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The $SLD\ Handbook$ is produced by:

Transportation Data & Analytics Office Florida Department of Transportation JULY 2017

Copies may be downloaded in PDF format from the Transportation Data & Analytics Office Publications website: <u>http://www.fdot.gov/planning/statistics/tsopubs.shtm</u>

Suggestions and Errata

The Transportation Data & Analytics Office desires that the July 2017 SLD Handbook be as useful as possible to those working with straight-line diagrams. Your suggestions for improvement, desired additions, and notice of errors or omissions are welcome. Please send any comments to:

Transportation Data & Analytics Office Florida Department of Transportation 605 Suwannee Street, MS-27 Tallahassee, Florida 32399-0450 Ph: (850) 414-4848 Fax: (850) 414-4878



Log of Changes for SLD Handbook published July 2017

	Page(s)	Description	Date
1	1	Changed Reporting Sections	
2	2	Added Section S - Special Designations (optional)	
3	2	Added Section T - HPMS (optional)	
4	3	Added TL – Tunnel and Inactive Traffic Station Type to Legend	
5	5-17	Changed TranStat to TDA	
6	7	Changed email address	
7	17	Changed GIS Section to Systems Support division	
8	25	Added TUNNELNO – Tunnel Number and Type I – Inactive Traffic Count Station	
0	25	as optional	
9	26-27	Changed Turnpike information to include Brevard County	
10			
11			
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STRAIGHT-LINE DIAGRAMS

This document provides information on the Straight-line Diagram (SLD), what it contains, how to generate it and other related information.

What is a Straight-line Diagram?

An SLD is a graphical linear representation of select Roadway Characteristics Inventory (RCI) data as coded for individual roadways Active On the State Highway System (SHS). However, as an optional feature, SLDs for Active off the SHS roadways may be produced at the discretion of the Districts. The SLD is annotated with text information and graphics that describe or illustrate information considered general interest roadway data (e.g. intersecting roadways, roadway descriptions, bridges and other structures, functional classification, and curve data, etc.). SLDs require regeneration whenever certain data change. See the SLD Regeneration Requirements on pages 24 and 25.

A standard SLD has eleven reporting sections. In addition to the header, the basic SLD is composed of two divisions – top and bottom partitions. Each partition reports several different classes of data that include administrative, physical, classification, and status data. There is also an area reserved for District use.

Reporting Sections

An SLD has 11 reporting sections, A-K, that report different types of related data. However, at the District's discretion, the SLD can expand up to sections A-T to include additional optional information. In the header area of the SLD, the first four sections reflect primarily administrative and inventory related information.

Section A - SLD Inventory Block

The upper left most set of boxes for data entry is the revisions initial box or frequently referred to as the SLD inventory block.

Components of the SLD inventory block should reflect the dates recorded in RITA (Roadway Inventory Tracking Application):

- 5 YR INV Date of field visit for 5-year re-inventory
- SLD REV Date the revised SLD is produced after 5 YR INV
- BMP Beginning milepoint (BMP) for interim revisions due to change
- EMP Ending milepoint (EMP) for interim revisions due to change
- INV Date of field visit for interim re-inventory due to change
- SLD REV Date revised SLD is produced after interim re-inventory due to change
- DATE Date of occurrence in mm/dd/yyyy format
- BY Initials of the person making the change to the SLD

Section B - Roadway ID and Sheet No.

Identifies the eight-digit roadway ID number and the sheet numbers.

Section C – County and District

Displays the name of the county and the two digit District number.

Section D - Overall Section Status, Interstate or US Route No., and State Road No.

Displays the overall section status (taken from the V/U/D screen), interstate or US route number (Feature 113), and state road number (Feature 111). Features 111 and 113 display according to how they are coded in RCI. Ensure that RCI is coded correctly according to the Features & Characteristics Handbook.



Section E - Roadway Features

Displays the data as coded in Features 111, 113, 114, 120, 124, 138 (added automatically), 140 (added automatically), 141 (added automatically), 143 (added automatically), 212, 214, 215, 219, 251, 252, 253, 258, 320, 322, and 326. Identify these features by their milepoint number.

Section F - Roadway Composition

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Displays the roadway surface characteristics and surface type as coded in Features 230 and 232 respectively. Generally, the friction course information displays when it is available.

Section G - Horizontal Alignment

Displays information about the curvature and bearing of the roadway as coded in Features 220 and 221. The horizontal alignment data is divided into left and right roadway sides by the line that bisects this area, so that data for curves to the left are entered above the line and data for curves to the right are below the line.

Section H - Structure Description

Displays structural information about bridges, drainage pipes, overpasses, and culverts is reported here as coded in Features 241 and 258. Two symbols represent structures on the SLD. Structures less than 20 feet long are shown by a vertical graphic (a line with inverted arrowheads at each end) with annotated text. This format is similar for drainage pipes. If the structure is over 20 feet long, the bridge graphic is shown (a text-annotated rectangle). Text data for bridges, at a minimum, includes the beginning and ending milepoints, structure number, structure type code, and approximate width in feet.

Section I - District Use (optional)

Districts can use this section to show non-standard information that is not currently required.

Section J - SIS

Displays the Strategic Intermodal System (SIS) designation for the roadway as coded in Feature 147. There are 14 SIS designations that can be coded for highway facilities, connectors, military access, and links.

Section K - Functional Classification

Displays the Federal Functional Classification designation as coded in Feature 121 for the roadway. There are 12 designations ranging from urban principal arterial (the highest level) to rural local road (the lowest level).

Section L - Traffic Data (optional)

Displays the annual average daily traffic volume, average D factor, average K factor, average T factor, and date as coded in Feature 331.

Section M - Speed Limit (optional)

Displays the speed limit for each side of the roadway as coded in Feature 311. This section is divided like the Horizontal Alignment section showing the left side of the roadway on top and the right side of the roadway on bottom.

Section N - Bike Lanes (optional)

Displays where bike lanes are located along the roadway as coded in Feature 216. This section is divided like the Horizontal Alignment section showing the left side of the roadway on top and the right side of the roadway on bottom. For the left side of the roadway, bike slots are shown above the bike lanes, and for the right side of the roadway, bike slots are shown under the bike lanes. See the Annotated SLD on page 4.

Section O - Sidewalks (optional)

Displays where sidewalks are located along the roadway as coded in Feature 216. This section is divided like the Horizontal Alignment section showing the left side of the roadway on top and the right side of the roadway on bottom.

Section P - Access Management (optional)

Displays the access management classification as coded in Feature 146.

Section Q - Managed Lanes (optional) Displays the data as coded in Feature 142.

<u>Section R - NHS (optional)</u> Displays the data as coded in Feature 112 TRAVLWAY.

<u>Section S – Special Designations (optional)</u> Displays the data as coded in Feature 115 SCENEHWY.

<u>Section T – HPMS (optional)</u> Displays the data as coded in Feature 118 HPMSIDNO.

NOTE: Do not remove or modify the Version Notation in the bottom left corner.

Should a District choose to create their own SLDs, those SLDs must still contain the same format, order, look, and data as if the SLD was generated from the currently approved SLD Diagrammer.



