Florida Model Task Force Meeting

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District Growth and Development/ Modeling Supervisor
# 2014 DISTRICT TWO LOS ANALYSIS

<table>
<thead>
<tr>
<th>Road</th>
<th>Map ID</th>
<th>Local</th>
<th>Segment Description</th>
<th>Location</th>
<th>Lanes</th>
<th>Facility Area Type</th>
<th>Committed</th>
<th>Miles</th>
<th>Speed</th>
<th>Count Station</th>
<th>Std Source</th>
<th>LOS STD</th>
<th>MSV Adj.</th>
<th>Max Service Volume</th>
<th>2013 Traffic</th>
<th>2014 Traffic</th>
<th>LOS Growth Rate</th>
<th>2019 Traffic</th>
<th>LOS Traffic</th>
<th>2035 Traffic</th>
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</thead>
<tbody>
<tr>
<td></td>
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<td>Freeway Transition</td>
<td>□</td>
<td>3.22</td>
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<td>B 1%</td>
<td>2,468</td>
<td>B</td>
<td>2,835 B</td>
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<td>From Nassau Co. Line to US 301</td>
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<td>4/D</td>
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<td>□</td>
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<td>FDOT</td>
<td>Local</td>
<td>D</td>
<td>6,700</td>
<td>4,005</td>
<td>4,256 C</td>
<td>Var 1%</td>
<td>4,257</td>
<td>C</td>
<td>4,624 C</td>
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<td>From US 301 to SR 23</td>
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<td>From SR 23 to Chaffee Rd</td>
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<td>70 MPH</td>
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<td>From Chaffee Rd. to Greenland Ave</td>
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<td>0.59</td>
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<td>7,101 C</td>
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<td>From Greenland Ave to I-295</td>
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<td>1.11</td>
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<td>D</td>
<td>11,860</td>
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<td>7,990 C</td>
<td>1% 8,449</td>
<td>9,741</td>
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</tbody>
</table>

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Page 1

* = SIS Facility
Source: 12/18/12 Generalized Tables

Count Station Flags: c = class count  
# = Reflects possible capacity, resurfacing or construction improvements

6/26/2015
Motivation & Purpose

• Improve accuracy of results
  – Utilize travel demand model results
  – Consider auxiliary lanes in MSV
• Enhance user friendliness
  – Interactive mapping system as opposed to static pdfs
  – Ease of annual update and reporting
Conceptualization

- Leverage existing analysis and data
- Network conflation
- Integrated system

MS Excel

Cube

GIS

Innovation

2 + 2 = 5

No thanks!
We are too busy
Implementation
Level of Service

FDOT DISTRICT TWO

First-Time User?  Returning User?

View Navigation Guide  Start Using LOS Tool

http://fdot-d2-los.hdrgateway.com/
The Map Legend feature allows the user to toggle on/off data layers using the check boxes. Some features are scale dependent, meaning they will only display when zoomed to a certain level.
The Location Search feature allows the user to search for a specific address, intersection, or landmark which will be displayed with a location marker on the map. Simply type in an address (or landmark) in the search box and the tool will identify the location on the map with a marker and label.
The Attribute Search feature allows the user to conduct a screen of one specific map layer, the visible layers only, or all layers contained in the Map Legend based on a search definition put into the search value box. The search can be conducted on all attribute fields or limited to one specific field picked from a list. The map will automatically zoom to the feature(s) returned by the search and can be highlighted by the user as needed.
The Map Information feature allows the user to click on any feature in the map to obtain and view attribute information, highlight the feature on the map, print or export the attribute table, and create an LOS segment report.
The LOS Report feature provides the user with the ability to create LOS reports for an entire county, a single segment or a custom selection of segments. The reports are created in PDF format and can be viewed and downloaded by the user.

Pick a county from the drop down list and print a comprehensive LOS report for the respective county. The report will be displayed in a new browser tab.

Switch between List Selection and Map Selection.
Pick a specific LOS segment from a dropdown list which contains only segments for the selected county. The map will automatically zoom to and highlight the selected feature.

Create a single-page report for the selected feature and/or export the attributes to an Excel file.
Select segments on the map by pressing down the left mouse button to start and letting it go to finish. The selected features will be displayed in a list. The user can add and/or remove features from the selection or clear the entire selection as needed.

Create a multi-page segment report for the selected features and/or export attributes for all segments to an Excel file.
**LOS Segment Report**

**Segment characteristics**

- **Segment Id:** 215
- **Segment Length (miles):** 0.658
- **Location:** Macclenny
- **County:** Baker
- **Roadway Id:** 27030000
- **Begin MP:** 10.137
- **End MP:** 10.796
- **SIS:** No
- **SIS Type:** Non SIS
- **Median Treatment:** Divided
- **Directionality:** Two-Way
- **Facility Type:** Arterial
- **Area Type:** Transition
- **Standard K:** 0.090
- **Local LOS Standard:** D
- **FDOT LOS Standard:** C
- **Max. Service Vol. Adj. Factor:** 0.05

**Segment description**

- **SR 121 / S 6th St. from Lowder St to SR 10/US 90**

**Hyperlink to Google Street View**

**Segment location map**

**Existing and projected service volumes and LOS analysis results**

<table>
<thead>
<tr>
<th>Projected Values</th>
<th>2015</th>
<th>2020</th>
<th>2025</th>
<th>2030</th>
<th>2035</th>
<th>2040</th>
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<tbody>
<tr>
<td>Number of Lanes</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
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<tr>
<td>AADT</td>
<td>11,481</td>
<td>12,789</td>
<td>14,098</td>
<td>15,406</td>
<td>16,714</td>
<td>18,023</td>
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<tr>
<td>Peak Hour Traffic Volume</td>
<td>1,033</td>
<td>1,104</td>
<td>1,199</td>
<td>1,269</td>
<td>1,339</td>
<td>1,519</td>
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<tr>
<td>Peak Hour Maximum Service Volume at LOS Standard</td>
<td>609</td>
<td>809</td>
<td>909</td>
<td>909</td>
<td>909</td>
<td>909</td>
</tr>
<tr>
<td>Peak Hour LOS</td>
<td>D</td>
<td>D</td>
<td>D</td>
<td>D</td>
<td>D</td>
<td>D</td>
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<tr>
<td>Volume to Capacity Ratio at LOS Standard</td>
<td>1.70</td>
<td>1.89</td>
<td>2.08</td>
<td>2.28</td>
<td>2.47</td>
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<tr>
<td>Volume to Capacity Ratio at LOS E</td>
<td>0.77</td>
<td>0.86</td>
<td>0.94</td>
<td>1.03</td>
<td>1.12</td>
<td>1.21</td>
</tr>
</tbody>
</table>

**Notes:** Facility is an Divided Two-Lane Arterial with left turn lanes causing a +5% adjustment factor to be applied.

**Segment specific notes/comments**

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The Graphic Markup feature allows the user to draw specific features on top of the map such as points, lines, polygons, and text.

Use the Graphic Themes menu to define the color palette for the specific graphics to be drawn on the map.
The Print Map feature allows the user to create a static PDF map of the current extent that includes all layers, legend, graphics and selections present on the screen at the time of export. Choose from a list of available template sizes and enter a custom map title.
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