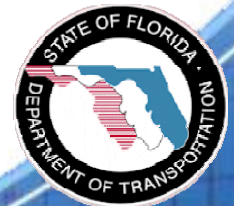
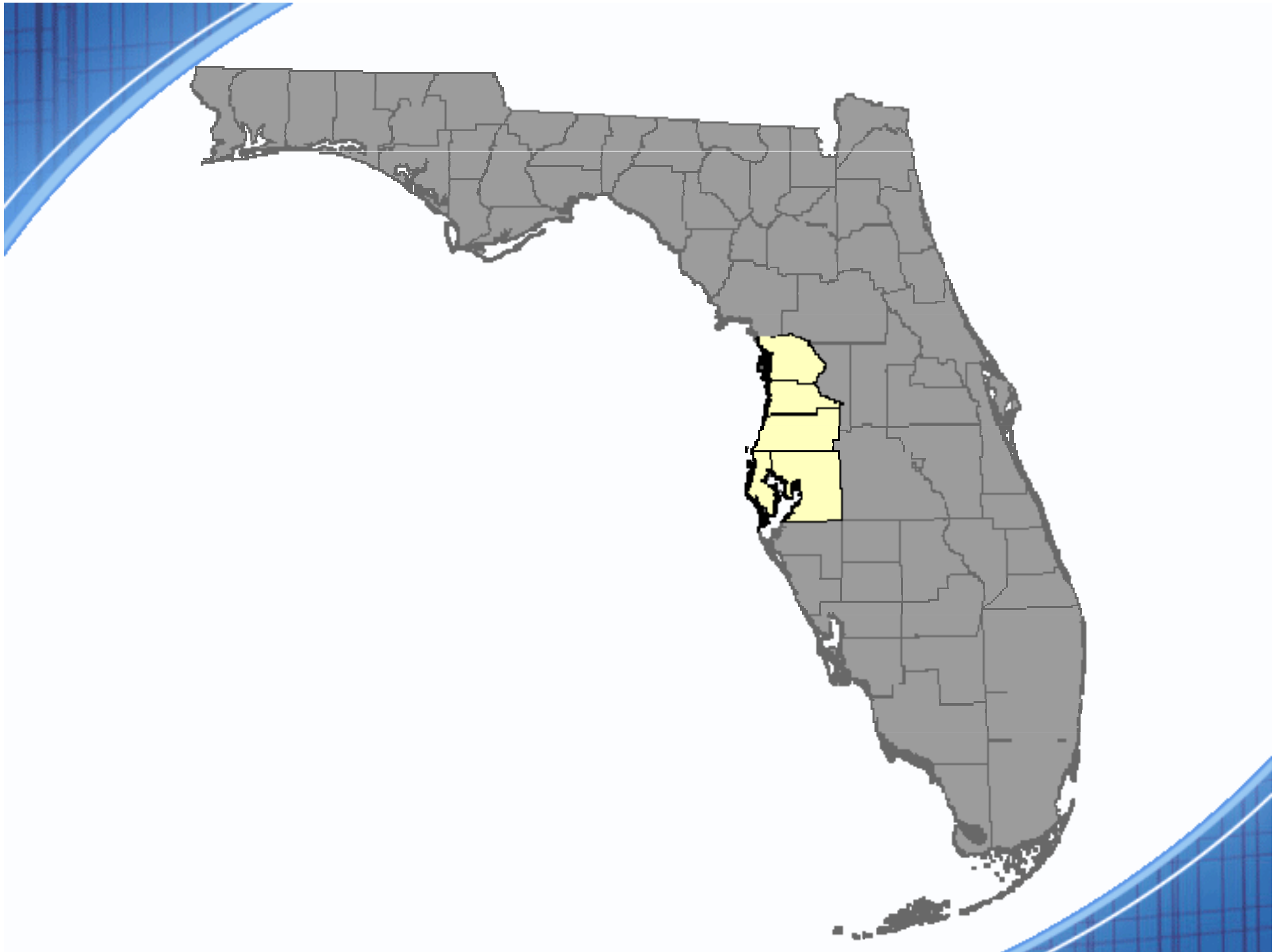
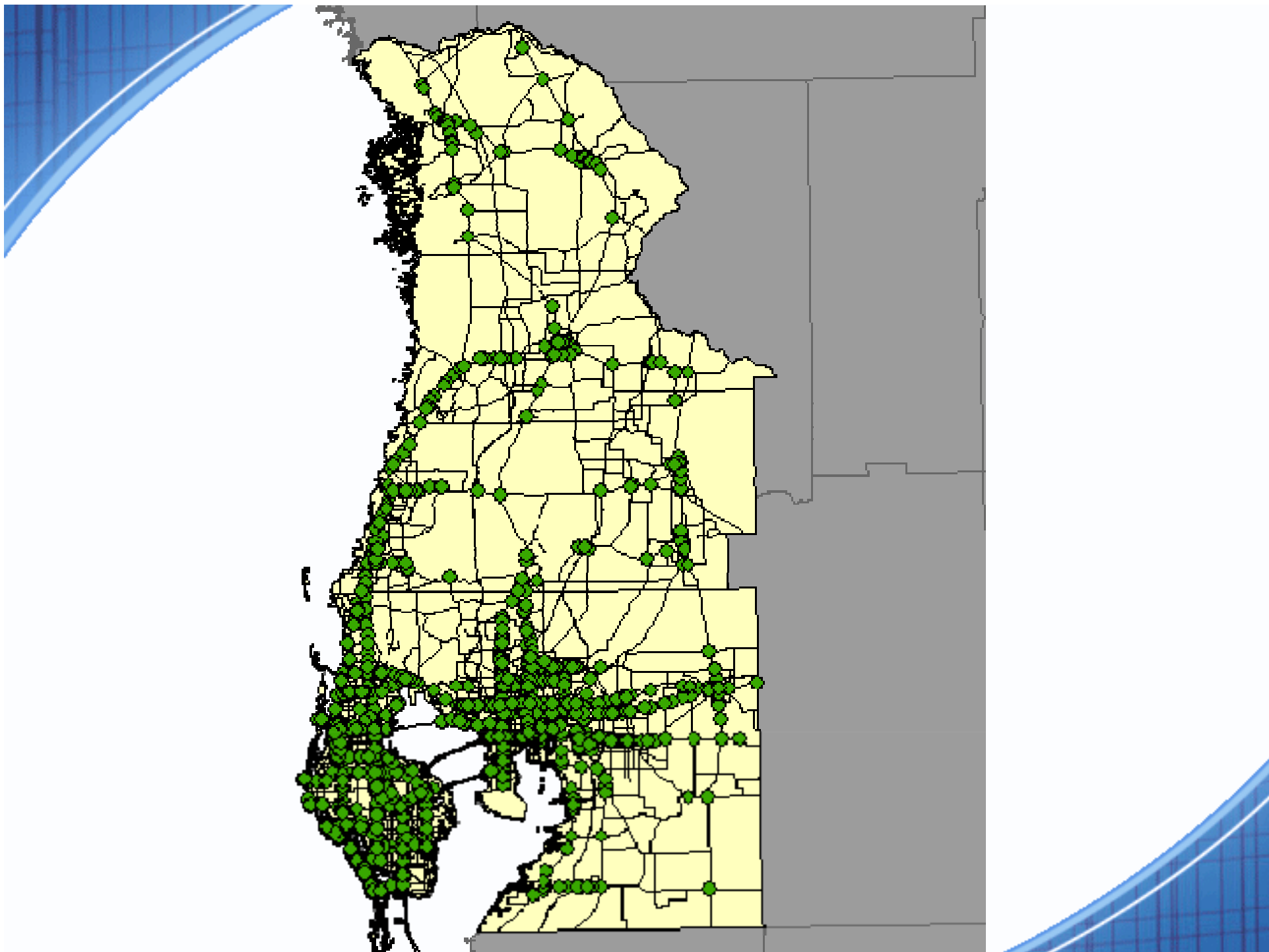