For further information on straight-line diagram production refer to the SLD Handbook

SLD	Handbook							Annotated SLD			
DATI	E	5 YR INV 0308/2005 KAB	SLD REV 03/18/2005 FGH	BMP EM 0.280 0.89	IP INV 95 09/14/2008	SLD REV 09/20/2008	FLORIDA DEPARTMENT OF TRANSPORTATION		SECTION STATUS	INT. or US ROUTE NO. US 99/US 99A/I 999	SR S
		0.0	SECTION A							SECTION	N D
	SECTION E ROADWAY FEATURES	INSIDE URBAN, OUTSIDE CITY SAMPLE TOWN 14-(EXAMPLE ST) Feature 1 1(SR 999) Feature 111 1(US 99) Feature 113) Feature 124 114	Feature 326			Optional Symbology	## 0.464	1	0.649 © ∭	Optional Symbology
	LANE WIDTHS ARE AVERAGED	Feature 120 94.0' - 48.0'	I 109.0' - 48.0' 4 - 12.0' RDWY ∞ 40.0 PVD MED	1	ACTIVE OFF THE (MP 0.216 TO MP 0. Feature 140 (added automatica	E SHS .280) D ally)	117.0' - 48.0' 4 - 12.0' RDWY 164.0 VEG MED 2* 10.0' WARN SHLD1 2* 10.0' WARN SHLD1 2* 10.0' WARN SHLD1		1		F
TION	DIRECTION	4 - 12.0' RDWY 40.0 VEG MED 2* 2.0' VG SHLD1 2.0' VG SHLD2 - LT	6.0' PVD SHLD1 - LT 5.0' PVD SHLD1 - RT 10.0' LWN SHLD2 - RT	Ι			12.0' WARN INSHLD1 - LT	1	I	1	0.751
R PARTI	SECTION F ROADWAY 8 COMPOSITION 8	28/FC-5 Feature 230 & 23	32					28/SAHM		28/F	-C-5
PPEI	SECTION G	CURVE DATA NOT FIELD VERIFIED		PI=0.189	Feature 220					1	
Ē	HORIZONTAL ALIGNMENT	E-N228494450 Feature 22	1	Δ=0°28'02.00"	J			DISCLAIMER:			
	`	B-1132 1844 W Feature 22	120 080				Feature 241	An SLD will always show the e	exact		
	STRUCTURE		0 #0552 0 211				× 80.0	same sections for the upper a	nd lower		
	DESCRIPTION		BR					partitions. This is only an exa	mple		
	DISTRICT USE	SECTION I						 SLD that illustrates how feature displayed in their respective a 	es are		
	SIS 00	SIS CORRIDOR Feature 147	SECTION J						ECTION.		
	FUN CLASS	URBAN OTHER PRINCIPAL AR	TERIAL) Feature 121	ECTION K							
	TRAFFIC	AADT=36,000 D=99.9 SE	CTION L					a		6 com	
	SPEED LIMIT	55MPH SECTIO	N M							Feature 311	ірн
		Original N				8		216 (bike slot)			
	BIKE LANES	SECTION N				0.280 0.2					>
		1.0 INSIDE URBAN, OUTSIDE CITY	EXAMPLE ST	=> <= LLUSTRATIO	ON RD				INSIDE C	TY, AND URBAN	
	000	* ORLANDO * <=EXAMPLE ST		<u> </u>	\wedge				* APOPKA		
	SECTION E	* <sr 999<br="">* <us 99a<="" td=""><td>ALF</td><td></td><td></td><td>0</td><td></td><td></td><td>≓ * <=ILLUS * <sr 999<="" p=""></sr></td><td>TRATION RD 9A</td><td>0028</td></us></sr>	ALF			0			≓ * <=ILLUS * <sr 999<="" p=""></sr>	TRATION RD 9A	0028
	ROADWAY FEATURES		1.139 FLOF	1.160 -	1.227 PALN	-	I	I.	* <i 999a<="" td=""><td>I</td><td>1.736</td></i>	I	1.736
		819	<u>к</u> в Ф	1.35	6		STATIONING EXCEPTION	ASSOCIATED STATION EXCEPTIO	<u>ا</u>	108.0' - 26.0'L+24.0'R	0
	LANE WIDTHS	1:0,1,0,1,0,1,0,1,0,1,0,1,0,1,0,1,0,1,0,		GF B		SE	E ROADWAY ID: 99020000	SEE ROADWAY ID: 99060000		2 - 13.0'L + 2 - 12.0'R RI 40.0 VEG MED	DWY
	ARE AVERAGED		BERI				MP 5.384 TO MP 6.013	Eesture 143		2* 9.0' LWN SHLD1	
TION	1.000	4 - 12.0' RDWY 40.0 VEG MED 2* 4.0' PVD SHLD1 2* 10.0' LWN SHLD2	Feature	251		I	(added automatically)	(added automatically)	106.0' - 48 4 - 12.0' R 40.0 VEG 2* 9.0' LW	8.0' DWY S MED I N SHLD1	Optional _ Symbology
ARTI	SECTION F	28/FC-5							28/FC-5		
R D	COMPOSITION	28/FC-5							28/FC-5		
ME	SECTION G	CURVE DATA NOT FIELD VERIFIED			PC=1.227 PI=1.249						
Ľ	HORIZONTAL				PT=1.267 Δ=51°57'12.00"						
		B=N32°18'44"W			D=1°00'						Ϋ́́Ϋ́Ϋ́Ϋ́Ϋ́Ϋ́Ϋ́Ϋ́Ϋ́Ϋ́Ϋ́Ϋ́Ϋ́
	SECTION H STRUCTURE DESCRIPTION										1.740 - 18" X 70" CC - 18" X 84" CC
	SIDEWALKS	5'				0 = o =	eu 0			Feature 21	6 (sidewalk)
	000	5'5'			1				6		\rightarrow
	AC MAN CLS	ACCESS CLASS01 Feature	146 SECTION P			L			l l		
	MAN LANES	SECTION Q	BMP 1.102 RMLBM	P 1.170				LMLRDWY 99030902 RMLRDWY 99030901	_1		
	NHS 000	NHS/INTERMODAL CONNECTO	DR	NHS/INTE	ERMODAL CONNECTOR	Feature	e 112 SECTION R			P-21 PRINCIPAL ARTERIAL	LS
Versio	L n: 1.4.2.17 04/10/20		NOTATION								



SLD Regeneration Process Flowchart



SLD Specifications

Each roadway ID containing Feature 140 coded as code 2-Active On the SHS must have its own SLD.

<u>Size</u> The layout is 11 by 17 inches.

<u>Orientation</u> The layout orientation is landscape.

Layout Margins All layout margins (top, bottom, left, and right) are 0.2 inches.

<u>Color Scheme</u> SLDs are in black and white.

SLD Legend

If a District uses an optional section and adds symbology, then the SLD legend needs a description and explanation of that symbology. Otherwise, use the latest SLD Legend produced by Transportation Data & Analytics Office (TDA).

Straight-line Diagrammer Application

The Straight-line Diagrammer is a web-based application featuring a wizard interface to help generate SLDs from RCI data according to user-specified settings. It appeared online in October 2010 and can be accessed through the TDA SharePoint site: http://webapp02.dot.state.fl.us/straightlinediagrammer

Computer Requirements

To access the application, you should have:

- A personal computer with screen resolution at least 1024×768
- A web browser installed on the computer (IE, Firefox, Chrome, Safari, ...)
- A connection to FDOT intranet
- A valid FDOT user account

To review the SLD productions, you also need:

- An application for uncompressing zip files
- An application for reviewing PDF files (Adobe Acrobat Reader, ...)
- An application for editing DXF files (MicroStation V8 XM, ...)

Start the Straight-line Diagrammer

When you access the Straight-line Diagrammer, the Welcome screen displays first.

STRAIGHT-LINE DIAGRAMMER				
1.4.2.17				
FDOT				
Welcome, USERNAME				
Enter				
BLOCK IMPORTS				
Email questions or comments to <u>CO-StraightLineDiagrammer</u> Copyright © 2009 - 2012, Florida Department of Transportation				

Block Imports

THIS FUNCTION IS CURRENTLY UNDER <u>DEVELOPMENT</u>. There are scaling issues that still need to be worked out. The descriptions that follow are subject to change.

