thick. Determine the sheeting material of the existing sign and ensure the overlay sheeting type matches the existing sign.
13. When using an adhesive overlay, ensure the overlay is a removable opaque film that adheres to the sign. Ensure the sign face is clean and in good condition. Ensure the removal of the adhesive film does not damage the sign. The use of adhesive overlays is limited to 6 months or less. Use 3M Controltac Plus Changeable Graphic Film or equivalent.
14. Where panel overlays are specified, determine and match existing corner radii. Remove all existing overlays prior to proposed overlay installation. The cost is considered incidental and is to be included in the pay item for proposed overlay.
15. For partial panel overlays, ensure all existing copy to be overlaid is completely covered. Ensure the overlay does not cover any portion of the existing copy or border which is to remain visible.
16. Exercise caution while relocating or overlaying existing signs to prevent damage to signs. Verify and match existing letter sizes and fonts for signs that require overlays prior to fabrication of new panel.

Overhead Signs

17. Align the far edge of the sign panel, furthest from the upright, flush with the end of the horizontal chord of the cantilever structure.

Sign Panel Replacement

18. As part of sign panel replacements, include new vertical hanger beams, new horizontal wind beams, new bolts, new screws, new nuts, new washers, and all necessary hardware for a complete connection between the new sign panel and the existing sign structure.

Sign Luminares

19. Energize sign luminaires within 24 hours of overhead lighted sign installation.
20. "Night Aim" the sign luminaires to ensure proper illumination of the sign surface. The luminaires must be at an angle sufficient to prevent them from shining into the faces of drivers who are traveling in the opposite direction.
21. Ensure sign luminaires are similar or equal to Infinity, or other UL listed wet proof induction sign luminaire capable of accepting 120 to 480 volts without an external transformer. Clearly note the luminaire tilt angle for each sign and ensure the same for all luminaires on each specific sign. Place the angle convention detail on submittals to clearly depict tilt orientation. Use the following values for each area classification: 5-10 foot-candles (low); 10-20 foot-candles (medium); 20-40 foot-candles (high). Ensure the maximum/minimum uniformity value does not exceed 6:1 ratio. These values are average initial, use a maintenance factor of 1.00 in the calculations process.
22. Install the luminaires as per the spacing produced in the scaled photometric documentation and sign data instruction obtained from the contract documents. Should any deviations take place from these documents, provide photometric calculations to scale complying with the above parameters and submit documentation to the Engineer of Record prior to proceeding.

23. Top mounted luminaires are prohibited on the mainline or ramps.

Pavement Marking and Reflective Pavement Markers

24. Ensure that proposed pavement markings at all existing or proposed interface locations match the existing pavement markings in terms of alignment. Any conflicting pavement markings shall be removed.
25. Work that includes extending or refurbishing of existing striping damaged during construction is included in the unit price of the pavement marking.
26. Pavement markings may be adjusted slightly as directed by the Engineer.
27. Lay out permanent final striping that leaves no visible marks at time of final acceptance.
28. Place a green RPM 4" outside of ground in rumble strip at each whole mile marker.
29. When removing pavement messages via water blasting, the entire area within the pavement message, including the interior of the message that is not painted or have thermoplastic, shall be water blasted so that the message outline is completely obliterated and drivers are not able to read or see the scar outlining the former message.

Service Plaza Logo Signs

30. At or in advance of Turnpike Service Plazas, the blue specific service signs with gas, food, or other logo panels attached are owned and maintained by Florida's Turnpike Enterprise. At least 30 calender days prior to any conflicts between anticipated construction work and the Turnpike Service Plaza signs should be coordinated with Concessions Management by calling 407-264-3184.

General Service Florida Logo Contract Signs

31. At or in advance of interchanges, the blue specific service signs with gas, food, or lodging panels attached are owned by Florida's Turnpike Enterprise. The logo panels are the property of Florida Logos, Inc. and shall be removed from the main panels and returned to Flodida logos, Inc. Florida Logos shall be notified when the blue general sign is removed or replaced by telephone at 1-888-608-0833.

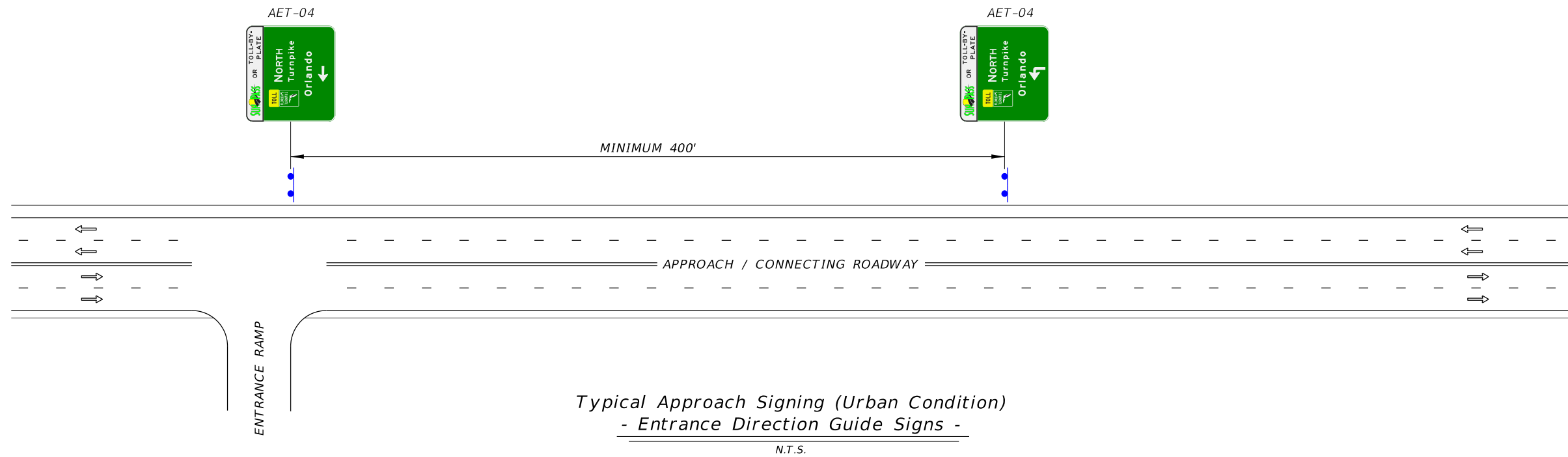
Sponsor a Highway

32. All work associated with removing, storing, or relocating the Sponsor a Highway signs is the responsibility of Travelers Marketing. At least 30 calender days prior to any conflicts between anticipated construction work and the Sponsor a Highway signs, coordinate with Travelers Marketing by telephone at (781) 416-5000 or (407) 456-1917.

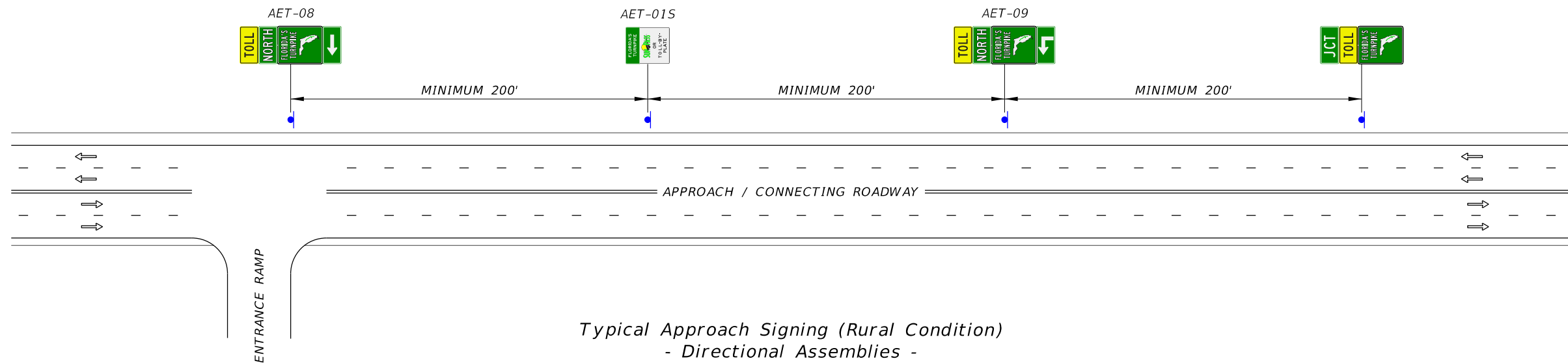
5/25/2017

R E V I S I O N S							STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			GENERAL NOTES	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
											101-1



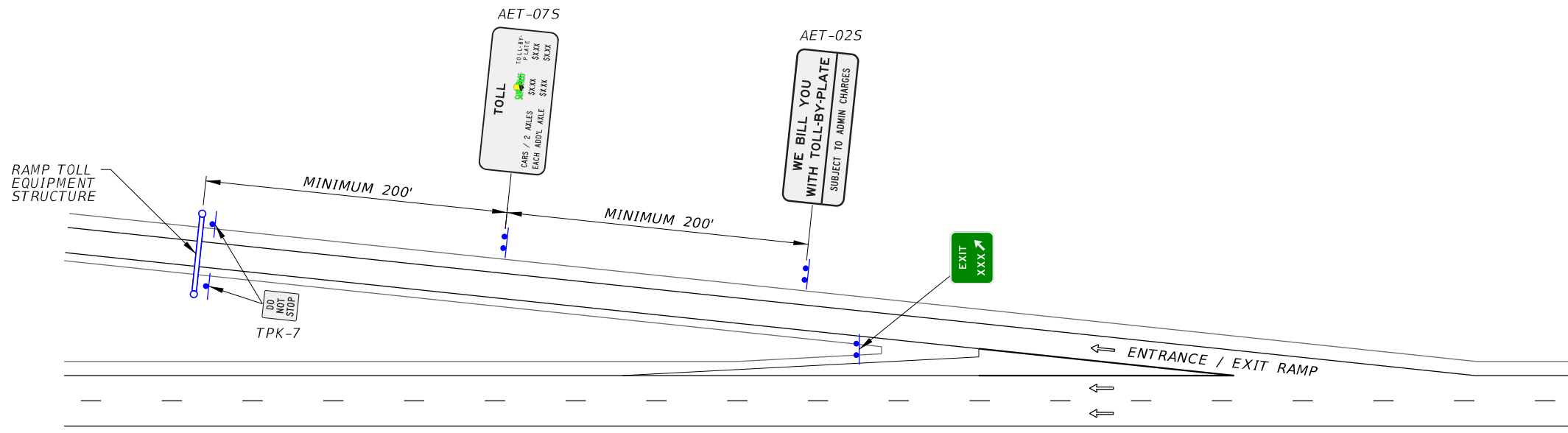


Typical Approach Signing (Urban Condition)  
- Entrance Direction Guide Signs -  
N.T.S.



Typical Approach Signing (Rural Condition)  
- Directional Assemblies -  
N.T.S.

- NOTES:
- 1. MINIMUM SPACING DISTANCES FOR SIGNS TO CONFORM TO THE TRAFFIC ENGINEERING MANUAL, AND F.A.C. RULE CHAPTER 14-51, TABLE 1.
  - 2. LEGENDS/MESSAGES SHOWN ON SIGNS AET-04 ARE PROVIDED AS AN EXAMPLE ONLY. ACTUAL DESIGNS SHALL BE SHOWN IN THE PLANS.



Typical Entrance / Exit Ramp Signing  
With Toll Equipment Structure  
N.T.S.

NOTES:

- 1. MINIMUM SPACING DISTANCES FOR SIGNS SHALL CONFORM TO THE TRAFFIC ENGINEERING MANUAL AND F.A.C. RULE CHAPTER 14-51, TABLE 1.
- 2. TWO TPK-7 (DO NOT STOP) SIGNS ARE REQUIRED PER DIRECTION OF TRAVEL.
- 3. PLACEMENT OF AET-07S AND AET-02S SIGNS MAY BE BEFORE OR AFTER THE GANTRY, IF FIELD CONSTRAINTS WARRANT IT.

\$DATE\$	REVISIONS						STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ALL ELECTRONIC TOLLING ENTRANCE/EXIT RAMP TYPICAL SIGNING LAYOUT		SHEET NO.
	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION						102-2
							ROAD NO.	COUNTY	FINANCIAL PROJECT ID			

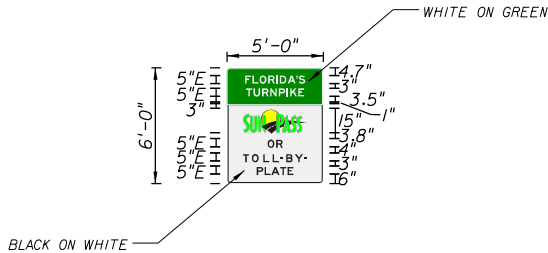




N.T.S.

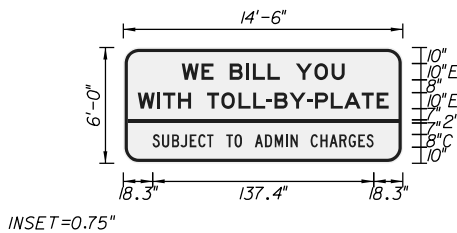
1. MINIMUM SPACING DISTANCES FOR SIGNS SHALL CONFORM TO THE TRAFFIC ENGINEERING MANUAL AND F.A.C. RULE CHAPTER 14-51, TABLE 1.
2. TWO TPK-7 (DO NOT STOP) SIGNS ARE REQUIRED PER DIRECTION OF TRAVEL.
3. PLACEMENT OF AET-07S AND AET-02S SIGNS MAY BE BEFORE OR AFTER THE GANTRY, IF FIELD CONSTRAINTS WARRANT IT.

REVISIONS							STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ALL ELECTRONIC TOLLING MAINLINE TOLL TYPICAL SIGNING LAYOUT	SHEET NO.
	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION					ROAD NO.

[illegible]

## SIDE STREET APPLICATIONS

NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE
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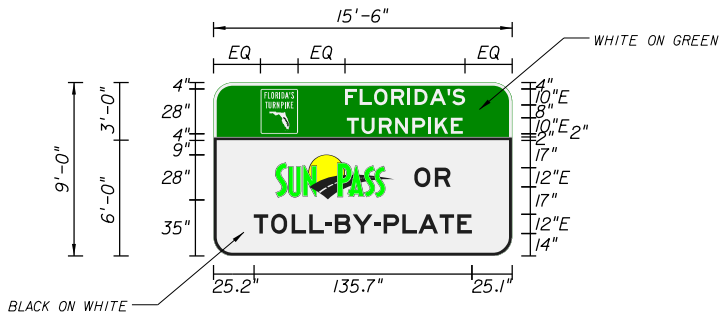
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## RAMP APPLICATIONS

NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE
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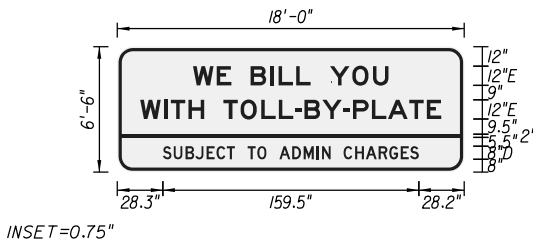
[illegible]

SYMBOL NAME		AET-OIL		QTY	1	SIGN NUMBER	STATION(S)	
PANEL			BORDER					
WIDTH	15'-6"	WIDTH	2"					
HEIGHT	9'-0"	RADIUS	12"					
LEGEND	Black	COLOR	Black					
COLOR	White							
SYMBOL(S)		ANGLE	X	Y	WID	HT		
TP_MD		0	29.3	76	23.3	28		
SP_LOGO		0	38.4	35	74.7	28		
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane		COLUMN SIZE		AVERAGE LENGTH		



## MAINLINE APPLICATIONS

NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE
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[illegible][illegible]

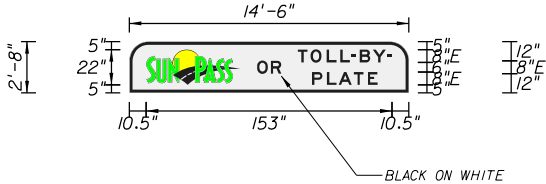
## MAINLINE APPLICATIONS

NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE
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[illegible]

R E V I S I O N S							STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ALL ELECTRONIC TOLLING TOLL-BY-PLATE SIGN PANELS	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
											103-1

SIGN NAME		AET-04 (Top Panel)		SIGN NUMBER	STATION(S)	
PANEL		BORDER		none		
WIDTH	14'-6"	WIDTH	2"			
HEIGHT	2'-8"	RADII	12"			
LEGEND	Black	COLOR	Black			
COLOR	White					
SYMBOL(S)		ANGLE	X	Y	WID	HT
SP_LOGO		0	10.5	5	58.7	22
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane		COLUMN SIZE	AVERAGE LENGTH	



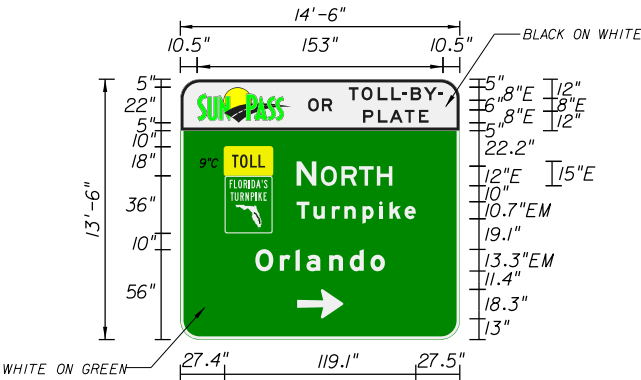
NOTES:

1. FOR WIDER WIDTHS, LEFT & RIGHT MARGIN SHOULD MATCH INTERWORD SPACING.
2. SIDE STREET APPLICATIONS.

NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE
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COPY		T	O	L	L	-	B	Y	-	L									
SPACE	104.8	8	10	8.5	7	5.1	8.1	9.2	2.8	10.5	58.7								
COPY		O	R		L														
SPACE	79.5	8.6	6.5	79.4	15.1														
COPY		P	L	A	T	E		L											
SPACE	113.7	9.3	7.3	9.5	8.8	6	19.4	40.9											
COPY																			
SPACE																			
COPY																			
SPACE																			
COPY																			
SPACE																			

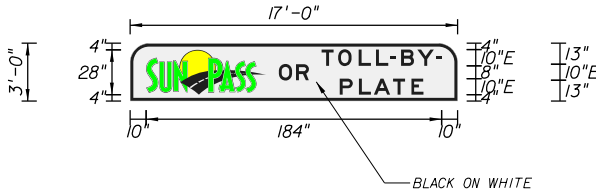
SIGN NAME		AET-04		QTY	I	SIGN NUMBER		STATION(S)	
PANEL			BORDER						
WIDTH	14'-6"		WIDTH	2"					
HEIGHT	13'-6"		RADII	12"					
LEGEND	White		COLOR	White					
COLOR	Green								
SYMBOL(S)		ANGLE	X	Y	WID	HT			
SP-LOGO		0	10.5	135	58.7	22			
M4-15_TPK		0	27.4	102	30	18			
TP_SM		0	27.4	66	30	36			
ARMED		0	72.6	13.1	18.3	28.7			
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane		COLUMN SIZE			AVERAGE LENGTH		



NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE
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COPY		T	O	L	L	-	B	Y	-	L									
SPACE	104.8	8	10	8.5	7	5.1	8.1	9.2	2.8	10.5	58.7								
COPY		O	R		L														
SPACE	79.5	8.6	6.5	79.4	15.1														
COPY		P	L	A	T	E		L											
SPACE	113.7	9.3	7.3	9.5	8.8	6	19.4	40.9											
COPY		N		O	R	T	H		L										
SPACE	72.4	12.2	2.8	12.8	11	11	9.7	42.1	59.5										
COPY		T	u	r	n	p	I	k	e		L								
SPACE	72.4	10.5	11.3	7.9	11.3	10.3	6.4	9.4	7	27.5	74.1								
COPY		O	r	I	a	n	d	o		L									
SPACE	46.7	15.2	9.8	6.8	14.1	12.9	12.9	9	46.6	80.7									

SIGN NAME		AET-06 (Top Panel)		SIGN NUMBER	STATION(S)	
PANEL		BORDER		none		
WIDTH 17'-0"		WIDTH 2"				
HEIGHT 3'-0"		RADII 12"				
LEGEND Black		COLOR Black				
COLOR White						
SYMBOL(S)		ANGLE	X	Y	WID	HT
SP-LOGO		0	10	4	74.7	28



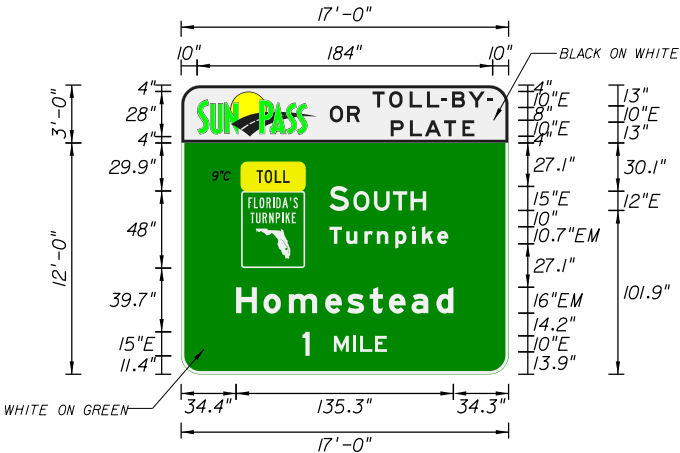
NOTES:

1. FOR WIDER WIDTHS, LEFT & RIGHT MARGIN SHOULD MATCH INTERWORD SPACING.
2. MAINLINE APPLICATIONS.
3. THE SPACE BETWEEN THE SUNPASS LOGO, THE WORD "OR" AND "TOLL-BY-PLATE" SHOULD NOT BE GREATER THAN 24".

NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE
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COPY		T	O	L	L	-	B	Y	-	L									
SPACE	119.3	10.2	12.9	10.8	8.9	6.6	10.2	11.6	3.5	10	74.7								
COPY		O	R		L														
SPACE	92.6	10.7	8.1	92.6	18.8														
COPY		P	L	A	T	E		L											
SPACE	130.6	11.9	9.3	12	11.3	7.5	21.4	52											
COPY																			
SPACE																			
COPY																			
SPACE																			
COPY																			
SPACE																			

SIGN NAME		AET-06	QTY	I	SIGN NUMBER	STATION(S)	
PANEL		BORDER					
WIDTH		17'-0"		WIDTH		2"	
HEIGHT		15'-0"		RADII		12"	
LEGEND		White		COLOR		White	
COLOR		Green					
SYMBOL(S)		ANGLE	X	Y	WID	HT	
SP-LOGO		0	10	148	74.7	28	
TP_MD		0	37	66.1	40	48	
M4-15_TPK		0	37	114.1	40	18	
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE			AVERAGE LENGTH	



NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE
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COPY		T	O	L	L	-	B	Y	-	L									
SPACE	119.3	10.2	12.9	10.8	8.9	6.6	10.2	11.6	3.5	10	74.7								
COPY		O	R		L														
SPACE	92.6	10.7	8.1	92.6	18.8														
COPY		P	L	A	T	E		L											
SPACE	130.6	11.9	9.3	12	11.3	7.5	21.4	52											
COPY		S		O	U	T	H		L										
SPACE	92	12.1	2.8	12.8	11.8	11	9.7	51.8	60.2										
COPY		T	u	r	n	p	I	k	e		L								
SPACE	92	10.5	11.3	7.9	11.3	10.3	6.4	9.4	7	37.9	74.1								
COPY		H	o	m	e	s	t	e	a	d		L							
SPACE	34.4	17	15.8	22.6	13.8	13.9	12	14.1	15.5	10.6	34.3	135.3							

REVISIONS

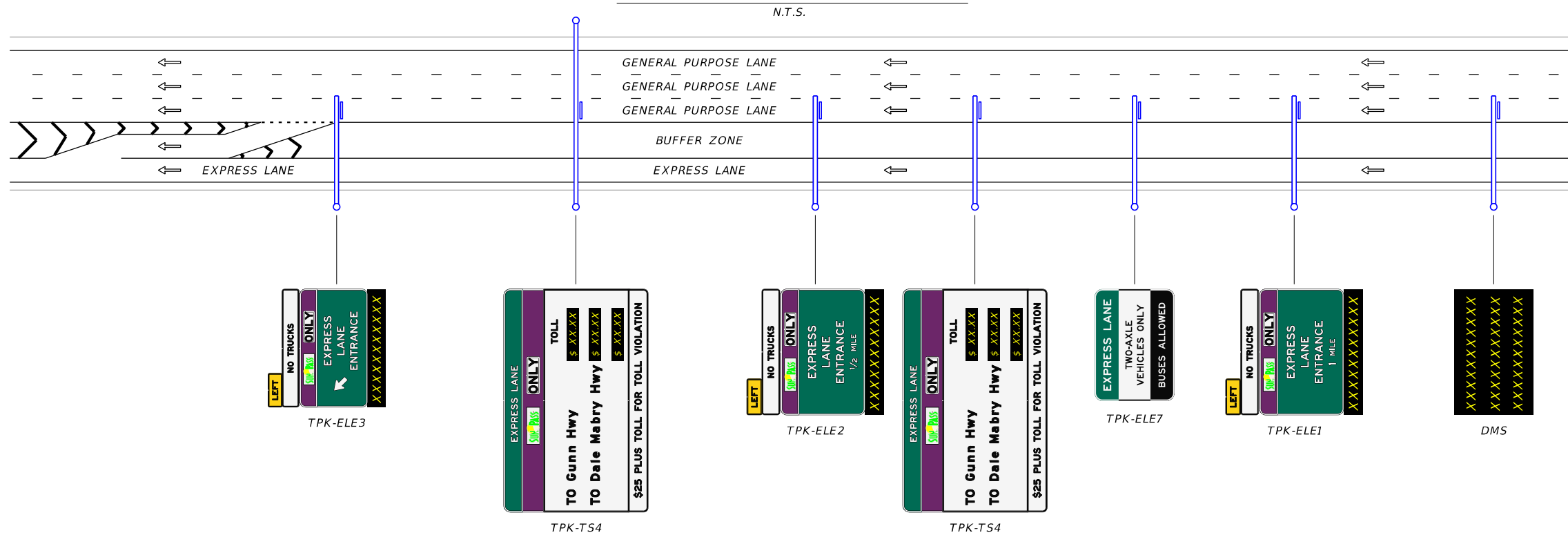
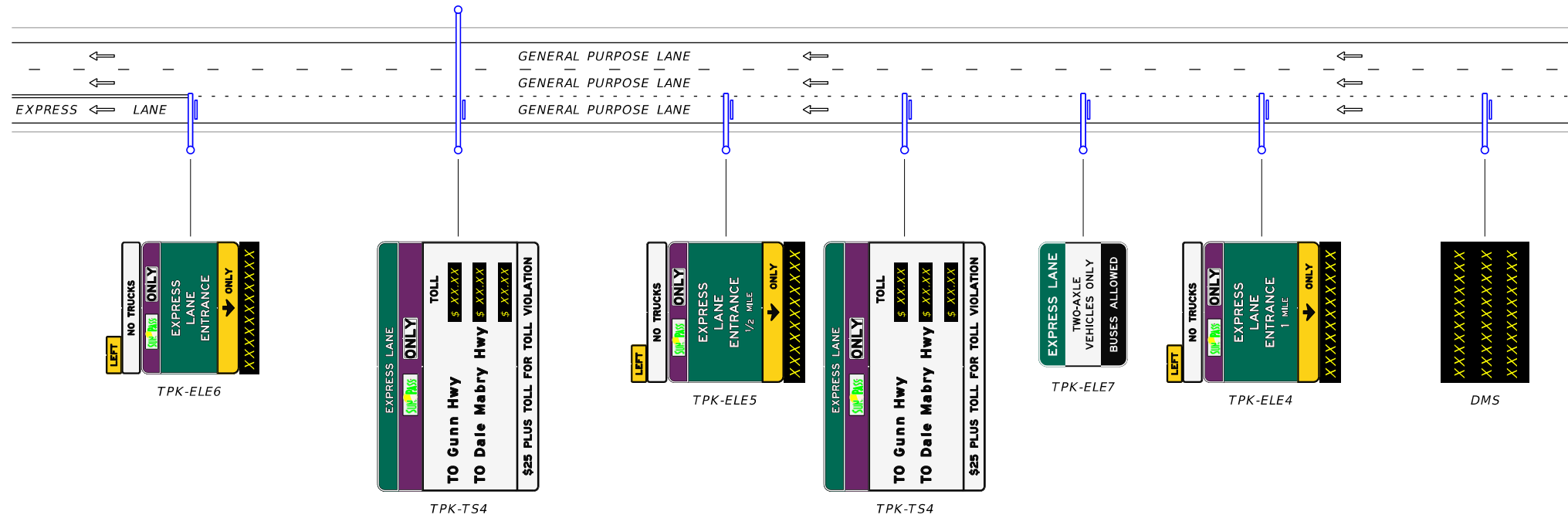
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ALL ELECTRONIC TOLLING TOLL-BY-PLATE SIGN PANELS	SHEET NO.  103-2
ROAD NO.	COUNTY	FINANCIAL PROJECT ID		



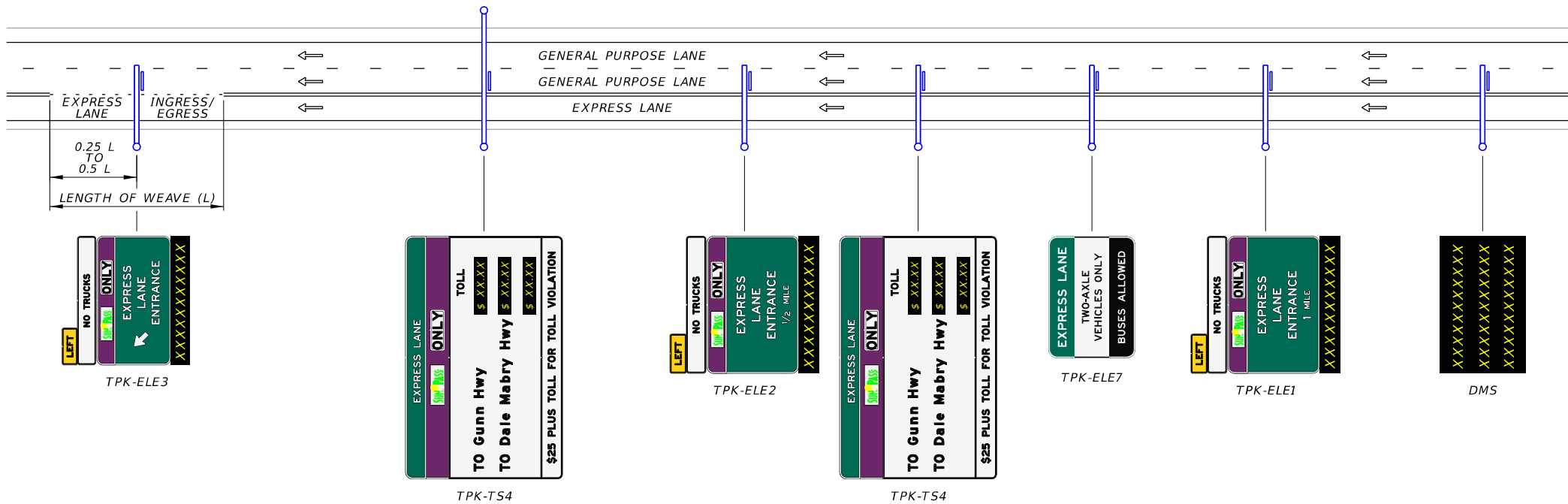






- NOTES:
1. SPACING BETWEEN SIGNS MAY VARY.
  2. MINIMUM SPACING SHALL BE 800 FEET.
  3. SEE SHEET 106-1 AND 106-2 FOR INGRESS/EGRESS DETAIL.
  4. SEE SHEET 107-1 FOR BUFFER ZONE DETAIL.

REVISIONS							STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			EXPRESS LANE ADVANCE  SIGNING LAYOUT		SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION							



Express Lane Advance Signing  
- Intermediate Ingress / Egress -  
N.T.S.

NOTES:

- 1. SPACING BETWEEN SIGNS MAY VARY.
- 2. MINIMUM SPACING SHALL BE 800 FEET.
- 3. SEE SHEET 106-1 AND 106-2 FOR INGRESS/EGRESS DETAIL.
- 4. SEE SHEET 107-1 FOR BUFFER ZONE DETAIL.

DATES	REVISIONS							STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			EXPRESS LANE ADVANCE  SIGNING LAYOUT	SHEET NO.
	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION						
								ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
												104-2

\$DATE\$





SIGN NAME	TPK-TS4	QTY	I	SIGN NUMBER	STATION(S)
PANEL	BORDER				none
WIDTH	33'-6"	WIDTH	2"		
HEIGHT	21'-6"	RADII	12"		
LEGEND	Black	COLOR	Black		
COLOR	White				
SYMBOL(S)	ANGLE	X	Y	WID	HT
SunPass	0	119.6	192	66.9	24
DMS	0	286	130.9	95	22.2
DMS	0	286	90.9	95	22.2
DMS	0	286	50.9	95	22.2
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE	AVERAGE LENGTH	

FOR USE ON TOLLED FACILITIES

NO. OF LIGHT FIXTURES      FIXTURE SPACING      PHOTOMETRIC CURVE      WATT      VOLTAGE

COPY		E	X	P	R	E	S	S		L	A	N	E		L			O	N	L	Y		L	
SPACE	132.4	10.7	12.8	11.8	12.1	10.7	11.4	9.7	12	10	14.3	12.8	9	132.4	137.3			214.5	17.1	17.1	13.3	16.3	123.7	63.8
COPY		T	O	L	L		L																	
SPACE	311.7	10.7	12.8	11	9	46.7	43.6																	
COPY		T	O		G	u	n	n		H	w	y		L										
SPACE	18	14.1	13.4	16	17.8	17	17	10.6	16	16.6	19.2	13.6	212.8	171.2										
COPY		T	O		D	a	I	e		M	a	b	r	y		H	w	y		L				
SPACE	18	14.1	13.4	16	16.3	17	8.2	10.6	16	18.9	17	15.5	10.1	13.6	16	16.6	19.2	13.6	132	252				
COPY		\$	2	5		P	L	U	S		T	O	L	L		F	O	R						
SPACE	25.8	11.8	11.4	9.7	12	11.8	11	12.1	9.7	12	10.7	12.8	11	9	12	10.7	12.8	9.7						
COPY			T	O	L	L		V	I	O	L	A	T	I	O	N		L						
SPACE		12	10.7	12.8	11	9	12	13.1	4.9	12.8	10	13.2	11	4.9	12.8	9.7	25.8	350.4						

SIGN NAME		QTY	I	SIGN NUMBER	STATION(S)
PANEL	BORDER				
WIDTH	WIDTH				
HEIGHT	RADII				
LEGEND	COLOR				
COLOR					
SYMBOL(S)	ANGLE	X	Y	WID	HT
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE	AVERAGE LENGTH	

NO. OF LIGHT FIXTURES      FIXTURE SPACING      PHOTOMETRIC CURVE      WATT      VOLTAGE

COPY																							
SPACE																							
COPY																							
SPACE																							
COPY																							
SPACE																							
COPY																							
SPACE																							
COPY																							
SPACE																							

SIGN NAME		QTY	I	SIGN NUMBER	STATION(S)
PANEL	BORDER				
WIDTH	WIDTH				
HEIGHT	RADII				
LEGEND	COLOR				
COLOR					
SYMBOL(S)	ANGLE	X	Y	WID	HT
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE	AVERAGE LENGTH	

NO. OF LIGHT FIXTURES      FIXTURE SPACING      PHOTOMETRIC CURVE      WATT      VOLTAGE

COPY																							
SPACE																							
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SPACE																							

SIGN NAME		QTY	I	SIGN NUMBER	STATION(S)
PANEL	BORDER				
WIDTH	WIDTH				
HEIGHT	RADII				
LEGEND	COLOR				
COLOR					
SYMBOL(S)	ANGLE	X	Y	WID	HT
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE	AVERAGE LENGTH	

NO. OF LIGHT FIXTURES      FIXTURE SPACING      PHOTOMETRIC CURVE      WATT      VOLTAGE

COPY																							
SPACE																							
COPY																							
SPACE																							
COPY																							
SPACE																							
COPY																							
SPACE																							
COPY																							
SPACE																							

SIGN NAME		QTY	I	SIGN NUMBER	STATION(S)
PANEL	BORDER				
WIDTH	WIDTH				
HEIGHT	RADII				
LEGEND	COLOR				
COLOR					
SYMBOL(S)	ANGLE	X	Y	WID	HT
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE	AVERAGE LENGTH	

NO. OF LIGHT FIXTURES      FIXTURE SPACING      PHOTOMETRIC CURVE      WATT      VOLTAGE

COPY																							
SPACE																							
COPY																							
SPACE																							
COPY																							
SPACE																							
COPY																							
SPACE																							
COPY																							
SPACE																							

SIGN NAME		QTY	I	SIGN NUMBER	STATION(S)
PANEL	BORDER				
WIDTH	WIDTH				
HEIGHT	RADII				
LEGEND	COLOR				
COLOR					
SYMBOL(S)	ANGLE	X	Y	WID	HT
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE	AVERAGE LENGTH	

NO. OF LIGHT FIXTURES      FIXTURE SPACING      PHOTOMETRIC CURVE      WATT      VOLTAGE

COPY																							
SPACE																							
COPY																							
SPACE																							
COPY																							
SPACE																							
COPY																							
SPACE																							
COPY																							
SPACE																							

SIGN NAME		QTY	I	SIGN NUMBER	STATION(S)
PANEL	BORDER				
WIDTH	WIDTH				
HEIGHT	RADII				
LEGEND	COLOR				
COLOR					
SYMBOL(S)	ANGLE	X	Y	WID	HT
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE	AVERAGE LENGTH	

NO. OF LIGHT FIXTURES      FIXTURE SPACING      PHOTOMETRIC CURVE      WATT      VOLTAGE

COPY																							
SPACE																							
COPY																							
SPACE																							
COPY																							
SPACE																							
COPY																							
SPACE																							
COPY																							
SPACE																							





[illegible]



- ① Per FDOT PPM, Table 2.8.1a, Maximum Deflections Without Horizontal Curves, 0° 45' or 76.39:1. (Use 80:1).
- ② 15:1 Taper Is To Be Used To Achieve 180' Or 210' Taper Lengths.
- ③ Taper Length Based On  $L=WS$ . 70:1 Taper As Shown Assumes 70 MPH Design Speed.
- ④ This Applies To 1 Lane Parallel And Tapered Ramps. For 2 Lane Ramps And Auxiliary Lanes Establish This Point 1,500' After/Before Ramp Gore.

- ⑤ Provide Paved Shoulder Width In Accordance With FTE TPPPH.
- ⑥ Tangent Length Between Lane Deflection.
- ⑦ Provide 1000' For Each Lane Change.
- ⑧ See Sheet 107-1 For Buffer Zone Detail.



<div> <div>REVISIONS</div> <table> <tr> <th>DATE</th> <th>BY</th> <th>DESCRIPTION</th> <th>DATE</th> <th>BY</th> <th>DESCRIPTION</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table> </div>						DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION							<div> <div>STATE OF FLORIDA</div> <div>DEPARTMENT OF TRANSPORTATION</div> <table> <tr> <th>ROAD NO.</th> <th>COUNTY</th> <th>FINANCIAL PROJECT ID</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table> </div>			ROAD NO.	COUNTY	FINANCIAL PROJECT ID				<div> <div>EXPRESS LANE</div> <div>INGRESS/EGRESS</div> <div>TYPICAL LAYOUT</div> </div>		<div>SHEET NO.</div> <div>106-1</div>
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION																								
ROAD NO.	COUNTY	FINANCIAL PROJECT ID																											

- Notes:
- ①

Per FDOT PPM, Table 2.8.1a, Maximum Deflections Without Horizontal Curves, 0° 45' or 76.39:1. (Use 80:1).

②

15:1 Taper Is To Be Used To Achieve 180' Or 210' Taper Lengths.

③

Taper Length Based On L=WS. 70:1 Taper As Shown Assumes 70 MPH Design Speed.

④

This Applies To 1 Lane Parallel And Tapered Ramps. For 2 Lane Ramps And Auxiliary Lanes Establish This Point 1,500' After/Before Ramp Gore.

⑤

Provide Paved Shoulder Width In Accordance With FTE TPPPH.