# Signal Inventory Application

By Jeffrey Engerski



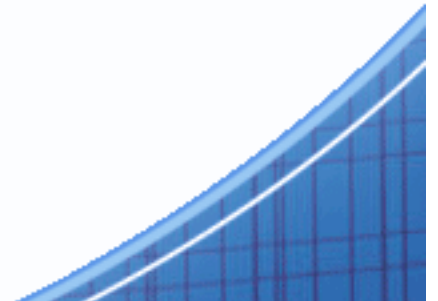






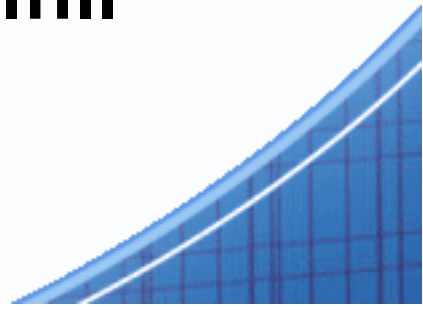
# What does it need to do?

- **Create a database of FDOT-owned signals.**
- **Provide all existing characteristics.**
  - Site layout
  - Timing
  - Equipment inventory
  - Photos
- **Provide automated maintenance tracking and reporting.**



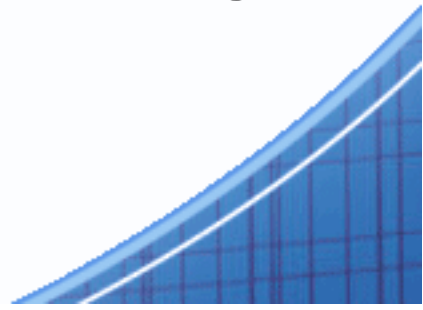


# What does it need to do?

- **Provide an interface for maintaining agencies to interact with FDOT.**
  - **Facilitate FDOT tracking of installation and maintenance agreements with locals.**
  - **Facilitate emergency response and preparedness.**
    - Provide public safety officials with operations information in case of equipment loss.
  - **Facilitate post-event restoration.**
  - **Provide access to information to fulfill public requests for information.**
- 

