

Sign Placement and Installation

- 1. Hand dig or vacuum excavate the first four feet of sign foundations.
- 2. 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

- 3. Use countersunk screws when using mechanical fasteners to attach sign panels to windbeams, brackets and splice plates for single, multi-post and overhead signs.
- 4. 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.
- 5. 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.
- 6. 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.
- 7. All signs shall be ASTM D4956-09 Type -XI retroreflective sheeting material.

Overlays

- 8. 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.
- 9. 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.
- 10. 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.
- 11. 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.

Sign Panel Replacement

- 12. 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 Luminaires

- 13. Energize sign luminaires within 24 hours of overhead lighted sign installation.

Pavement Marking and Reflective Pavement Markers

- 14. 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.
- 15. Pavement markings may be adjusted slightly as directed by the Engineer.
- 16. Lay out permanent final striping that leaves no visible marks at time of final acceptance.
- 17. Place a green RPM 4" outside of ground in rumble strip at each whole mile marker.
- 18. 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

- 19. At least 30 calender days prior to any conflicts between anticipated construction work and the Turnpike Service Plaza signs, coordinate with Concessions Management by calling 407-264-3184.

General Service Florida Logo Contract Signs

- 20. 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

- 21. 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.

1/3/2020

R E V I S I O N S						STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PLAN NOTES	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION					
										101-1

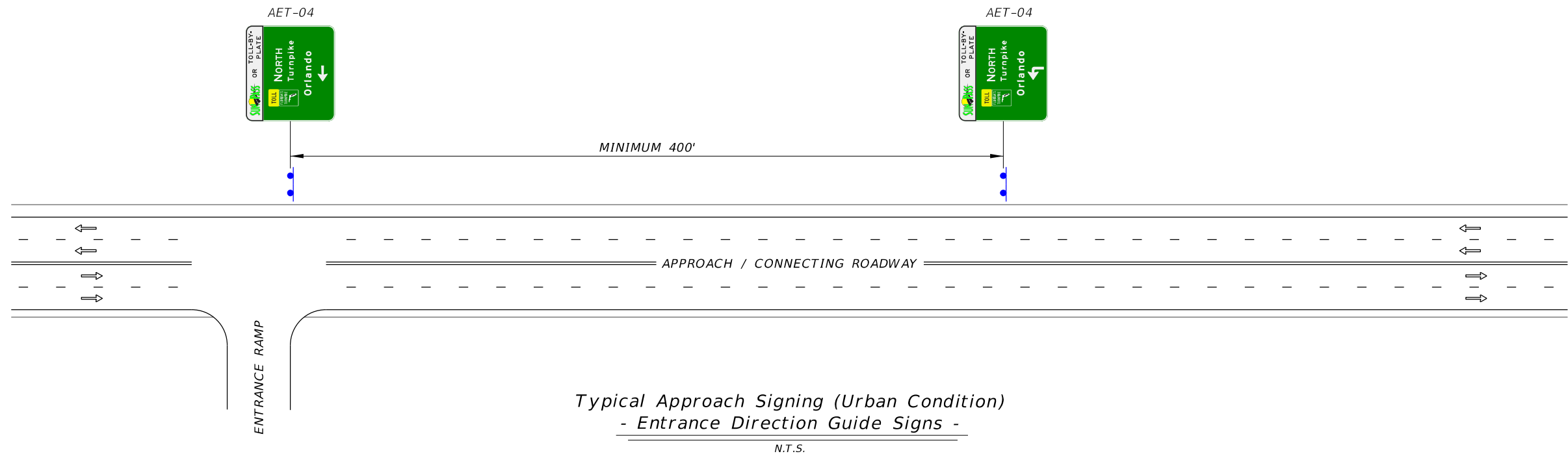
Notes to Designers (not to be included in plan set general notes sheet)

1. *The Engineer will field verify all sign locations to ensure the sign is properly located and appropriate sign spacing is achieved.*
2. *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.*
3. *Notes 3 through 8 on sheet 101-I are in the process of being incorporated into standard specification language. Please coordinate with FTE Specifications and Traffic Design to determine if this note should be added to the plans or if specification language is available prior to plan submittal.*

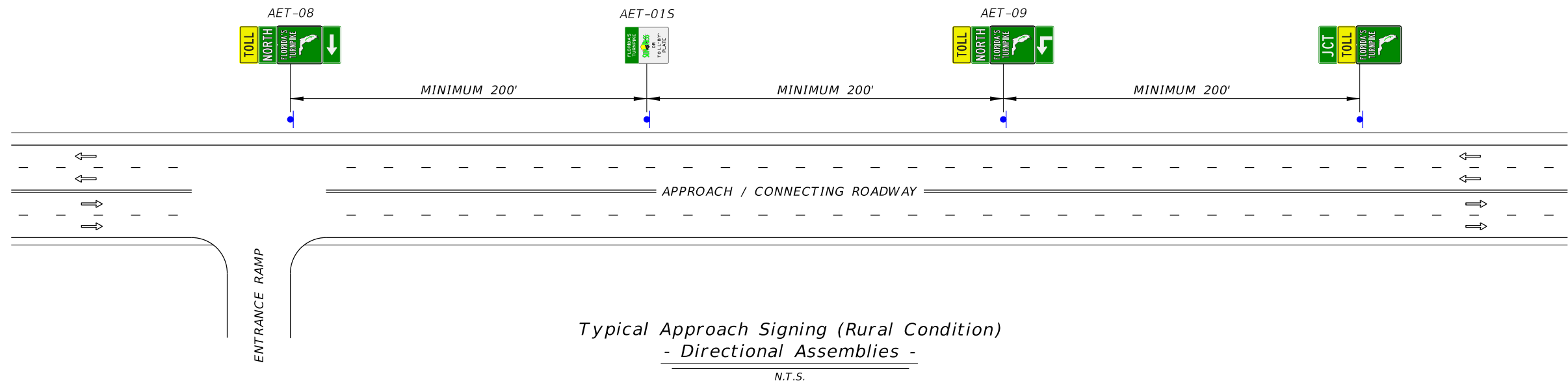
Notes to Designers for Express Lanes

4. Toll Amount sign structures shall be designed to accommodate three (3) destinations. The cross-section sheet should show the outline of a three (3) destination panel and the proposed panel to be installed with the project (if the proposed panel does not have three (3) destinations).
5. Toll amount sign closest to an ingress shall be on a span structure.
6. Toll Amount embedded front access DMS shall be full color, 20mm pixel pitch, be able to display seven (7) characters, and have 18" character height. Embedded DMS shall be mounted per sign manufacturer requirements.
7. Express Lane Status one-line front access DMS shall be full color, 20mm pixel pitch, be able to display 18 characters per line, and have 18" character height.
8. The express lane signs shall be overhead and over the corresponding lanes. The Advance Signing Layout diagrams are a guide for placement. Sign structures can be located on either side of the road or on a span. Roadway conditions determine the type of structure.
9. For direct connect access into the express lanes, the sequence can be adjusted to have one (1) toll amount sign, with a lane status DMS. The lane status DMS will serve as a backup for the provided toll amount. This DMS shall have separate power and separate communication.
10. For more than one (1) Express Lane, guide signs shall read EXPRESS LANES.

REVISIONS						STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			NOTES TO DESIGNERS	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		101-2



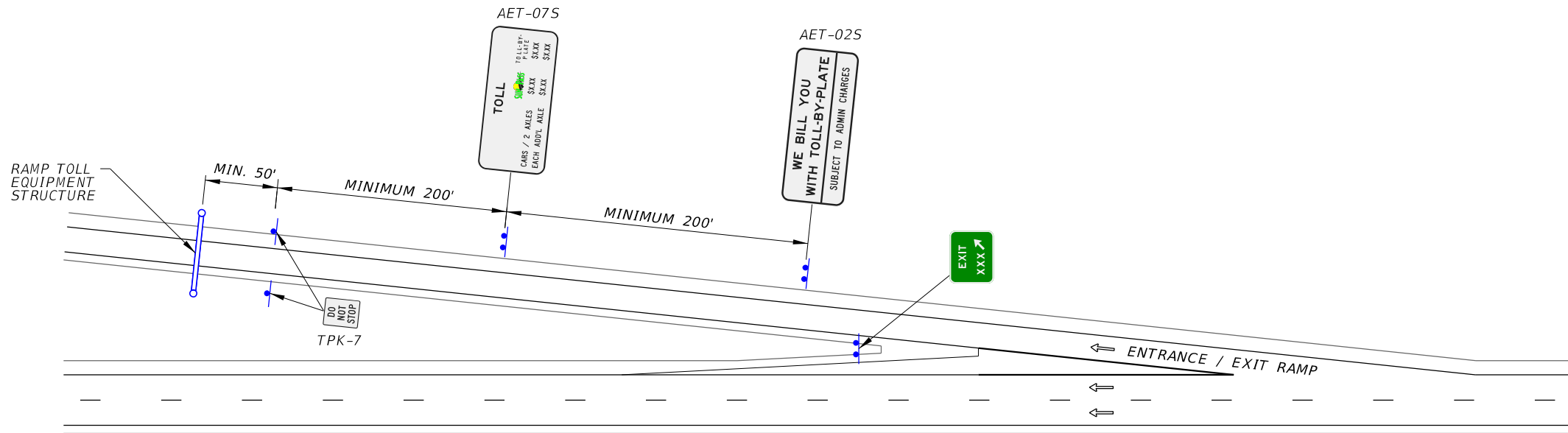
Typical Approach Signing (Urban Condition)
- Entrance Direction Guide Signs -
N.T.S.



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.

REVISIONS							STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ALL ELECTRONIC TOLLING CONNECTING ROADWAYS TYPICAL SIGNING LAYOUT		SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION							
							ROAD NO.	COUNTY	FINANCIAL PROJECT ID			102-1

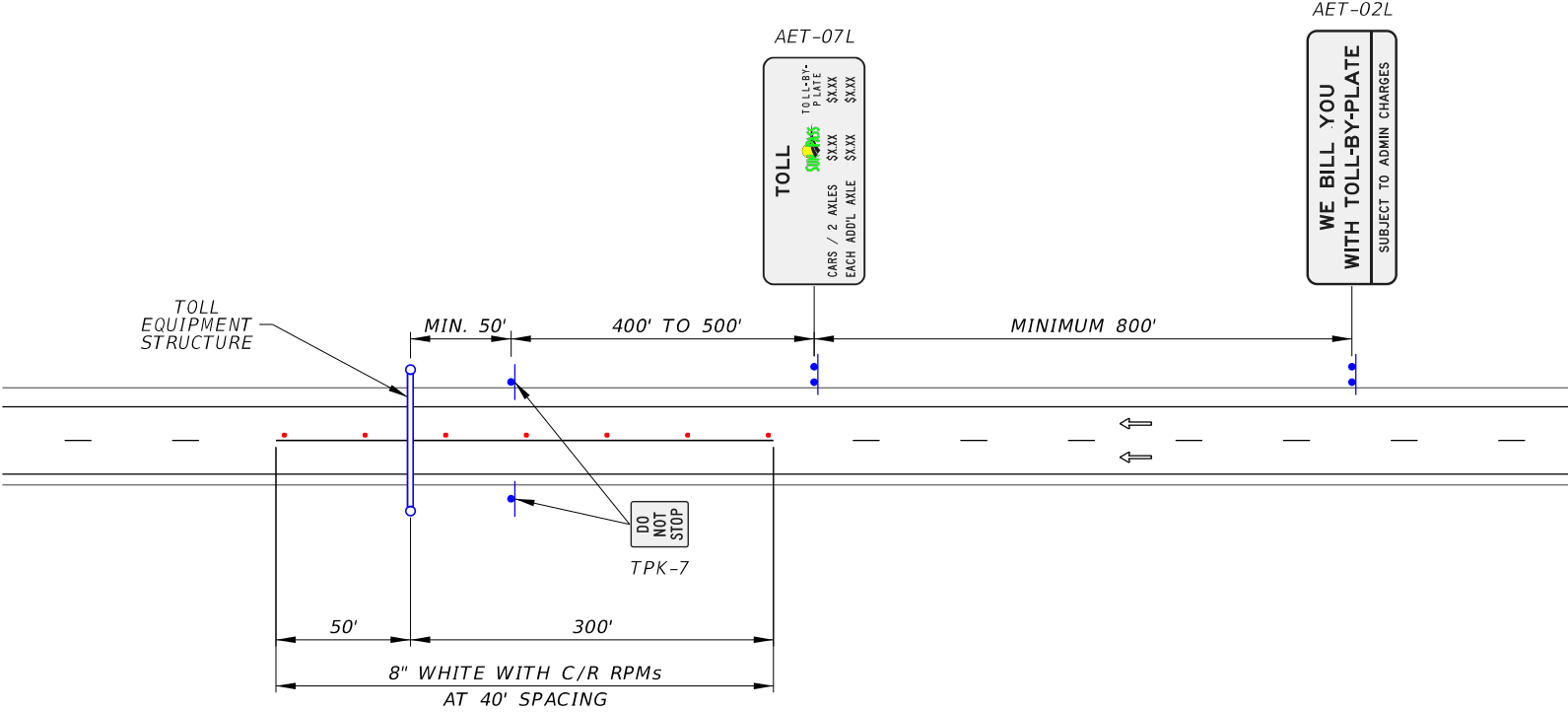


Typical Entrance / Exit Ramp Signing
With Toll Equipment Structure
N.T.S.