Click **BLOCK IMPORTS** on the *Welcome* screen of the Diagrammer to begin. This allows you to upload enhanced DXF files. The Diagrammer will replicate any enhancements from the DXF file and include them on the SLD product. The result is an SLD with current RCI data and enhancements.

STRAIGHT-LINE DIAGRAMMER BLOCK IMPORTS WZARD EVT LOADED SCHEME: STANDAR SELECT ENHANCED DXF FILE TO UPLOAD Browse... Upload and Parse NPUT ROADWAY ID (8 DIGITS) ROADWAY ID : ______ Find Milepoints BMP: ______ EMP: _____

<u>Toolbar</u>

The toolbar consists of two buttons and the name of the loaded scheme.

- WIZARD takes you to the SLD generation wizard
- EXIT takes you back to the Welcome screen
- LOADED SCHEME displays the names of the loaded scheme

Select Enhanced DXF File

This is where you will upload DXF files to the web server, so that when the roadway ID is referenced, it will pull the enhancements. Click **Upload and Parse** to upload the DXF file.

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Upload and Input Roadway ID (8 Digits)

This is required to associate the DXF file to the appropriate roadway ID and milepoint range. Click **Find Milepoints** to fill in the **BMP** and **EMP** boxes, then adjust them as necessary.

SLD Generation Wizard

Click **Enter** on the *Welcome* screen start the wizard. Send any questions or comments on the Straight-line Diagrammer via email to the application administrators: <u>CO-SLD@dot.state.fl.us</u>

The Straight-line Diagrammer provides a wizard page that allows the generation of SLDs following four predefined steps:

- Step 1 Roadway Selection
- Step 2 Feature Selection
- Step 3 Display Configuration
- Step 4 Finale

f							1	HELP
	STEP 1 - ROAD	WAY SELECTION	STEP 2 - FEAT	JRE SELECTION	STEP 3 - DISPLAY CONFIGURATION	STEP 4 - FINALE		
	NEXT	GANCEL	SCHEME	EXIT		Lo	DADED SCH	IEME: STANDARD
	I. INPUT ROAD	oway ID (8 digit	S)					HELP

Wizard Interface

	STRAIGHT-	LINE DIAG		d Tab	
				HELP	Wizard Toolbar
PREVIOUS NEXT	SELECT ALL UNSELECTION	EXPAND ALL COLLAPSE ALL	CANCEL SCHEME	EXT ED SCHEME: STANDARD	Loaded Scheme
I. ROADWAY FEATU	RES Road System <u>Display Settings (</u>	<u>111,113,114)</u>		HELP	
 Feature 113 - AASHT Feature 114 - Local 	O Name	<u> </u>	Processing Indicator]	Wizard Panel
 FEATURE 124 - URBAN FEATURE 120 - TYPE R 	CLASSIFICATION OAD <u>DISPLAY SETTINGS (120)</u>	Processing			
S FEATURE 212 - THROUG	CH LANES DISPLAY SETTINGS (212.	214.215.219)			

Message Bar

Displays messages.

Processing Indicator

Appears when the application tasks the server.

<u>Wizard Tab</u>

Used to change between steps 1, 2, 3, and 4.

Wizard Toolbar

Contains a series of tool buttons to provide general functions. The tool buttons include:

- **PREVIOUS** To go back to the previous step (in steps 2, 3, and 4 only)
- NEXT To go to the next step (in steps 1, 2, and 3 only)
- SELECT ALL To select all features and characteristics (in step 2 only)
- UNSELECT ALL To unselect all features and characteristics (in step 2 only)
- EXPAND ALL To expand feature panels to show all characteristics (in step 2 only)
- COLLAPSE ALL To collapse feature panels to hide all characteristics (in step 2 only)
- CANCEL To clear the current task and go back to step 1
- SCHEME To open the dialog of scheme manager
- **EXIT** To exit the wizard and go back to the *Welcome* screen

Loaded Scheme Displays the name of the loaded scheme.

Wizard Panel

Contains elements for each step.

Scheme Management

A scheme is a record of user settings used in SLD generation. Use a scheme to produce the same SLD products without the need to reconfigure output settings for the next generation of other SLD products. The Straight-line Diagrammer the creation of unlimited numbers of schemes. The information recorded in schemes includes:

- Selection of Features and Characteristics (step 2)
- Display Configurations of Features (step 2)
- Display Configurations of Pages and Partitions (step 3)
- Output Format (step 4)

Click SCHEME on the toolbar to display the Scheme Manager. Click QUIT to exit the Scheme Manager.

	Scheme Manager		HELP
CURRENT USER: USERNAME	LOADED SCHEME: ATTEMPT SIX2	DEFAULT SCHEME: TRUE	
I. LOAD SCHEME			
SELECT SCHEME:	standard	LOAD	
II. DELETE SCHEME			
SELECT SCHEME:	standard	DELETE	
III. SAVE SCHEME			
Select Scheme:	standard		
As DEFAULT:	VES YES	SAVE	
V. CREATE NEW SCHEME			
INPUT NAME:			
As Default:	T Yes	CREATE	
	QUIT		

Load Scheme

Use this section to load a scheme.

- 1. Select a scheme from the **SELECT SCHEME** dropdown list
- 2. Click LOAD

	SCHEME MANAGER	HELP
CURRENT USER: USERNAME	LOADED SCHEME: STANDARD	
I. LOAD SCHEME	(1)	
SELECT SCHEME:	standard 🗸	LOAD
II. DELETE SCHEME	Constant Auto	
SELECT SCHEME:	standard 🔽	DELETE
III. SAVE SCHEME		
SELECT SCHEME:	standard	
AS DEFAULT:	VES YES	SAVE
N. CREATE NEW SCHEME		
INPUT NAME:		
AS DEFAULT:	T Yes	CREATE
	QUIT	

Delete Scheme

The default scheme or the system-defined scheme (template) cannot be deleted. Trying to do so will produce this error:

	S	STRA	IGHT-L	INE	DIAGR	AMMEF	R
STEP 1 - ROADWA	AY SELECTION	STEP 2 - FEAT	TURE SELECTION	STEP 3 - DISF	PLAY CONFIGURATION	STEP 4 - FINALE	HELP
Previous	NEXT	SELECT ALL	UNSELECT ALL	EXPAND ALL	COLLAPSE ALL	CANCEL SC	HEME EXIT

Use this section to delete a scheme.

- 1. Select a scheme from the SELECT SCHEME dropdown list
- 2. Click **Delete**

	SCHEME MANAGER	HEL
CURRENT USER: USERNAME	LOADED SCHEME: STANDARD	DEFAULT SCHEME: TRUE
I. LOAD SCHEME		
SELECT SCHEME:	standard	LOAD
II. DELETE SCHEME		(2)
SELECT SCHEME:	standard	DELETE
III. SAVE SCHEME	Constant Auto	
SELECT SCHEME:	standard standard	
AS DEFAULT:	VES YES	SAVE
IV. CREATE NEW SCHEME		
INPUT NAME:		
AS DEFAULT:	T Yes	CREATE
	QUIT	

Save Scheme

The default scheme is the scheme that is loaded when the Straight-line Diagrammer starts. Changes to the system-defined scheme (template) cannot be saved.

Use this section to save a scheme.