⑥

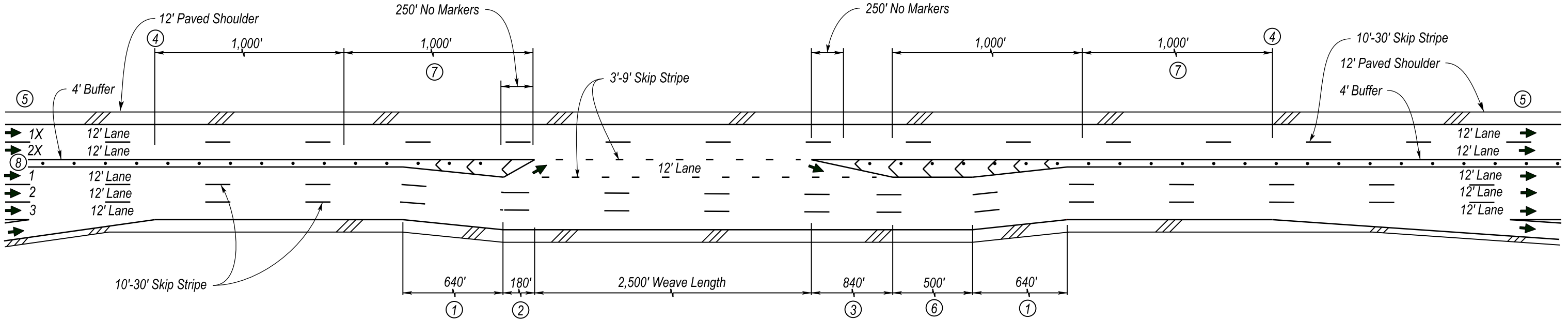
Tangent Length Between Lane Deflection.

⑦

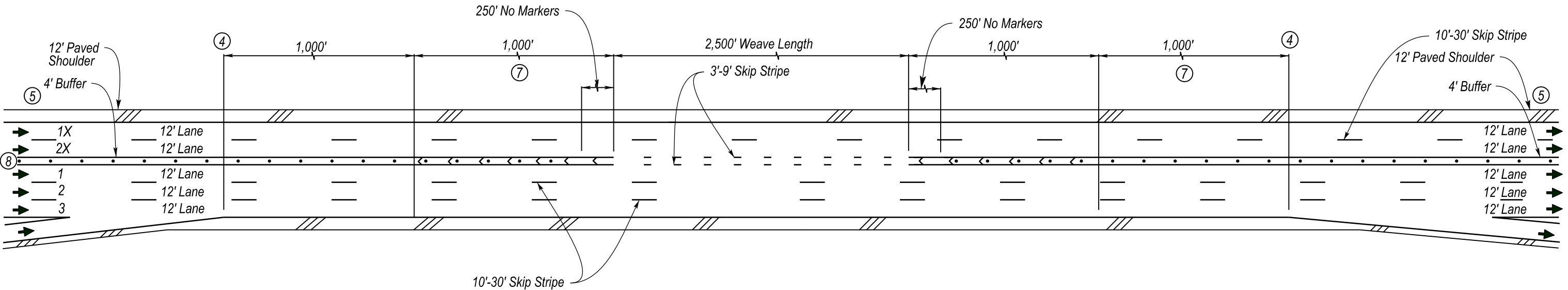
Provide 1000' For Each Lane Change.

⑧

See Sheet 107-1 For Buffer Zone Detail.



Weave Lane - Typical Combined Ingress/Egress

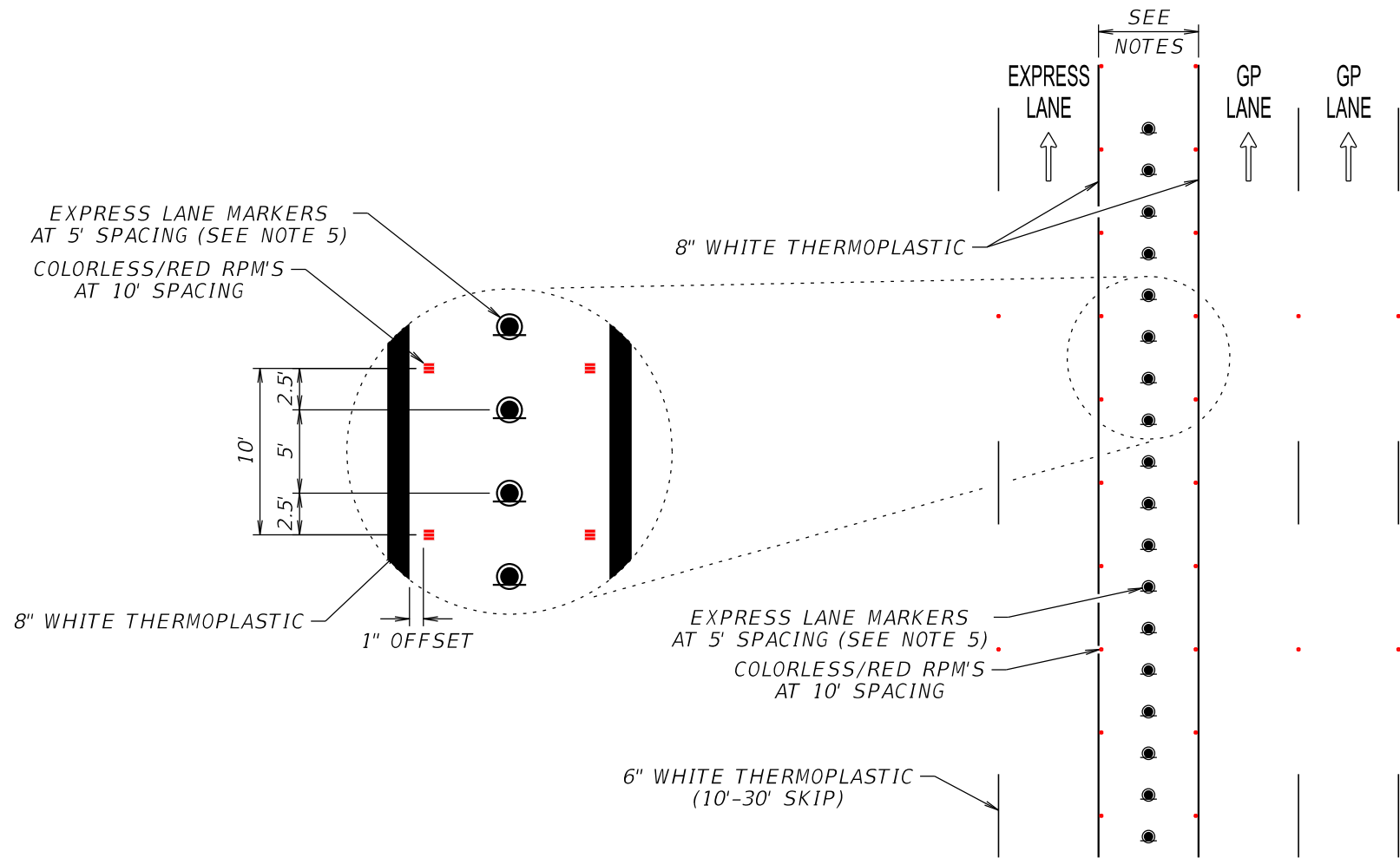


Weave Zone - Typical Combined Ingress/Egress

NOT TO SCALE

REVISIONS						STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			EXPRESS LANE INGRESS/EGRESS TYPICAL LAYOUT		SHEET NO.  106-2
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION						

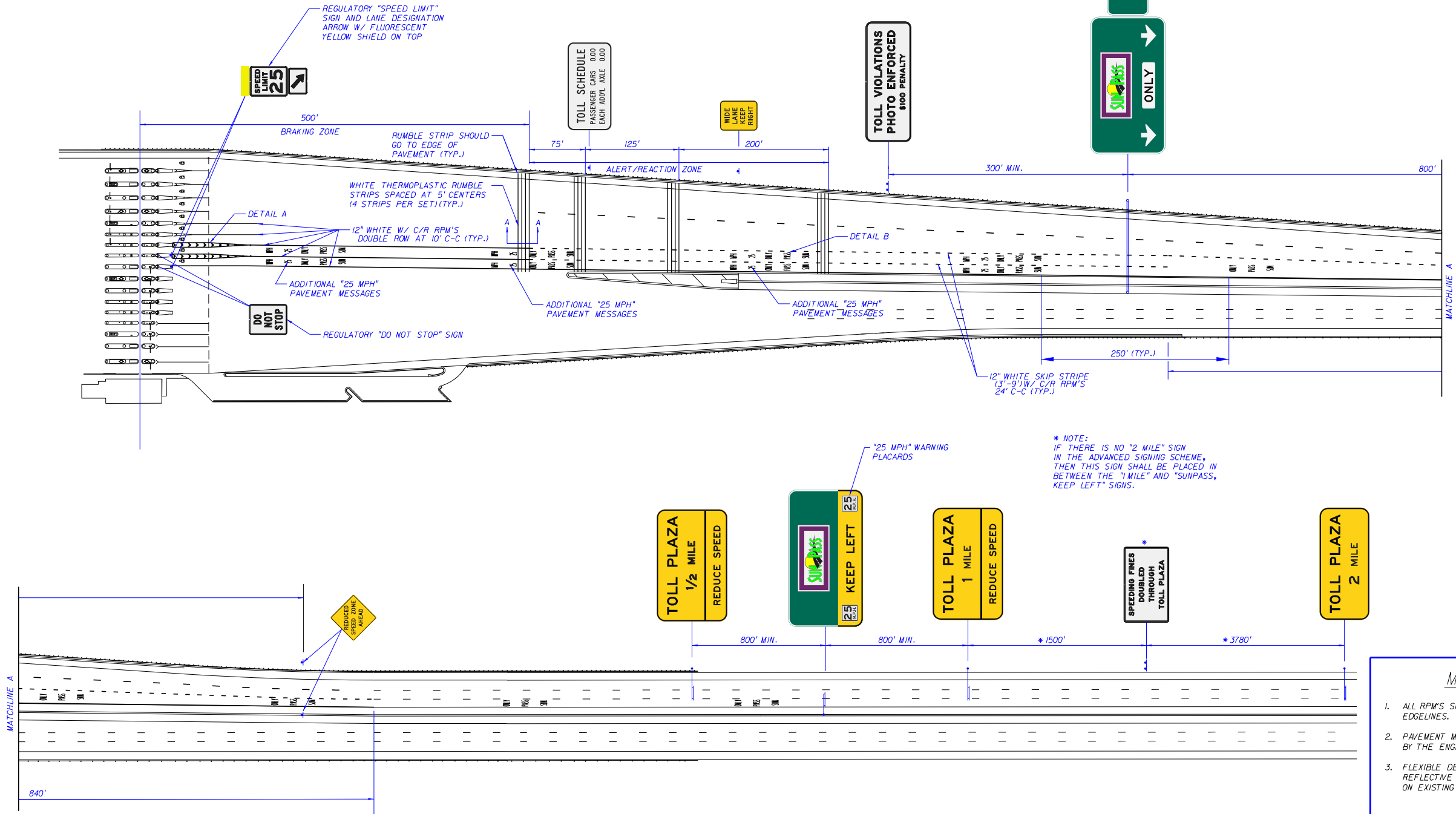
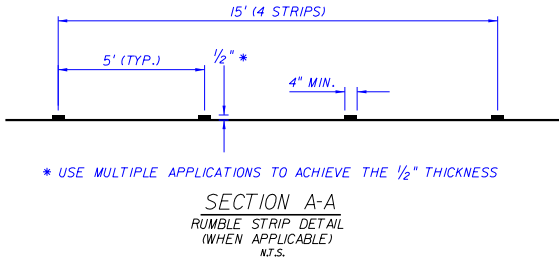
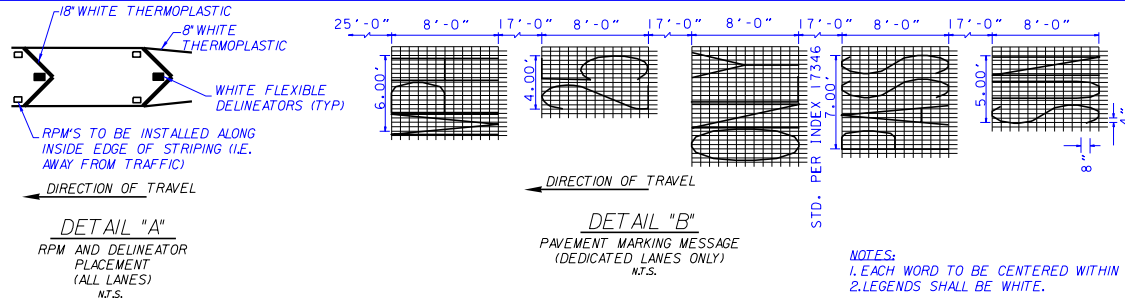




NOTES:

1. BUFFER WIDTH VARIES
2. DO NOT ADD CHEVRONS IF THE BUFFER WIDTH IS 2' OR LESS
3. FOR BUFFER WIDTHS 2' TO 12':
  - A) FOR A SLIP RAMP INGRESS/EGRESS CONFIGURATION, ADD 18" WHITE THERMOPLASTIC CHEVRON AT 40' SPACING WITHIN THE SLIP RAMP TRANSITION AREA AS SHOWN ON SHEET 106-1
  - B) FOR A WEAVE LANE INGRESS/EGRESS CONFIGURATION, ADD 18" WHITE THERMOPLASTIC CHEVRON AT 40' SPACING WITHIN THE WEAVE LANE TRANSITION AREA AS SHOWN ON SHEET 106-2
  - C) FOR A WEAVE ZONE INGRESS/EGRESS CONFIGURATION, ADD 18" WHITE THERMOPLASTIC CHEVRON AT 40' SPACING FOR 1,000' ON BOTH SIDES OF THE WEAVE AREA AS SHOWN ON SHEET 106-2
4. ADD 18" WHITE THERMOPLASTIC CHEVRON AT 40' SPACING WHEN THE BUFFER WIDTH IS GREATER THAN 12'
5. SPACING OF THE EXPRESS LANE MARKERS IS PROJECT SPECIFIC
6. WITHIN THE TOLLING PAVEMENT AREA AS DEFINED IN THE GTR:
  - A) BUFFER WIDTHS BETWEEN 8' AND 12' SHALL HAVE TWO (2) EXPRESS LANE MARKERS EVENLY SPACED TRANSVERSELY
  - B) BUFFER WIDTHS 12' AND GREATER SHALL HAVE THREE (3) EXPRESS LANE MARKERS EVENLY SPACED TRANSVERSELY
  - C) DO NOT PLACE EXPRESS LANE MARKERS OR RPM'S ON TOP OF LOOP SAW-CUT OR SEALANT

REVISIONS						STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			EXPRESS LANE BUFFER ZONE DETAIL	SHEET NO.  107-1
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION					
						ROAD NO.	COUNTY	FINANCIAL PROJECT ID		



N.T.S.

MAIN LINE PLAZA NOTES:

1. ALL RPM'S SHALL BE PLACED ON THE ISLAND SIDE OF THE ADJACENT EDGELINES.
2. PAVEMENT MARKINGS MAY BE ADJUSTED SLIGHTLY AS DIRECTED BY THE ENGINEER.
3. FLEXIBLE DELINEATORS SHALL BE 48" HIGH AND WHITE WITH A 3" X 12" REFLECTIVE STRIP. THE DELINEATOR SHALL BE SURFACE MOUNTED ON EXISTING PAVEMENT.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID

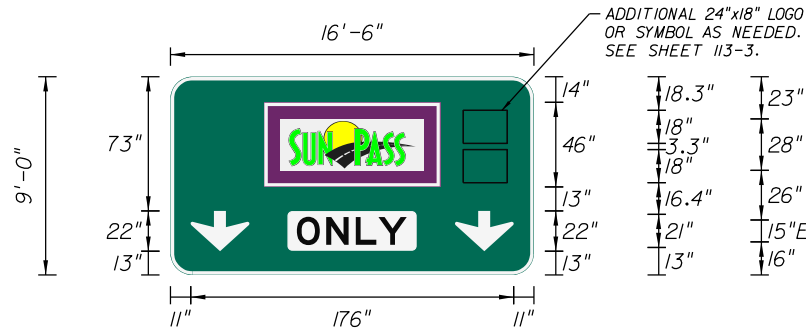
DUAL DEDICATED MAINLINE  
TOLL PLAZA SIGNING AND  
PAVEMENT MARKING LAYOUT

SHEET  
NO.

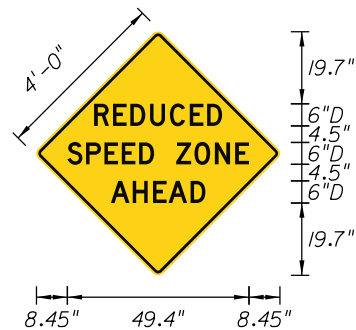
108-1



SIGN NAME		TPK-AS3	QTY	1	SIGN NUMBER	STATION(S)
PANEL		BORDER				
WIDTH	16'-6"	WIDTH	2"			
HEIGHT	9'-0"	RADII	12"			
LEGEND	White	COLOR	White			
COLOR	Green					
SYMBOL(S)	ANGLE	X	Y	WID	HT	
OtherETC	0	159.5	71.7	24	18	
SunPassLarge	0	60	57	78	28	
OtherETC	0	159.5	50.3	24	18	
LogoPanelLarge	0	51	48	96	46	
ARDOWN	0	11	13	32	22	
ARDOWN	0	155	13	32	22	
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH	



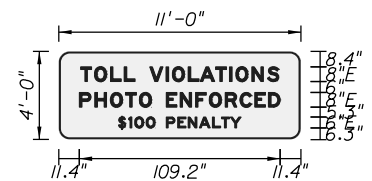
NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE
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[illegible][illegible]

NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE
-----------------------	-----------------	-------------------	------	---------

[illegible][illegible]

MAINLINE APPLICATION							
NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE			

[illegible][illegible]

RAMP APPLICATION							
NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE			

[illegible]

DATE\$	REVISIONS					STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TOLL PLAZA SIGNING DETAILS MAINLINE APPROACH SIGN PANELS	SHEET NO.
	DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		108-3

[illegible]

Diagram of a TOLL PLAZA 1/2 MILE REDUCE SPEED sign with dimensions:

- Overall width: 13'-6"
- Overall height: 8'-6"
- Top section height: 42.5"
- Section height: 15"E
- Section height: 15"
- Section height: 10"E
- Section height: 14.3"
- Section height: 8.7" 2"
- Section height: 12"E
- Section height: 10"
- Section width: 9.65"
- Section width: 142.7"
- Section width: 9.65"

[illegible][illegible][illegible][illegible][illegible]

Diagram illustrating the dimensions of a yellow rectangular sign with rounded corners. The sign reads "TOLL PLAZA" and "2 MILE".

Overall dimensions:

- Width: 13'-6"
- Height: 6'-0"

Sign dimensions and margins:

- Sign width: 142.7"
- Sign height: 42.5"
- Left margin: 9.65"
- Right margin: 9.65"
- Top margin: 15"
- Bottom margin: 15"
- Left side margin (from sign edge): 15"
- Right side margin (from sign edge): 15"
- Left side margin (from sign edge): 10"
- Right side margin (from sign edge): 17"

[illegible][illegible]

The diagram shows a yellow rectangular sign with a black border. The sign is divided into two horizontal sections. The top section contains the text "TOLL PLAZA" in large, bold, black capital letters, followed by "1 MILE" in smaller, bold, black capital letters. The bottom section contains the text "CASH KEEP RIGHT" in bold, black capital letters. The sign is mounted on a post. Dimensions are indicated by arrows and text: the overall width is 13'-6", the overall height is 8'-6", the sign face width is 142.7", and the sign face height is 44.5". Mounting details include 9.65" of clearance on the left and right sides, and 15" of clearance on the top and bottom. The sign is tilted slightly to the right, with a 2" offset indicated on the right side.

NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE

[illegible]

DATE\$	REVISIONS					STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TOLL PLAZA SIGNING DETAILS MAINLINE APPROACH SIGN PANELS	SHEET NO.
	DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		108-4



SIGN NAME	TPK-FINE	QTY	I	SIGN NUMBER	STATION(S)
PANEL	BORDER				none
WIDTH	10'-0"	WIDTH	1.5"		
HEIGHT	6'-0"	RADII	9"		
LEGEND	Black	COLOR	Black		
COLOR	White				
SYMBOL(S)	ANGLE	X	Y	WID	HT
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE <small>Edge Of Lane</small>	COLUMN SIZE	AVERAGE LENGTH	

10'-0"

6'-0"

10.6"

98.8"

10.6"

SPEEDING FINES  
DOUBLED  
THROUGH  
TOLL PLAZA

8"

8"

8"

8"

8"

FOR RAMP OR MAINLINE APPLICATION

NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE

COPY		S	P	E	E	D	I	N	G		F	I	N	E	S		L						
SPACE	10.6	8.1	7.8	7.6	7.6	8.3	3.5	8.3	6.5	8	7.4	3.5	8.6	7.1	6.5	10.6	98.8						
COPY		D	O	U	B	L	E	D		L													
SPACE	32.5	8.1	8.6	8.6	8.1	7.4	7.6	6.5	32.6	54.9													
COPY		T	H	R	O	U	G	H		L													
SPACE	32.2	7.4	8.6	7.8	8.6	8.3	8.3	6.5	32.3	55.5													
COPY		T	O	L	L		P	L	A	Z	A		L										
SPACE	21.9	7.1	8.6	7.4	6	8	7.8	6.6	9	7.4	8.2	22	76.1										
COPY																							
SPACE																							
COPY																							
SPACE																							

SIGN NAME	TPK-WIDE	QTY	I	SIGN NUMBER	STATION(S)
PANEL	BORDER				
WIDTH	4'-0"	WIDTH	1.5"		
HEIGHT	5'-0"	RADII	6"		
LEGEND	Black	COLOR	Black		
COLOR	Yellow				
SYMBOL(S)	ANGLE	X	Y	WID	HT
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE <small>Edge Of Lane</small>	COLUMN SIZE	AVERAGE LENGTH	

4'-0"

5'-0"

9.7"

28.6"

9.7"

WIDE  
LANE  
KEEP  
RIGHT

7.25"

8"

4.5"

8"

4.5"

8"

4.5"

8"

FOR RAMP OR MAINLINE APPLICATION

NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE

COPY		W	I	D	E		L																
SPACE	12.1	8.3	3.2	7.2	5	12.2	23.7																
COPY		L	A	N	E		L																
SPACE	11.1	5.4	8	7.4	5	11.1	25.8																
COPY		K	E	E	P		L																
SPACE	11.5	7	6.3	6.3	5.4	11.5	25																
COPY		R	I	G	H	T		L															
SPACE	9.7	6.8	3	7.2	6.6	5	9.7	28.6															
COPY																							
SPACE																							
COPY		L	E	F	T		L																
SPACE	12.2	6.4	6.4	5.9	4.9	12.2	23.6																

SIGN NAME	TPK-TOLL5	QTY	I	SIGN NUMBER	STATION(S)
PANEL	BORDER				
WIDTH	11'-0"	WIDTH	2"		
HEIGHT	5'-6"	RADII	9"		
LEGEND	Black	COLOR	Black		
COLOR	White				
SYMBOL(S)	ANGLE	X	Y	WID	HT
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE <small>Edge Of Lane</small>	COLUMN SIZE	AVERAGE LENGTH	

11'-0"

5'-6"

7.9"

VARIES

VARIES

TOLL SCHEDULE  
PASSENGER CARS \$X.XX  
EACH ADD'L AXLE \$X.XX

13"

12"

9"

8"

8"

10"

RAMP APPLICATION

NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE

COPY		T	O	L	L		S	C	H	E	D	U	L	E		L							
SPACE	10.9	7.5	9.4	7.8	6.1	12	8.5	9.1	9.3	8.1	9.1	9.3	7.8	6.1	11	110.1							
COPY		P	A	S	S	E	N	G	E	R		C	A	R	S		L						
SPACE	7.9	5.4	5.8	5.4	5.8	5.4	6.1	6.1	5.4	4.5	8	5.4	6.2	5.4	4.5	44.7	79.4						
COPY		\$	X	.	X	X		L															
SPACE	99.2	5.9	VARIES	2.9	VARIES	VARIES	VARIES	VARIES															
COPY		E	A	C	H		A	D	D	.	L		A	X	L	E		L					
SPACE	7.9	4.8	6.1	6.1	4.5	8	6.2	6.1	5.5	2.5	4.1	8	5.6	5.8	5.2	4.1	41.5	82.6					
COPY		\$	X	.	X	X		L															
SPACE	99.2	5.9	VARIES	2.9	VARIES	VARIES	VARIES	VARIES															
COPY																							
SPACE																							

SIGN NAME	TPK-TOLL6	QTY	I	SIGN NUMBER	STATION(S)
PANEL	BORDER				
WIDTH	15'-0"	WIDTH	2"		
HEIGHT	7'-0"	RADII	11"		
LEGEND	Black	COLOR	Black		
COLOR	White				
SYMBOL(S)	ANGLE	X	Y	WID	HT
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE <small>Edge Of Lane</small>	COLUMN SIZE	AVERAGE LENGTH	

15'-0"

7'-0"

12.95"

VARIES

VARIES

TOLL SCHEDULE  
PASSENGER CARS \$X.XX  
EACH ADD'L AXLE \$X.XX

17"

15"

12"

10"

10"

12.5"

MAINLINE APPLICATION

NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE

COPY		T	O	L	L		S	C	H	E	D	U	L	E		L							
SPACE	20.9	9.4	11.9	9.7	7.6	15	10.6	11.4	11.7	10.2	11.4	11.7	9.7	7.6	20.9	138.1							
COPY		P	A	S	S	E	N	G	E	R		C	A	R	S		L						
SPACE	12.9	6.8	7.3	6.8	7.3	6.8	7.6	7.6	6.8	5.6	10	6.8	7.8	6.8	5.6	67.6	99.6						
COPY		\$	X	.	X	X		L															
SPACE	136	7.4	VARIES	2.9	VARIES	VARIES	VARIES	VARIES															
COPY		E	A	C	H		A	D	D	.	L		A	X	L	E							
SPACE	12.9	6	7.6	7.6	5.6	10	7.8	7.6	6.9	3.1	5.1	10	7	7.3	6.5	5.1							
COPY		\$	X	.	X	X		L															
SPACE	20	7.4	VARIES	2.9	VARIES	VARIES	VARIES	VARIES															
COPY																							
SPACE																							

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA  
DEPARTMENT OF TRANSPORTATION

ROAD NO.

COUNTY

FINANCIAL PROJECT ID

TOLL PLAZA SIGNING DETAILS

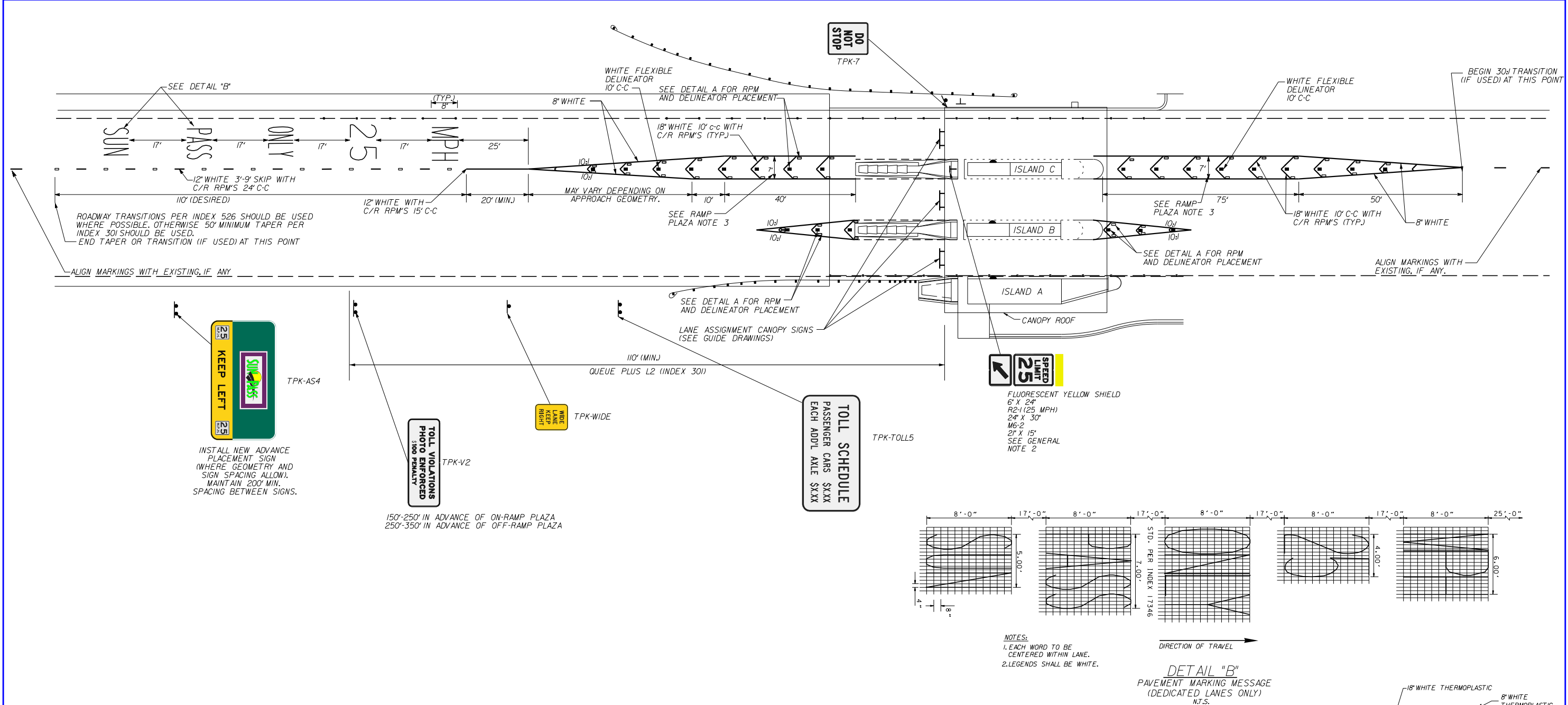
APPROACH

SIGN PANELS

SHEET NO.

108-5

\$DATE\$

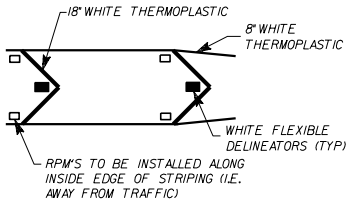
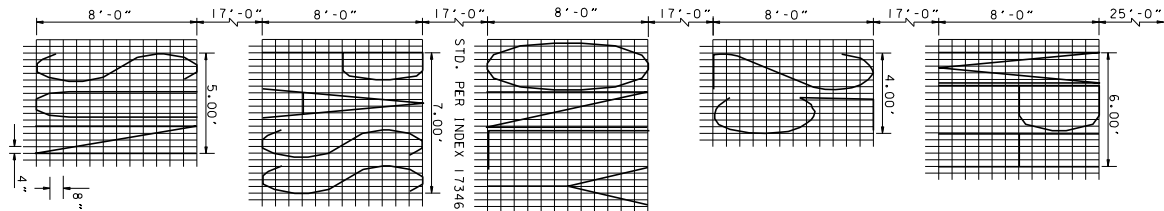


GENERAL NOTES:

- ALL RPM'S SHALL BE PLACED ON THE ISLAND SIDE OF THE ADJACENT EDGELINES.
- INSTALL 24"x30" SPEED LIMIT SIGN W/21" X 15" M6-2L PANEL ON UPPER PART OF CONCRETE ISLAND UPSTREAM OF BOOTH. SIGN SHALL BE MOUNTED CENTERED ON ISLAND WITH A 7' CLEARANCE UNDER SIGN TO PAVEMENT. SIGN SHALL BE ROTATED 22 1/2 DEGREES TOWARDS DEDICATED SUNPASS LANE OR AS DIRECTED BY THE ENGINEER.
- SUNPASS SIGNS CAN BE DOWNLOADED FROM:  
<http://www.floridasturnpike.com/design/prod design/traffic/trafficguidedrawings.html>
- PAVEMENT MARKINGS MAY BE ADJUSTED SLIGHTLY AS DIRECTED BY THE ENGINEER.
- TOLL COLLECTOR WARNING SIGNS SHALL BE FURNISHED AND INSTALLED (ANCHOR BOLTED) ON THE ISLAND BARRIER WALL AND ON BOOTH FACING EACH STAIRWELL OR WALKWAY ACROSS ISLAND. SIGNS ATTACHED TO BOOTH SHALL BE FASTENED WITH STAINLESS STEEL SCREWS. PLACEMENT SHALL PROVIDE OPTIMUM VISIBILITY.
- FLEXIBLE DELINEATORS SHALL BE 48" HIGH, WHITE WITH 3" X 12" REFLECTIVE STRIP. THE DELINEATOR SHALL BE SURFACE MOUNTED ON EXISTING PAVEMENT.

RAMP PLAZA NOTES:

- RIGHT SIDE DEDICATED LANE SHALL BE MIRROR-IMAGE OF THIS EXHIBIT.
- TOLL COLLECTOR SIGNS SHALL BE INSTALLED ON ISLANDS BORDERING DEDICATED USE SUNPASS LANES ONLY.
- FOR A DEDICATED LANE ON THE OUTSIDE OF THE PLAZA AND WITH AN EXISTING LANE WIDTH OF TWELVE FEET OR GREATER, THE CHANNELIZATION ISLAND SHALL BE WIDENED ONE FOOT FROM WHAT IS SHOWN ABOVE TO PROVIDE A MINIMUM STRIPED LANE WIDTH OF ELEVEN FEET.
- FOR A DEDICATED LANE IN THE INTERIOR OF THE PLAZA AND WITH AN EXISTING LANE WIDTH OF TWELVE FEET OR GREATER, THE ADJACENT CHANNELIZATION ISLANDS SHALL BE WIDENED TO NARROW THE DEDICATED LANE TO TEN FEET.



N.T.S.

REVISIONS						STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			RAMP TOLL PLAZA TYPICAL SUNPASS SIGNING AND PAVEMENT MARKINGS	SHEET NO.  108-6
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		

SIGN NAME	TPK-AS4	QTY	I	SIGN NUMBER	STATION(S)
PANEL	BORDER				
WIDTH	12'-6"	WIDTH	2"		
HEIGHT	9'-0"	RADII	12"		
LEGEND	White	COLOR	White		
COLOR	Green				
SYMBOL(S)	ANGLE	X	Y	WID	HT
OtherETC	0	122.8	73	20	15
SunPassSmall	0	41.5	59	67	24
OtherETC	0	122.8	54	20	15
LogoPanelSmall	0	32.5	50	85	42
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE	AVERAGE LENGTH	

NOTE:  
1. ALTERNATE MESSAGES ALSO SHOWN ON LINE 3, 4, AND 5 BELOW.

NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE

COPY		K	E	E	P		L	E	F	T		L								
SPACE	26.1	11.9	11.4	11.4	9.7	12	11	11.4	10	9	26.1	97.8								
COPY																				
SPACE																				
COPY		K	E	E	P		R	I	G	H	T		L							
SPACE	21.7	11.9	11.4	11.4	9.7	12	12.1	4.9	12.5	11.8	9	21.7	106.7							
COPY		C	E	N	T	E	R		L	A	N	E		L						
SPACE	12.1	12.5	11.4	11.8	11	11.4	9.7	12	10	14.3	12.8	9	12.1	125.9						
COPY		A	H	E	A	D		L												
SPACE	44.3	14.3	12.8	10.3	14.3	9.7	44.3	61.4												
COPY																				
SPACE																				

SIGN NAME		QTY	I	SIGN NUMBER	STATION(S)
PANEL	BORDER				
WIDTH	WIDTH				
HEIGHT	RADII				
LEGEND	COLOR				
COLOR					
SYMBOL(S)	ANGLE	X	Y	WID	HT
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE	AVERAGE LENGTH	
NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE	
COPY					
SPACE					
COPY					
SPACE					
COPY					
SPACE					
COPY					
SPACE					
COPY					
SPACE					
COPY					
SPACE					

SIGN NAME	TPK-TOLL8	QTY	I	SIGN NUMBER	STATION(S)
PANEL	BORDER				none
WIDTH	13'-6"	WIDTH	2"		
HEIGHT	8'-0"	RADII	12"		
LEGEND	Black	COLOR	Black		
COLOR	Yellow				
SYMBOL(S)	ANGLE	X	Y	WID	HT
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE	AVERAGE LENGTH	

NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE

COPY		T	O	L	L		P	L	A	Z	A		L							
SPACE	9.7	13.3	16.1	13.8	11.3	15	14.7	12.4	17	13.8	15.3	9.7	142.7							
COPY		A	H	E	A	D		L												
SPACE	50.2	14.5	12.6	10.5	14.5	9.6	50.1	61.6												
COPY		R	E	D	U	C	E		S	P	E	E	D		L					
SPACE	23.4	10.1	9.5	10.4	10.4	10.4	7.5	10	10.1	9.8	9.5	9.5	8.1	23.3	115.3					
COPY																				
SPACE																				
COPY																				
SPACE																				
COPY																				
SPACE																				

SIGN NAME		QTY	I	SIGN NUMBER	STATION(S)
PANEL	BORDER				
WIDTH	WIDTH				
HEIGHT	RADII				
LEGEND	COLOR				
COLOR					
SYMBOL(S)	ANGLE	X	Y	WID	HT
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE	AVERAGE LENGTH	
NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE	
COPY					
SPACE					
COPY					
SPACE					
COPY					
SPACE					
COPY					
SPACE					
COPY					
SPACE					
COPY					
SPACE					

\$DATE\$

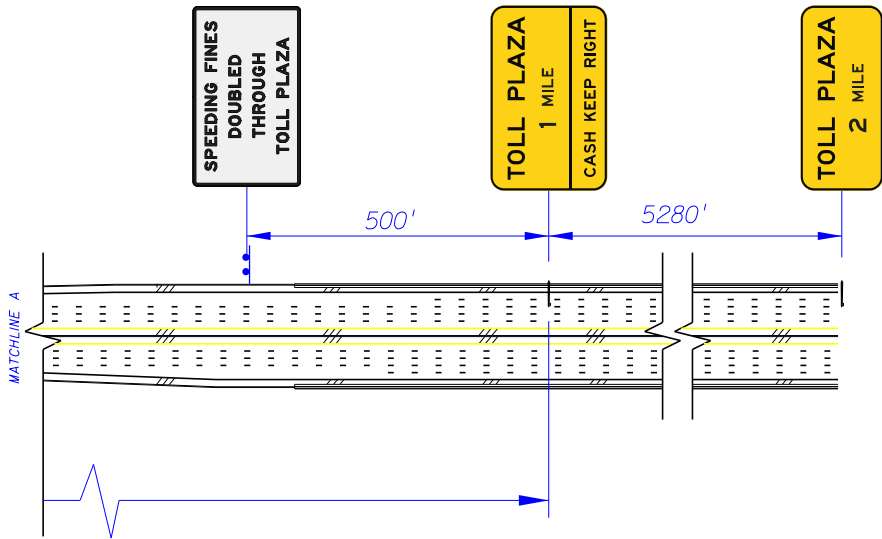
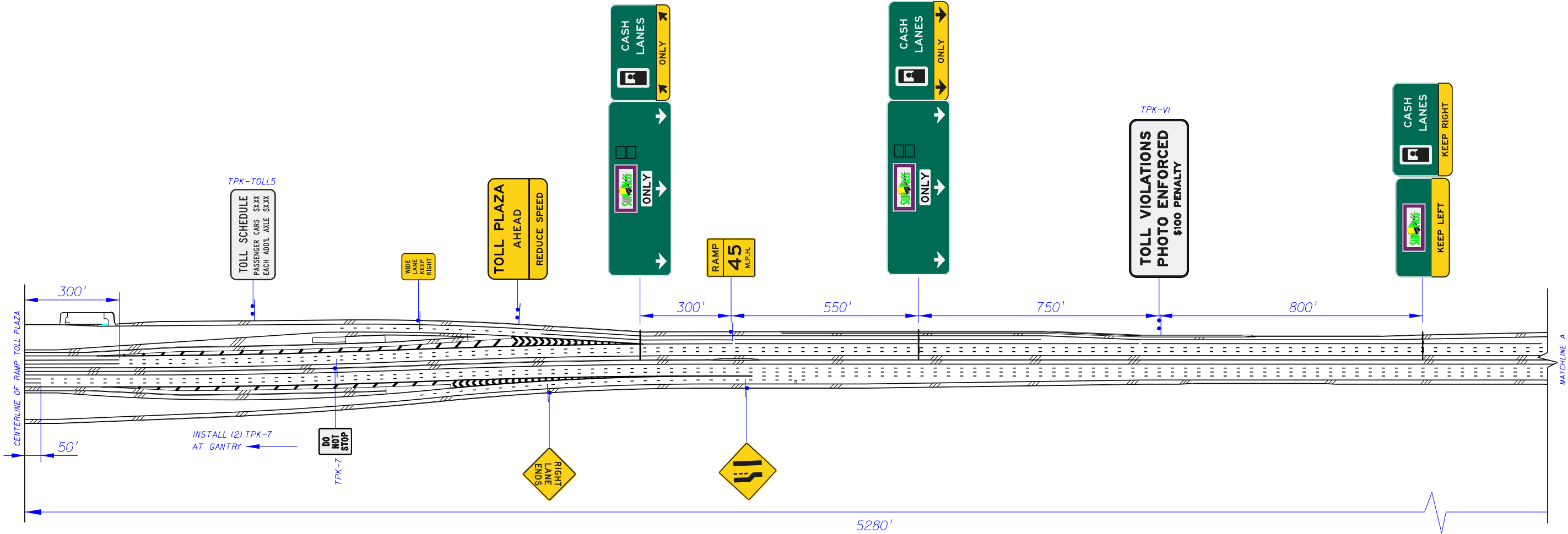
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID

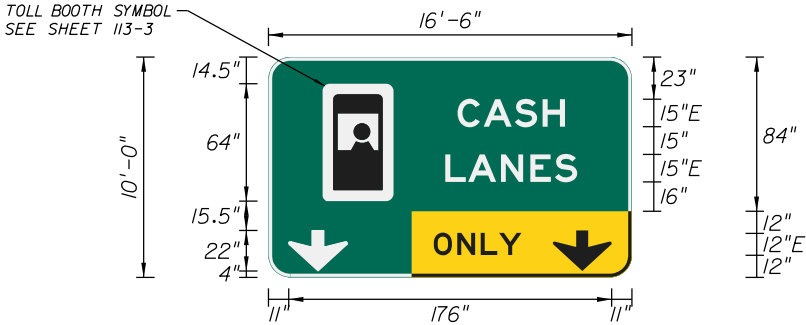
ORT MAINLINE TOLL PLAZA SIGNING LAYOUT	SHEET NO.
	109-1

N.T.S.