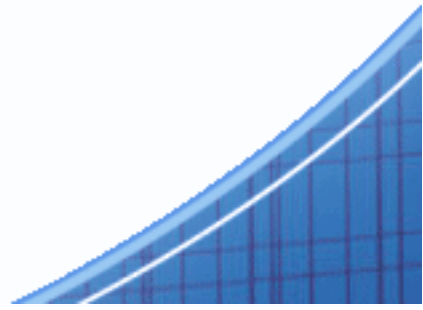


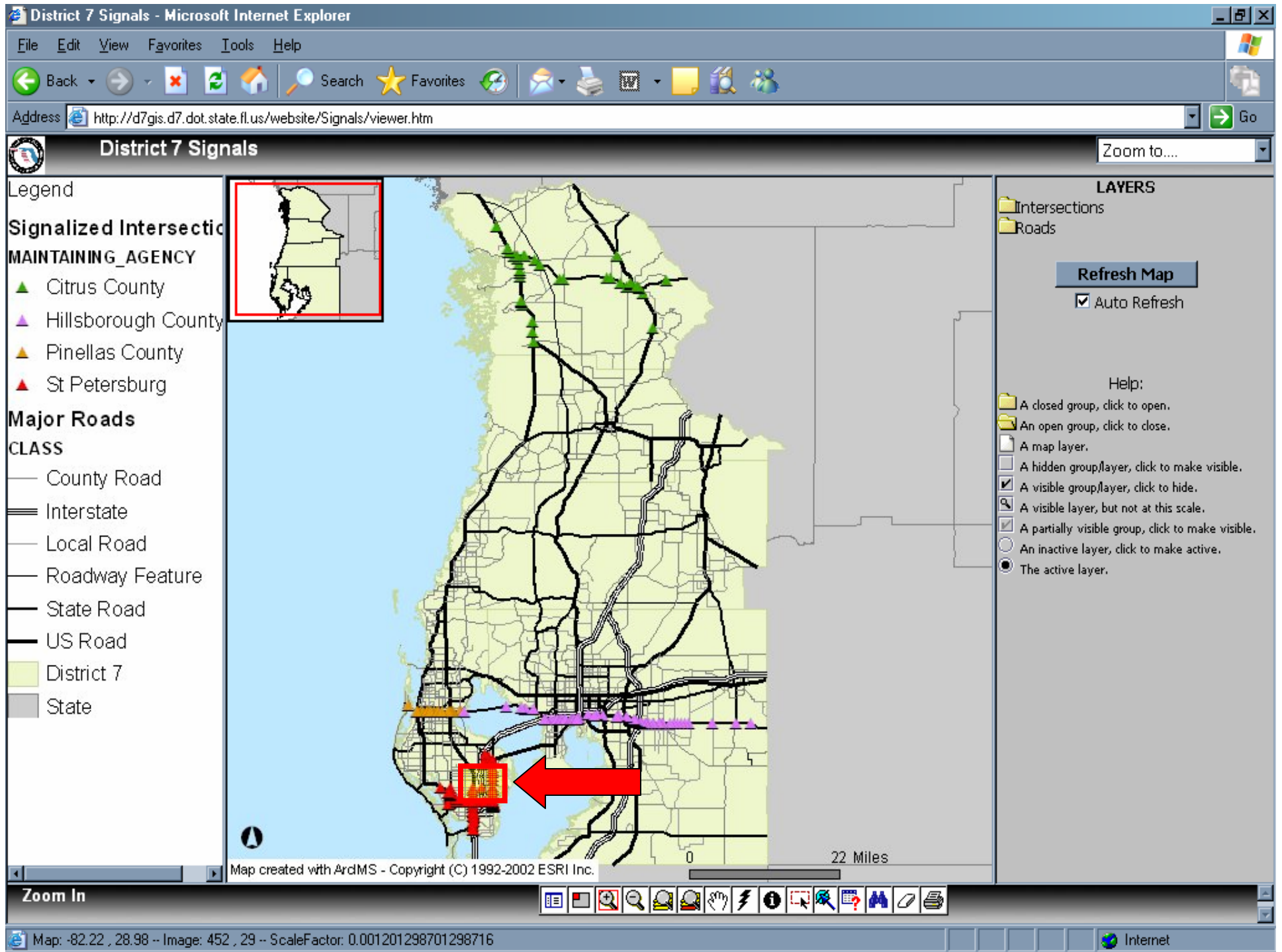
# Data Collection

- **Equipment data is collected using a handheld unit with ArcPad.**
    - All data fields are standardized to ensure consistent data entry.
    - Data points are collected accurately to within 3 meters.
  - **Photos are taken with GPS-enabled camera.**
  - **Intersection layout is sketched with aerial underlay.**
  - **Timing data is obtained from maintaining agency.**
- 