- 1. Configure settings in steps 2,3, and 4
- 2. Select a scheme from the SELECT SCHEME dropdown list
- 3. Check the As DEFAULT checkbox for YES if you want this scheme to be loaded the next time you open the application
- 4. Click SAVE

	SCHEME MANAGER	HELF
CURRENT USER: USERNAME	Loaded Scheme: Attempt Six2	DEFAULT SCHEME: TRUE
I. LOAD SCHEME		
SELECT SCHEME:	standard	LOAD
II. DELETE SCHEME		
Select Scheme:	standard (2)	DELETE
III. SAVE SCHEME		
SELECT SCHEME:	standard	(4)
As Default:	VES	SAVE
IV. CREATE NEW SCHEME	(3)	
INPUT NAME:		
AS DEFAULT:	T Yes	CREATE
	QUIT	

Create New Scheme

Use this section to create a scheme.

- 1. Configure settings in steps 2,3, and 4
- 2. Type a new scheme name in the INPUT NAME box
- 3. Check the As DEFAULT checkbox for YES if you want this scheme to be loaded the next time you open the application
- 4. Click CREATE

	SCHEME MANAGER		HELP		
CURRENT USER: USERNAME	LOADED SCHEME: ATTEMPT SIX2	DEFAULT SCHEME: TRUE			
I. LOAD SCHEME					
SELECT SCHEME:	standard	LOAD			
II. DELETE SCHEME					
SELECT SCHEME:	standard	DELETE			
III. SAVE SCHEME					
SELECT SCHEME:	standard				
AS DEFAULT:	✓ Yes	SAVE			
IV. CREATE NEW SCHEME	N. CREATE NEW SCHEME				
INPUT NAME:					
As Default:	□ Yes	CREATE			
(3)	QUIT	(4)			

Step 1 – Roadway Selection

Step 1 includes the following tasks:

- Input or select roadway
- Specify milepoint range
- Indicate on or off-system
- Specify using current RCI data or historical RCI data
- Link to external resources
- Generate changed data list

Step 1 - Roadway	SELECTION	STEP 2 - FEATURE SELECTION STEP 3 - DISPLAY CONFIGURATION STEP 4 - FINALE	
NEXT	CANCEL	Scheme Exit Lo	ADED SCHEME: STANDAR
I. INPUT ROADW	ay id (8 dig	TS)	HELF
ROADWAY ID:		14010000 Find Milepoints Generate Changed Data List	
OR SE	LECT ROAD	WAY	
DISTRICT:		07	
COUNTY:		PASCO	
ROADWAY:		14010000 - US 41 / SR 45 / LAND O LAKES BLVD	
I. INPUT MILEPC	INTS		HEL
BMP:		000.012	
EMP:		019.811	
II. ON/OFF-SYS	TEM		HEL
SELECT SYSTEM	STATUS:		
V. HISTORICAL I	ΟΑΤΑ		HEL
GENERATE HISTO	DRICAL SLDS:		
. External R	ESOURCES		HEL
MEW:		HTTP://PLSOM1.CO.DOT.STATE.FL.US/IVIEW/	
RCI:		HTTP://WEBAPP01.DOT.STATE.FL.US/ROADWAYCHARACTERISTICSINVENTORY/DEFAULT.ASP	
RITA:		HTTP://COTRANSTAT.DOT.STATE.FL.US/PLS/RITA/WELCOME	
SLDs:		HTTP://INFONET.DOT.STATE.FL.US/PLANNING/STATISTICS/SLDLINKS.HTM	
VIDEOLOG:		HTTP://WEBAPP01/VIDEOLOG/	
NEXT	CANCEL	Scheme Exit	
		Email questions or comments to <u>CO-StraightLineDiagrammer</u>	

I. Input Roadway ID

- 1. Type the roadway ID (8 digits)
- 2. Click Find Milepoints to retrieve the BMP and the EMP for the roadway ID from the RCI database

I. INPUT ROADWAY ID (8	8 DIGITS)			HELP
ROADWAY ID:	14010000	Find Milepoints	Generate Changed Data List	
		(1)	(2)	
way ID				

Select Road

As an alternative, manually select a roadway ID.

- 1. Select District
- 2. Select county
- 3. Sele

ect roadway ID		
OR SELECT ROADWAY		
DISTRICT:		
COUNTY:	PASCO	(3)
ROADWAY:	14010000 - US 41 / SR 45 / LAND O LAKES BLVD	

Generate Changed Data List

This will generate a report in PDF format listing the RCI data that were changed after a specified date.

- 1. Input the roadway ID
- 2. Click Generate Changed Data List

herate Changea Data	1150	. (4)				
	2)				(2)	
I. INFOT KOADWATTD (8 DIGITS	.,					
ROADWAY ID:	14010000	Find Mi	ilepoints	Generate Changed Data L	ist .	

3. In the popup window, input the specified date

	GENERATE CHANGED DATA LIST		
	Specify Date (YYYY/MM/DD):	(3)	
(4)	2009/03/09		
	SUBMIT CANCEL		

4. Click SUBMIT to generate the data change list

After clicking SUBMIT, you will see to the *Result* screen. Click **Download Zip File** icon to download the report.

II. Input Milepoints

Click Find Milepoints or select a roadway ID from the dropdown lists, the BMP and EMP for the specified roadway ID are from the RCI database and displayed here. Change BMP and/or EMP by typing in new values.

II. INPUT MILEPOINTS		
BMP: EMP:	000.012	

III. ON/OFF-System

The Straight-line Diagrammer produces SLDs for Active On the SHS segments or Active Off the SHS segments. An Active On segment is owned and maintained by the Department as part of the SHS. An Active Off segment is maintained by another entity (county or city), but the Department collects data for reporting purposes. Use this section to specify if the roadway is Active On (On-System) or Active Off (Off-System).

III. ON/OFF-SYSTEM	
SELECT SYSTEM STATUS:	© ON-System
	C OFF-System

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IV. Historical Data

You can generate an historical SLD from RCI data archives based on a specified date.

- 1. Check the GENERATE HISTORICAL SLDS checkbox
- 2. Specify a date in yyyy-mm-dd format



V. External Resources

To access external data sources, click one of the links. These external sources provide the ability to view relevant data for assisting the understanding of a roadway's environment.

V. EXTERNAL RESOURCES	
IVIEW:	HTTP://PLSOM1.co.dot.state FLUS/VIEW/
RCI:	HTTP://WEBAPP01.dot.state.fl.us/RoadwayCharacteristics/webitory/default.asp
RITA:	HTTP://COTRANSTAT.DOT.STATE.FL.US/PLS/RITA/WELCOME
SLDs:	HTTP://INFONET.DOT.STATE.FL.US/PLANNING/STATISTICS/SLDLINKS.HTM
VIDEOLOG:	http://webapp01/videolog/

Step 2 – Feature Selection

Step 2 includes the following tasks:

- Select characteristics for display
- Customize display configurations for the selected characteristics
- Hide/display certain sections in SLD products

Select Characteristics

Select which characteristics you want generated.

1. Expand the characteristic panel by clicking the down arrow button

I. ROADWAY FEATURES
CONDECTION FOR THE ROAD SYSTEM DISPLAY SETTINGS (111.113.114)
FEATURE 113 - AASHTO
FEATURE 114 - LOCAL NAME (1)
Feature 124 - Urban Classification
Feature 120 - Type Road <u>Display Settings (120)</u>
Feature 212 - Through Lanes Display Settings (212,214,215,219)
FEATURE 214 - OUTSIDE SHOULDERS
Feature 215 - Highway Median Type
FEATURE 219 - INSIDE SHOULDERS
Feature 251 - Intersections Display Settings (251)
Feature 252 - Interchanges <u>Display Settings (252)</u>
Feature 253 - Ralroads <u>Display Settings (253)</u>
Feature 258 - Structures Display Settings (258)
Feature 320 - Milewarker Sch. D <u>isplay Settings (320)</u>
Feature 322 - Traffic Signal <u>Display Settings (322)</u>
Feature 326 - Traffic Monitoring Sites Display Settings (326)

2. Click the checkbox to select or unselect a characteristic



3. Utilize the wizard toolbar buttons to EXPAND ALL, COLLAPSE ALL, SELECT ALL, and UNSELECT ALL

Customize Display Configurations for Selected Characteristics

Characteristics are grouped together and displayed using the same configurations. Customize display configurations for each group.