SIGN NAME	TPK-CPX4	QTY	I	SIGN NUMBER	STATION(S)
PANEL	BORDER				
WIDTH	16'-6"	WIDTH	2"		
HEIGHT	10'-0"	RADII	12"		
LEGEND	Wht,Blk	COLOR	White		
COLOR	Green/Yellow				
SYMBOL(S)	ANGLE	X	Y	WID	HT
TB_ADV	0	29.8	41.5	38	64
ARSHRT	0	11	4	32	22
ARSHRT	0	155	4	32	22
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE	AVERAGE LENGTH	



NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE
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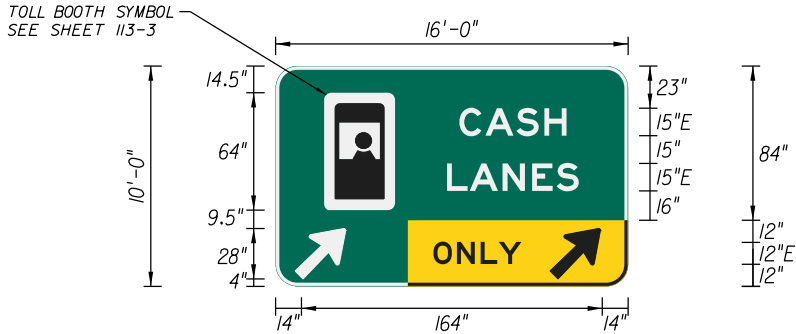
COPY		C	A	S	H		L												
SPACE	103	14.2	16.9	15.1	12.1	36.7	58.3												
COPY		L	A	N	E	S		L											
SPACE	96.2	12.4	17.9	16	13.3	12.2	30	71.8											
COPY		O	N	L	Y		L												
SPACE	90	12.8	12.8	10	12.2	60.2	47.8												
COPY																			
SPACE																			
COPY																			
SPACE																			
COPY																			
SPACE																			

SIGN NAME		QTY	I	SIGN NUMBER	STATION(S)
PANEL	BORDER				
WIDTH	WIDTH				
HEIGHT	RADII				
LEGEND	COLOR				
COLOR					
SYMBOL(S)	ANGLE	X	Y	WID	HT
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE	AVERAGE LENGTH	

NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE
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COPY																			
SPACE																			
COPY																			
SPACE																			
COPY																			
SPACE																			
COPY																			
SPACE																			
COPY																			
SPACE																			

SIGN NAME	TPK-CPX5	QTY	I	SIGN NUMBER	STATION(S)
PANEL	BORDER				
WIDTH	16'-0"	WIDTH	2"		
HEIGHT	10'-0"	RADII	12"		
LEGEND	Wht/Blk	COLOR	White		
COLOR	Green/Yellow				
SYMBOL(S)	ANGLE	X	Y	WID	HT
TB_ADV	0	26.7	41.5	38	64
ARSHRT	45	14	5.5	20	22.5
ARSHRT	45	160	5.5	20	22.5
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE	AVERAGE LENGTH	



NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE
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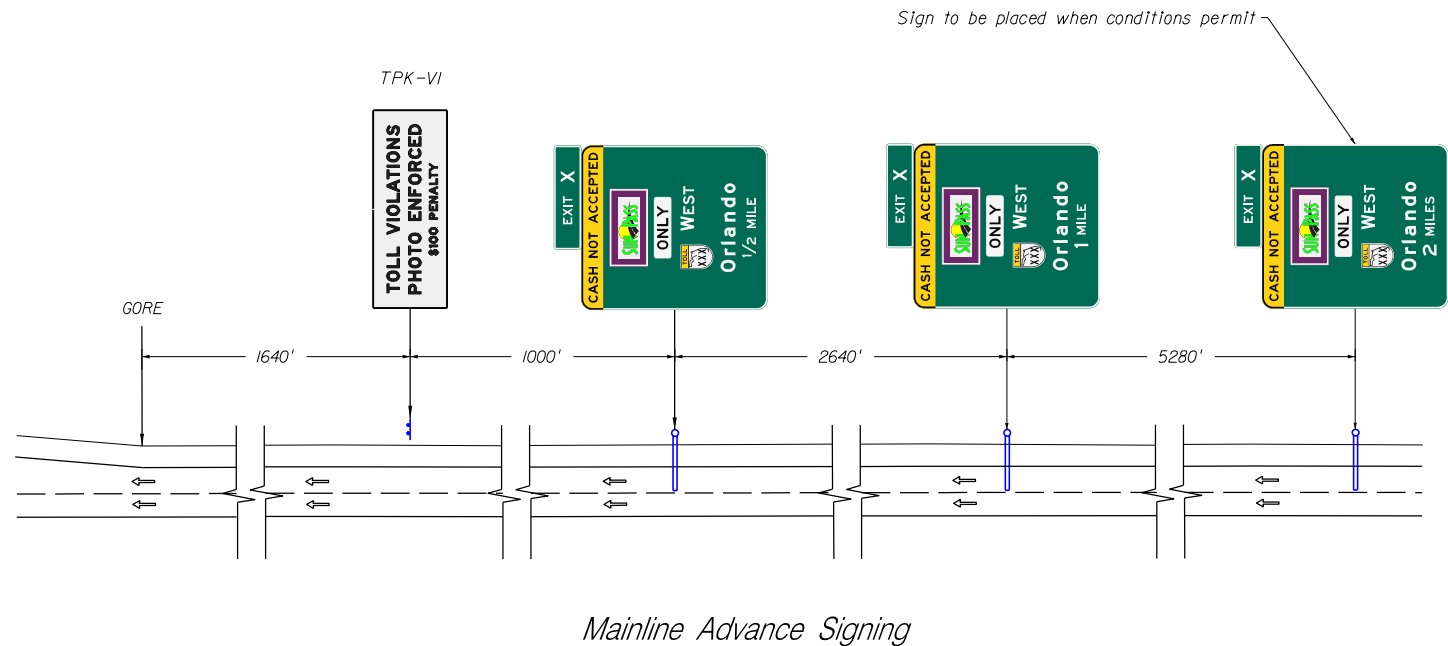
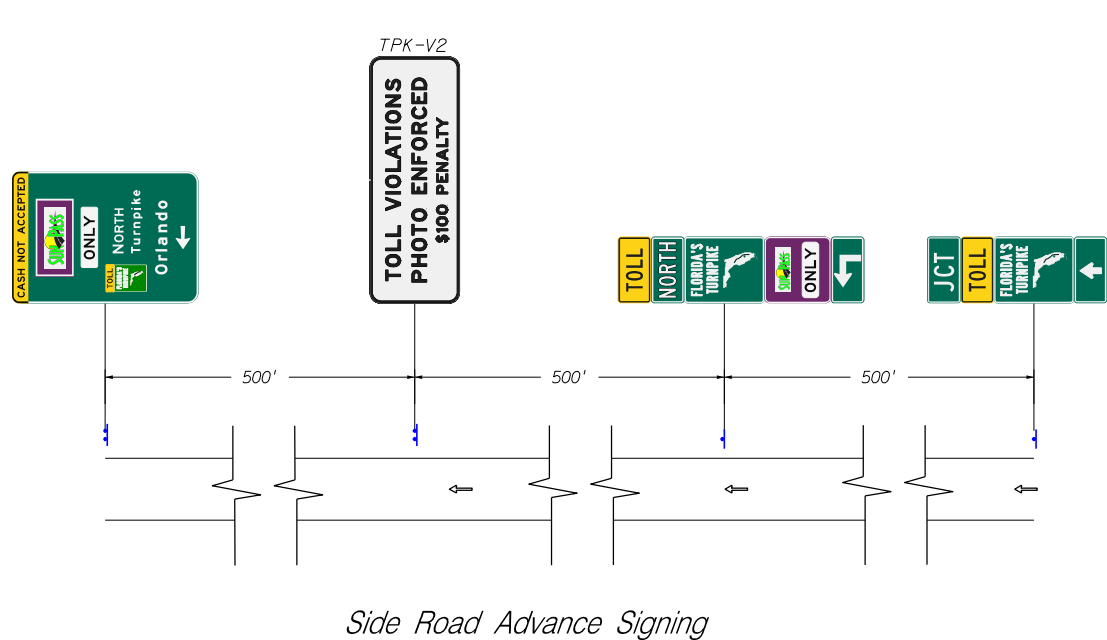
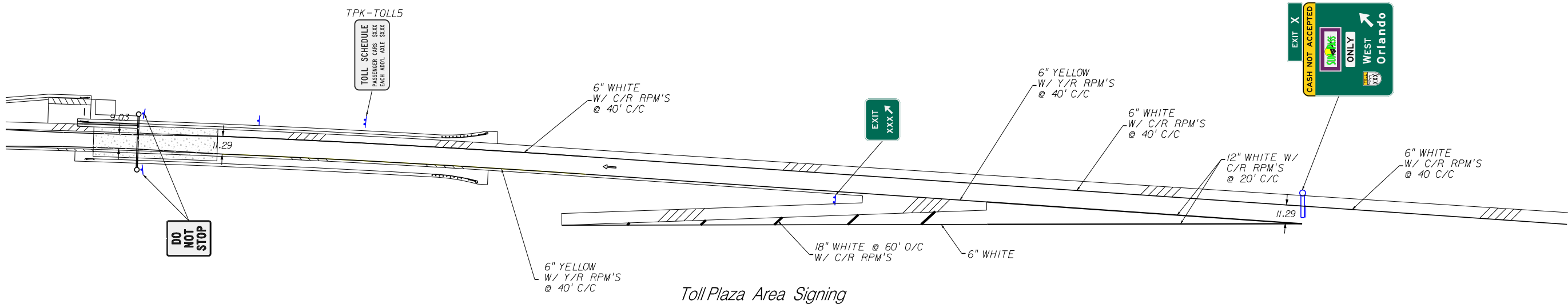
COPY		C	A	S	H		L												
SPACE	100	14.2	16.9	15.1	12.1	33.7	58.3												
COPY		L	A	N	E	S		L											
SPACE	93.2	12.4	17.9	16	13.3	12.2	27	71.8											
COPY		O	N	L	Y		L												
SPACE	86	12.8	12.8	10	12.2	58.2	47.8												
COPY																			
SPACE																			
COPY																			
SPACE																			
COPY																			
SPACE																			

SIGN NAME		QTY	I	SIGN NUMBER	STATION(S)
PANEL	BORDER				
WIDTH	WIDTH				
HEIGHT	RADII				
LEGEND	COLOR				
COLOR					
SYMBOL(S)	ANGLE	X	Y	WID	HT
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE	AVERAGE LENGTH	

NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE
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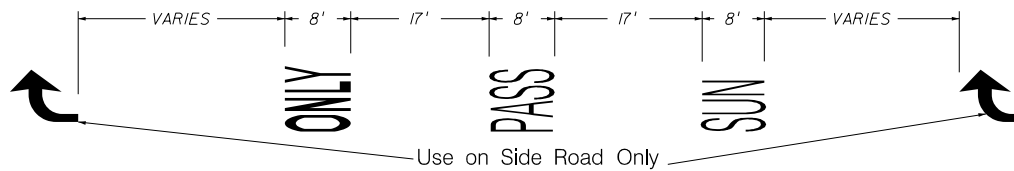
COPY																			
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NOTES:

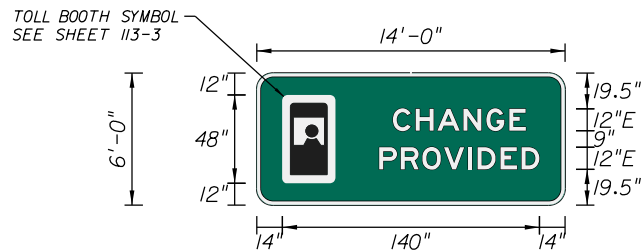
- 1) MAINLINE MARKINGS - SUNPASS ONLY pavement markings shall be added when an auxiliary (drop) lane precedes the OFF ramp.
- 2) SUNPASS ONLY markings on the mainline auxiliary lane are typically spaced 250ft apart
- 3) SIDE ROAD MARKINGS - SUNPASS ONLY pavement markings and arrows shall be added when an auxiliary (drop) lane or turn lane precedes the ON ramp



N.T.S.

REVISIONS						STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ORT RAMP SIGNING & PAVEMENT MARKING LAYOUT	SHEET NO.  109-4
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		

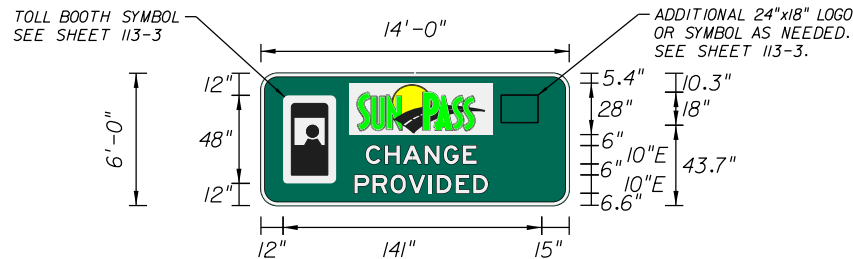
<table><tr><td>SIGN NAME</td><td>TPK-SPI</td><td>QTY</td><td>I</td><td>SIGN NUMBER</td><td>STATION(S)</td></tr><tr><td colspan="2">PANEL</td><td colspan="4">BORDER</td></tr><tr><td>WIDTH</td><td>15'-0"</td><td>WIDTH</td><td>2"</td><td></td><td></td></tr><tr><td>HEIGHT</td><td>17'-0"</td><td>RADII</td><td>12"</td><td></td><td></td></tr><tr><td>LEGEND</td><td>White</td><td>COLOR</td><td>White</td><td></td><td></td></tr><tr><td>COLOR</td><td>Green</td><td colspan="4"></td></tr><tr><td>SYMBOL(S)</td><td>ANGLE</td><td>X</td><td>Y</td><td>WID</td><td>HT</td></tr><tr><td>SunPassSmall</td><td>0</td><td>56.5</td><td>140</td><td>67</td><td>24</td></tr><tr><td>LogoPanelSmall</td><td>0</td><td>47.5</td><td>131</td><td>85</td><td>42</td></tr><tr><td>FTP-80-06</td><td>0</td><td>44.6</td><td>59.5</td><td>27</td><td>36</td></tr><tr><td colspan="6"></td></tr><tr><td>SIGN NUMBER</td><td>NUMBER OF POSTS</td><td>CLEARANCE Edge Of Lane</td><td colspan="2">COLUMN SIZE</td><td>AVERAGE LENGTH</td></tr><tr><td></td><td></td><td></td><td colspan="2"></td><td></td></tr><tr><td></td><td></td><td></td><td colspan="2"></td><td></td></tr><tr><td></td><td></td><td></td><td colspan="2"></td><td></td></tr><tr><td></td><td></td><td></td><td colspan="2"></td><td></td></tr><tr><td></td><td></td><td></td><td colspan="2"></td><td></td></tr></table>										SIGN NAME	TPK-SPI	QTY	I	SIGN NUMBER	STATION(S)	PANEL		BORDER				WIDTH	15'-0"	WIDTH	2"			HEIGHT	17'-0"	RADII	12"			LEGEND	White	COLOR	White			COLOR	Green					SYMBOL(S)	ANGLE	X	Y	WID	HT	SunPassSmall	0	56.5	140	67	24	LogoPanelSmall	0	47.5	131	85	42	FTP-80-06	0	44.6	59.5	27	36							SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH																																									<table><tr><td>NO. OF LIGHT FIXTURES</td><td colspan="2">FIXTURE SPACING</td><td colspan="2">PHOTOMETRIC CURVE</td><td colspan="2">WATT</td><td colspan="2">VOLTAGE</td></tr><tr><td></td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td></tr></table>										NO. OF LIGHT FIXTURES	FIXTURE SPACING		PHOTOMETRIC CURVE		WATT		VOLTAGE										
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LEGEND	White	COLOR	White																																																																																																																																																		
COLOR	Green																																																																																																																																																				
SYMBOL(S)	ANGLE	X	Y	WID	HT																																																																																																																																																
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<table><tr><td>COPY</td><td></td><td>C</td><td>A</td><td>S</td><td>H</td><td></td><td>N</td><td>O</td><td>T</td><td></td><td>A</td><td>C</td><td>C</td><td>E</td><td>P</td><td>T</td><td>E</td><td>D</td><td></td><td>L</td><td></td><td></td><td></td></tr><tr><td>SPACE</td><td>8</td><td>9.5</td><td>11.3</td><td>10.1</td><td>8.1</td><td>10</td><td>10.4</td><td>9.8</td><td>7.5</td><td>10</td><td>11.6</td><td>10.1</td><td>10.4</td><td>9.5</td><td>8.9</td><td>9.2</td><td>9.5</td><td>8.1</td><td>8</td><td>164</td><td></td><td></td><td></td></tr></table>										COPY		C	A	S	H		N	O	T		A	C	C	E	P	T	E	D		L				SPACE	8	9.5	11.3	10.1	8.1	10	10.4	9.8	7.5	10	11.6	10.1	10.4	9.5	8.9	9.2	9.5	8.1	8	164				<table><tr><td>COPY</td><td></td><td>O</td><td>N</td><td>L</td><td>Y</td><td></td><td>L</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>SPACE</td><td>66.1</td><td>12.8</td><td>12.8</td><td>10</td><td>12.2</td><td>66.1</td><td>47.9</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>										COPY		O	N	L	Y		L																SPACE	66.1	12.8	12.8	10	12.2	66.1	47.9																																																			
COPY		C	A	S	H		N	O	T		A	C	C	E	P	T	E	D		L																																																																																																																																	
SPACE	8	9.5	11.3	10.1	8.1	10	10.4	9.8	7.5	10	11.6	10.1	10.4	9.5	8.9	9.2	9.5	8.1	8	164																																																																																																																																	
COPY		O	N	L	Y		L																																																																																																																																														
SPACE	66.1	12.8	12.8	10	12.2	66.1	47.9																																																																																																																																														
<table><tr><td>COPY</td><td></td><td>W</td><td></td><td>E</td><td>S</td><td>T</td><td></td><td>L</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>SPACE</td><td>86.6</td><td>15.9</td><td>2.2</td><td>10.7</td><td>11</td><td>9</td><td>44.6</td><td>48.8</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>										COPY		W		E	S	T		L															SPACE	86.6	15.9	2.2	10.7	11	9	44.6	48.8															<table><tr><td>COPY</td><td></td><td>O</td><td>r</td><td>I</td><td>a</td><td>n</td><td>d</td><td>o</td><td></td><td>L</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>SPACE</td><td>41.4</td><td>18.2</td><td>11.8</td><td>8.2</td><td>17</td><td>15.5</td><td>15.5</td><td>10.9</td><td>41.4</td><td>97.1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>										COPY		O	r	I	a	n	d	o		L													SPACE	41.4	18.2	11.8	8.2	17	15.5	15.5	10.9	41.4	97.1																																																		
COPY		W		E	S	T		L																																																																																																																																													
SPACE	86.6	15.9	2.2	10.7	11	9	44.6	48.8																																																																																																																																													
COPY		O	r	I	a	n	d	o		L																																																																																																																																											
SPACE	41.4	18.2	11.8	8.2	17	15.5	15.5	10.9	41.4	97.1																																																																																																																																											
<table><tr><td>COPY</td><td></td><td>2</td><td></td><td>M</td><td>I</td><td>L</td><td>E</td><td>S</td><td></td><td>L</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>SPACE</td><td>57.6</td><td>12.1</td><td>10</td><td>12</td><td>4.4</td><td>9.2</td><td>8.9</td><td>8.1</td><td>57.6</td><td>64.7</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>										COPY		2		M	I	L	E	S		L													SPACE	57.6	12.1	10	12	4.4	9.2	8.9	8.1	57.6	64.7													<table><tr><td>COPY</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>SPACE</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>										COPY																							SPACE																																																												
COPY		2		M	I	L	E	S		L																																																																																																																																											
SPACE	57.6	12.1	10	12	4.4	9.2	8.9	8.1	57.6	64.7																																																																																																																																											
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REVISIONS																																																																																																																																																					
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[illegible]

