



Keystone Odessa Community Plan – Transportation Issues

January 11, 2011

Transportation Issues

■ What happens if Gunn Hwy is widened?

- How are the roads defined
- What are current conditions
- Who is using the roads
- What are the current plans
- What are some options

How are the roads defined?

Urban Boundary Definitions

■ Urbanized Area

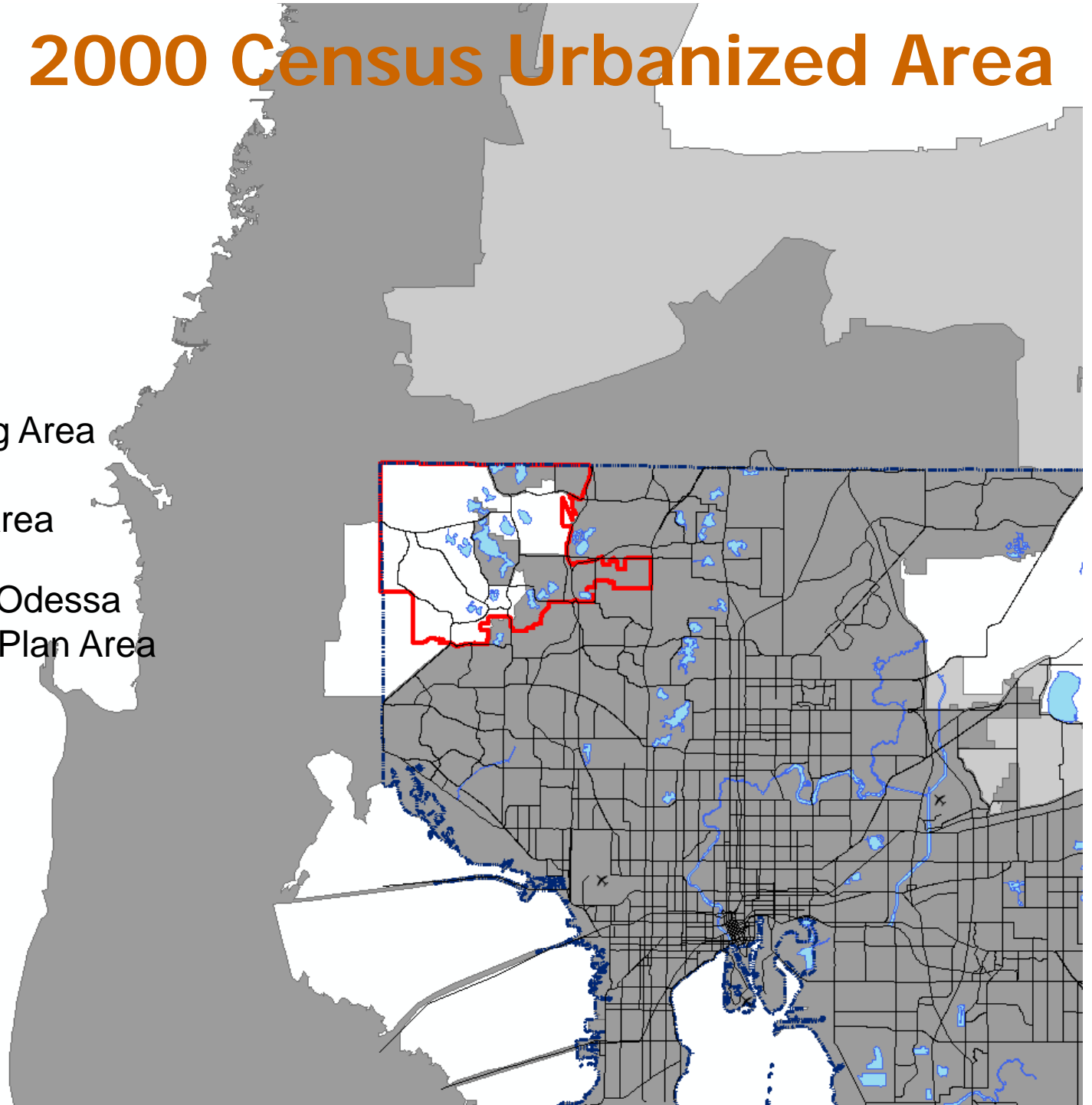
- An area that consists of a densely settled core of census block groups that meet minimum population density requirements – at least 50,000 people. “Densely settled” means one or more contiguous block groups that have a total land area less than or equal to two square miles and a density of at least 1,000 people per square mile.

■ Transitioning Area

- An area that is expected to become urbanized over the next 20 years.