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.
- 4. STRIPING FOR MULTI-LANE RAMP TOLL SITE MUST CONFORM TO STRIPING SHOWN ON SHEET NO. 102-3.

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



Mainline Toll Equipment Structure
N.T.S.

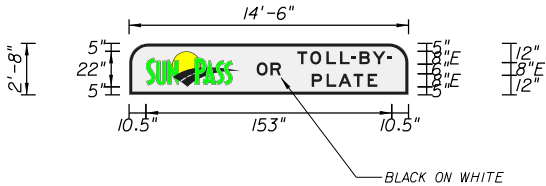
NOTES:

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-07L AND AET-02L SIGNS MAY BE BEFORE OR AFTER THE GANTRY, IF FIELD CONSTRAINTS WARRANT IT.

4/18/2020

REVISIONS						STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	ALL ELECTRONIC TOLLING MAINLINE TOLL TYPICAL SIGNING LAYOUT			SHEET NO. 102-3
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION					

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	



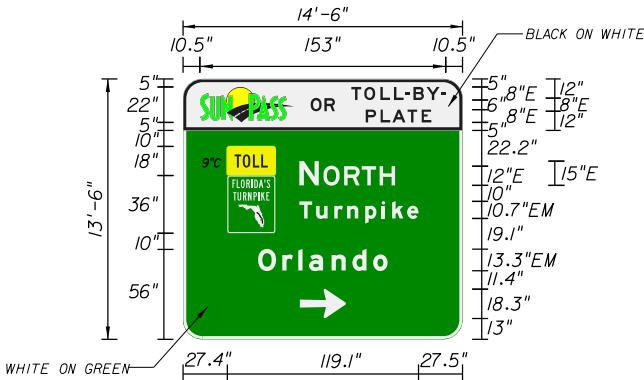
NOTES:

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																				

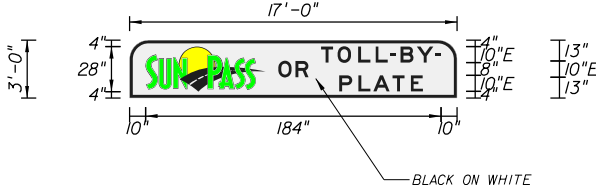
SIGN NAME		AET-04		QTY	I	SIGN NUMBER		STATION(S)	
PANEL			BORDER						
WIDTH	14'-6"		WIDTH	2"					
HEIGHT	13'-6"		RADII	12"					
LEGEND	Black/White		COLOR	Black/White					
COLOR	White/Green								
SYMBOL(S)		ANGLE		X	Y	WID		HT	
SP-LOGO		0		10.5	135	58.7		22	
M4-15_TPK		0		27.4	102	30		18	
TP_SM		0	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



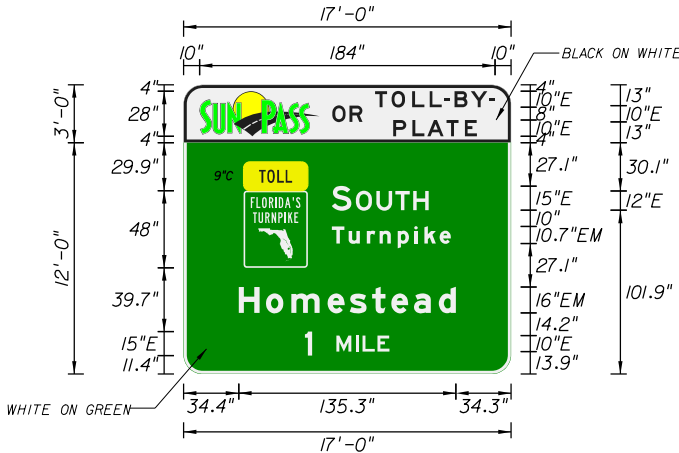
NOTES:

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

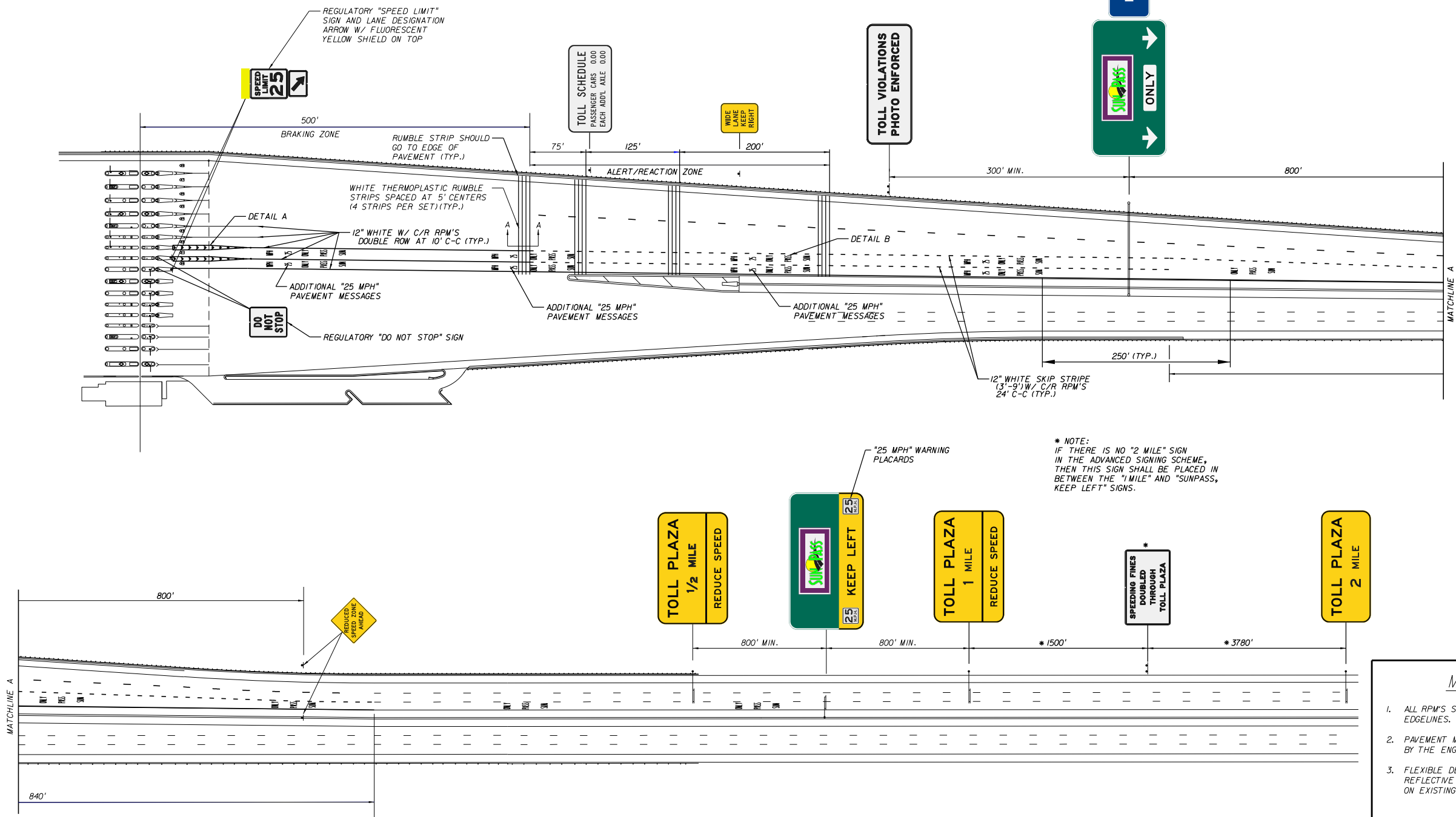
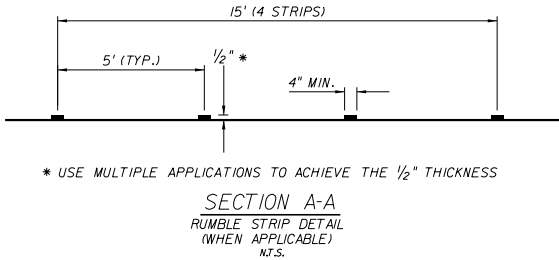
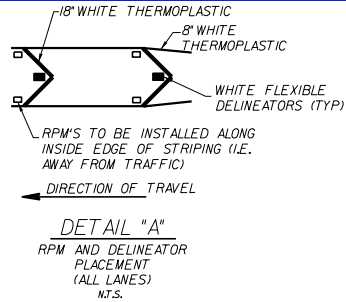
SIGN NAME		AET-06		QTY	I	SIGN NUMBER		STATION(S)			
PANEL			BORDER								
WIDTH		17'-0"		WIDTH		2"					
HEIGHT		15'-0"		RADII		12"					
LEGEND		Black/White		COLOR		Black/White					
COLOR		White/Green									
SYMBOL(S)		ANGLE		X		Y		WID		HT	
SP-LOGO		0		10		148		74.7		28	
TP_MD		0		37		66.1		40		48	
M4-I5_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							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		102-5



- MAIN LINE PLAZA NOTES:**
- ALL RPM'S SHALL BE PLACED ON THE ISLAND SIDE OF THE ADJACENT EDGELINES.
 - PAVEMENT MARKINGS MAY BE ADJUSTED SLIGHTLY AS DIRECTED BY THE ENGINEER.
 - 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

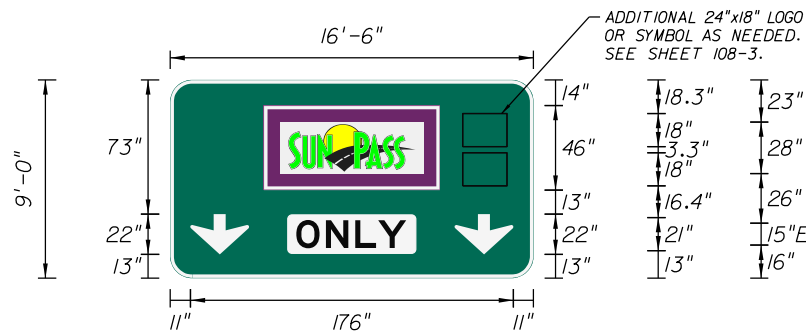
**DUAL DEDICATED MAINLINE
TOLL PLAZA SIGNING AND
PAVEMENT MARKING LAYOUT**

SHEET NO.