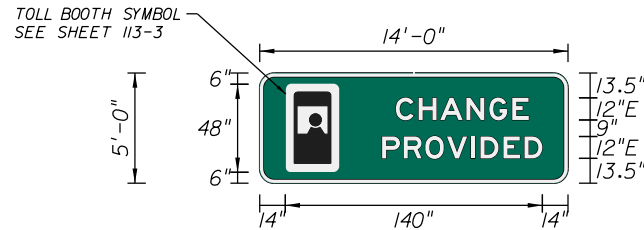
NO. OF LIGHT FIXTURES		FIXTURE SPACING		PHOTOMETRIC CURVE		WATT		VOLTAGE	
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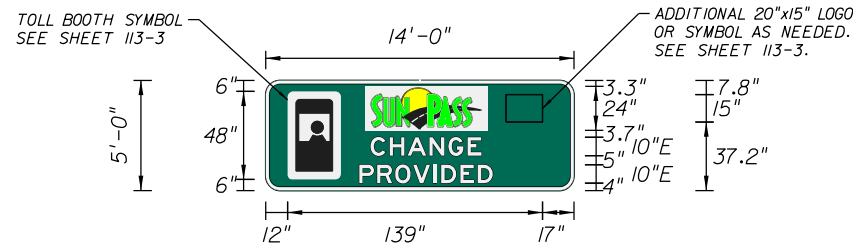
SIGN NAME	TPK-CSI	QTY	1	SIGN NUMBER		STATION(S)	
PANEL		BORDER					
WIDTH	14'-0"	WIDTH	1.75"				
HEIGHT	6'-0"	RADIO	9"				
LEGEND	White	COLOR	White				
COLOR	Green						
SYMBOL(S)	ANGLE	X	Y	WID	HT		
OtherETC	0	129	43.7	24	18		
SunPass_CAN	0	48.2	38.6	78	28		
TB_CAN	0	12	12	29	48		
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE			AVERAGE LENGTH	



NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE
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[illegible][illegible]

NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE
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[illegible][illegible]

NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE
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[illegible]

DATE\$	REVISIONS					STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TOLL PLAZA SIGNING DETAILS MAINLINE CANOPY MOUNTED SIGN PANELS	SHEET NO.
	DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		110-1

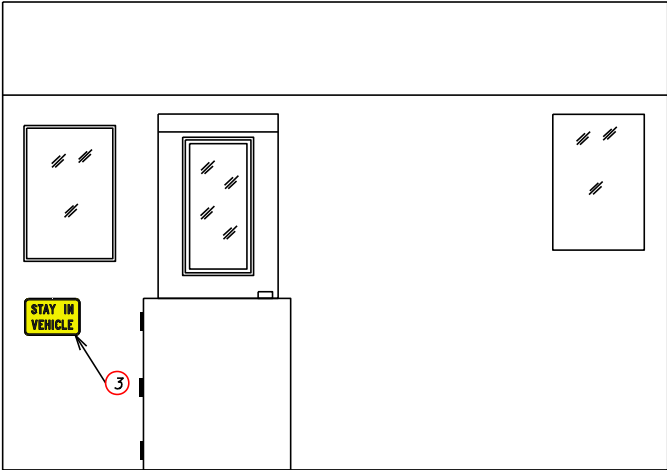
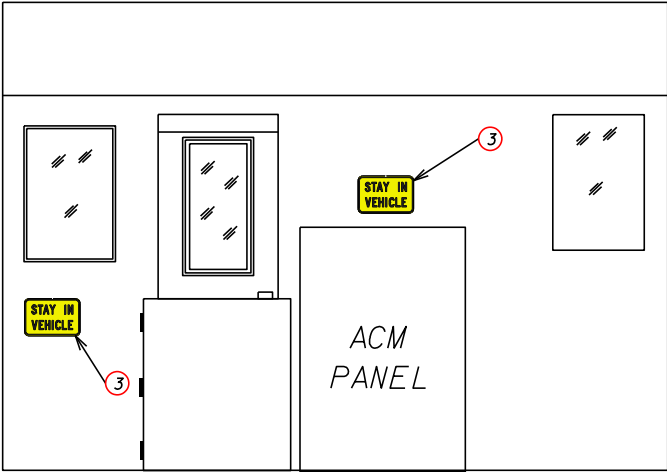
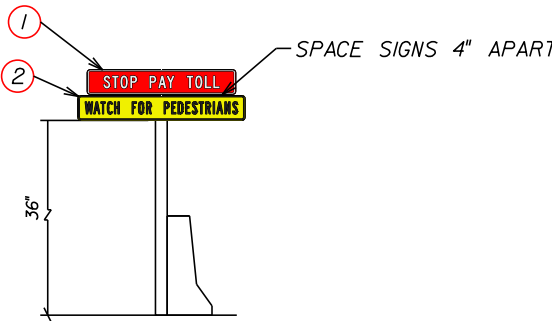
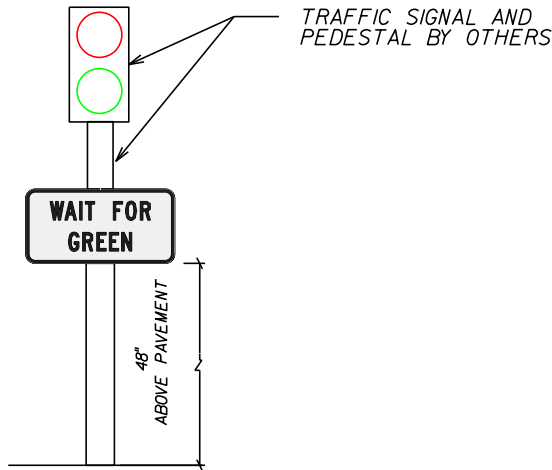
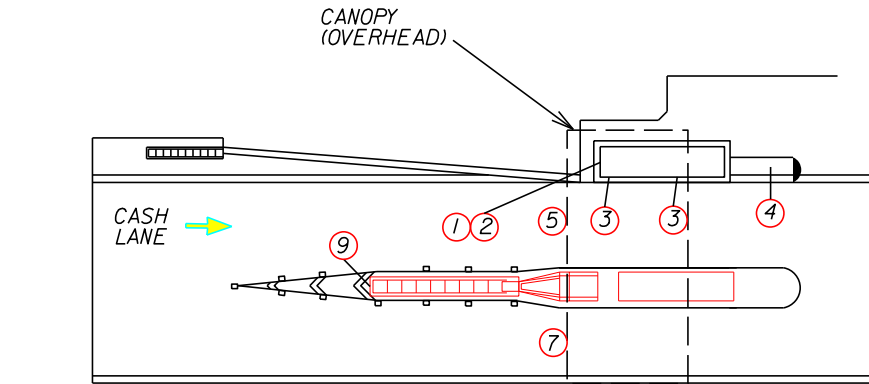




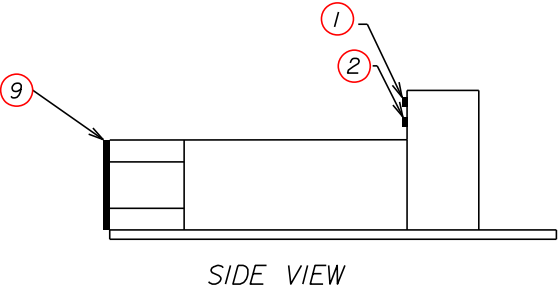
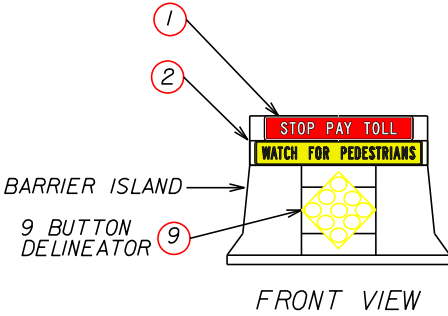






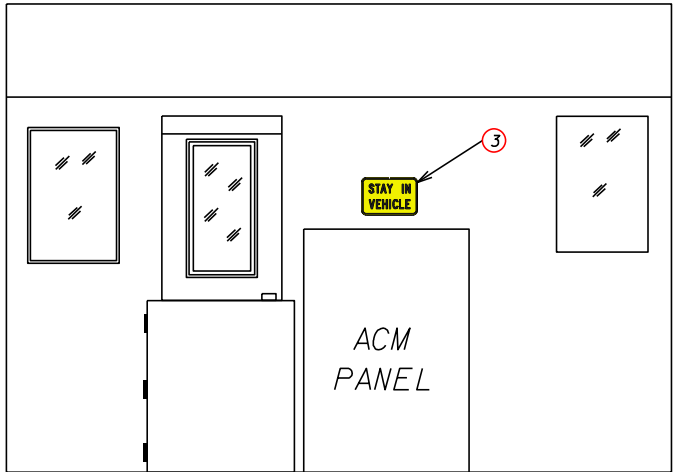
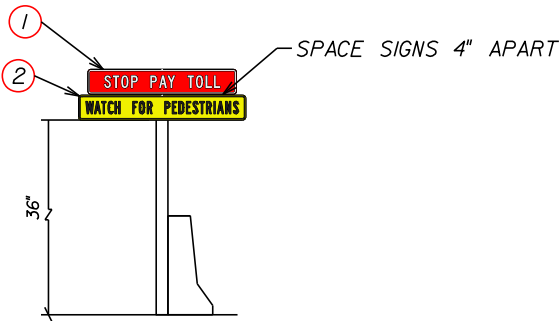
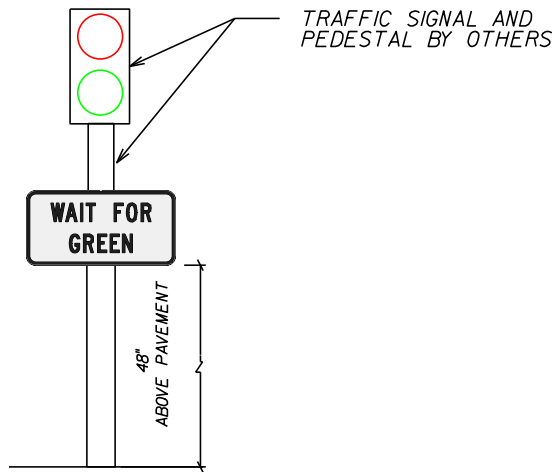
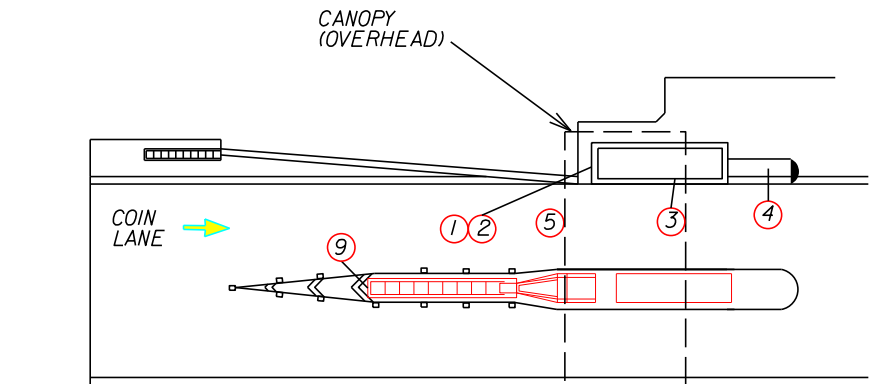


TOLL PLAZA SIGN SYMBOL LEGEND		
	LEGEND OR DESCRIPTION	REMARKS
1	STOP PAY TOLL	MOUNT ON ISLAND GATORHEAD
2	WATCH FOR PEDESTRIANS	MOUNT ON ISLAND GATORHEAD
3	STAY IN VEHICLE	MOUNT ON TOLL BOOTH OR ACM
4*	WAIT FOR GREEN	MOUNT ON TOLL BOOTH
5	LANE DESIGNATION SIGN	MOUNT ON CANOPY
7	LANE DESIGNATION SIGN	MOUNT ON CANOPY
9	9 BUTTON DELINEATOR	MOUNT ON BLUNT END OF CONCRETE ISLAND AND ATTENUATOR



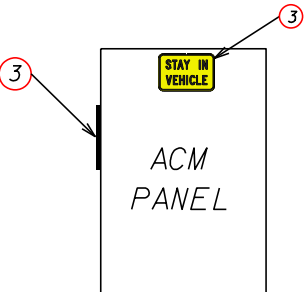
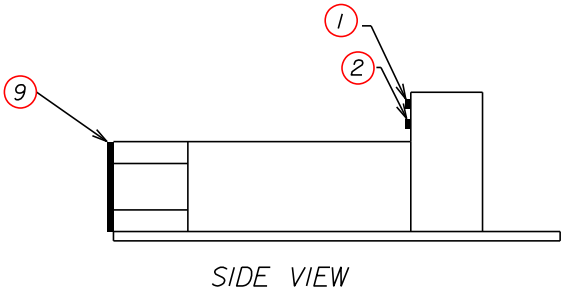
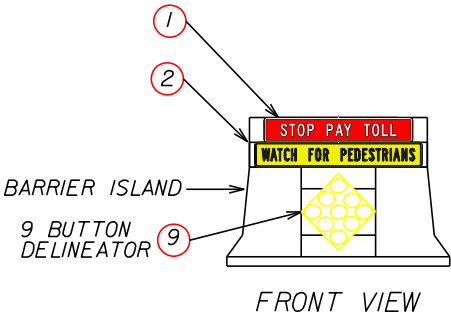
N.T.S.

REVISIONS						STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	CASH LANE TOLL PLAZA SIGNING LAYOUT		SHEET NO.  III-1
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION				



UNSTAFFED COIN LANE  
SIGN PLACEMENT DETAIL

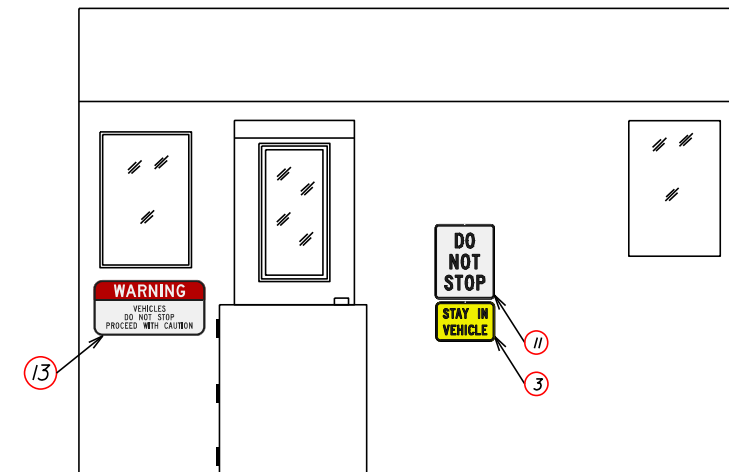
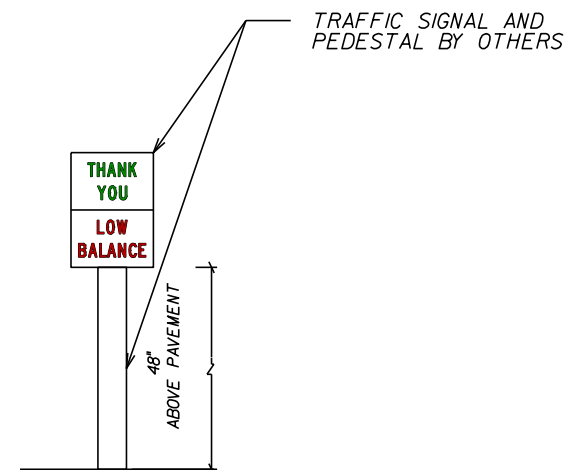
TOLL PLAZA SIGN SYMBOL LEGEND		
	LEGEND OR DESCRIPTION	REMARKS
1	STOP PAY TOLL	MOUNT ON ISLAND GATORHEAD
2	WATCH FOR PEDESTRIANS	MOUNT ON ISLAND GATORHEAD
3	STAY IN VEHICLE	MOUNT ON TOLL BOOTH OR ACM
4*	WAIT FOR GREEN	MOUNT ON TOLL BOOTH
5	LANE DESIGNATION SIGN	MOUNT ON CANOPY
9	9 BUTTON DELINEATOR	MOUNT ON BLUNT END OF CONCRETE ISLAND AND ATTENUATOR



UNSTAFFED COIN LANE - NO BOOTH  
SIGN PLACEMENT DETAIL

N.T.S.

REVISIONS						STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	COIN LANE TOLL PLAZA SIGNING LAYOUT		SHEET NO.  III-2
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION				
						ROAD NO.	COUNTY	FINANCIAL PROJECT ID	



2

WATCH FOR PEDESTRIANS

36"

The image contains two technical drawings of a variable message sign (VMS) structure, labeled 'SIDE VIEW' and 'FRONT VIEW'.

**SIDE VIEW:** This drawing shows the profile of the sign structure. It includes a horizontal base, a vertical support pole, and a sign panel. Numbered callouts include:
 

- 9: Points to the base of the structure.
- 2: Points to the vertical support pole.
- 12: Points to the top of the vertical support pole.
- 14: Points to the sign panel.
- 15: Points to the top of the sign panel.

**FRONT VIEW:** This drawing shows the face of the sign structure. It includes a sign panel with a speed limit sign and a directional arrow sign. Numbered callouts include:
 

- 2: Points to the base of the structure.
- 9: Points to the sign panel.
- 12: Points to the speed limit sign.
- 14: Points to the directional arrow sign.
- 15: Points to the top of the sign panel.

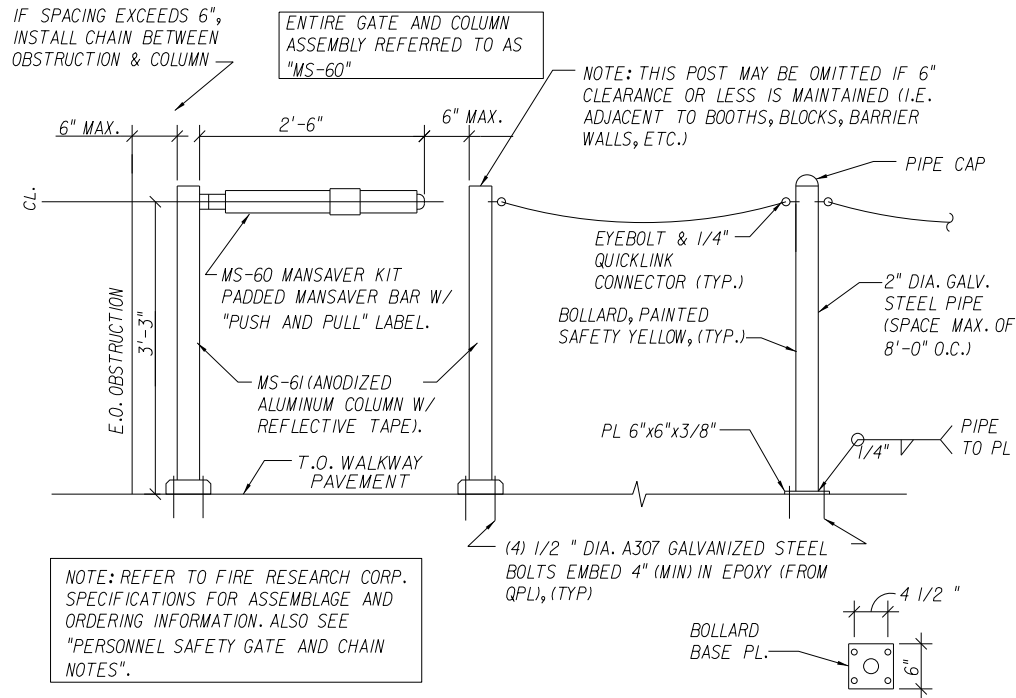
Additional labels in the front view include:
 

- BARRIER ISLAND:** A label with an arrow pointing to the base of the structure.
- 9 BUTTON DELINEATOR:** A label with an arrow pointing to a yellow diamond-shaped button delineator on the base.
- WATCH FOR PEDESTRIANS:** A yellow rectangular sign on the base.

N.T.S.