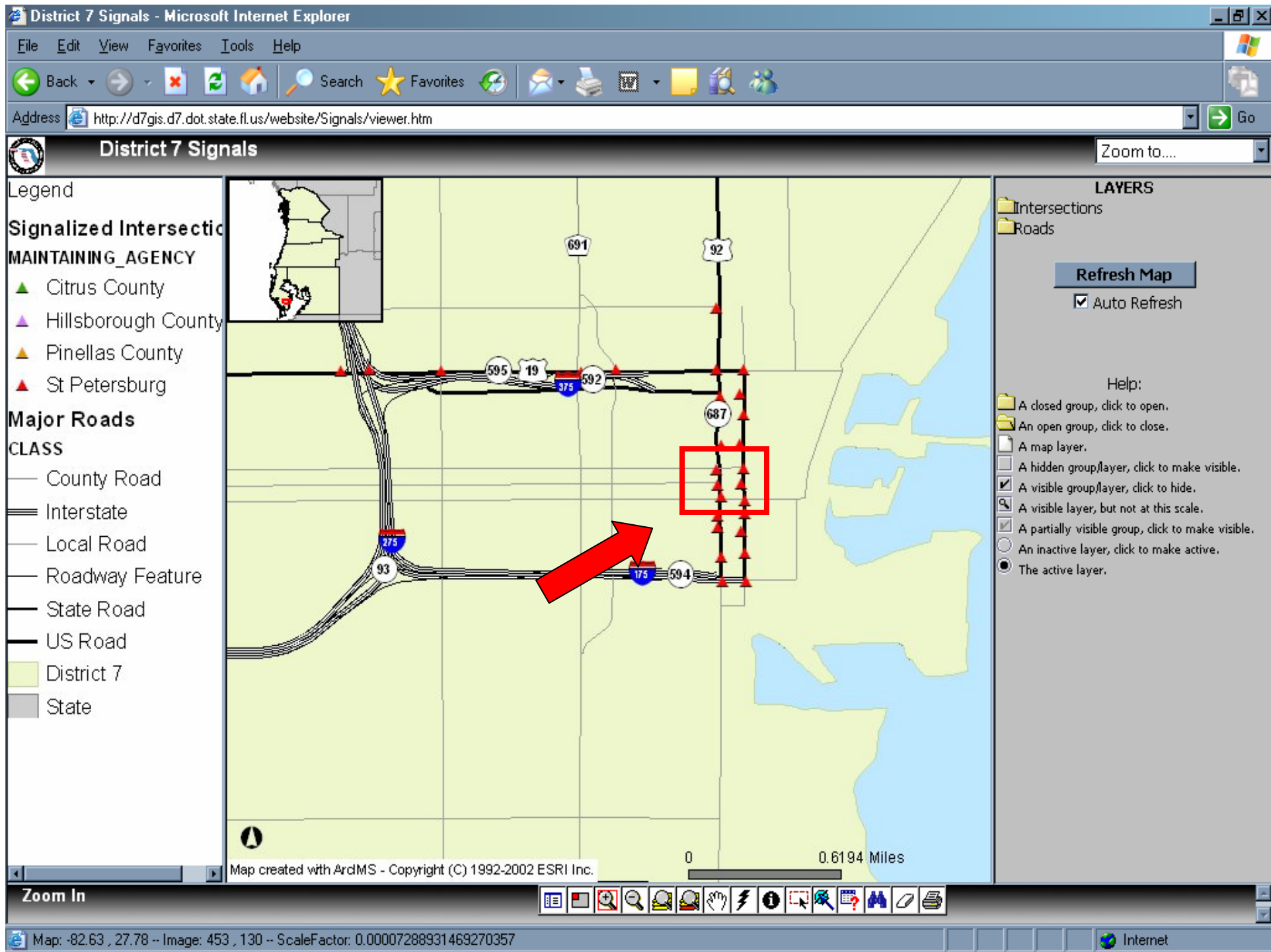


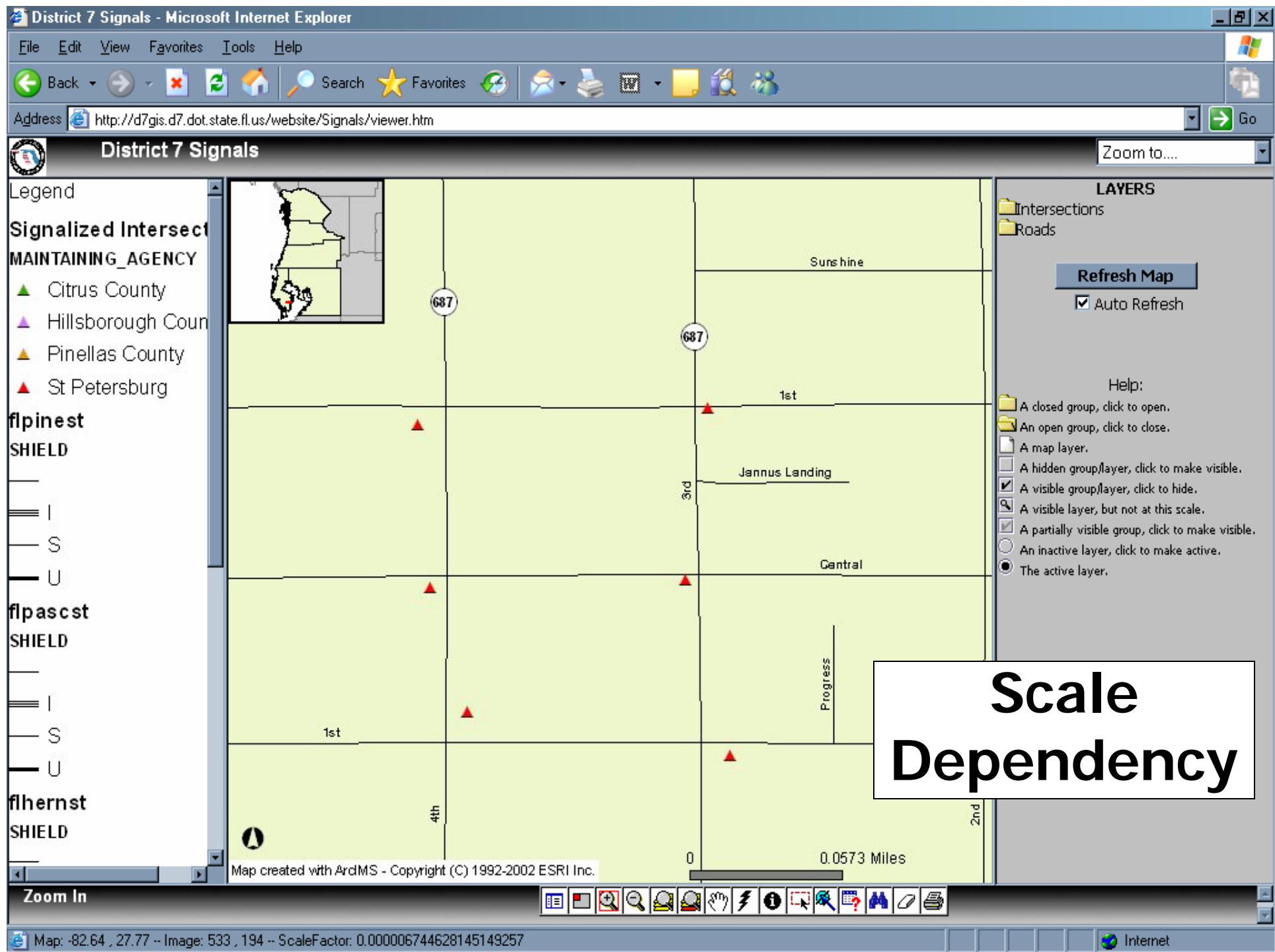
# Signal Inventory System

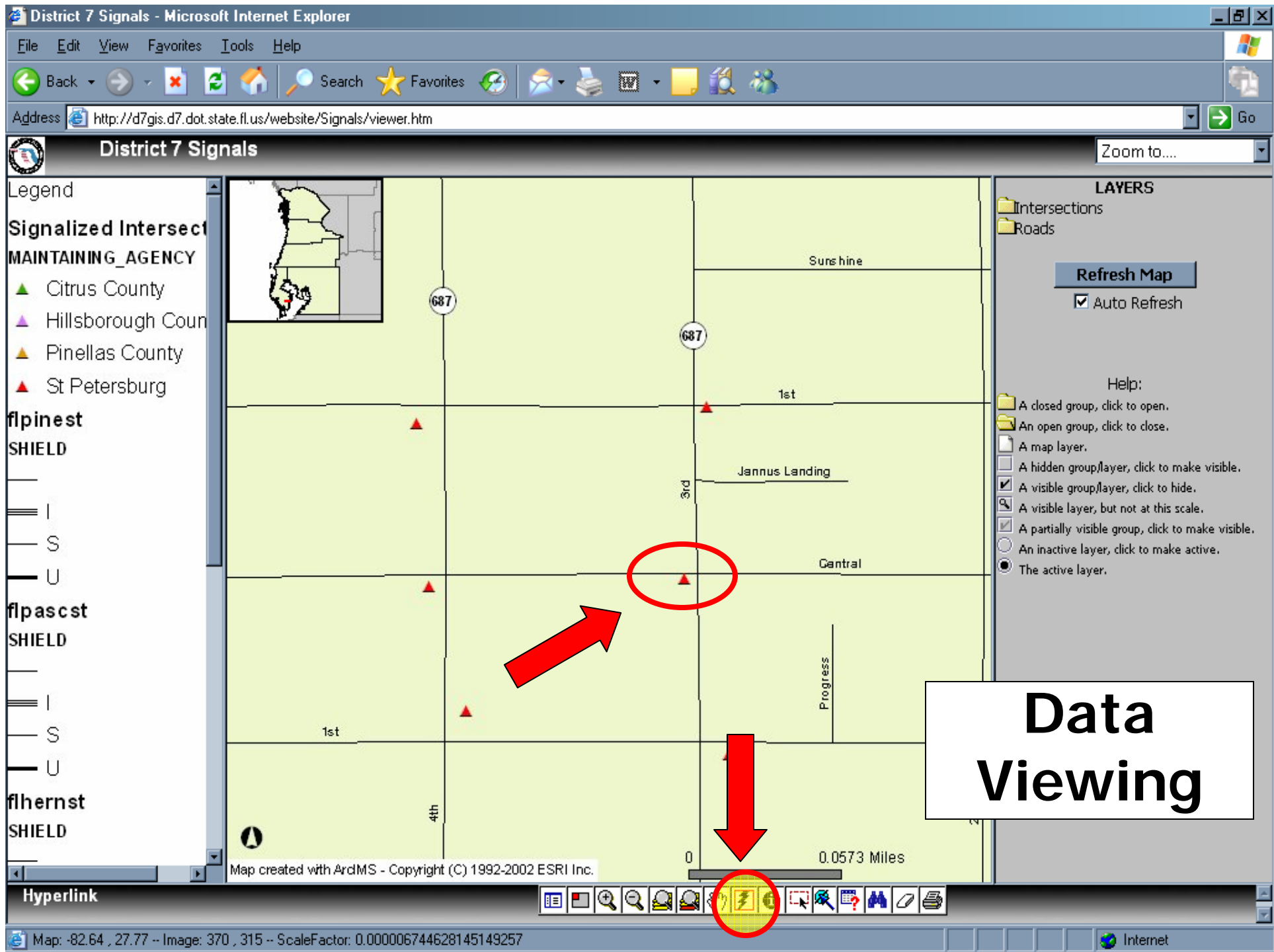
- **Standards Compliant**
    - Built using ASP.NET with VB.NET, a Microsoft Access Geodatabase and ArcIMS 4.0.1.
    - Security features are handled via Microsoft SQL Express.
  - **Easily customizable to fit the Traffic Operations Department's needs**
  - **Interface customized for each maintaining agency**
  - **Data catalog drop-downs for ease of use and standardization**
- 