1. Click the display settings link to show the configuration window

S FEATURE 111 - STATE ROAD SYSTEM	DISPLAY SETTINGS (111,113,114)	
STROADNO	(1)	
STRDNUM2		

- 2. Determine the settings for COLOR, FONT FAMILY, FONT STYLE, SIZE FACTOR, and LINE WEIGHT
- 3. Click **OK** to complete the customization



NOTE: SIZE FACTOR is an amplification of the system's predefined size by a factor of 0.0 to 5.0.

Hide Section

Sections F, G, H, I, J, and K will display by default on SLD products, even when no characteristics associated with these sections are displayed. The only way not to show them is by clicking the hide section checkbox.

1. Check the checkbox to hide a section

X. Speed Limit		
	(1)	Hide Section M
	(1)	

Step 3 – Display Configurations

Step 3 includes the following tasks:

- Customize display configurations of pages
- Customize display configurations of sections
- Specify partition scaling method

I. Page Configuration

Customize the look of the generated page(s).

- 1. Select a page size from the dropdown list
- 2. Increase or decrease page margins
- 3. Select style, line weight, and color of page border
- 4. Select font attributes (family, style, size factor, and color) of page titles



NOTE: SIZE FACTOR is an amplification of the system's predefined size by a factor of 0.0 to 5.0.

II. Section Configuration

Customize the look of the border and title font for sections A, B, C, and D.

- 1. Select style, line weight, and color of section border
- 2. Select font attributes (family, style, size factor, and color) of section titles
- 3. Select font attributes (family, style, size factor, and color) of section (A-D) titles

II. SECTION	ON CONFIGURATION
1 - 5	Section Border
STYLE WEIGHT:	Solid (1)
Color:	Black SECTION TITLE FONT
FAMILY:	Standard
STYLE	Regular (2)
SIZE FACTOR:	
COLOR:	Black
3 - 5	SECTION (A-D) TITLE FONT
FAMILY:	Standard
STYLE	Regular (3)
SIZE FACTOR:	1.2 V 🔺
COLOR:	Black

III. Scaling

1. Specify one partition or two partitions per page.



2. A scale is defined as the miles displayed within one partition. The Straight-line Diagrammer provides three scaling methods.

2 -	SCALING	
Method:	Constant Automatic Constant Manual	MILES/PARTITION: 2.000

Constant - All partitions have uniform scales. Specify the constant scale in the MILES/PARTITION box.

2 -	SCALING			
Method:	Constant	•	Miles/Partition: 2.000	

Automatic – The Straight-line Diagrammer calculates the scale for each partition based on an optimization algorithm. 1. Click AUTO SCALING CONFIGURATION to show the Automatic Scaling Configuration window



- 2. Select the features to be used in automatic scaling
- 3. Set the minimum distance for mile breaks and the maximum distance for mile breaks
- 4. Click **OK** to complete the automatic scaling configuration

A	UTOMATIC SCALING CONFIGURATION
SELECT DISPLAYING LINES TO	BE Considered in Auto Scaling:
LINE 1 OF SECTION E (FEA	ATURES 251/252/253/320/326)
LINE 2 OF SECTION E (FEA	ATURES 212/214/215/219)
LINE 3 OF SECTION E (FEA	ATURES 111/113/114/124)
LINE 0F SECTION H (FEAT	URES 241/258)
SPECIFY MINIMUM AND MAXIM	MUM Scales (No Limition IF The Two Scales <u>Are Zeros</u>):
Minimum:	0.0 MILES/PARTITION (3)
Maximum:	(4)
	ок

Manual - Specify scales for each partition.

- 1. Input a scale
- 2. Click ADD to add the scale to the end of the scaling list
- 3. Click **DELETE** to delete the scale at the end of the scaling list
- 4. Click CLEAR to delete all scales in the scaling list



Step 4 – Finale

Step 4 includes the following tasks:

- Specify output format
- Decide whether or not to output the RCI data used in generating the SLD
- Submit

I. SLD Output

1. Check DXF, PDF, or both

I. SLD OUTPUT		
SLD FORMAT:	☑ DXF (1) ☑ PDF	

II. RCI Data

- 1. Check the YES checkbox to output RCI data
- 2. Check DATA FORMAT as original, partitional, or both

II. RCI DATA	(1)
OUTPUT RCI DATA:	✓ Yes
DATA FORMAT:	C ORGINAL (FULL SET)
	PARTITIONAL (SPLIT BY PARTITIONS)

NOTE: ORIGINAL (FULL SET) RCI data output is a full set of retrieved data for a whole roadway ID. PARTITIONAL output is a filtered RCI dataset grouped into partitions according to BMP, EMP, and selected features/characteristics. All RCI data files are in CSV format.

<u>Submit</u>

Initiates the generation of the SLD according to the specifications in the previous steps.

1. Click SUBMIT

STRAIGHT-LINE DIAGRAMMER				
STEP 1 - ROADWAY SELECTION	STEP 2 - FEATURE SELECTION	STEP 3 - DISPLAY CONFIGURATION	STEP 4 - FINALE	HEL
Previous Cancel	Scheme Exit			LOADED SCHEME: STANDAR
I. SLD OUTPUT				HE C
SLD FORMAT:	☑ DXF ☑ PDF			1000
II. RCI DATA				
OUTPUT RCI DATA:	VES			(1)
DATA FORMAT:	CORGINAL (FULL SET	t) by Partitions)	SUBMIT	(1)
Previous Cancel	Scheme Exit			
Email questions or comments to <u>CO-StraightLineDiagrammer</u> Copyright © 2009 - 2012, Florida Department of Transportation				

Result Screen

When the Straight-line Diagrammer completes the task of SLD generation, the results (PDFs, DXFs, and/or CSVs) are compressed in a single zip file.

- 1. Click the **Download Zip File** icon to download the zip file
- 2. Click WIZARD to return to Step 1 and start over
- 3. Click EXIT to return to the Welcome screen



On-System Key Sheet Generation

County Section Number Key Sheets (aka Key Sheets) are location maps for SLDs. Key Sheets display the location of each roadway ID with an SLD within each county.

The TDA Systems Support division maintains an application called the County Key Sheet application for use in ArcMap. Use the application to ensure that the Key Sheets follow the appropriate specifications. For more information on this application, contact the TDA Systems Support division.

Off-System MAP-21 and SIS Connector SLD and Key Sheet Generation

Key Sheets are location maps for SLDs. Key Sheets display the location of each roadway ID with an SLD within each county.

The TDA Systems Support division maintains an application called the County Key Sheet application for use in ArcMap. Use the application to ensure that the Key Sheets follow the appropriate specifications. For more information on this application, contact the TDA Systems Support division.

Straight-line Diagrams

Using the Straight-line Diagrams Online GIS Web Application

In order to view, print, download, or email straight-line diagrams visit the SLOGIS website: <u>http://www2.dot.state.fl.us/straight-linesonlinegis/</u>



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Links

Above the map and below the map, links provide navigation to various locations throughout the Florida Department of Transportation website.