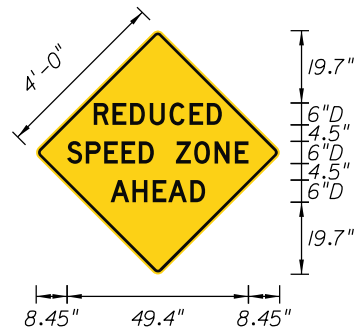
104-1

1/3/2020

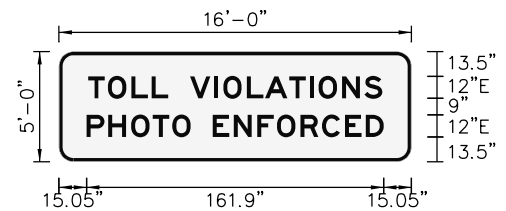
SIGN NAME		TPK-AS3	QTY	1	SIGN NUMBER	STATION(S)
PANEL		BORDER				
WIDTH	16'-6"	WIDTH	2"			
HEIGHT	9'-0"	RADII	12"			
LEGEND	White/Black	COLOR	White			
COLOR	Green					
SYMBOL(S)	ANGLE	X	Y	WID	HT	
OtherETC	0	159.5	71.7	24	18	
SunPassLarge	0	60	57	78	28	
OtherETC	0	159.5	50.3	24	18	
LogoPanelLarge	0	51	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	



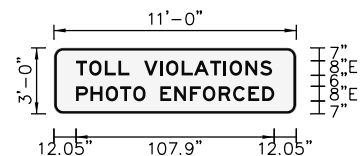
NO. OF LIGHT FIXTURES		FIXTURE SPACING		PHOTOMETRIC CURVE		WATT		VOLTAGE	
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[illegible][illegible]

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

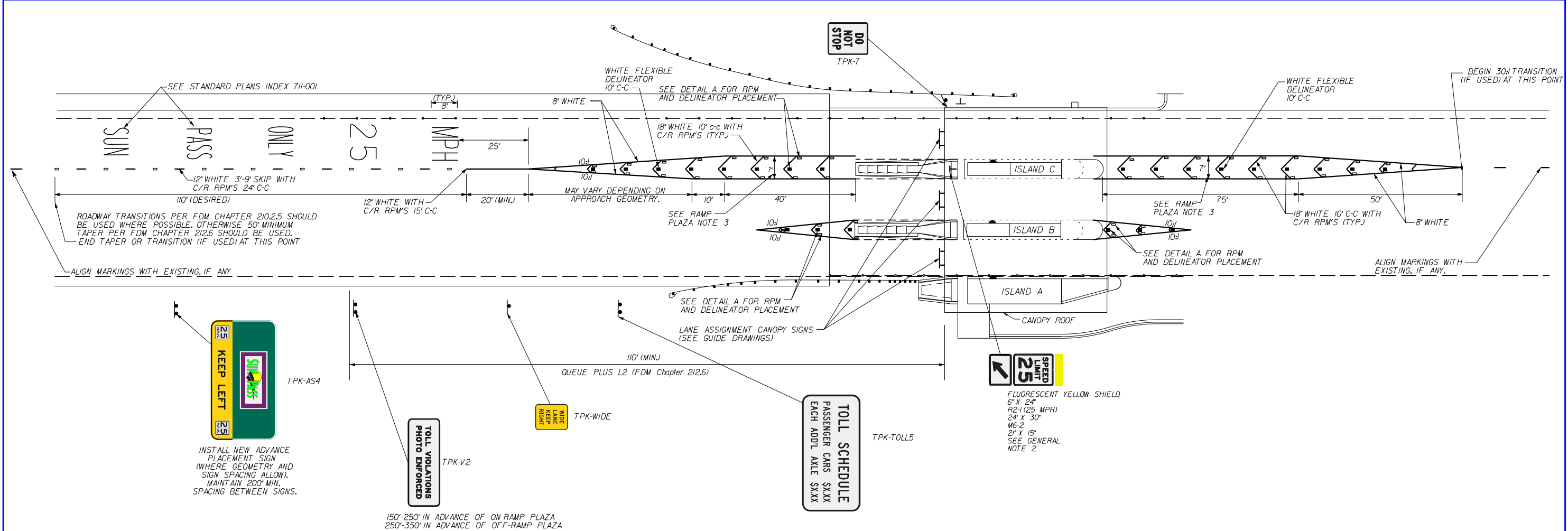
NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE
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[illegible][illegible]

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

REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	TOLL PLAZA SIGNING DETAILS MAINLINE APPROACH SIGN PANELS			SHEET NO. 104-3
DATE	DESCRIPTION	DATE	DESCRIPTION					

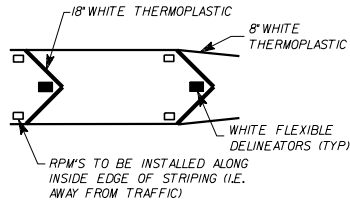


GENERAL NOTES:

- 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/traffloguidedrawings.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.



DETAIL "A"
RPM AND DELINEATOR
PLACEMENT
(ALL LANES)
N.T.S.

N.T.S.

REVISIONS						STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			RAMP TOLL PLAZA TYPICAL SUNPASS SIGNING AND PAVEMENT MARKINGS	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION					
						ROAD NO.	COUNTY	FINANCIAL PROJECT ID		104-6

SIGN NAME	TPK-AS4	QTY	I	SIGN NUMBER	STATION(S)
PANEL	BORDER				
WIDTH	12'-6"	WIDTH	2"		
HEIGHT	9'-0"	RADII	12"		
LEGEND	/Black	COLOR	White/Black		
COLOR	Green/Yellow				
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
LegoPanelSmall	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.

12'-6"

9'-0"

16"

42"

14"

36"

20"

15"

4"

15"

25"

24"

29"

12"E

13"

59"

32.5"

110.3"

7.3"

ADDITIONAL 24"x18" LOGO OR SYMBOL AS NEEDED. SEE SHEET 108-3.

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-TOLLB	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

13'-6"

8'-0"

10.8"

15"E

15.5"

12"E

11.8"

10.7" 2"

10.1"E

18.2"

9.65"

142.7"

9.65"

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

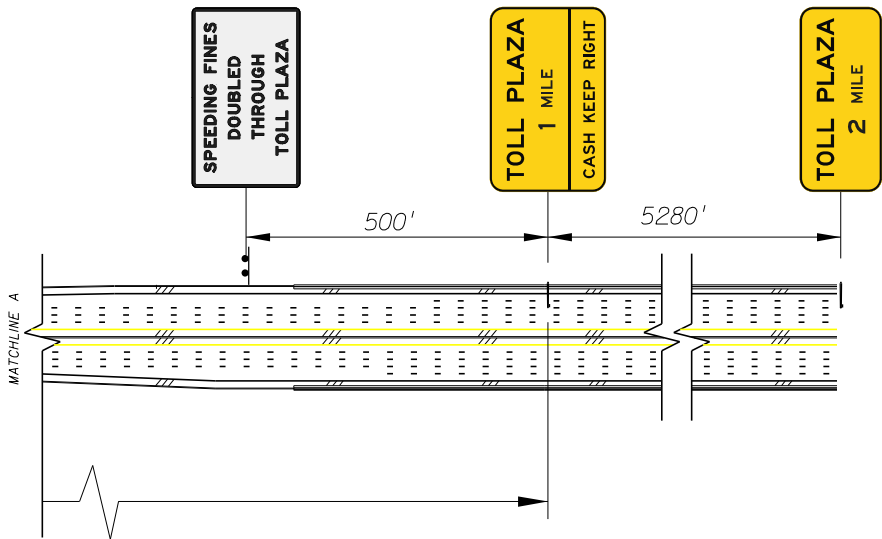
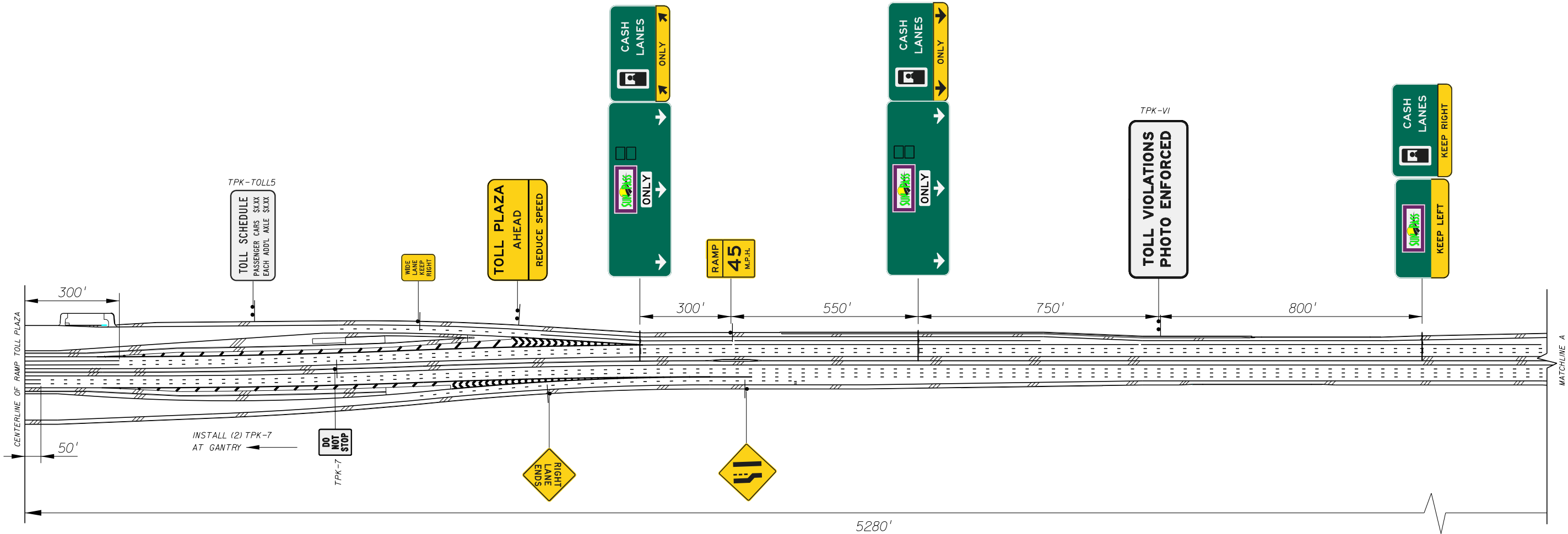
COPY																				
SPACE																				
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1/3/2020

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

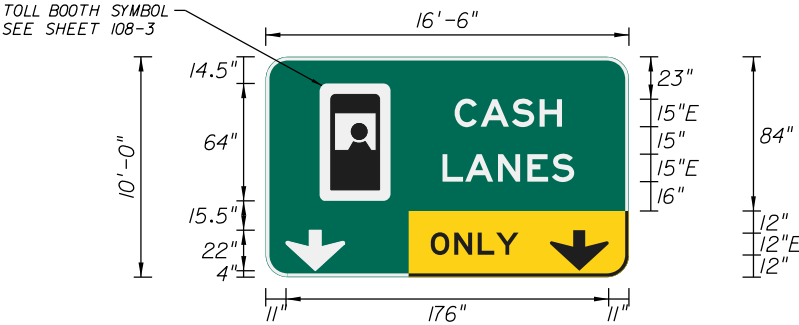
		STATE OF FLORIDA	
		DEPARTMENT OF TRANSPORTATION	
		ROAD NO.	COUNTY
		FINANCIAL PROJECT ID	

ORT MAINLINE TOLL PLAZA SIGNING LAYOUT	SHEET NO.
	105-1



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	White/Black	COLOR	White/Black		
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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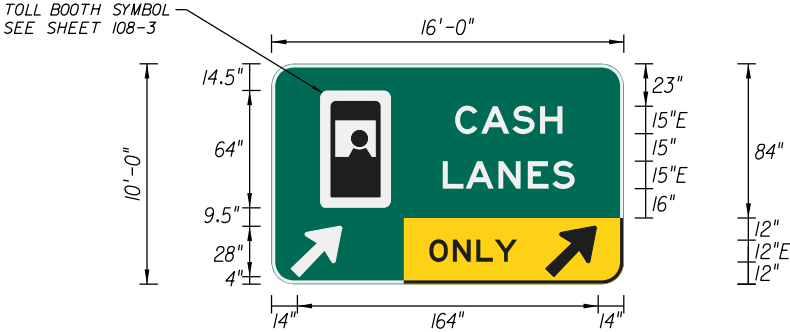
COPY		C	A	S	H		L												
SPACE	103	14.2	16.9	15.1	12.1	36.7	58.3												
COPY		L	A	N	E	S		L											
SPACE	96.2	12.4	17.9	16	13.3	12.2	30	71.8											
COPY		O	N	L	Y		L												
SPACE	90	12.8	12.8	10	12.2	60.2	47.8												
COPY																			
SPACE																			
COPY																			
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	White/Black	COLOR	White/Black		
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
-----------------------	-----------------	-------------------	------	---------

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																			
SPACE																			
COPY																			
SPACE																			
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SPACE																			
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SPACE																			

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

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

ORT SIGNING DETAILS
MAINLINE
SIGN PANELS

SHEET NO.