## FDOT District 7 Traffic Operations: Signals

View List

Long Data Sheet

Edit Data

Map Intersection

Printer Friendly

# Short Data Sheet View

Intersection #: 15687032

County: Pinellas

Municipality: St Petersburg

Contracted Maintenance to: St Petersburg

Description: Central Ave & 3rd St

[View all data for this intersection](#)

Open Plan/Aerial Sheet: [15687032D.pdf](#)

Open Timing Sheet: [15687032.xls](#)

East Bound Photo:



West Bound Photo:



North Bound Photo:

South Bound Photo:



[View all data for this intersection](#)

Open Plan/Aerial Sheet: [15687032D.pdf](#)

Open Timing Sheet: [15687032.xls](#)

**East Bound Photo:**



**West Bound Photo:**



**North Bound Photo:**



**South Bound Photo:**



**Short  
Data Sheet  
View**



## FDOT District 7 Traffic Operations: Signals

View List

Long Data Sheet

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Map Intersection

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Intersection #: 15687032

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Open Timing Sheet: [15687032.xls](#)

East Bound Photo:



West Bound Photo:



North Bound Photo:

South Bound Photo:





# FDOT District 7 Traffic Op

## Long Data Sheet View

View List

Short Data Sheet

Edit Data

Map Intersection

Printer Friendly

[Back to Previous Window](#)

### Quick Jump Links

[General Signal Info.](#) | [Main Route Info.](#) | [Side Street Info.](#) | [Signal Info.](#) | [Controller Info.](#) | [Pole](#)  
[Operational Info.](#) | [Installation Info.](#) | [Operational Changes](#) | [Overhead Sign Info.](#)

### General Signal Information

Intersection #:	15687032	
County:	Pinellas	?
Municipality:	St Petersburg	?
Contracted Maint. to:	St Petersburg	?
Maintaining Agency:	St Petersburg	?
Agency ID:	None	?
Description:	Central Ave & 3rd St	?
Section #:	15090101	?
Mile Post:	0.44	?

**Data Field Descriptions - Microsoft Internet Explorer**

**Data Field Descriptions:**

**ID INTERSECTION:**

Eight digit identification number for each intersection.  
 Ex. 12345678  
 12 – First two digits of county number  
 345 – Main Route number (SR number)  
 678 – Designated number given to each intersection


[-close window-](#)

Done Internet

# Login Security

- **Secure Logins**
  - Encrypted passwords
  - Each agency can only access its signals.
  - FDOT can access and modify all signals.

Untitled Page - Microsoft Internet Explorer



## FDOT District 7 Traffic Operations: Signals

Log In

User Name:

Password:

☐ Remember me next time.

[Home](#) | [Public Information](#) | [People](#) | [OIS](#) | [Loss Control](#) | [Training](#)  
[Links](#) | [Infonet](#) | [Contact Us](#) | [Search](#) | [District 800 Numbers](#) | [Bulletin Board](#)





## FDOT District 7 Traffic Operations: Signals

[View List](#)[Short Data Sheet](#)[Long Data Sheet](#)[Map Intersection](#)[View Archived Data](#)

# Edit Page

You are logged in as: jeff.engerski


Edit Signal Information for St Petersburg

### Quick Jump Links

[General Signal Info.](#) | [Main Route Info.](#) | [Side Street Info.](#) | [Signal Info.](#) | [Controller Info.](#) | [Pole/SPAN Info](#) | [Pedestrian Facilities](#)  
[Operational Info.](#) | [Installation Info.](#) | [Operational Changes](#) | [Overhead Sign Info.](#) | [Timings and Plans](#) | [Signal Images](#)

General Signal Information		
Intersection #:	<input type="text" value="15687032"/>	<a href="#">?</a>
County:	<input type="text" value="Pinellas"/>	<a href="#">?</a>
Change County:	<--Select-->	
Municipality:	<input type="text" value="St Petersburg"/>	<a href="#">?</a>
Change Municipality:	<--Select-->	
Contracted Maint. to:	<input type="text" value="St Petersburg"/>	<a href="#">?</a>
Change Contracted Maint.To:	<--Select-->	
Maintaining Agency:	<input type="text" value="St Petersburg"/>	<a href="#">?</a>
Change Maintaining Agency:	<--Select-->	
Agency ID:	<input type="text"/>	<a href="#">?</a>

St Petersburg Edit Data - Microsoft Internet Explorer

 **FDOT District 7 Traffic Operations: Signals**

St Petersburg Edit Data - Microsoft Internet Explorer

Speed:	<input type="text" value="30"/>	<a href="#">?</a>
<b>Side Street Information</b>		
Name:	<input type="text" value="Central Ave"/>	<a href="#">?</a>
Local Name:	<input type="text"/>	<a href="#">?</a>
Alt Name:	<input type="text"/>	<a href="#">?</a>
Speed:	<input type="text" value="15"/>	<a href="#">?</a>
<b>Signal Information</b>		
Signal Type:	<input type="text" value="Stop &amp; Go"/>	<a href="#">?</a>
Change Signal Type:	<input type="text" value="&lt;--Select--&gt;"/>	<a href="#">?</a>
Signal Head:	<input type="text" value="Emergency Signal"/>	<a href="#">?</a>
Change Signal Head:	<input type="text" value="Flashing Beacon"/>	<a href="#">?</a>
Signal Head Type:	<input type="text" value="Vertical"/>	
# of 3 Section Heads:	<input type="text" value="5"/>	<a href="#">?</a>
	<input type="text" value="1"/>	

- Dropdown lists for all standard data input.
- Lists were developed to avoid typing mistakes and to standardize data for future reporting tools.

Update Data  
View Intersection Archive

### Plan/Aerial Sheets and Timings

**Plan/Aerial Sheet:**  
**Replace Plan/Aerial Sheet:**

[15687032D.pdf](#)

Browse...

Submit New Plan/Aerial Sheet

View Plan/Aerial Archive

?

**Timing Sheet:**  
**Replace Timing Sheet:**

[15687032.xls](#)

Browse...

Submit New Timing Sheet

View Timing Archive

?

### Signal Images

**East Bound Photo:**



Browse...