The only link that directly pertains to the application itself is:

• FDOT Service Desk

FDOT Service Desk

Click this to email the FDOT Service Desk. In the event that the link is broken or does not properly pull up an email client, the email is <u>FDOT.ServiceDesk@dot.state.fl.us</u>

Searching for SLDs

There are two methods to search for SLDs. The first is to use the map and the second is to use the dropdown menus at the bottom.

Selecting SLDs Using the Map

The map functions just like other online mapping applications, such as Google Maps and Bing Maps. Use the mouse to click and drag. Use the scroll wheel of the mouse to zoom in and out. The blue highlighted roadways are SHS roadways that have SLDs.

The map has interactive functions located on the top left side.



The **hand** function lets you pan the map.

The zoom in magnifying glass will zoom in to the area highlighted on the map.

The zoom out magnifying glass will zoom out upon clicking it.

The world displays the entire state.

The 'i' is an identify function. Use it to click on one of the blue roadways. After clicking on a roadway, it turns golden brown.

In the top right corner of the map, there is a **Base Map** option. Use this option to select between **Streets** (the default) or **Aerials**.



At the bottom, in the center of the map, popup boxes display. They communicate information to the user.



Click to select a point on the map. To pan the map while making a selection hold the Ctrl key while dragging the map.

Selecting SLDs Using the Dropdown Menus

The dropdown menus are located in a Select box. There are also two buttons, Launch SLD and Clear Selection.

Select		
District:	County:	Roadway:
•	•	
		Launch SLD Clear Selection

Use the **District** dropdown menu to select a District. After selecting, the map will automatically zoom to that District.

Use the **County** dropdown menu to select a county. After selecting, the map will automatically zoom to that county.

Use the Roadway dropdown menu to select a roadway. After selecting, the map will automatically zoom to that roadway.

The Launch SLD button will open a new browser window/tab of the selected SLD.

The Clear Selection button will clear the selected roadway from the map and the Select box.

Searching for Key Sheets

Use the **District** and/or **County** dropdown menus to narrow the search for a Key Sheet. Select the desired Key Sheet from the **Roadway** dropdown menu. All Key Sheets for Districts 1through 7 are named COUNTY KEYSHEET and have zeroes as their section and sub-section numbers. All Key Sheets for Turnpike are named COUNTY KEYSHEET (TURNPIKE), but have '479' as their section number and '999' as their sub-section number.



Viewing the SLD

Select a roadway ID from the **Roadway** dropdown menu then click **Launch SLD**. A PDF file opens in a new browser window/tab. In order to print the SLD click the printer icon in the top left. In order to save the SLD click the floppy disk icon in the top left. In order to email the SLD click the letter icon in the top left.



NOTE: The SLD is only viewable through a PDF viewer such as Adobe Acrobat.

How to Upload to the SLO Site

Only users with authorized access can upload SLDs to the SLO site. To gain authorization access, submit an automatic access request form (AARF) for Straight-Line Diagrams Online application (SLO). The upload site is on the FDOT intranet. Get to the site by using this link: <u>http://webapp02.dot.state.fl.us/straight-linesonlineFDOT/</u>

The SLO site automatically assigns a date when the PDF file is uploaded.

NOTE: Include symbology for enhancements made to the SLD on the legend sheet.

Click Upload New PDF.



Follow the directions on the screen, and then click **Upload** to upload the file.

Florida Department Of Transportation	
Home Business Partners Employment Programs Projects Related Links Research/Statistics	Travel Information
Straight-Line Diagrams Home Page Version 1.1	<u>Help/About</u> <u>SLD</u>
Upload	
Upload will add any file that: • has an extension of ".PDF" • has a roadway ID as its first 8 characters • is less than or equal to 1 Mb in size.	
If your file exceeds the size limit, you may either break it into multiple, smaller files or make the file available elsewhere. The system will not accept PDFs with aerial images embedded within.	
If you enter a file name directly into the File text box, you must specify the FULL PATH with the file name and proper file Browse	extension!
Home RCI Handbooks	
Some documents within this website are pdf files and must be viewed with: Adobe Acrobat Reader	
Florida Department of Transportation, Office of Information Systems For technical Support, please contact FDOT Springer Res Park of Nono 1-86-955-457 (HELP) For questions about Straight-Line Diagrame, please contact the appropriate <u>Detrict</u> . <u>Information Systems</u> © Copyright 2006 Portide Deartment of Transportation	MyFlorida.com

SLDs

For uniformity, all SLD PDF files should be named starting with the roadway ID number and ending with the extension of ".pdf". It is recommended that multiple sheets be created as one file for one roadway ID. That way it is easier to locate and view the SLD for a particular roadway ID. SLD files should fit in the allowable 1 MB size, however, if the file needs to be broken into multiple files, use the following format, 99010000_1_of_2.pdf.

Key Sheets

Use the following format, CC000000_X County Key Sheet, where "CC" stands for the county code and "X" is the county name. For example, 26000000_Alachua County Key Sheet. For Key Sheet insets, use the following format, 26000000_Alachua County_inset1, 26000000_Alachua County_inset2, 26000000_Alachua County_inset3, etc.

For Turnpike Key Sheets, use the following format, CC479999_Turnpike_X County Key Sheet, where "CC" stands for the county code and "X" is the county name. For example, 93479999_Turnpike_Palm Beach County Key Sheet.

How to Delete files from the SLO Site

After uploading SLD(s), perform a search to see if everything uploaded properly. If there is a need to delete the uploaded file(s), use the Delete Action column on the search results page to delete the file(s) by clicking the file name.

Home Business Partr	ners Employment	Programs	Projects Relate	d Links Research/Statistics Travel Information	
Straight-Line Diagrams Home Page Version 1.1					
Search Results for: 79000000					
NOTE: Do not press the Back button. Click the Home Page link above to Search again.					
PDF File	<u>County Name</u> =	District 🔷	<u>Date Uploaded</u>	Delete Action	
PDF File A 7900000_Volusia County Keysheet.pdf	County Name VOLUSIA	District D5	2/12/2014	Delete Action <u>Delete 79000000_Volusia County Keysheet.pdf</u>	
PDF File A 79000000_Volusia County Keysheet.pdf Return to Search Page RCI Handbooks	County Name	District D5	<u>Date Uploaded</u> 2/12/2014	Delete Action	
PDE File A 7900000_Volusia County Keysheet.pdf Return to Search Page Rcl Handbooks Some documet	County Name VOLUSIA	District D5	<u>Date Uploaded</u> 2/12/2014 must be view ed with: <u>Adol</u>	Delete Action	

Before actually deleting a file, a confirmation screen will appear asking to confirm the deletion. Click **Confirm Deletion** to delete the file from the SLO site. Or, click **Return to Search Page** to cancel the deletion.



On-System SLD Regeneration Requirements

Districts are required to update and distribute SLDs that accurately and legibly reflect the data recorded in the RCI database within 120 calendar days from the date of written notification of any revision to the following list of requisite descriptive data.