105-3

1/3/2020

[illegible]

Diagram illustrating the dimensions and mounting options for the SunPass transponder.

Transponder Dimensions:

- Overall Width: 14'-0"
- Overall Height: 6'-0"
- Mounting Bracket Width: 43.5" (left), 81" (center), 43.5" (right)
- Mounting Bracket Height: 6" (top), 40" (center), 4.5" (bottom), 15" (bottom), 6.5" (bottom)

Mounting Options:

- Option 1: 14.5" (top), 22.9" (center), 15.6" (bottom), 10"E (bottom), 9" (bottom)
- Option 2: 14.5" (top), 22.9" (center), 15.6" (bottom), 10"E (bottom), 9" (bottom)

Additional Information:

- ADDITIONAL 24"x18" LOGO OR SYMBOL AS NEEDED. SEE SHEET 108-3.

COPY		O	N	L	Y	
SPACE	64	10.7	10.7	8.3	10.2	64.1
COPY						
SPACE						
COPY						
SPACE						
COPY						
SPACE						
COPY						
SPACE						
COPY						
SPACE						

[illegible][illegible]

Diagram of a SunPass transponder showing dimensions and callout:

- Overall width: 12'-0"
- Overall height: 5'-0"
- Transponder width: 41.6"
- Transponder height: 90.6"
- Transponder offset from left: 11.8"
- Transponder offset from top: 5.5"
- Transponder offset from bottom: 5.5"
- Transponder offset from right: 11.9"
- Transponder offset from left edge of transponder: 4"
- Transponder offset from right edge of transponder: 15"
- Transponder offset from top edge of transponder: 30"
- Transponder offset from bottom edge of transponder: 10"E
- Transponder offset from left edge of transponder: 18"
- Transponder offset from right edge of transponder: 13"
- Transponder offset from top edge of transponder: 17.2"
- Transponder offset from bottom edge of transponder: 15"
- Transponder offset from left edge of transponder: 32"

ADDITIONAL 24"x18" LOGO OR SYMBOL AS NEEDED. SEE SHEET 108-3.

COPY		O	N	L	Y	
SPACE	52.1	10.7	10.7	8.3	10.2	52
COPY						
SPACE						
COPY						
SPACE						
COPY						
SPACE						
COPY						
SPACE						
COPY						
SPACE						

[illegible][illegible]

Diagram illustrating the dimensions and mounting details for a rectangular sign. The sign is purple with a white center area containing a logo and the word "ONLY".

Overall Dimensions:

- Length: 14'-0"
- Height: 5'-0"

Mounting Dimensions (from left edge):

- 53.6" (to the start of the sign body)
- 96.6" (to the end of the sign body)
- 17.8" (to the end of the mounting bracket)

Sign Body Dimensions (from top edge):

- 5.5" (to the start of the sign body)
- 30" (to the end of the sign body)
- 4" (to the start of the sign body)
- 15" (to the end of the sign body)
- 5.5" (to the end of the sign body)

Mounting Bracket Dimensions (from top edge):

- 11.9" (to the start of the mounting bracket)
- 17.2" (to the end of the mounting bracket)
- 12.9" (to the start of the mounting bracket)
- 10"E (to the end of the mounting bracket)
- 8" (to the end of the mounting bracket)

Additional Notes:

- ADDITIONAL 24"x18" LOGO OR SYMBOL AS NEEDED. SEE SHEET 108-3.

COPY		O	N	L	Y	
SPACE	64.1	10.7	10.7	8.3	10.2	64
COPY						
SPACE						
COPY						
SPACE						
COPY						
SPACE						
COPY						
SPACE						
COPY						
SPACE						

[illegible][illegible][illegible]

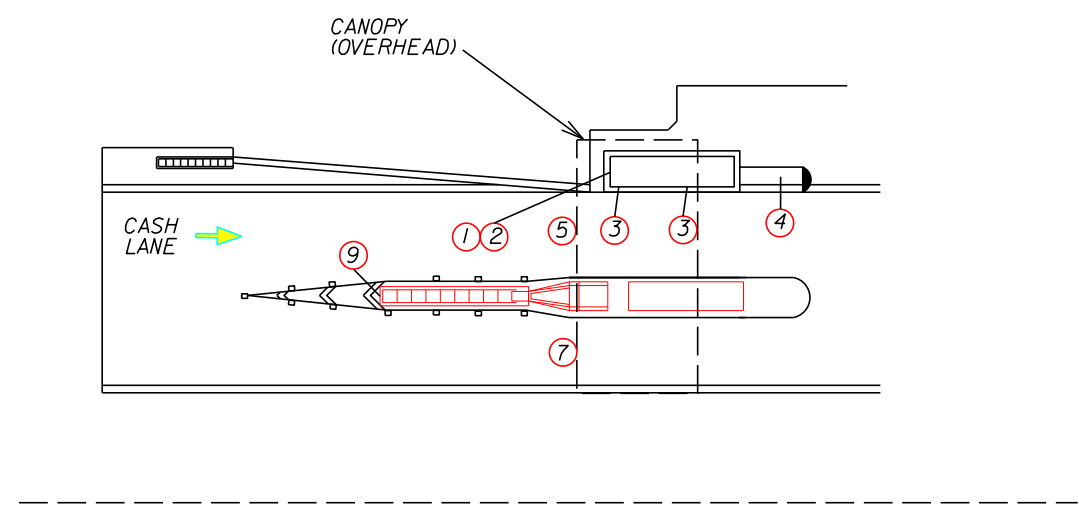
COPY		O	N	L	Y	
SPACE	6	6.4	6.4	5	6.1	6
COPY						
SPACE						
COPY						
SPACE						
COPY						
SPACE						
COPY						
SPACE						
COPY						
SPACE						

[illegible]

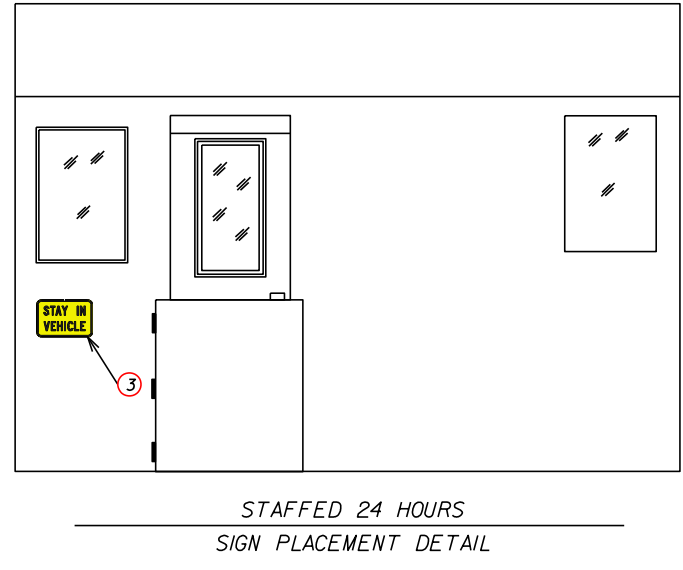
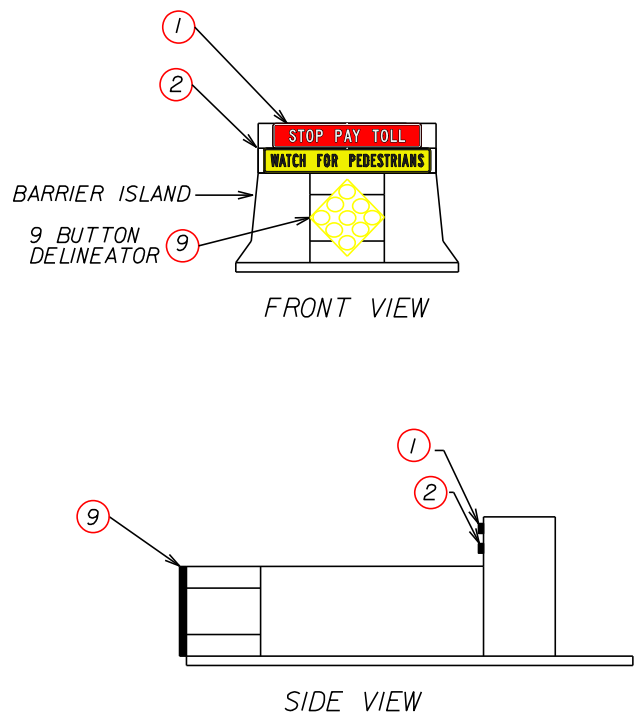
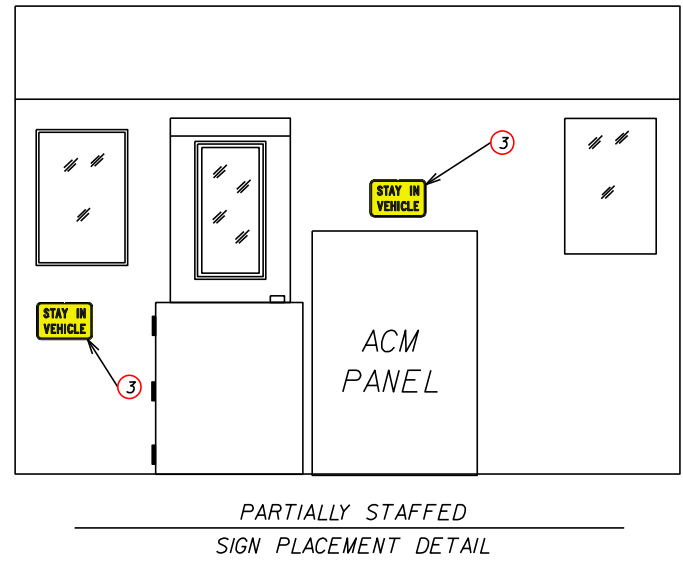
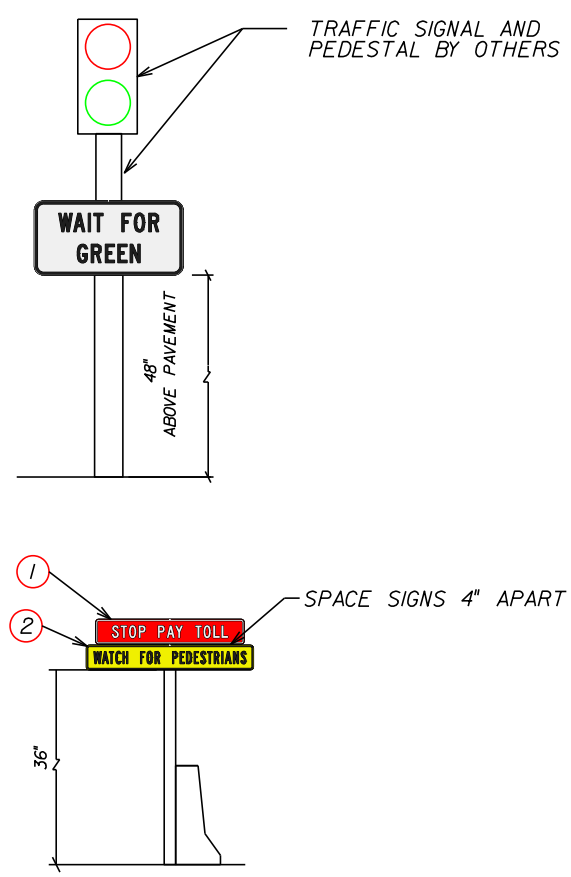
R E V I S I O N S			
DATE	DESCRIPTION	DATE	DESCRIPTION

	<p align="center">STATE OF FLORIDA</p> <p align="center">DEPARTMENT OF TRANSPORTATION</p>		
	ROAD NO.	COUNTY	FINANCIAL PROJECT ID