\$DATE\$





1. PERSONNEL SAFETY GATES SHALL BE INSTALLED WHERE INDICATED ON PLANS. THESE GATES SHALL BE CONSTRUCTED WITH SAFETY BARS AS MANUFACTURED BY FIRE RESEARCH CO. (1-800-645-0074) OR EQUAL, AND SOLD UNDER THE BRAND NAME MANSAYER, MODEL MS-60. BARS SHALL BE PADDED WITH YELLOW VINYL COVERINGS AND SHALL BE THIRTY (30) INCHES IN LENGTH, INCLUDING THE DOUBLE ACTING HINGE. EACH GATE SHALL CONSIST OF ONE (1) ALUMINUM (6061-T6) MANSAYER BAR (MS-60 MANSAYER KIT) ATTACHED TO THE TOP OF AN EXTRUDED ALUMINUM (6065-T6) 3-INCH SQUARE CROSS SECTION ALUMINUM POST (MS-61) WITH AN ALUMINUM CAST KNUCKLE WITH A BASE FOR ANCHORING TO THE WALKWAY AREA. BASE PLATE SHOULD BE ANCHORED TO CONCRETE W/ (4) - 1/2 " DIA. A307 GALVANIZED STEEL ANCHOR BOLTS, EMBED 4" IN EPOXY. AN ADDITIONAL DUPLICATE POST SHALL BE PROVIDED WITH EACH GATE TO MOUNT. SIMILARLY TO THE WALKWAY PAVEMENT AT THE UNCONNECTED OR FREE END OF THE MANSAYER BAR. THIS ADDITIONAL POST MAY OR MAY NOT BE REQUIRED TO BE INSTALLED BASED ON FIELD CONDITIONS. THE POST AND GATE ASSEMBLY (TOGETHER) ARE REFERRED TO AS THE "MANSAYER BAR AND UPRIGHT STANCHION KIT", MODEL MS-60.

2. AN EYE BOLT SHALL BE MOUNTED AT THE TOP OF EACH POST FOR CONTINUATION OF SAFETY CHAIN. CAPS SHALL BE PROVIDED IN THE TOP OF THE POSTS. POSTS SHALL BE INSTALLED LEVEL. THE CENTERLINE OF THE MANSAYER BAR SHALL BE THIRTY-NINE (39) INCHES ABOVE THE WALKWAY PAVEMENT. POST EYE BOLTS SHALL ALSO ACCOMMODATE THE THIRTY-SIX INCH (36") MOUNTING HEIGHT (ABOVE THE ISLAND) FOR SAFETY CHAIN.

3. CHAIN SHALL BE 4/0 STRAIGHT LINK COIL CHAIN POLY-COATED BLU-KROME MODEL NO. 14033-1117 AS MANUFACTURED BY COOPER (919-362-7541) OR EQUAL. THE CHAIN COLOR SHALL BE SAFETY YELLOW. THE CHAIN SHALL BE LOCATED ON THE ISLAND NO LESS THAN TWELVE (12) INCHES AND NO GREATER THAN EIGHTEEN (18) INCHES OFF THE EDGE OF THE ISLAND CURB ADJACENT TO THE LANE. THE CHAIN SHALL BE LOCATED APPROXIMATELY THIRTY-SIX (36) INCHES OFF THE SURFACE OF THE ISLAND, I.E., APPROXIMATELY FORTY-TWO (42) INCHES ABOVE THE LANE PAVEMENT. CHAIN SHALL BE ATTACHED TO THE BOLLARD EYE BOLTS AT BOTH ENDS WITH ONE-QUARTER (1/4) INCH QUICK LINK CONNECTORS, PART NO. 764-0536, AS MANUFACTURED BY COOPER, OR EQUAL. CHAIN SHALL BE INSTALLED SUCH THAT THERE IS MINIMAL CHAIN SAG ALLOWING REMOVAL OF THE CHAIN.

4. BOLLARDS: THE CONTRACTOR SHALL INSTALL THIRTY-SIX (36) INCH HIGH BOLLARDS OF TWO (2) INCH DIAMETER GALVANIZED STEEL PIPE AT SPACING NO GREATER THAN EIGHT (8) FEET APART. BOLLARDS SHALL BE CAPPED AND BE WELDED TO 6"x6"x3/8" BASE PLATE. BASE PLATE SHOULD BE BOLTED TO EXISTING CONCRETE SLAB W/ (4) - 1/2 " DIA. A307 GALVANIZED STEEL ANCHOR BOLTS, EMBED 4" IN EPOXY. PIPE SHALL BE PAINTED SAFETY YELLOW WITH A PAINT APPROPRIATE FOR APPLICATION TO GALVANIZED SURFACES. BOLLARDS SHALL BE ATTACHED PERMANENTLY TO THE ISLAND SURFACE AND SHALL NOT BE EASILY REMOVED WITHOUT POWER EQUIPMENT. USE OF EXISTING BOLLARDS IS ENCOURAGED BUT NOT AT THE EXPENSE OF DEVIATING FROM REQUIREMENTS HERE IN.

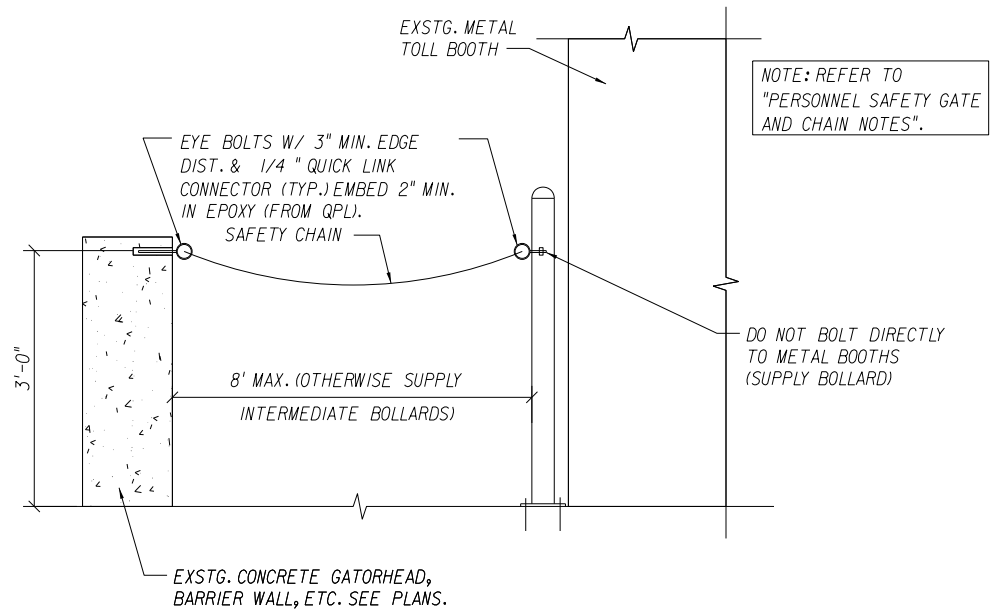
5. CHAIN ATTACHMENT: CHAIN AND QUICK LINKS SHALL BE CONNECTED TO BOLLARDS WITH EYE BOLTS. CHAIN SHALL NOT PASS THROUGH A RING ON THE BOLLARD BUT SHALL TERMINATE AT ONE, OR BOTH SIDES OF THE BOLLARD AS NECESSARY, WITH A QUICK LINK CONNECTOR. CHAIN MAY NOT BE ATTACHED TO AUTOMATIC COIN MACHINES, GATE HOUSINGS, ANY SUNPASS OR MISCELLANEOUS EQUIPMENT, OR PREFABRICATED TOLL BOOTHS.

6. SAFETY CHAIN CLEARANCES: TOLL EQUIPMENT (I.E. GATES, AUTOMATIC COIN MACHINES, SUNPASS EQUIPMENT, ETC.) OPERATION AND TECHNICIAN ACCESS SHALL NOT BE AFFECTED BY THE PLACEMENT OF CHAIN OR BOLLARDS. BOLLARD PLACEMENT SHALL BE NO FURTHER THAN NINE (9) INCHES AND NO CLOSER THAN SIX (6) INCHES FROM GATE HOUSINGS AND SHALL NOT CONFLICT WITH THE ENTRY AND EXIT OF PERSONNEL FROM TUNNEL STAIR WELLS. IF AUTOMATIC COIN MACHINES (ACMS) HAVE NOT BEEN REMOVED PRIOR TO SUNPASS CONVERSION, THE CONTRACTOR SHALL SUPPLY THE NECESSARY LENGTH OF CHAIN AND QUICK LINK CONNECTORS TO THE TURNPIKE TO CLOSE THE GAP WHERE THE ACM OR TOLL BOOTH ONCE OCCUPIED. IF ONLY AN ACM IS PRESENT ON THE ISLAND AND IT HAS NOT BEEN REMOVED PRIOR TO SUNPASS CONVERSION, THE CONTRACTOR SHALL INSTALL A POST ON THE ISLAND OR FLOOR PLATE ON EITHER SIDE OF THE ACM FOR CHAIN TERMINATION.

7. PERSONNEL SAFETY GATES: THE CONTRACTOR SHALL PROVIDE AND INSTALL PERSONNEL SAFETY GATES WHERE INDICATED ON PLANS. SAFETY BAR CENTERLINE HEIGHT SHALL BE THIRTY-NINE (39) INCHES ABOVE THE WALKWAY. THE SAFETY GATE SHALL ALWAYS BE ORIENTED SUCH THAT THE GATE HINGE IS LOCATED TO THE RIGHT SIDE ON APPROACH TO THE DEDICATED LANE (I.E., TO THE LEFT IF DEPARTING THE DEDICATED LANE.)

8. WALKWAY WIDTH AND CHANNELIZATION OF PERSONNEL: THE WALKWAY MAY BE GREATER WIDTH THAN THE WIDTH OF THE GATE, IN WHICH CASE THE CONTRACTOR SHALL "CHANNELIZE" ANY OPENINGS AROUND THE GATE BY CONNECTING ADDITIONAL CHAIN FROM THE SQUARE TUBULAR COLUMN BOLTED TO THE SAFETY BAR TO THE CLOSEST ALLOWABLE CONNECTION POINT, OR FROM THE SQUARE TUBULAR COLUMN LOCATED ADJACENT TO THE SWINGING GATE ARM AT THE CLOSEST ALLOWABLE CONNECTION POINT. THE DESIRABLE AND MAXIMUM WIDTH OF GAP BETWEEN THE SAFETY GATE ARM AND THE ADJACENT COLUMN IS SIX (6) INCHES. IN INSTANCES WHERE THE WALKWAY IS LESS THAN FOUR (4) FEET IN WIDTH, THE CONTRACTOR MAY RELOCATE THE SQUARE TUBULAR COLUMN WHICH IS NOT ATTACHED TO THE SAFETY BAR AND MOUNT IT ON THE ISLAND ADJACENT TO THE WALKWAY, OR ELIMINATE IT COMPLETELY IF THERE IS AN ADJACENT AND ALLOWABLE MOUNTING SURFACE WHICH DOES NOT ALLOW A GAP GREATER THAN SIX (6) INCHES IN WIDTH.

9. CHAIN AND GATE LAYOUT AND FIELD ISSUE RESOLUTION: THE CONTRACTOR SHALL USE GOOD JUDGMENT AND FOLLOW THE CRITERIA HEREIN AND AS INDICATED ON THE PLANS IN LAYOUT AND ATTACHMENT OF THE CHAIN AND PERSONNEL GATES WITHIN THE WALKWAYS. ANY QUESTIONABLE SITUATION WHICH REQUIRES CLARIFICATION IN THE FIELD SHALL BE BROUGHT TO THE ATTENTION OF THE DEPARTMENT'S FIELD REPRESENTATIVE AND TO THE ENGINEER.



\$DATE\$

R E V I S I O N S						STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TOLL PLAZA SPECIAL DETAILS	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION					
						ROAD NO.	COUNTY	FINANCIAL PROJECT ID		III-5

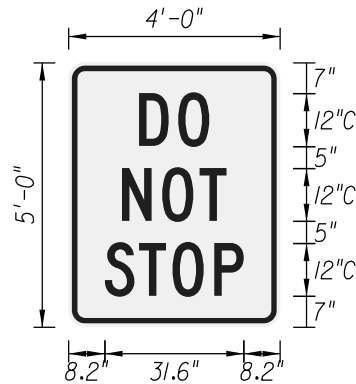




PANEL NAME	TPK-6				
QUANTITY	1				
WIDTH	4'-6"				
HEIGHT	0'-8"				
BORDER WIDTH	0.5"				
BORDER RADII	1"				
PANEL COLOR	Fluorescent Yellow				
LEGEND	Black				
BORDER	Black				
SYMBOL(S)	ANGLE	X	Y	WID	HT
SIGN NUMBER	CLEARANCE EDGE OF LANE	COLUMN SIZE STEEL			AVERAGE LENGTH

[illegible]

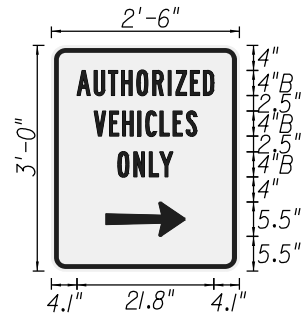
SIGN NAME		TPK-7			
QUANTITY		1			
WIDTH		4'-0"			
HEIGHT		5'-0"			
BORDER WIDTH		1.25"			
BORDER RADII		3" INSET: 0.75"			
PANEL COLOR		White			
LEGEND		Black			
BORDER		Black			
SYMBOL(S)	ANGLE	X	Y	WID	HT
SIGN NUMBER	CLEARANCE EDGE OF LANE	COLUMN SIZE STEEL			AVERAGE LENGTH



1. FOR RAMP AND MAINLINE USE
2. SEE CURRENT GTR FOR MOUNTING CRITERIA

[illegible]

SIGN NAME		TPK-8				
QUANTITY		1				
WIDTH		2'-6"				
HEIGHT		3'-0"				
BORDER WIDTH		0.75"			INSET: 0.5"	
BORDER RADII		1.875"				
PANEL COLOR		White				
LEGEND		Black				
BORDER		Black				
SYMBOL(S)		ANGLE	X	Y	WID	HT
ARLONG		0	8.7	5.5	12.6	5.5
SIGN NUMBER	CLEARANCE EDGE OF LANE	COLUMN SIZE			AVERAGE LENGTH	



1. TO BE LOCATED AT MAINTENANCE PULL-OFF AREAS
2. SEE CURRENT GTR FOR MOUNTING CRITERIA

[illegible]

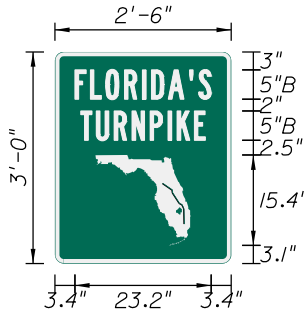
SIGN NAME					
QUANTITY					
WIDTH					
HEIGHT					
BORDER WIDTH					
BORDER RADII		INSET: 0.38"			
PANEL COLOR					
LEGEND					
BORDER					
SYMBOL(S)	ANGLE	X	Y	WID	HT
SIGN NUMBER	CLEARANCE EDGE OF LANE	COLUMN SIZE			AVERAGE LENGTH

[illegible]

SHEET NO.	REVISIONS						STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	TOLL PLAZA SIGNING DETAILS PLAZA AREA SIGN PANELS	SHEET NO.
	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION			



SIGN NAME		TPK-SHIELDI				
QUANTITY		1				
WIDTH		2'-6"				
HEIGHT		3'-0"				
BORDER WIDTH		0.75"				
BORDER RADII		1.5"				
PANEL COLOR		Green				
LEGEND		White				
BORDER		White				
SYMBOL(S)		ANGLE	X	Y	WID	HT
FL_SM		0	6.9	3.1	16.2	15.4
SIGN NUMBER		CLEARANCE EDGE OF LANE	COLUMN SIZE STEEL			AVERAGE LENGTH



TO BE USED FOR TRAILBLAZING AND ON CROSS ROADS

[illegible]

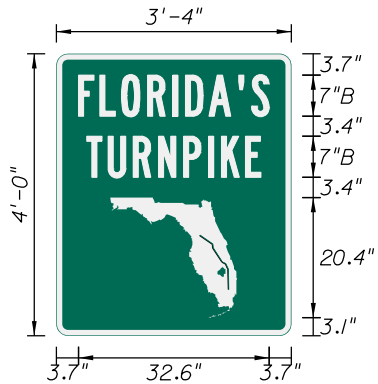
SIGN NAME		TPK-SHIELD3				
QUANTITY		1				
WIDTH		4'-2"				
HEIGHT		5'-0"				
BORDER WIDTH		1.25"				
BORDER RADII		2.5"				
PANEL COLOR		Green				
LEGEND		White				
BORDER		White				
SYMBOL(S)		ANGLE	X	Y	WID	HT
FL_LG		0	11.5	5	27	25.6
SIGN NUMBER	CLEARANCE EDGE OF LANE	COLUMN SIZE STEEL			AVERAGE LENGTH	



## SPECIAL APPLICATIONS

[illegible]

SIGN NAME		TPK-SH/ELD2				
QUANTITY		1				
WIDTH		3'-4"				
HEIGHT		4'-0"				
BORDER WIDTH		1"				
BORDER RADII		2"				
PANEL COLOR		Green				
LEGEND		White				
BORDER		White				
SYMBOL(S)		ANGLE	X	Y	WID	HT
FL_MD		0	9.2	3.1	21.6	20.4
SIGN NUMBER	CLEARANCE EDGE OF LANE	COLUMN SIZE			AVERAGE LENGTH	



TO BE USED ON GUIDE SIGN PANELS AND POST INTERCHANGE SIGNING

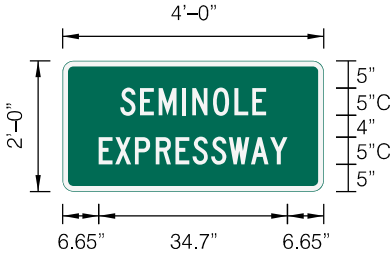
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SIGN NAME					
QUANTITY					
WIDTH					
HEIGHT					
BORDER WIDTH					
BORDER RADII					
PANEL COLOR					
LEGEND					
BORDER					
SIGN(S)	ANGLE	X	Y	WID	HT
SIGN NUMBER	CLEARANCE EDGE OF LANE	COLUMN SIZE			AVERAGE LENGTH

[illegible]

REVISIONS							STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SPECIAL SIGN DETAILS TURNPIKE SHIELD DETAILS	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		112-1

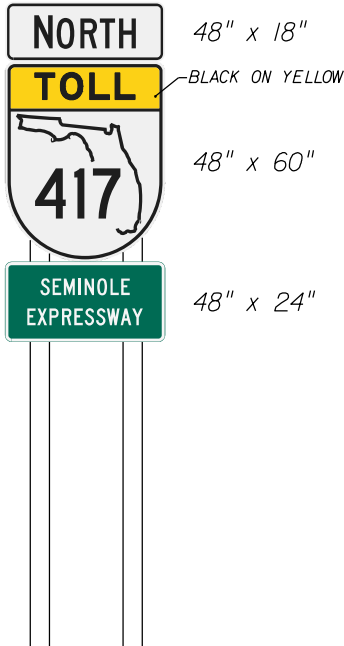
SIGN NAME	TPK-BRAND	QTY	I	SIGN NUMBER	STATION(S)															
PANEL		BORDER																		
WIDTH	4'-0"	WIDTH	1"																	
HEIGHT	2'-0"	RADII	2"																	
LEGEND	White	COLOR	White																	
COLOR	Green																			
SYMBOL(S)	ANGLE	X	Y	WID	HT															
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE <small>Edge Of Lane</small>	COLUMN SIZE		AVERAGE LENGTH															
NO. OF LIGHT FIXTURES		FIXTURE SPACING		PHOTOMETRIC CURVE	WATT	VOLTAGE														
COPY		S	E	M	I	N	O	L	E		L									
SPACE	10.6	3.6	3.4	4.4	1.8	3.8	4	3.3	2.5	10.6	26.8									
COPY		E	X	P	R	E	S	S	W	A	Y		L							
SPACE	6.7	3	3.6	3.8	3.7	3.2	3.4	3.3	4.1	3.5	3.2	6.7	34.7							
COPY																				
SPACE																				
COPY																				
SPACE																				
COPY																				
SPACE																				
COPY																				
SPACE																				



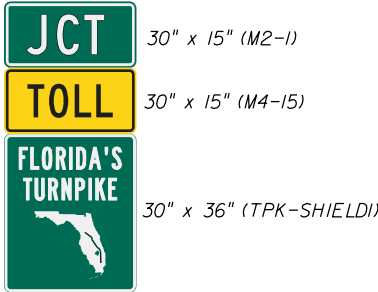
NOTES:

I. TURNPIKE BRANDING SIGN PANEL TO BE USED ON THE FOLLOWING ROADWAYS WHICH ARE PART OF THE TURNPIKE SYSTEM:

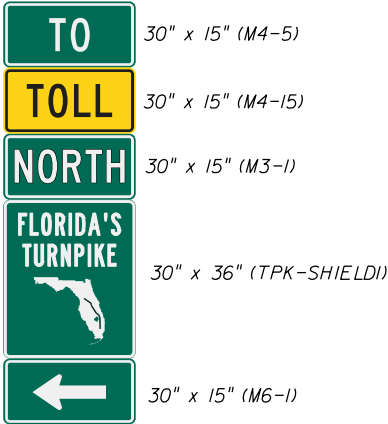
- BEACHLINE EXPRESSWAY, SR 528
- FIRST COAST EXPRESSWAY, SR 23
- POLK PARKWAY, SR 570
- SAWGRASS EXPRESSWAY, SR 869
- SEMINOLE EXPRESSWAY, SR 417
- SUNCOAST PARKWAY, SR 589
- VETERANS EXPRESSWAY, SR 589
- WESTERN BELTWAY, SR 429



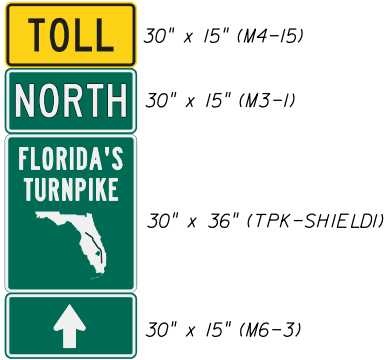
JUNCTION ASSEMBLIES



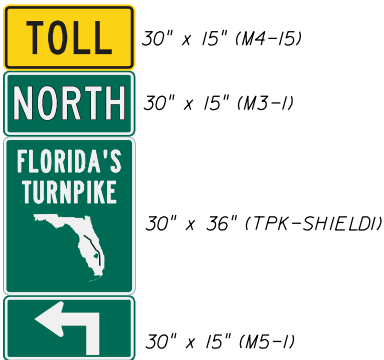
TRAILBLAZER ASSEMBLIES

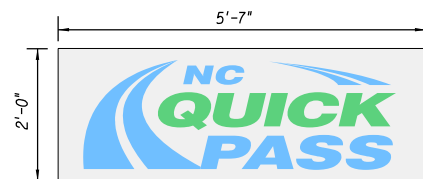
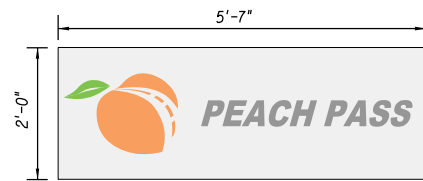
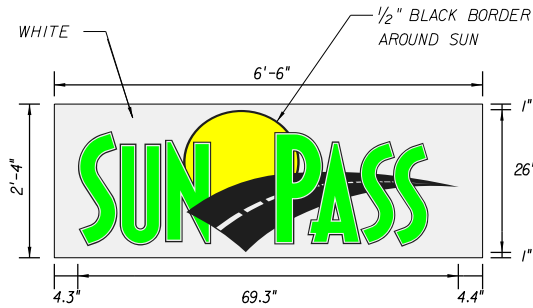
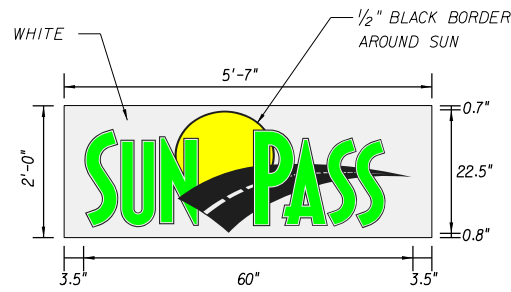


AET-08

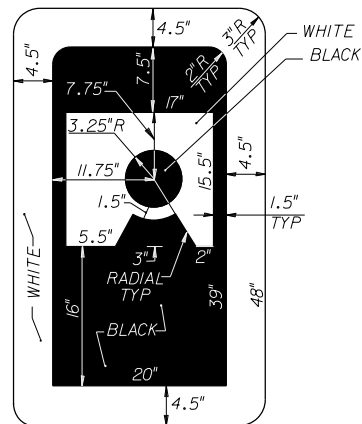


AET-09

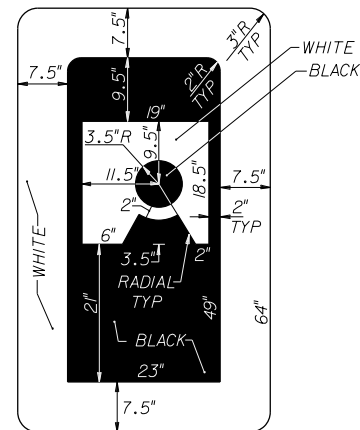




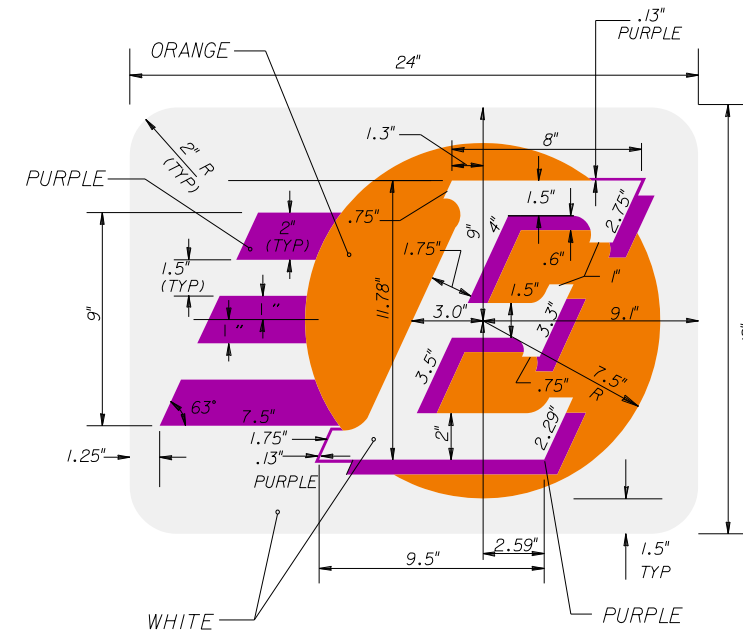
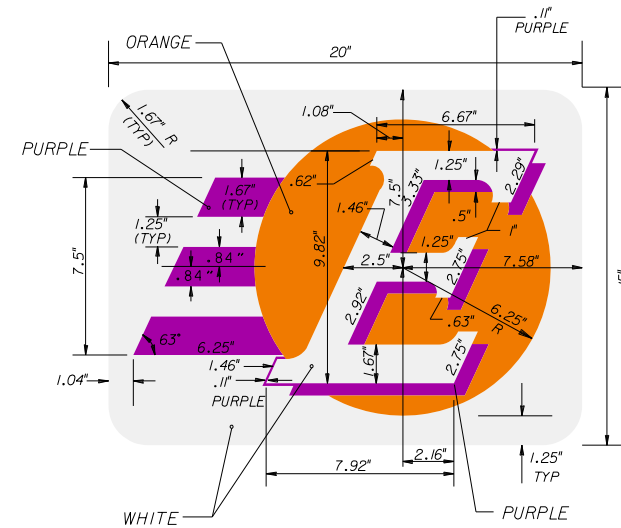
- GENERAL NOTES FOR SUNPASS SHIELD ON MIXED-USE LANES
1. THE DEPARTMENT WILL PROVIDE THE LOGO IN MICROSTATION FORMAT FOR USE IN SIGN FABRICATION.
  2. THE LOGO SHALL NOT BE FABRICATED BY HAND CUT OUT METHOD.
  3. ALL SIGN COLORS SHALL BE STANDARD HIGHWAY COLORS AS SPECIFIED IN THE MUTCD



TOLL ATTENDANT SHIELD  
FOR CANOPY MOUNTED SIGNS  
29" X 48"



TOLL ATTENDANT SHIELD  
FOR APPROACH SIGNS  
38" X 64"



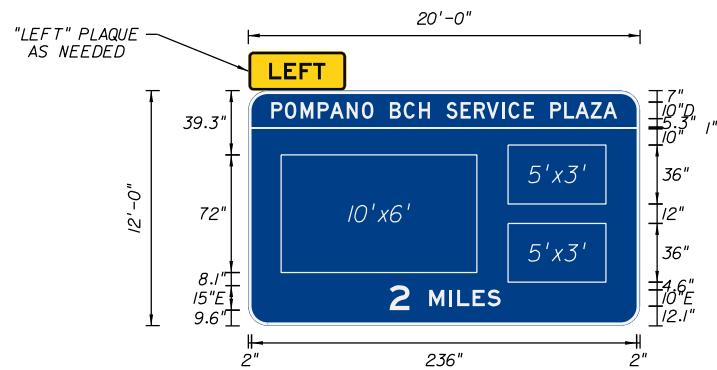
- GENERAL NOTES FOR EPASS SHIELD:
1. EPASS LOGO COLORS:  
WHITE  
PURPLE, 3M VIOLET NO. 893 OR APPROVED EQUAL.  
ORANGE, 3M ORANGE NO. 886 OR APPROVED EQUAL.
  2. NARROW PORTIONS OF SPECIAL DESIGN COPY IN EPASS LOGO SHALL HAVE MINIMUM THICKNES OF 1.00 INCH.
  3. ALL DIMENSIONS ARE IN INCHES.
  4. THIS SHIELD SHALL BE ATTACHED BY RIVETING METHOD ONLY. NO ADHESIVES OR OTHER MEANS ARE ALLOWED.

SDATES

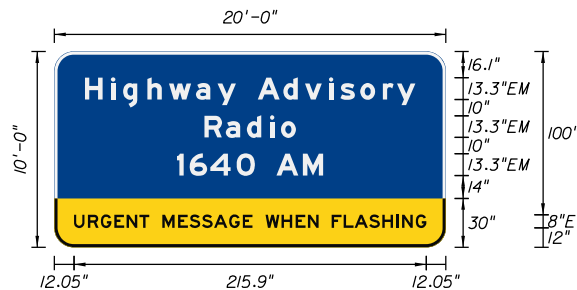
REVISIONS						STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION				
						ROAD NO.	COUNTY	FINANCIAL PROJECT ID	112-3



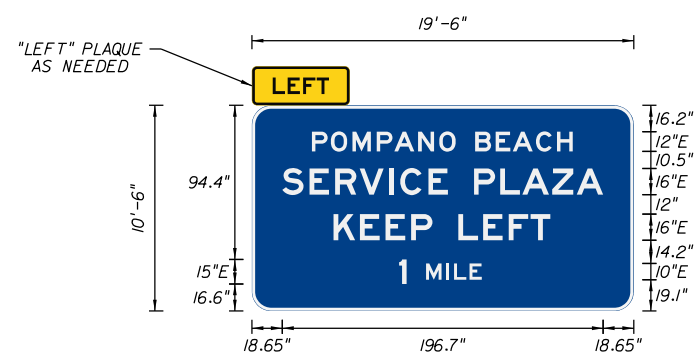
SIGN NAME	TPK-SERVI	QTY	I	SIGN NUMBER	STATION(S)
PANEL		BORDER			
WIDTH	20'-0"	WIDTH	2"		
HEIGHT	12'-0"	RADII	12"		
LEGEND	White	COLOR	White		
COLOR	Blue				
SYMBOL(S)	ANGLE	X	Y	WID	HT
5x3	0	159.2	74.7	60	36
10x6	0	20.1	32.7	120	72
5x3	0	159.2	26.7	60	36
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH



NO. OF LIGHT FIXTURES		FIXTURE SPACING		PHOTOMETRIC CURVE		WATT		VOLTAGE	
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[illegible][illegible]

NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE
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[illegible][illegible]

NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE
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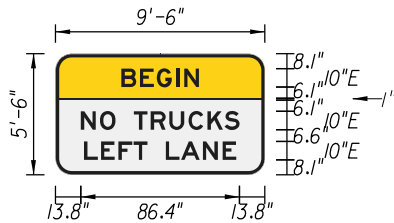
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NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE
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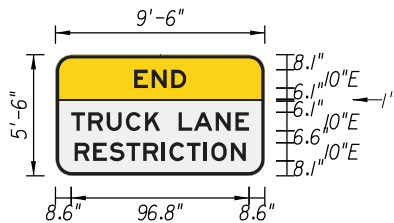
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REVISIONS							STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SPECIAL SIGN DETAILS (SERVICE PLAZA & HAR)	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		113-1

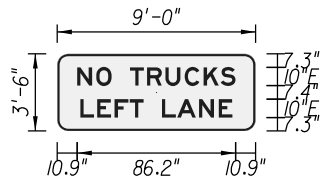
SIGN NAME		TPK-NT1			
QUANTITY		1			
WIDTH		9'-6"			
HEIGHT		5'-6"			
BORDER WIDTH		2"			
BORDER RADII		9"			
PANEL COLOR		Yellow/White			
LEGEND		Black/Black			
BORDER		Black/Black			
SYMBOL(S)	ANGLE	X	Y	WID	HT
SIGN NUMBER	CLEARANCE EDGE OF LANE	COLUMN SIZE STEEL			AVERAGE LENGTH

[illegible]

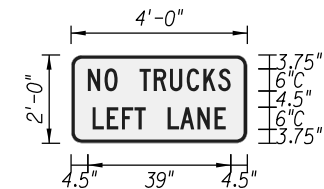
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QUANTITY	1				
WIDTH	9'-6"				
HEIGHT	5'-6"				
BORDER WIDTH	2"				
BORDER RADII	9"				
PANEL COLOR	Yellow/White				
LEGEND	Black/Black				
BORDER	Black/Black				
SYMBOL(S)	ANGLE	X	Y	WID	HT
SIGN NUMBER	CLEARANCE EDGE OF LANE	COLUMN SIZE STEEL		AVERAGE LENGTH	

[illegible]

SIGN NAME		TPK-NT2				
QUANTITY		1				
WIDTH		9'-0"				
HEIGHT		3'-6"				
BORDER WIDTH		1.25"				
BORDER RADII		6"				
PANEL COLOR		White				
LEGEND		Black				
BORDER		Black				
SYMBOL(S)		ANGLE	X	Y	WID	HT

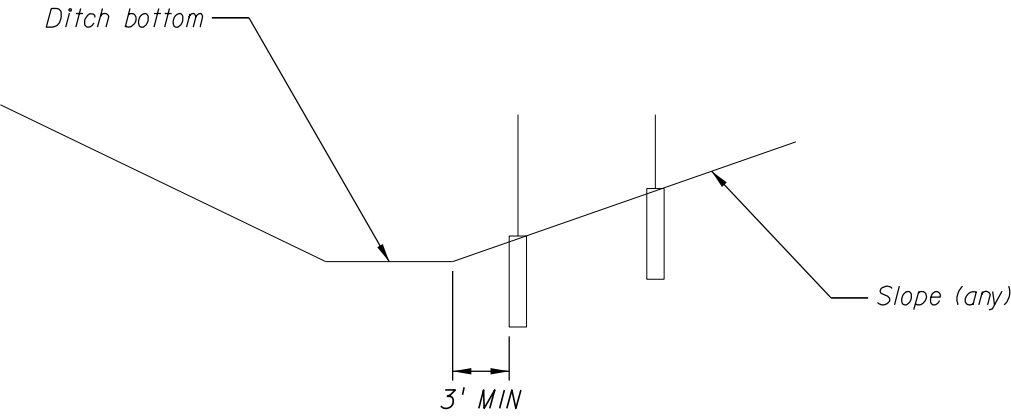
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SIGN NAME		TPK-NT4				
QUANTITY		1				
WIDTH		4'-0"				
HEIGHT		2'-0"				
BORDER WIDTH		1"				
BORDER RADII		3"				
PANEL COLOR		White				
LEGEND		Black				
BORDER		Black				
SYMBOL(S)	ANGLE	X	Y	WID	HT	
SIGN NUMBER	CLEARANCE EDGE OF LANE	COLUMN SIZE			AVERAGE LENGTH	

[illegible]

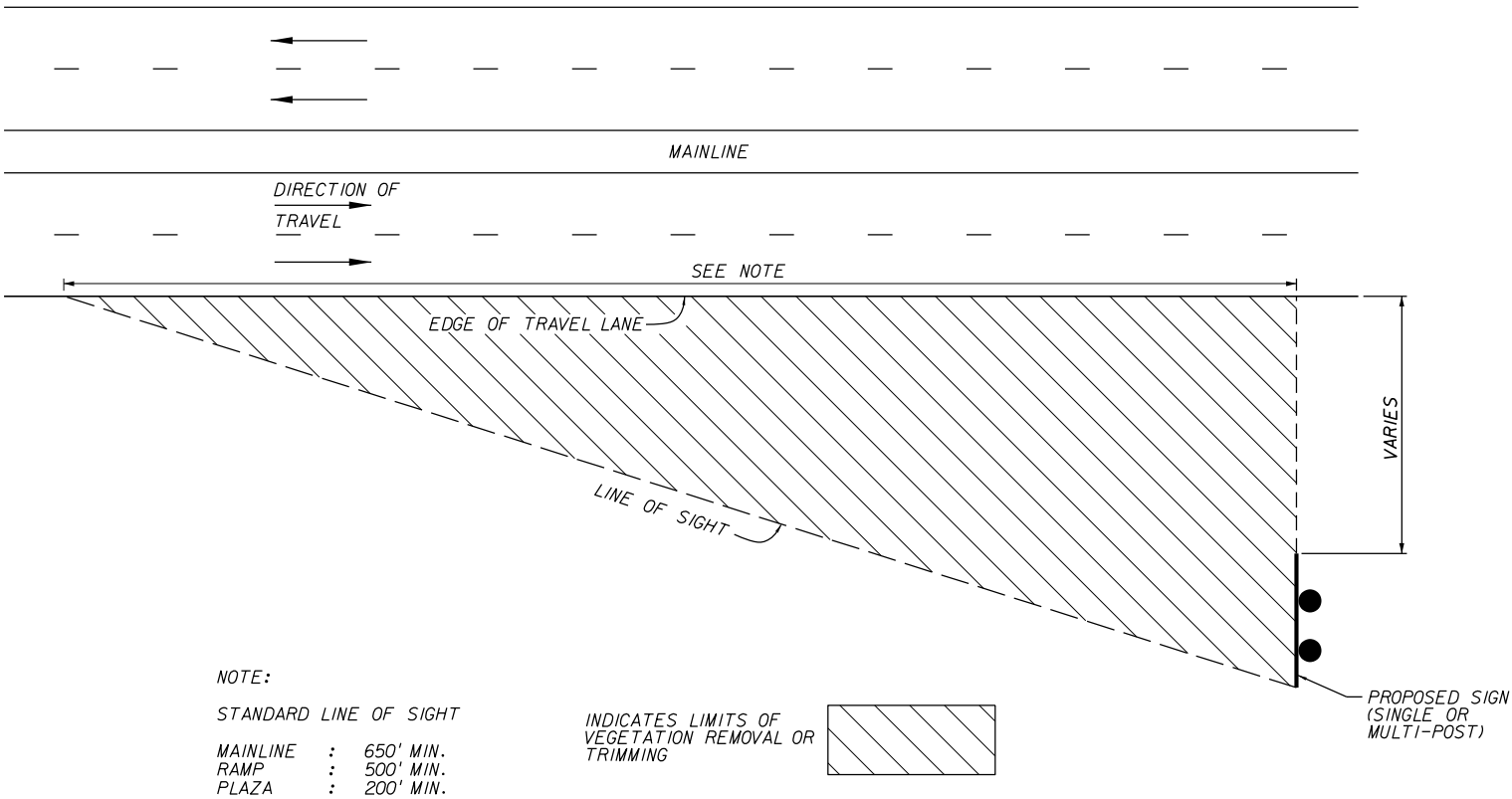
DATE	REVISIONS						<div>STATE OF FLORIDA</div> <div>DEPARTMENT OF TRANSPORTATION</div> <div>ROAD NO. COUNTY FINANCIAL PROJECT ID</div>	<div>SPECIAL SIGN DETAILS</div> <div>(TRUCK LANE RESTRICTION)</div>	SHEET NO.
	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION			113-2





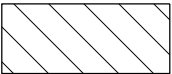
Sign post shall not be placed in any ditch bottom where standing water can occur or seasonal high water runoff can erode post foundation.

Sign posts shall not straddle ditch bottom.



NOTE:  
STANDARD LINE OF SIGHT  
MAINLINE : 650' MIN.  
RAMP : 500' MIN.  
PLAZA : 200' MIN.

INDICATES LIMITS OF  
VEGETATION REMOVAL OR  
TRIMMING



PROPOSED SIGN  
(SINGLE OR  
MULTI-POST)

N.T.S.

\$DATE\$

REVISIONS						STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			MISCELLANEOUS DETAILS SIGN PLACEMENT		SHEET NO.	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION						113-4	
						ROAD NO.	COUNTY	FINANCIAL PROJECT ID				