- Feature 111 State Road System
 - STROADNO State Road Number
 - STRDNUM2 State Road Number (next occurrence)
- Feature 113 AASHTO
 - USROUTE Lowest Numerical Posted U.S. Route No.
 - USROUTE2 Second Lowest Numerical Posted U.S. Route No.
- Feature 114 Local Name
 - o LOCALNAM Posted or Known Local Street Name
- Feature 120 Type Road
 - TYPEROAD Type of Road
- Feature 121 Functional Classification
- FUNCLASS Federal Functional Classification
- Feature 124 Urban Classification
 - HWYLOCAL Location Code
 - PLACECD Current Place Code
 - URBAREA Urban Area Number
- Feature 138 Roadway Realignment
 - NALIGNID Section Identification of New Alignment
 - NALNBGPT Beginning Milepoint of New Alignment
 - NALNENPT Ending Milepoint of New Alignment
- Feature 140 Section Status Exception
 - STATEXPT Section Status Exception
- Feature 141 Stationing Exceptions
 - STATIONING EXCEPTION (reference effective June 2010)
 - BEGSECPT Beginning Roadway Section Milepoint
 - ENDSECPT Ending Milepoint of Exception
 - RDWYID Roadway ID of Exception Within a County
- Feature 142 Managed Lanes
 - LMLBMP Left managed lane begin milepoint
 - LMLEMP Left managed lane end milepoint
 - LMLRDWY left managed lane roadway ID
 - MAINBMP Mainline begin milepoint
 - MAINEMP Mainline end milepoint
 - MAINRDWY Mainline roadway id
 - RMLBMP Right managed lane being milepoint
 - RMLEMP Right managed lane end milepoint
 - RMLRDWY Right managed lane roadway ID
- Feature 143 Associated Station Exceptions
 - ASSOCIATED STATIONING EXCEPTION (reference effective June 2010)
 - BEGSECPT Beginning Roadway Section Milepoint
 - ENDSECPT Ending Milepoint of Exception
 - RDWYID Roadway ID of Exception Within a County
- Feature 147 Strategic Intermodal System
 - \circ SISFCTPx SIS Facility Type Level (x=1-9)
- Feature 212 Through Lanes
 - NOLANES Number of Through Roadway Lanes
 - SURWIDTH Total Through Lanes Surface Width
- Feature 214 Outside Shoulders
 - SHLDTYPE Highway Shoulder Type
 - SHLDTYPx Other Highway Shoulder Type (x=2,3)
 - SLDWIDTH Highway Shoulder Width
 - SHLDWTHx Other Highway Shoulder Width (x=2,3)
- Feature 215 Highway Median Type
 - MDBARTYP Type of Median Barrier
 - MEDWIDTH Highway Median Width
 - RDMEDIAN Type of Median
- Feature 219 Inside Shoulders
 - ISLDTYPE Inside Shoulder Type
 - ISLDTYPx Other Inside Shoulder Type (x=2, 3)
 - ISLDWDTH Inside Shoulder Width
 - \circ ISLDWTHx Other Inside Shoulder Width (x=2, 3)

- Feature 220 Non-Curve Intersection
 - $\circ \quad \text{NCPTINT}-\text{Non-Curve Point of Intersection} \\$
- Feature 221 Horizontal Curve
 - o BEARING Compass Bearing Along Road at a Point
 - HRZCANGL Horizontal Curve Central Angle
 - HRZDGCRV Horizontal Degree of Curve
 - HRZPTINT Horizontal Point of Intersection
- Feature 230 Surface Description
 - SURFNUM Pavement Surface Type
- Feature 232 Surface Layers
 - FRICTCSE Type of Friction Layer Course
- Feature 241 Crossdrains & Box Culverts
 - BOXCULHT Box Culvert Height
 - BOXCULLT Box Culvert Width
 - BXCULGTH Box Culvert Length
 - CRSDRLGH Length of Crossdrain
 - NOBXCULV Number of Box Culverts
 - NOCRDRAN Number of Crossdrain Pipes
 - PIPEDIAM Pipe Diameter
 - PIPEHIGH Non-Circular Pipe Height
 - PIPETYPE Type of Pipe
 - PIPEWDTH Non-Circular Pipe Width
- Feature 251 Intersections
 - BEGSECNM Beginning Roadway Section Milepoint Name
 - ENDSECNM Ending Roadway Section Milepoint Name
 - \circ INTSDIRx Intersection Direction (x=1-9)
 - INTSRTPx Intersection Surface Type (x=1-9) (optional)
- Feature 252 Interchanges
 - EXITNO Interchange (Exit) Number
 - INTERCHG Type of Interchange
- Feature 253 Railroads
 - CHKDIGIT Check Digit
 - RRCROSNO National RR Grade Crossing Number
- Feature 258 Structures
 - BOXCULNO Box Culvert Structure Number
 - BRIDGENO Bridge Structure ID Number
 - FACCROSS Facility Crossing Name
 - UNDPASNO Underpass Number
 - TUNNELNO Tunnel Number
- Feature 320 Milemarker Signs
 - MILEMARK Milemarker Sign
- Feature 326 Traffic Monitoring Sites
 - TRFSTANO Traffic Count Station Number
 - o TRSTATYP Traffic Count Station Type (Type I Inactive, Type R Roadtubes, and Type V Virtual are optional)

Contacts

For information or questions about particular SLDs, contact the specific District Office.

District 1

District Maintenance Statistics Office 1-800-292-3368

Southwest Florida (Charlotte, Collier, De Soto, Glades, Hardee, Hendry, Highlands, Lee, Manatee, Okeechobee, Polk, and Sarasota)

Major cities: Arcadia, Bartow, Bradenton, Fort Myers, Lakeland, Naples, North Port, Sarasota, Sebring, and Venice

District 2

District Planning Statistics Office 1-800-749-2967 Northeast Florida (Alachua, Baker, Bradford, Clay, Columbia, Dixie, Duval, Gilchrist, Hamilton, Lafayette, Levy, Madison, Nassau, Putnam, St. Johns, Suwannee, Taylor, and Union) Major cities: Gainesville, Jacksonville, Lake City, Palatka, Perry, Saint Augustine, and Starke

District 3

District Planning Statistics Office 1-888-638-0250 Northwest Florida (Bay, Calhoun, Escambia, Franklin, Gadsden, Gulf, Holmes, Jackson, Jefferson, Leon, Liberty, Okaloosa, Santa Rosa, Wakulla, Walton, and Washington) Major cities: Apalachicola, Chipley, Crestview, Fort Walton Beach, Marianna, Panama City, Pensacola, Quincy, and Tallahassee

District 4

District Planning Statistics Office 1-866-336-8435 Southeast Florida (Broward, Indian River, Martin, Palm Beach, and St. Lucie) Major cities: Belle Glade, Boca Raton, Fort Lauderdale, Fort Pierce, Hollywood, Pompano Beach, Port St. Lucie, Stuart, Vero Beach, and West Palm Beach

District 5

District Maintenance Statistics Office 1-800-780-7102 Central Florida (Brevard, Flagler, Lake, Marion, Orange, Osceola, Seminole, Sumter, and Volusia) Major cities: Daytona Beach, DeLand, Melbourne, Merritt Island, Ocala, Orlando, and Titusville

District 6

District Planning Statistics Office 1-800-435-2368 South Florida (Miami-Dade and Monroe) Major cities: Coral Gables, Hialeah, Key West, and Miami

District 7

District Maintenance Statistics Office 1-800-226-7220 West Central Florida (Citrus, Hernando, Hillsborough, Pasco, and Pinellas) Major cities: Brooksville, Clearwater, Dunedin, Largo, New Port Richey, St. Petersburg, and Tampa

<u>Turnpike</u>

District Planning Statistics Office 1-800-798-3691

Florida's Turnpike Enterprise oversees an over 460-mile system of limited-access toll highways: Florida's Turnpike, extending north from Homestead in Miami-Dade County to Wildwood in Sumter County; the Seminole Expressway and Southern Connector (Toll 417) in Seminole, Orange and Osceola counties; the Beachline Expressway West (Toll 528) in Brevard and Orange Counties; the Polk Parkway (Toll 570) in Polk County; the Veterans Expressway and Suncoast Parkway in Hillsborough, Pasco and Hernando counties (Toll 589); the Sawgrass Expressway (Toll 869) in Broward County; and the southern 11 miles of the Daniel Webster Western Beltway (Toll 429) in Orange and Osceola Counties.