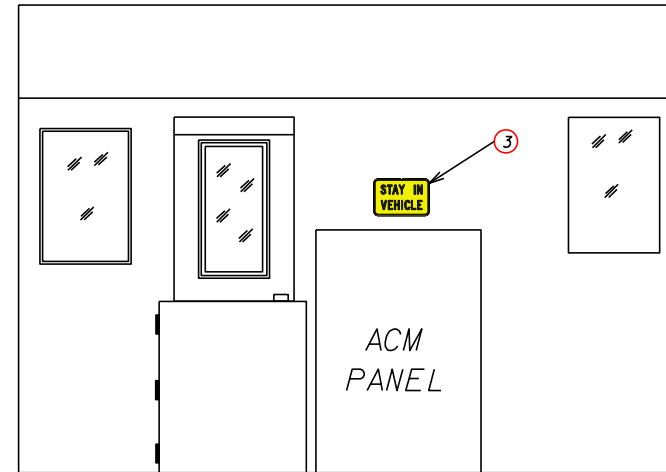
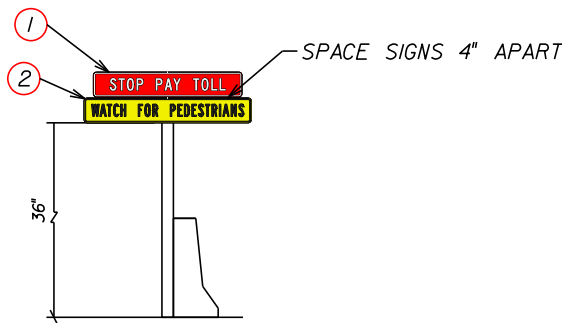
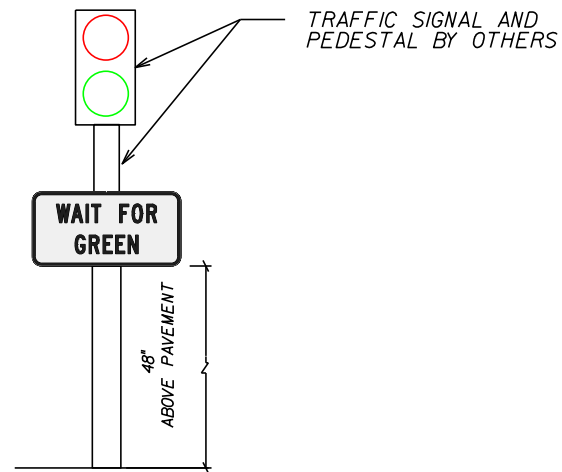
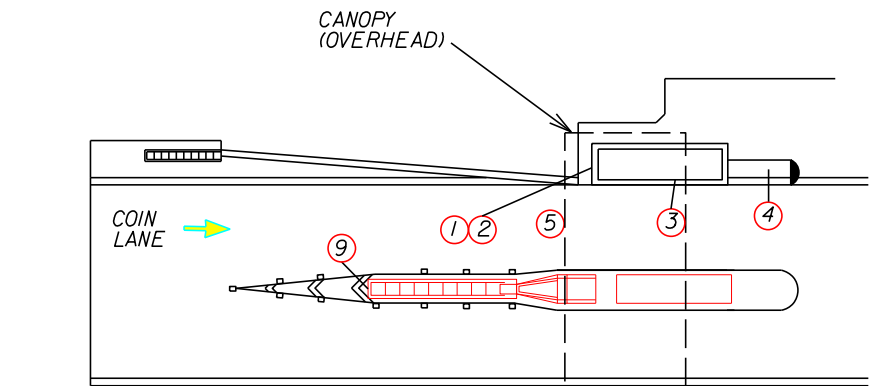
<p><i>TOLL PLAZA SIGNING DETAILS</i></p> <p><i>MAINLINE CANOPY MOUNTED</i></p> <p><i>SIGN PANELS</i></p>	<p>SHEET NO.</p>
	<p>106-3</p>



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



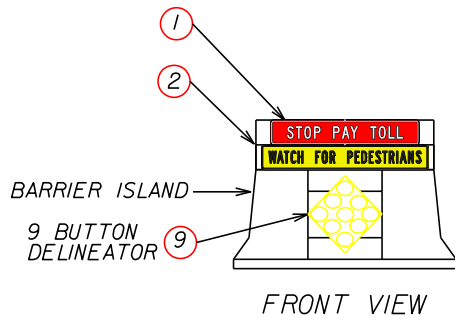
N.T.S.



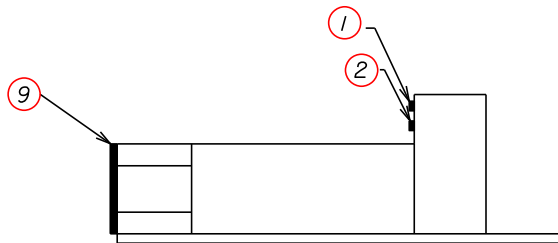
UNSTAFFED COIN LANE
SIGN PLACEMENT DETAIL

TOLL PLAZA SIGN SYMBOL LEGEND

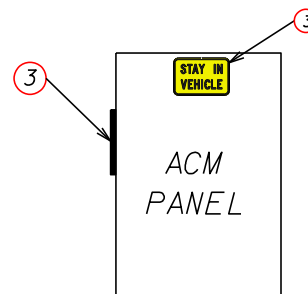
	LEGEND OR DESCRIPTION	REMARKS
1	STOP PAY TOLL	MOUNT ON ISLAND GATORHEAD
2	WATCH FOR PEDESTRIANS	MOUNT ON ISLAND GATORHEAD
3	STAY IN VEHICLE	MOUNT ON TOLL BOOTH OR ACM
4*	WAIT FOR GREEN	MOUNT ON TOLL BOOTH
5	LANE DESIGNATION SIGN	MOUNT ON CANOPY
9	9 BUTTON DELINEATOR	MOUNT ON BLUNT END OF CONCRETE ISLAND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



FRONT VIEW



SIDE VIEW



UNSTAFFED COIN LANE - NO BOOTH
SIGN PLACEMENT DETAIL

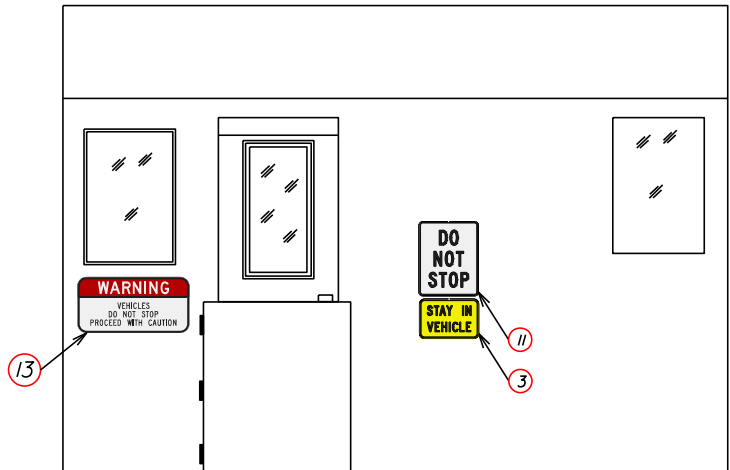
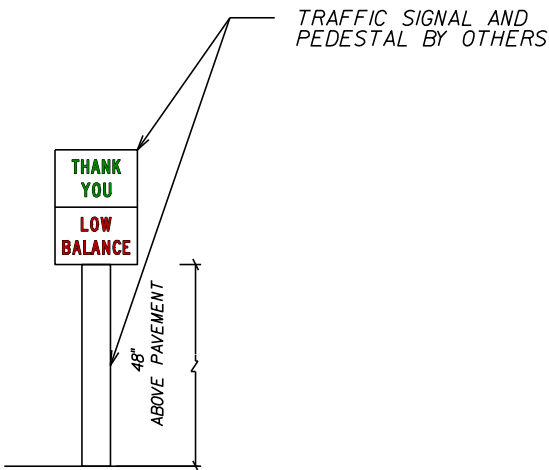
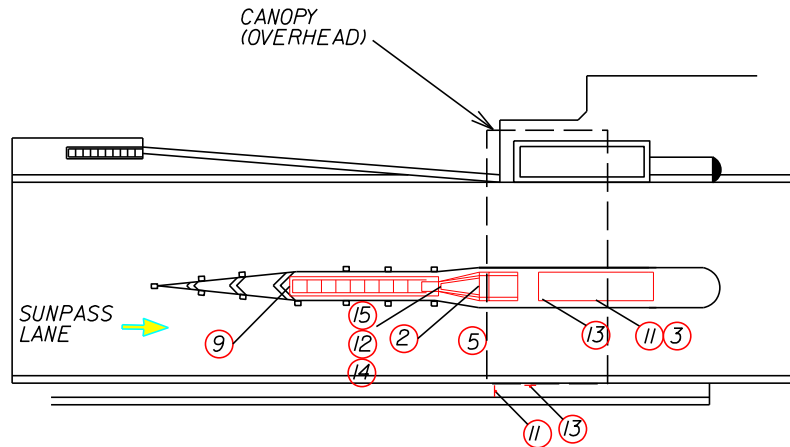
N.T.S.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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

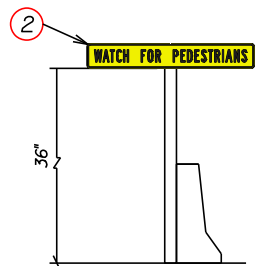
COIN LANE TOLL PLAZA SIGNING LAYOUT

SHEET NO.
107-2

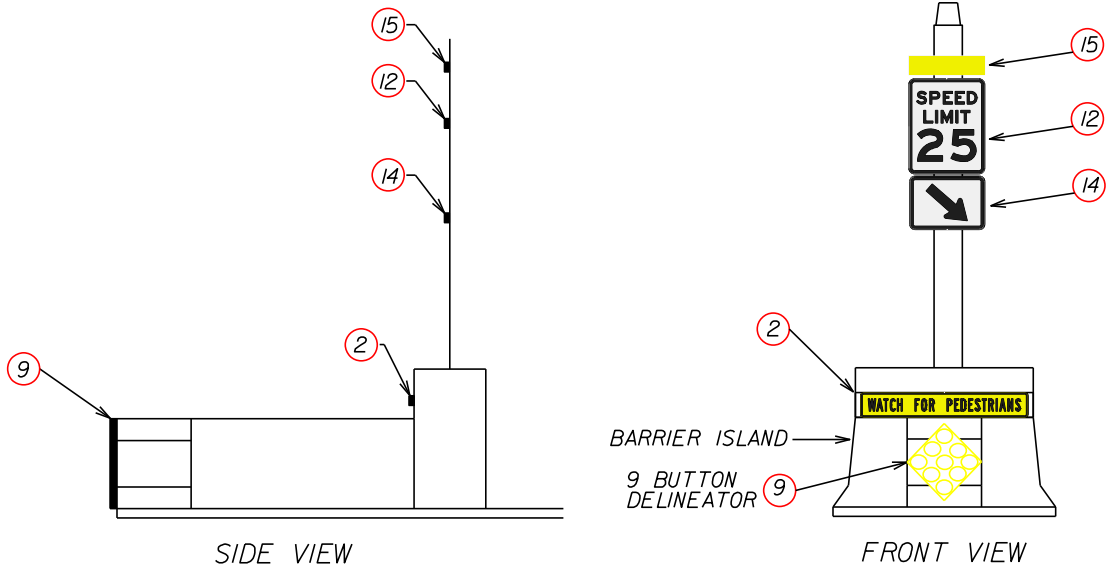


TOLL PLAZA SIGN SYMBOL LEGEND

	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
11	DO NOT STOP	TOLL BOOTH OR GROUND MOUNT (IF NO BOOTH)
12	25 MPH	MOUNT ON ISLAND GATORHEAD
13	WARNING VEHICLES DO NOT STOP PROCEED WITH CAUTION	GROUND MOUNT ACROSS FROM WALKWAYS ON EACH SIDE AT A HEIGHT OF 5'0"
14	ARROW (M6-2)	MOUNT ON ISLAND GATOR HEAD
15	YELLOW PANEL	MOUNT ON ISLAND GATOR HEAD



SUNPASS LANE AND BOOTH
SIGN PLACEMENT DETAIL



SIDE VIEW

FRONT VIEW

N.T.S.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

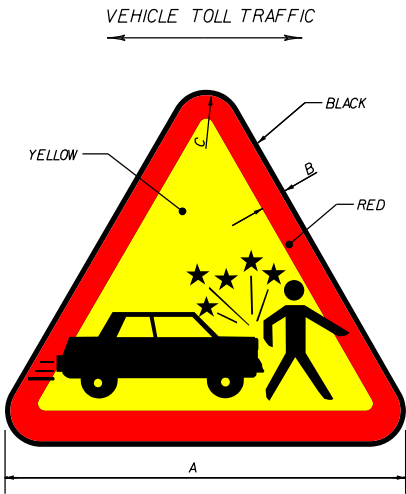
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID

SUNPASS LANE
TOLL PLAZA
SIGNING LAYOUT

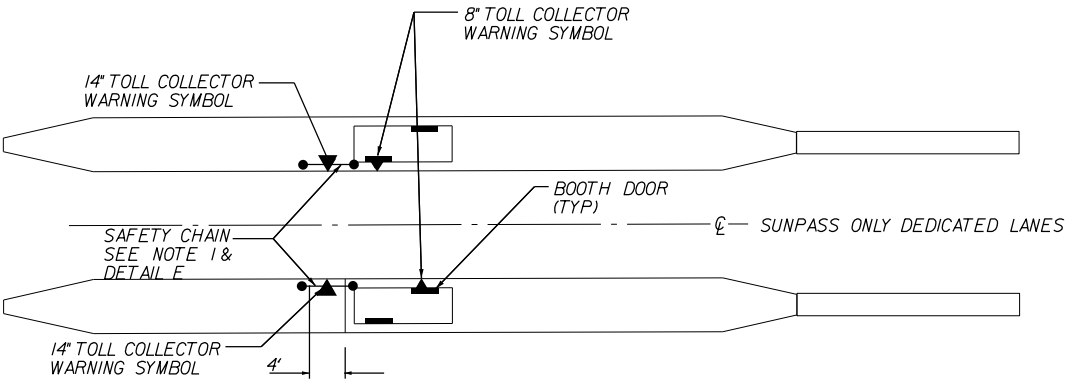
SHEET
NO.
107-3

SYMBOL DIMENSIONS			
OVERALL SIZE	A	B	C
8"	8"	.6"	.6"
14"	14"	1"	1"

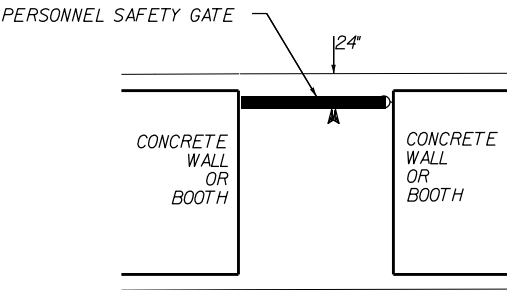
NOTE: SYMBOLS SHALL BE PLACED IN BOOTH DOORWAYS AND WALKWAYS AS SHOWN ON PLANS. SURFACES SHALL BE THOROUGHLY CLEANED PRIOR TO APPLICATION.



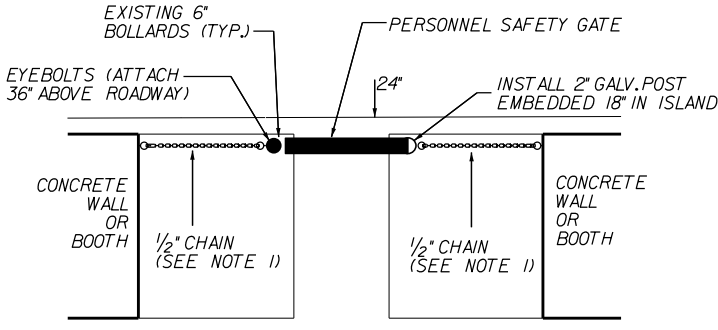
TYPICAL TOLL ATTENDANT WARNING SYMBOL
NTS



DETAIL "C"
TYPICAL ISLAND LOCATIONS FOR
TOLL COLLECTOR WARNING SYMBOLS
DEDICATED AND MIXED USE LANES
N.T.S.



DETAIL "D"
FOR MAINLINE PLAZA CROSSWALKS
WITHOUT BOLLARDS.
(DEDICATED LANES ONLY)
N.T.S.

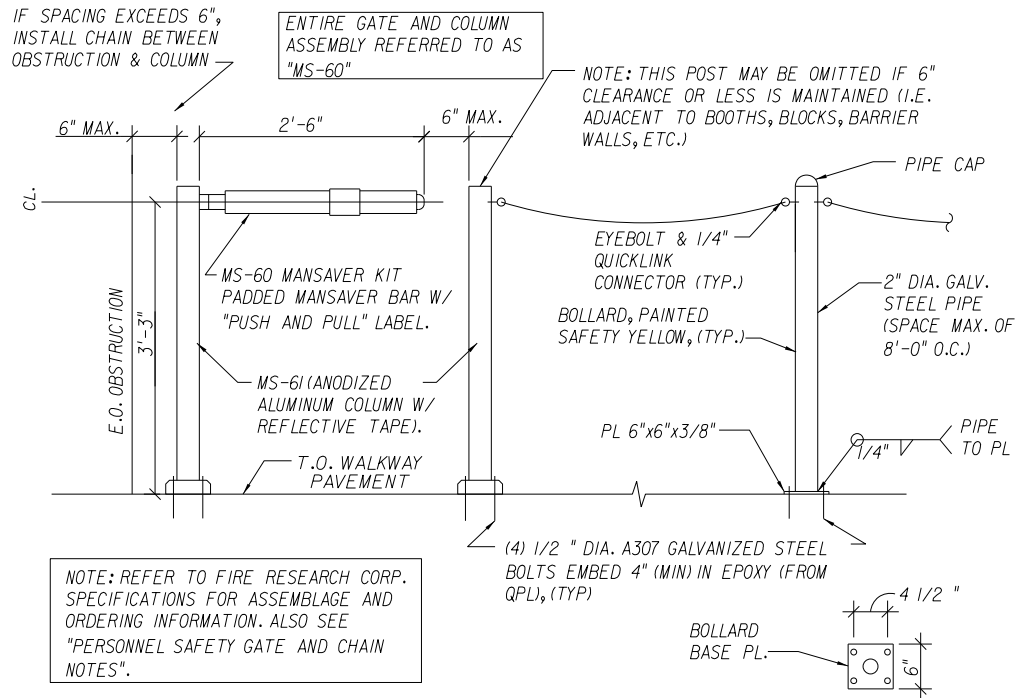


DETAIL "E"
FOR MAINLINE PLAZA CROSSWALKS
WITH BOLLARDS.
(DEDICATED LANES ONLY)
N.T.S.

- NOTES:
1. SIGNS SHALL BE MOUNTED ONLY ON ISLANDS BORDERING SUNPASS DEDICATED LANES.
 2. SIGN TPK-5 (SEE DRAWING 107-6), ON ISLAND, TO BE FASTENED ON VERTICAL CONCRETE WALL WITH LAG SHIELDS. SIGN SHALL BE MOUNTED SO AS TO NOT OBSTRUCT ELECTRIC OUTLETS, JUNCTION BOXES, OR CONTROL CABINETS.
 3. SIGN TPK-5 (SEE DRAWING 107-6), ON CONCRETE BOOTH, SHALL BE MOUNTED ABOVE WINDOW NEXT TO BOOTH DOOR AND CENTERED ON CONCRETE COLUMN. SIGN SHALL BE MOUNTED WITH LAG SHIELDS. CLEARANCES SHALL COMPLY WITH STANDARD PLANS, INDEX 700-101.
 4. SIGN TPK-5 (SEE DRAWING 107-6) SHALL BE POST MOUNTED ADJACENT TO SIDEWALK BETWEEN ADMINISTRATION BUILDING AND NEAREST TOLL LANE.

- NOTES:
1. SAFETY CHAINS SHALL CONSIST OF 1/2" YELLOW COLORED, VINYL-COATED STEEL CHAIN, SNAPHOOK, SHACKLES, EYEBOLTS, AND ANCHORS. THE SAFETY CHAINS SHALL BE ANCHORED TO CONCRETE WALL, MASONRY, OR BOLLARDS BY LAG SHIELDS AND 3/8" EYEBOLTS. STEEL BOLLARDS SHALL BE FIELD GALVANIZED AROUND HOLES AND YELLOW PAINT SHALL BE TOUCHED UP. CHAINS ARE TO BE INSTALLED ON DEDICATED LANE SIDE OF ISLANDS ONLY. INSTALL 2" GALVANIZED POSTS WITH END CAPS WHERE THERE ARE NO BOLLARDS AS SHOWN IN DETAIL-E. NO SAFETY CHAINS OR POSTS SHALL BE LOCATED TO INTERFERE WITH THE OPERATION OF ELECTRONIC VEHICLE SEPARATOR EQUIPMENT.

REVISIONS						STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	TOLL PLAZA SPECIAL DETAILS		SHEET NO. 107-4
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION				



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.

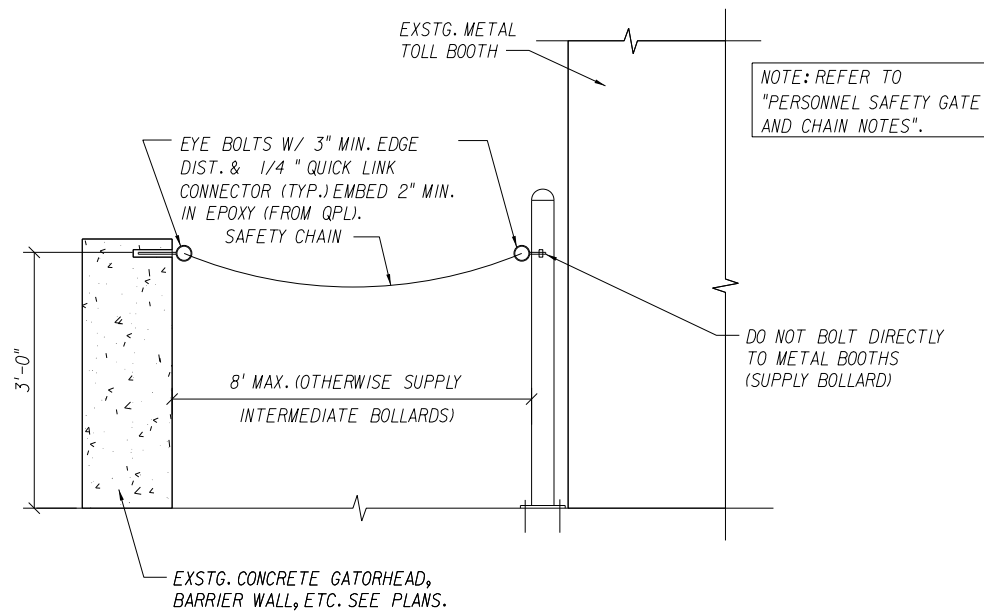
5. CHAIN ATTACHMENT: CHAIN AND QUICK LINKS SHALL BE CONNECTED TO BOLLARDS WITH EYE BOLTS. CHAIN SHALL NOT PASS THROUGH A RING ON THE BOLLARD BUT SHALL TERMINATE AT ONE, OR BOTH SIDES OF THE BOLLARD AS NECESSARY, WITH A QUICK LINK CONNECTOR. CHAIN MAY NOT BE ATTACHED TO AUTOMATIC COIN MACHINES, GATE HOUSINGS,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

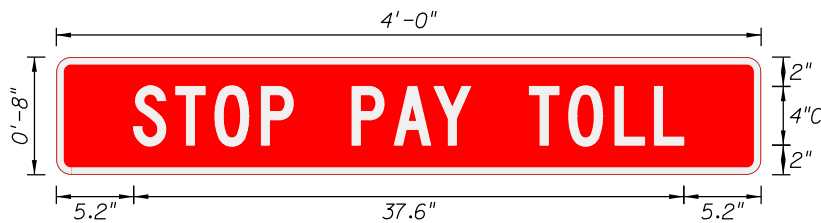


REVISIONS						STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TOLL PLAZA SPECIAL DETAILS	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION					
						ROAD NO.	COUNTY	FINANCIAL PROJECT ID		107-5