Submit New East Image

**West Bound Photo:**



Browse...

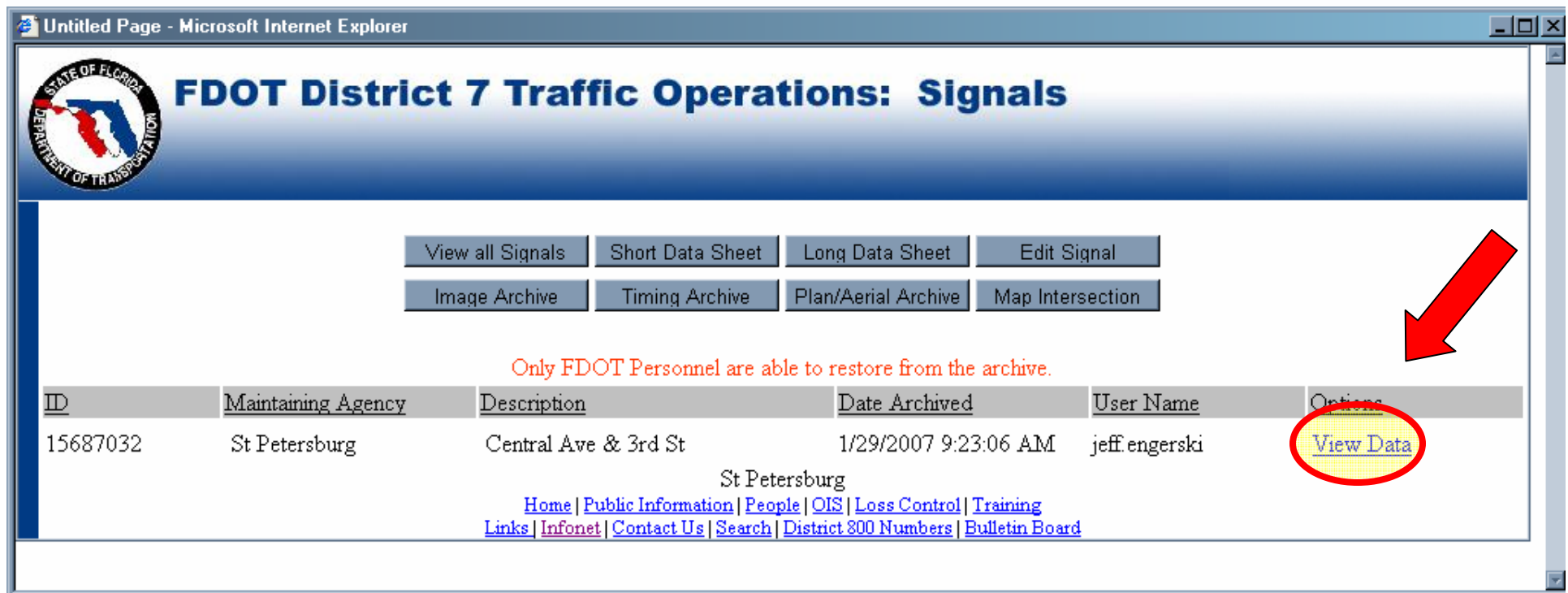
Submit New West Image

View Image Archive

# Archive Data List

- **Designed to protect the data**
  - When a change is made to a signal, all information previous to the change is archived.
  - Only FDOT personnel are allowed to restore archived signals.

Untitled Page - Microsoft Internet Explorer



The screenshot shows a web application interface for FDOT District 7 Traffic Operations: Signals. It features a header with the FDOT logo and a title bar. Below the title bar are several buttons for navigation: View all Signals, Short Data Sheet, Long Data Sheet, Edit Signal, Image Archive, Timing Archive, Plan/Aerial Archive, and Map Intersection. A red arrow points to the 'View Data' link in the 'Options' column of a table. The table has columns for ID, Maintaining Agency, Description, Date Archived, User Name, and Options. A red circle highlights the 'View Data' link in the 'Options' column for the first row.

**FDOT District 7 Traffic Operations: Signals**

Only FDOT Personnel are able to restore from the archive.

ID	Maintaining Agency	Description	Date Archived	User Name	Options
15687032	St Petersburg	Central Ave & 3rd St	1/29/2007 9:23:06 AM	jeff.engerski	<a href="#">View Data</a>

St Petersburg

[Home](#) | [Public Information](#) | [People](#) | [OIS](#) | [Loss Control](#) | [Training](#)  
[Links](#) | [Infonet](#) | [Contact Us](#) | [Search](#) | [District 800 Numbers](#) | [Bulletin Board](#)