APPENDIX

Abbreviated SLD Descriptions for Features 214, 215, & 219

Feature	Characteristic	Code	Abbreviation	Description
214	SHLDTYPE, SHLDTYP2, SHLDTYP3	0	RC	RAISED CURB
214	SHLDTYPE, SHLDTYP2, SHLDTYP3	1	PVD	PAVED
214	SHLDTYPE, SHLDTYP2, SHLDTYP3	2	WARN	PAVED WITH WARNING DEVICE
214	SHLDTYPE, SHLDTYP2, SHLDTYP3	3	LWN	LAWN
214	SHLDTYPE, SHLDTYP2, SHLDTYP3	4	GRVL	GRAVEL/MARL
214	SHLDTYPE, SHLDTYP2, SHLDTYP3	5	VG	VALLEY GUTTER
214	SHLDTYPE, SHLDTYP2, SHLDTYP3	6	C&G	CURB & GUTTER
214	SHLDTYPE, SHLDTYP2, SHLDTYP3	7	OTHER	OTHER
214	SHLDTYPE, SHLDTYP2, SHLDTYP3	8	CRG	CURB WITH RESURFACED GUTTER

Feature	Characteristic	Code	Abbreviation	Description
215	MDBARTYP	03	CBL	CABLE BARRIER
215	MDBARTYP	04	GRD	GUARDRAIL
215	MDBARTYP	05	FNC	FENCE
215	MDBARTYP	06	BAR	BARRIER WALL
215	MDBARTYP	20	OTHER	OTHER
215	MDBARTYP	28	CRW	CANAL, RIVER, WATERWAY

Feature	Characteristic	Old Code	Old Abbreviations	Old Description	New Code	New Abbreviation	New Description
215	RDMEDIAN	01	PTD	PAINTED/TWO-WAY LEFT TURN	01	PVD	PAVED
215	RDMEDIAN	02	CRB	TRAFFIC SEPARATOR/CONCRETE CRB	02	TFSP	RAISED TRAFFIC SEPARATOR
215	RDMEDIAN	03	C>6	CURB>6 INCHES	02	TFSP	RAISED TRAFFIC SEPARATOR
215	RDMEDIAN	08	LWN	LAWN/TURF	08	VEG	VEGETATION
215	RDMEDIAN	09	GRVL	GRAVEL/MARL	20	OTHER	OTHER
215	RDMEDIAN	10	PVD	PAVED/HATCHING AND GORES	01	PVD	PAVED
215	RDMEDIAN	11	DEPMED	DEPRESSED MEDIAN	08	VEG	VEGETATION
215	RDMEDIAN	12	PVD/GR	PAVED WITH GUARDRAIL	01	PVD	PAVED
215	RDMEDIAN	13	PVD/BAR	PAVED WITH BARRIER	01	PVD	PAVED
215	RDMEDIAN	14	CB<6/GR	CURB<6 INCHES & GUARDRAIL	02	TFSP	RAISED TRAFFIC SEPARATOR
215	RDMEDIAN	15	CB<6/FNC	CURB<6 INCHES & FENCE	02	TFSP	RAISED TRAFFIC SEPARATOR
215	RDMEDIAN	16	CB<6/BAR	CURB<6 INCHES & BARRIER	02	TFSP	RAISED TRAFFIC SEPARATOR
215	RDMEDIAN	17	C/LWN	CURB WITH LAWN/TURF	17	CB&VEG	CURB & VEGETATION
215	RDMEDIAN	18	CB>6/GR	CURB>6 INCHES & GUARDRAIL	02	TFSP	RAISED TRAFFIC SEPARATOR
215	RDMEDIAN	19	CB>6/FNC	CURB>6 INCHES & FENCE	02	TFSP	RAISED TRAFFIC SEPARATOR
215	RDMEDIAN	20	OTHER	OTHER	20	OTHER	OTHER
215	RDMEDIAN	21	CB>6/BAR	CURB>6 INCHES & BARRIER	02	TFSP	RAISED TRAFFIC SEPARATOR
215	RDMEDIAN	22	CB>6/LWN	CURB>6 INCHES & LAWN	17	CB&VEG	CURB & VEGETATION
215	RDMEDIAN	23	LWN/GR	LAWN & GUARDRAIL	08	VEG	VEGETATION
215	RDMEDIAN	24	LWN/FNC	GRASSED WITH FENCE	08	VEG	VEGETATION
215	RDMEDIAN	25	LWN/BAR	LAWN & BARRIER WALL	08	VEG	VEGETATION
215	RDMEDIAN	26	LWN/BAR/CB<6	LAWN, BARRIER WALL, & CURB<6 INCHES	17	CB&VEG	CURB & VEGETATION
215	RDMEDIAN	27	LWN/BAR/CB>6	LAWN, BARRIER WALL, & CURB>6 INCHES	17	CB&VEG	CURB & VEGETATION
215	RDMEDIAN	28	CANAL/DITCH	CANAL, DITCH, ETC.	20	OTHER	OTHER
215	RDMEDIAN	29	COMBO 2,3,28	COMBINATION OF 02,03,& 28	20	OTHER	OTHER
215	RDMEDIAN	30	COMBO 2,3,5,28	COMBINATION OF 02,03,05,28	20	OTHER	OTHER
215	RDMEDIAN	31	LWN/DBL GR	LAWN W/DOUBLE GUARDRAIL	08	VEG	VEGETATION
215	RDMEDIAN	32	UNPVD w/LSCP	UNPAVED W/LANDSCAPING	08	VEG	VEGETATION
215	RDMEDIAN	33	WOOD	WOODED	08	VEG	VEGETATION
215	RDMEDIAN	34	C/LSCP	CURB W/LANDSCAPING	17	CB&VEG	CURB & VEGETATION
215	RDMEDIAN	41	RND	ROUNDABOUT	NO CHANGE	RND	ROUNDABOUT
215	RDMEDIAN	42	NC RND	NON-COUNTED ROUNDABOUT	NO CHANGE	NC RND	NON-COUNTED ROUNDABOUT
215	RDMEDIAN	43	CIR	TRAFFIC CIRCLE	NO CHANGE	CIR	TRAFFIC CIRCLE
215	RDMEDIAN	44	NC CIR	NON-COUNTED TRAFFIC CIRCLE	NO CHANGE	NC CIR	NON-COUNTED TRAFFIC CIRCLE
215	RDMEDIAN	50	NC MNG LN	NON-COUNTED MANAGED LANE	NO CHANGE	NC MNG LN	NON-COUNTED MANAGED LANE

Feature	Characteristic	Code	Abbreviation	Description
219	ISLDTYPE, ISLDTYP2, ISLDTYP3	0	RC	RAISED CURB
219	ISLDTYPE, ISLDTYP2, ISLDTYP3	1	PVD	PAVED
219	ISLDTYPE, ISLDTYP2, ISLDTYP3	2	WARN	PAVED WITH WARNING DEVICE
219	ISLDTYPE, ISLDTYP2, ISLDTYP3	3	LWN	LAWN
219	ISLDTYPE, ISLDTYP2, ISLDTYP3	4	GRVL	GRAVEL/MARL
219	ISLDTYPE, ISLDTYP2, ISLDTYP3	5	VG	VALLEY GUTTER
219	ISLDTYPE, ISLDTYP2, ISLDTYP3	6	C&G	CURB & GUTTER
219	ISLDTYPE, ISLDTYP2, ISLDTYP3	7	OTHER	OTHER
219	ISLDTYPE, ISLDTYP2, ISLDTYP3	8	CRG	CURB WITH RESURFACED GUTTER