SIGN NAME		TPK-1			
QUANTITY		1			
WIDTH		1' -6"			
HEIGHT		1' -0"			
BORDER WIDTH		0.5"			
BORDER RADII		1.5"			
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-4			
QUANTITY		1			
WIDTH		4'-0"			
HEIGHT		0'-8"			
BORDER WIDTH		0.5"			
BORDER RADII		1"			
PANEL COLOR		Red			
LEGEND		White			
BORDER		White			
SYMBOL(S)	ANGLE	X	Y	WID	HT
SIGN NUMBER	CLEARANCE EDGE OF LANE	COLUMN SIZE STEEL			AVERAGE LENGTH

[illegible]

SIGN NAME		TPK-2				
QUANTITY		1				
WIDTH		2'-0"				
HEIGHT		1'-0"				
BORDER WIDTH		0.5"				
BORDER RADII		1.5"				
PANEL COLOR		White				
LEGEND		Black				
BORDER		Black				
SIGN(S)	ANGLE	X	Y	WID	HT	
SIGN NUMBER	CLEARANCE EDGE OF LANE	COLUMN SIZE			AVERAGE LENGTH	

[illegible]

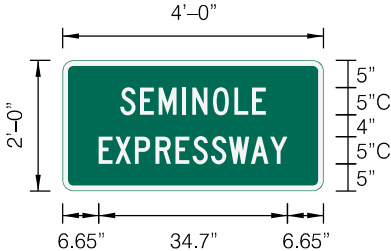
SIGN NAME		TPK-5			
QUANTITY		1			
WIDTH		3'-0"			
HEIGHT		1'-6"			
BORDER WIDTH		0.75"			
BORDER RADII		3"			
PANEL COLOR		Red/White			
LEGEND		White/Black			
BORDER		Black/Black			
SIGN	ANGLE	X	Y	WID	HT
SIGN NUMBER	CLEARANCE EDGE OF LANE	COLUMN SIZE		AVERAGE LENGTH	

[illegible]

R E V I S I O N S							STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TOLL PLAZA SIGNING DETAILS PLAZA AREA SIGN PANELS	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
											107-6

[illegible]

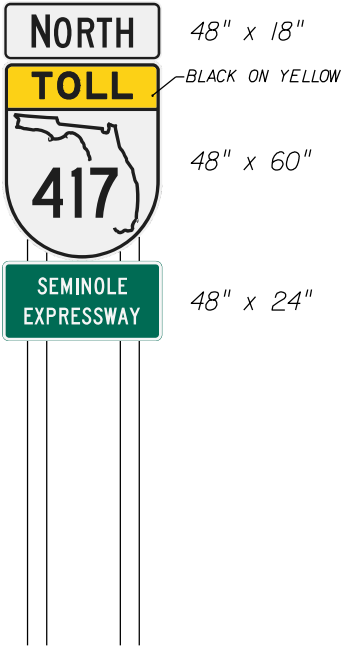
SIGN NAME	TPK-BRAND	QTY	I	SIGN NUMBER	STATION(S)
PANEL		BORDER			
WIDTH	4'-0"	WIDTH	1"		
HEIGHT	2'-0"	RADII	2"		
LEGEND	White	COLOR	White		
COLOR	Green				
SYMBOL(S)	ANGLE	X	Y	WID	HT
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE <small>Edge Of Lane</small>	COLUMN SIZE		AVERAGE LENGTH
NO. OF LIGHT FIXTURES		FIXTURE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



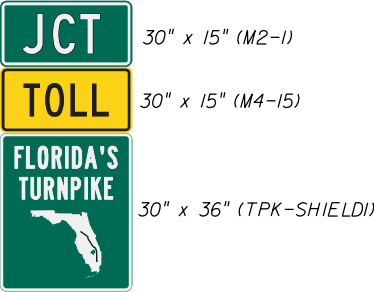
NOTES:

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

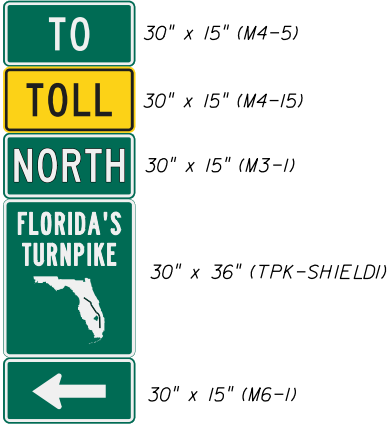
- BEACHLINE EXPRESSWAY, SR 528
- FIRST COAST EXPRESSWAY, SR 23
- POLK PARKWAY, SR 570
- SAWGRASS EXPRESSWAY, SR 869
- SEMINOLE EXPRESSWAY, SR 417
- SUNCOAST PARKWAY, SR 589
- VETERANS EXPRESSWAY, SR 589
- WESTERN BELTWAY, SR 429
- WEKIVA PARKWAY, SR 429



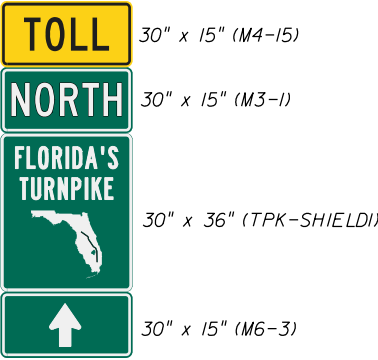
JUNCTION ASSEMBLIES



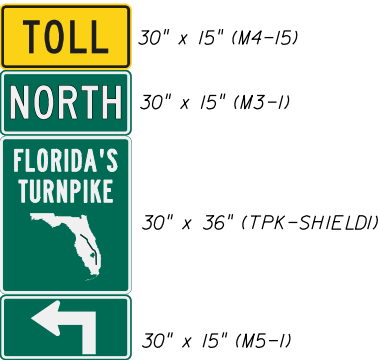
TRAILBLAZER ASSEMBLIES



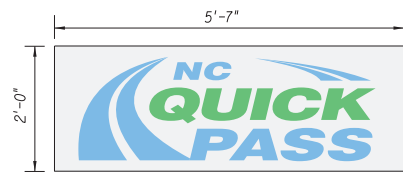
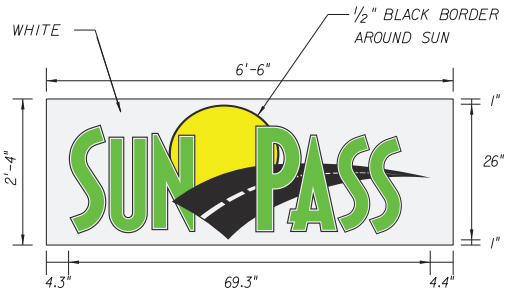
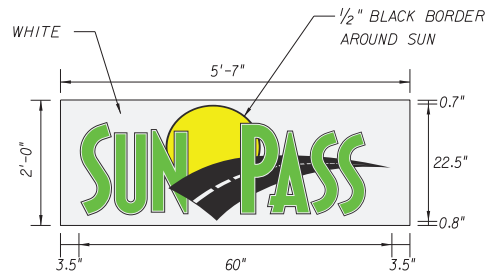
AET-08



AET-09

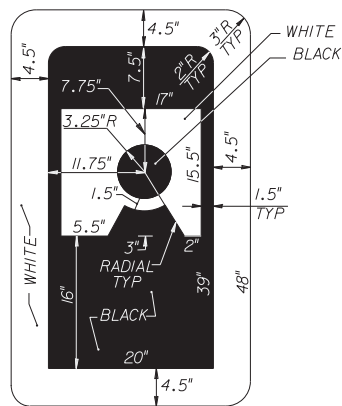


REVISIONS						STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						SPECIAL SIGN DETAILS			108-2

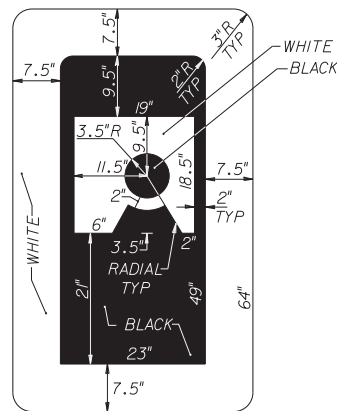


GENERAL NOTES FOR SUNPASS SHIELD ON MIXED-USE LANES

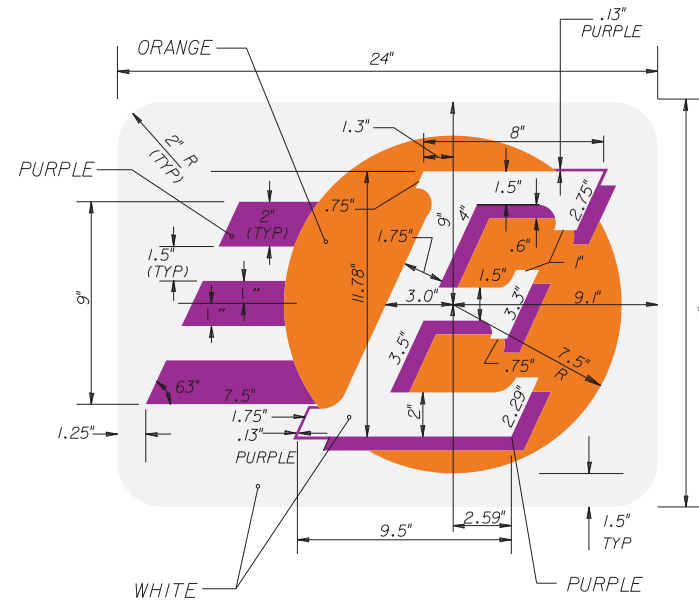
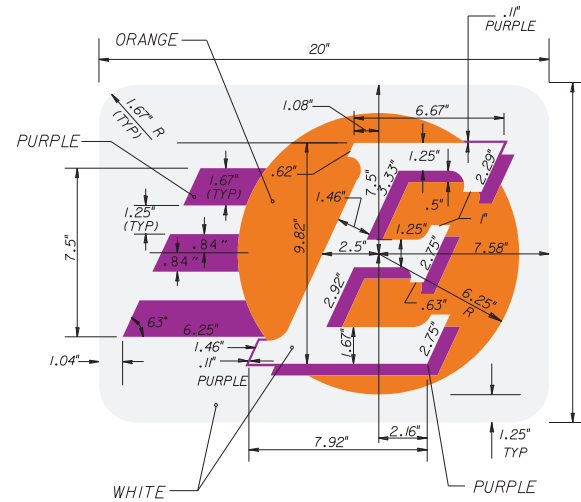
1. THE DEPARTMENT WILL PROVIDE THE LOGO IN MICROSTATION FORMAT FOR USE IN SIGN FABRICATION.
2. THE LOGO SHALL NOT BE FABRICATED BY HAND CUT OUT METHOD.
3. ALL SIGN COLORS SHALL BE STANDARD HIGHWAY COLORS AS SPECIFIED IN THE MUTCD



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:

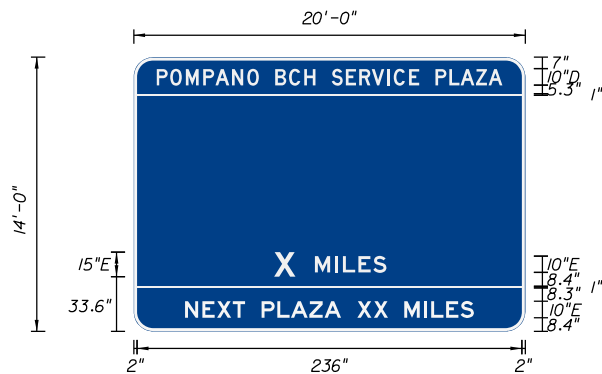
WHITE
PURPLE, 3M VIOLET NO. 893 OR APPROVED EQUAL.
ORANGE, 3M ORANGE NO. 886 OR APPROVED EQUAL.