# FDOT District 7 Traffic Operations: Signals

View List

Short Data Sheet

Long Data Sheet

Edit Intersection

Printer Friendly

Restore From Archive

View Archive List

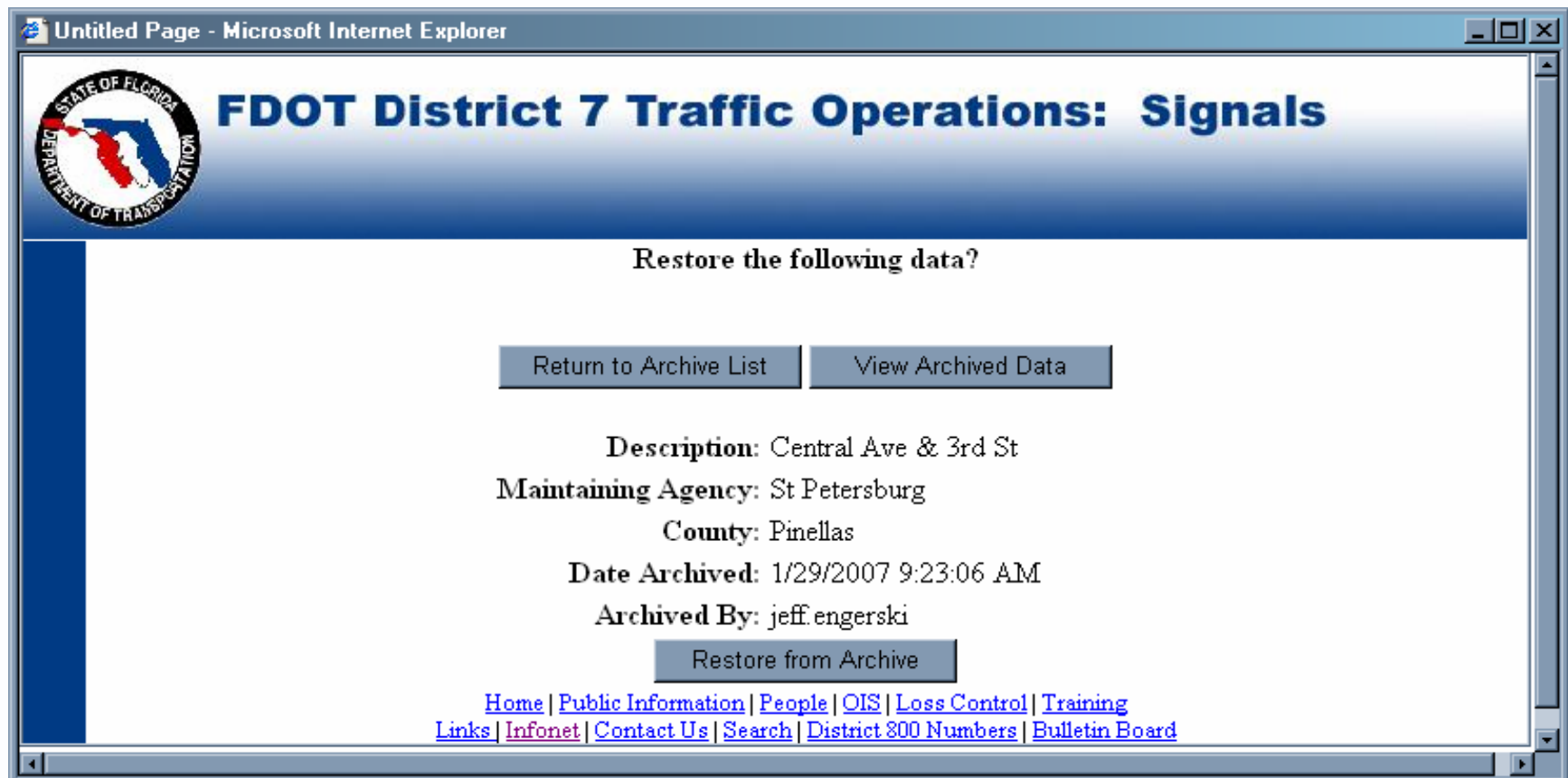
## Quick Jump Links

[General Signal Info.](#) | 
 [Main Road Info.](#) | 
 [Side Street Info.](#) | 
 [Signal Info.](#) | 
 [Controller Info.](#) | 
 [Pole/SPan Info.](#) | 
 [Pedestrian Facilities](#)  
[Operational Info.](#) | 
 [Installation Info.](#) | 
 [Operational Changes](#) | 
 [Overhead Sign Info.](#) | 
 [Signal Images](#)

General Signal Information		
Date Archived:	1/29/2007 9:23:06 AM	
Name:	jeff.engerski	
Intersection #:	15687032	<a href="#">?</a>
County:	Pinellas	<a href="#">?</a>
Municipality:	St Petersburg	<a href="#">?</a>
Contracted Maint. to:	St Petersburg	<a href="#">?</a>
Maintaining Agency:	St Petersburg	<a href="#">?</a>
Agency ID:	None	<a href="#">?</a>
Description:	Central Ave & 3rd St	<a href="#">?</a>
Section #:	15090101	<a href="#">?</a>
Mile Post:	0.44	<a href="#">?</a>

# Restore From Archive

- By pressing Restore from Archive the archive data is moved to the live database and the live information is moved to the archive database.







## FDOT District 7 Traffic Operations: Signals

View List

Long Data Sheet

Edit Data

Map Intersection

Printer Friendly

Intersection #: 15687032

County: Pinellas

Municipality: St Petersburg

Contracted Maintenance to: St Petersburg

Description: Central Ave & 3rd St

[View all data for this intersection](#)

Open Plan/Aerial Sheet: [15687032D.pdf](#)

Open Timing Sheet: [15687032.xls](#)

Getting  
to the  
Signal List

East Bound Photo:



West Bound Photo:



North Bound Photo:

South Bound Photo:



# FDOT District 7 Traffic Operations: Signals

GIS Website

Add New Signal

Map

County: <--Select-->

Municipality: <--Select-->

Maintaining Agency: <--Select-->

Description: <--Select-->

Side Street: <--Select-->

Main Route: <--Select-->

Reset Query

Description ▲▼	County ▲▼	Maintaining Agency ▲▼	Options
38th Ave N & 66th St	Pinellas	St Petersburg	<a href="#">View</a> <a href="#">Edit</a> <a href="#">Map</a>
30th Ave N & 66th St	Pinellas	St Petersburg	<a href="#">View</a> <a href="#">Edit</a> <a href="#">Map</a>
26th Ave N & 66th St	Pinellas	St Petersburg	<a href="#">View</a> <a href="#">Edit</a> <a href="#">Map</a>
22nd Ave N & 66th St	Pinellas	St Petersburg	<a href="#">View</a> <a href="#">Edit</a> <a href="#">Map</a>
18th Ave N & 66th St	Pinellas	St Petersburg	<a href="#">View</a> <a href="#">Edit</a> <a href="#">Map</a>
13th Ave N & 66th St	Pinellas	St Petersburg	<a href="#">View</a> <a href="#">Edit</a> <a href="#">Map</a>
9th Ave N & 66th St	Pinellas	St Petersburg	<a href="#">View</a> <a href="#">Edit</a> <a href="#">Map</a>
5th Ave N & 66th St	Pinellas	St Petersburg	<a href="#">View</a> <a href="#">Edit</a> <a href="#">Map</a>
66th St & Pasadena Ave	Pinellas	St Petersburg	<a href="#">View</a> <a href="#">Edit</a> <a href="#">Map</a>
Central Ave & Pasadena Ave	Pinellas	St Petersburg	<a href="#">View</a> <a href="#">Edit</a> <a href="#">Map</a>
1st Ave S & Pasadena Ave	Pinellas	St Petersburg	<a href="#">View</a> <a href="#">Edit</a> <a href="#">Map</a>
9th St MLK Blvd & Roosevelt Rd	Pinellas	St Petersburg	<a href="#">View</a> <a href="#">Edit</a> <a href="#">Map</a>
16th St N & Roosevelt Rd	Pinellas	St Petersburg	<a href="#">View</a> <a href="#">Edit</a> <a href="#">Map</a>
9th St & Gandy Blvd	Pinellas	St Petersburg	<a href="#">View</a> <a href="#">Edit</a> <a href="#">Map</a>
Frontage Rd & Gandy Blvd	Pinellas	St Petersburg	<a href="#">View</a> <a href="#">Edit</a> <a href="#">Map</a>
I-275 Northside & Gandy Blvd	Pinellas	St Petersburg	<a href="#">View</a> <a href="#">Edit</a> <a href="#">Map</a>





# FDOT District 7 Traffic Operations: Signals

GIS Website

Add New Signal

Map

County: <--Select-->

Municipality: <--Select-->

Maintaining Agency: <--Select-->

Description: <--Select-->

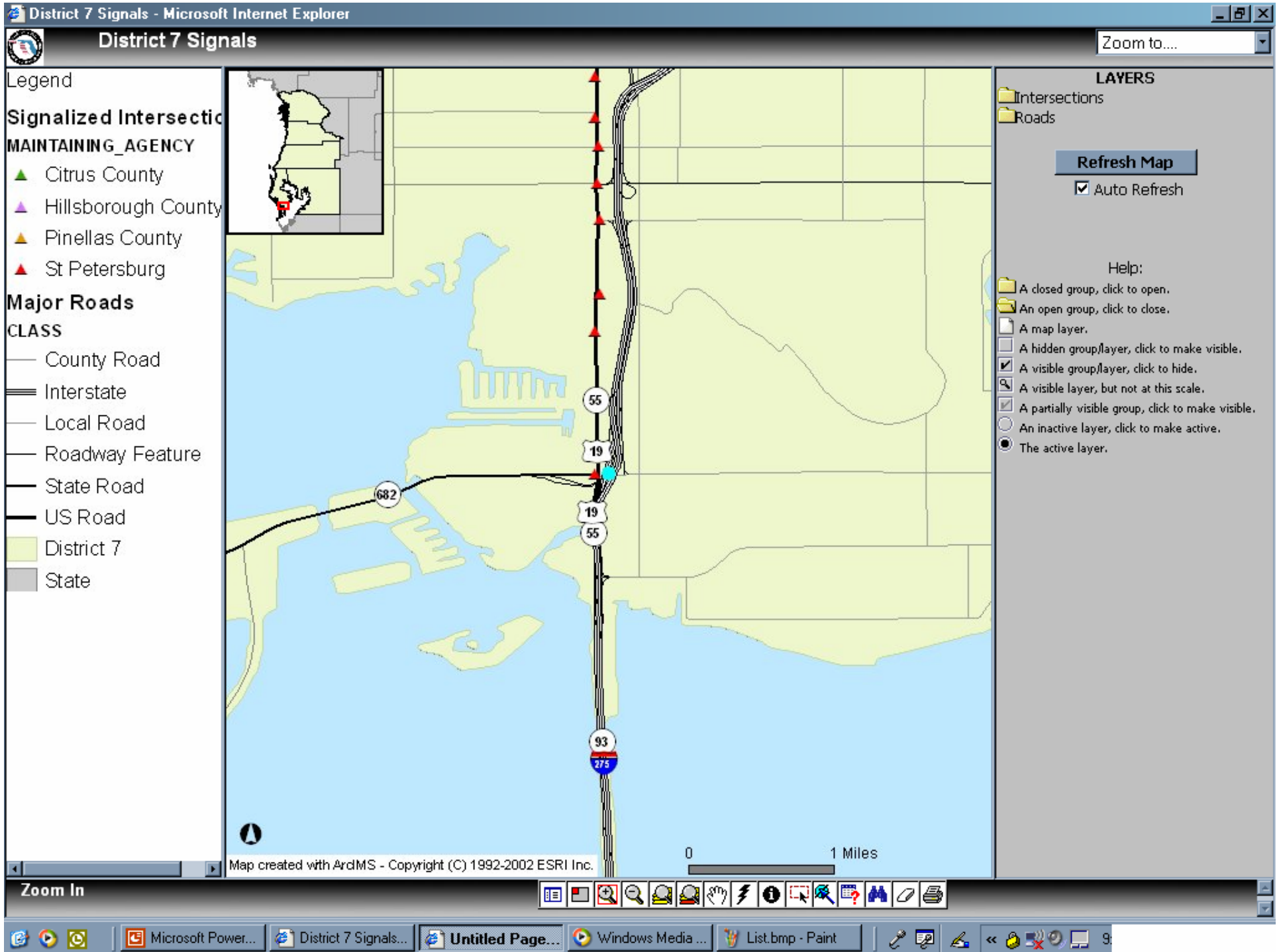
Side Street: <--Select-->

Main Route: SR 60

Reset Query

Description ▲▼	County ▲▼	Maintaining Agency ▲▼	Options
SR60 & Pierce St.	Hillsborough	Hillsborough County	<a href="#">View</a> <a href="#">Edit</a> <a href="#">Map</a>
SR60 Marion St.	Hillsborough	Hillsborough County	<a href="#">View</a> <a href="#">Edit</a> <a href="#">Map</a>
SR60 & Henderson Blvd.	Hillsborough	Hillsborough County	<a href="#">View</a> <a href="#">Edit</a> <a href="#">Map</a>
SR 60 & DAMASCUS RD.	Pinellas	Pinellas County	<a href="#">View</a> <a href="#">Edit</a> <a href="#">Map</a>
SR 60 & BAYSHORE BLVD.	Pinellas	Pinellas County	<a href="#">View</a> <a href="#">Edit</a> <a href="#">Map</a>
SR 60 & CR 611	Pinellas	Pinellas County	<a href="#">View</a> <a href="#">Edit</a> <a href="#">Map</a>
SR 60 & HAMPTON RD.	Pinellas	Pinellas County	<a href="#">View</a> <a href="#">Edit</a> <a href="#">Map</a>
SR 60 & SKY HARBOR DR.	Pinellas	Pinellas County	<a href="#">View</a> <a href="#">Edit</a> <a href="#">Map</a>
SR 60 & PARK PL. BLVD.	Pinellas	Pinellas County	<a href="#">View</a> <a href="#">Edit</a> <a href="#">Map</a>
SR 60 & CLEARWATER MALL	Pinellas	Pinellas County	<a href="#">View</a> <a href="#">Edit</a> <a href="#">Map</a>
SR 60 & US 19	Pinellas	Pinellas County	<a href="#">View</a> <a href="#">Edit</a> <a href="#">Map</a>
SR 60 & OLD COACHMAN RD.	Pinellas	Pinellas County	<a href="#">View</a> <a href="#">Edit</a> <a href="#">Map</a>
SR 60 & ARCTURUS AVE.	Pinellas	Pinellas County	<a href="#">View</a> <a href="#">Edit</a> <a href="#">Map</a>
SR 60 & Lois Dr.	Hillsborough	Hillsborough County	<a href="#">View</a> <a href="#">Edit</a> <a href="#">Map</a>
SR 60 & Dale Mabry Hwy.	Hillsborough	Hillsborough County	<a href="#">View</a> <a href="#">Edit</a> <a href="#">Map</a>







**Questions?**