2. NARROW PORTIONS OF SPECIAL DESIGN COPY IN EPASS LOGO SHALL HAVE MINIMUM THICKNESS 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	SPECIAL SIGN DETAILS	SHEET NO. 108-3
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION			

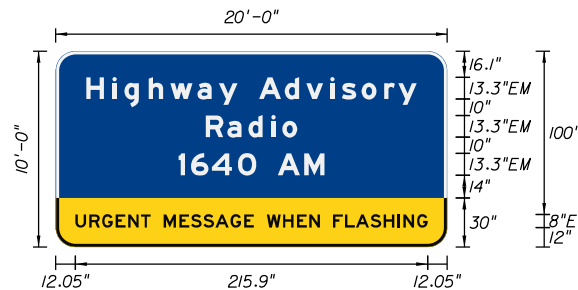
SIGN NAME		TPK-SERVI	QTY	1	SIGN NO.	STATION(S)	
PANEL		BORDER					
WIDTH	20'-0"	WIDTH	2"				
HEIGHT	14'-0"	RADIUS	12"				
LEGEND	White	COLOR	White				
COLOR	Blue						
SYMBOL(S)		ANGLE	X	Y	WID	HT	
SIGN NO.	NO. OF POSTS	EDGE OF LANE CLEARANCE	COLUMN SIZE		AVERAGE LENGTH		
NO. OF LIGHT FIXTURES		FIXTURE SPACING			WATT		
PHOTOMETRIC CURVE					VOLTAGE		



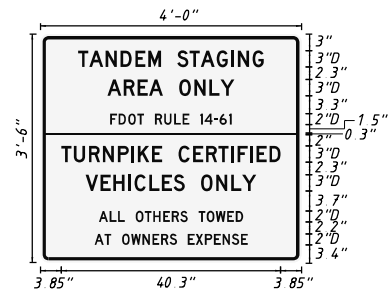
NOTE:
NEXT PLAZA MESSAGE TO BE INSTALLED ON THE CLOSEST SIGN TO PLAZA ONLY.

[illegible]

SIGN NAME		TPK-HAR	QTY	1	SIGN NO.		STATION(S)	
PANEL			BORDER					
WIDTH		20'-0"	WIDTH		2"			
HEIGHT		10'-0"	RADIUS		12"			
LEGEND		White/ Black	COLOR		White/ Black			
COLOR		Blue/Yellow						
SYMBOL(S)		ANGLE	X	Y	WID	HT		
SIGN NO.	NO. OF POSTS	EDGE OF LANE CLEARANCE	COLUMN SIZE			AVERAGE LENGTH		
NO. OF LIGHT FIXTURES		FIXTURE SPACING			WATT			
PHOTOMETRIC CURVE						VOLTAGE		

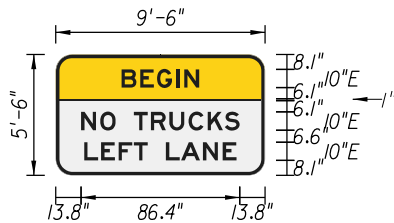
[illegible]

SIGN NAME		TPK-TANDEM		QTY	1	SIGN NO.		STATION(S)	
PANEL			BORDER						
WIDTH		4'-0"		WIDTH		0.63"			
HEIGHT		3'-6"		RADII		1.13"			
LEGEND		Black		COLOR		Black			
COLOR		White							
SYMBOL(S)		ANGLE		X		Y		WID HT	
SIGN NO.		NO. OF POSTS		EDGE OF LANE CLEARANCE		COLUMN SIZE		AVERAGE LENGTH	
NO. OF LIGHT FIXTURES				FIXTURE SPACING				WATT	
PHOTOMETRIC CURVE						VOLTAGE			

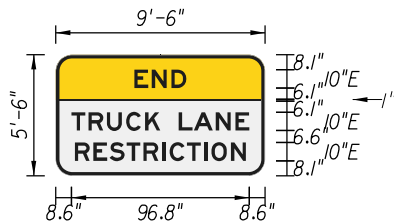
[illegible]

REVISIONS					STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. 108-4
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	

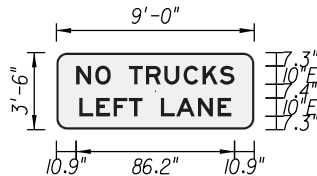
SIGN NAME		TPK-NTI			
QUANTITY		1			
WIDTH		9'-6"			
HEIGHT		5'-6"			
BORDER WIDTH		2"			
BORDER RADII		9"			
PANEL COLOR		Yellow/White			
LEGEND		Black/Black			
BORDER		Black/Black			
SYMBOL(S)	ANGLE	X	Y	WID	HT
SIGN NUMBER	CLEARANCE EDGE OF LANE	COLUMN SIZE STEEL			AVERAGE LENGTH

[illegible]

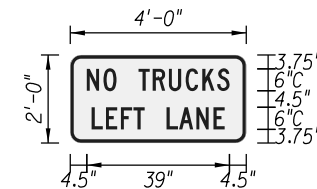
SIGN NAME		TPK-NT3			
QUANTITY		1			
WIDTH		9'-6"			
HEIGHT		5'-6"			
BORDER WIDTH		2"			
BORDER RADII		9"			
PANEL COLOR		Yellow/White			
LEGEND		Black/Black			
BORDER		Black/Black			
SYMBOL(S)	ANGLE	X	Y	WID	HT
SIGN NUMBER	CLEARANCE EDGE OF LANE	COLUMN SIZE STEEL			AVERAGE LENGTH

[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	
SIGN NUMBER	CLEARANCE EDGE OF LANE	COLUMN SIZE			AVERAGE LENGTH	

[illegible]

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]

REVISIONS							STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SPECIAL SIGN DETAILS	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		108-5

SIGN NAME		TPK-INT1		QTY	SIGN NUMBER		STATION(S)	
PANEL		BORDER				none		
WIDTH		14'-6"		WIDTH		1.75"		
HEIGHT		12'-0"		RADII		12"		
LEGEND		Black		COLOR		Black		
COLOR		White						
SYMBOL(S)		ANGLE	X	Y	WID	HT		
SunPass		0	57.4	101	67	24		
Epass		0	14	68.6	67	24		
PeachPass		0	93	68.6	67	24		
QuickPass		0	14	38.6	67	24		
LeeWay		0	93	38.6	67	24		
EZPass		0	14	8.6	67	24		
SIGN NUMBER		NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		LENGTH AVERAGE		

14'-6"

14"

146"

14"

51.4"

24"

6"

24"

6"

24"

8.6"

10"D

4.5"

24"

3"

3.6"

54"

38.6"

14'-6"

14"

146"

14"

12'-0"

24"

6"

24"

6"

24"

8.6"

MAINLINE APPLICATIONS

NO. OF LIGHT FIXTURES		FIXTURE SPACING		PHOTOMETRIC CURVE		WATT		VOLTAGE	

COPY		P	A	Y	M	E	N	T	S		A	C	C	E	P	T	E	D		L				
SPACE	16	7.4	9.1	10.1	10.2	7.9	8.3	7	6.8	10	9.8	8.8	9	7.9	7.4	7.7	7.9	6.8	15.9	142.1				
COPY																								
SPACE																								
COPY																								
SPACE																								
COPY																								
SPACE																								
COPY																								
SPACE																								
COPY																								
SPACE																								

SIGN NAME		TPK-INT2		QTY	SIGN NUMBER		STATION(S)	
PANEL		BORDER				none		
WIDTH		10'-6"		WIDTH		1.5"		
HEIGHT		9'-0"		RADII		12"		
LEGEND		Black		COLOR		Black		
COLOR		White						
SYMBOL(S)		ANGLE	X	Y	WID	HT		
SunPass		0	38.1	74	50.2	18		
Epass		0	7	52	50.2	18		
PeachPass		0	68.8	52	50.2	18		
QuickPass		0	7	29.5	50.2	18		
LeeWay		0	68.8	29.5	50.2	18		
EZPass		0	7	7	50.2	18		
SIGN NUMBER		NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH		

10'-6"

6.1"

113.7"

6.2"

38"

18"

4.5"

18"

4.5"

18"

7"

8"D

5"

18"

3"

0.8"

1.3"

1.9"

10'-6"

6.1"

113.7"

6.2"

9'-0"

18"

4.5"

18"

4.5"

18"

7"

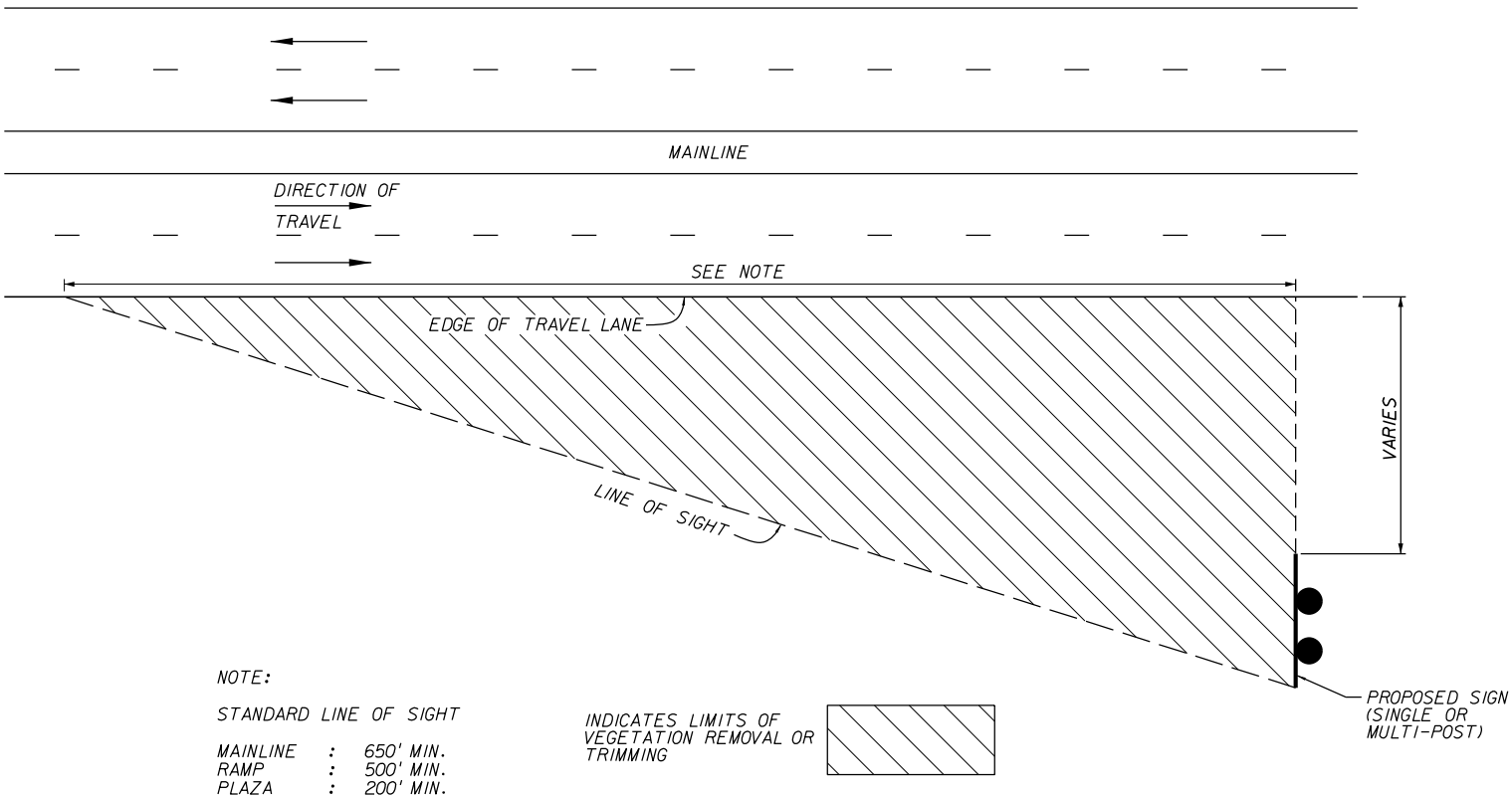
SERVICE PLAZA APPLICATIONS

NO. OF LIGHT FIXTURES		FIXTURE SPACING		PHOTOMETRIC CURVE		WATT		VOLTAGE	

COPY		P	A	Y	M	E	N	T	S		A	C	C	E	P	T	E	D		L				
SPACE	6.1	5.9	7.3	8.1	8.2	6.3	6.6	5.6	5.4	8	7.8	7	7.2	6.3	5.9	6.2	6.3	5.4	6.2	113.7				
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REVISIONS						STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SPECIAL SIGN DETAILS		SHEET NO. 108-6		
DATE	BY	DESCRIPTION			DATE	BY		ROAD NO.				COUNTY	FINANCIAL PROJECT ID

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N.T.S.

REVISIONS						STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	MISCELLANEOUS DETAILS SIGN PLACEMENT		SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION				
									109-1