2000 Census Urbanized Area

- Transitioning Area
- Urbanized Area
- Keystone – Odessa Community Plan Area



Federal Functional Classification Definition

☑ Arterial

- The group of roads constituting the highest degree of mobility and largest portion of total travel

☑ Rural Minor Arterial

- Serves an urban area if it penetrates or comes within 2 miles of the urban boundary

☑ Tarpon Springs Rd

☑ Gunn Hwy

☑ Van Dyke Rd

☑ Race Track

Federal Functional Classification Definition

Collector

- The group of roads providing a mix of mobility and land access functions linking major land uses to each other or to the arterial highway system.

Rural Minor Collector

- Roads that are spaced at intervals to collect traffic from local roads and to insure that all urbanized areas are within a reasonable distance of a collector road

Patterson Road

Lutz Lake Fern Road

Local Functional Classification Definition

■ The Hillsborough County functional classification system is used in various County regulations that apply to Community Plans or regulate, for example, the placement of signs and the placement of residential traffic control devices such as speed humps.

■ Boy Scout Road

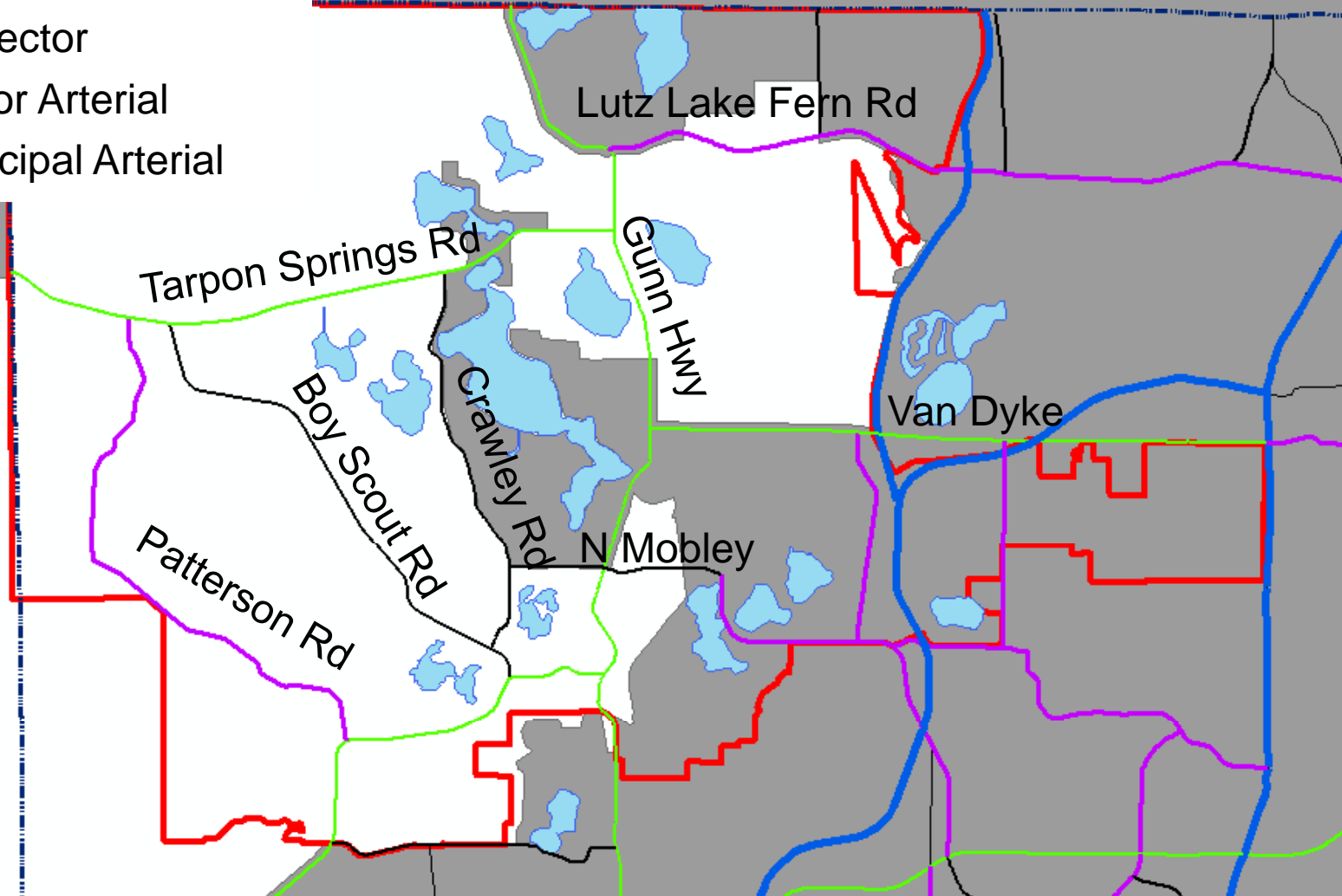
■ Crawley Rd

■ N Mabley

■ Wayne Rd

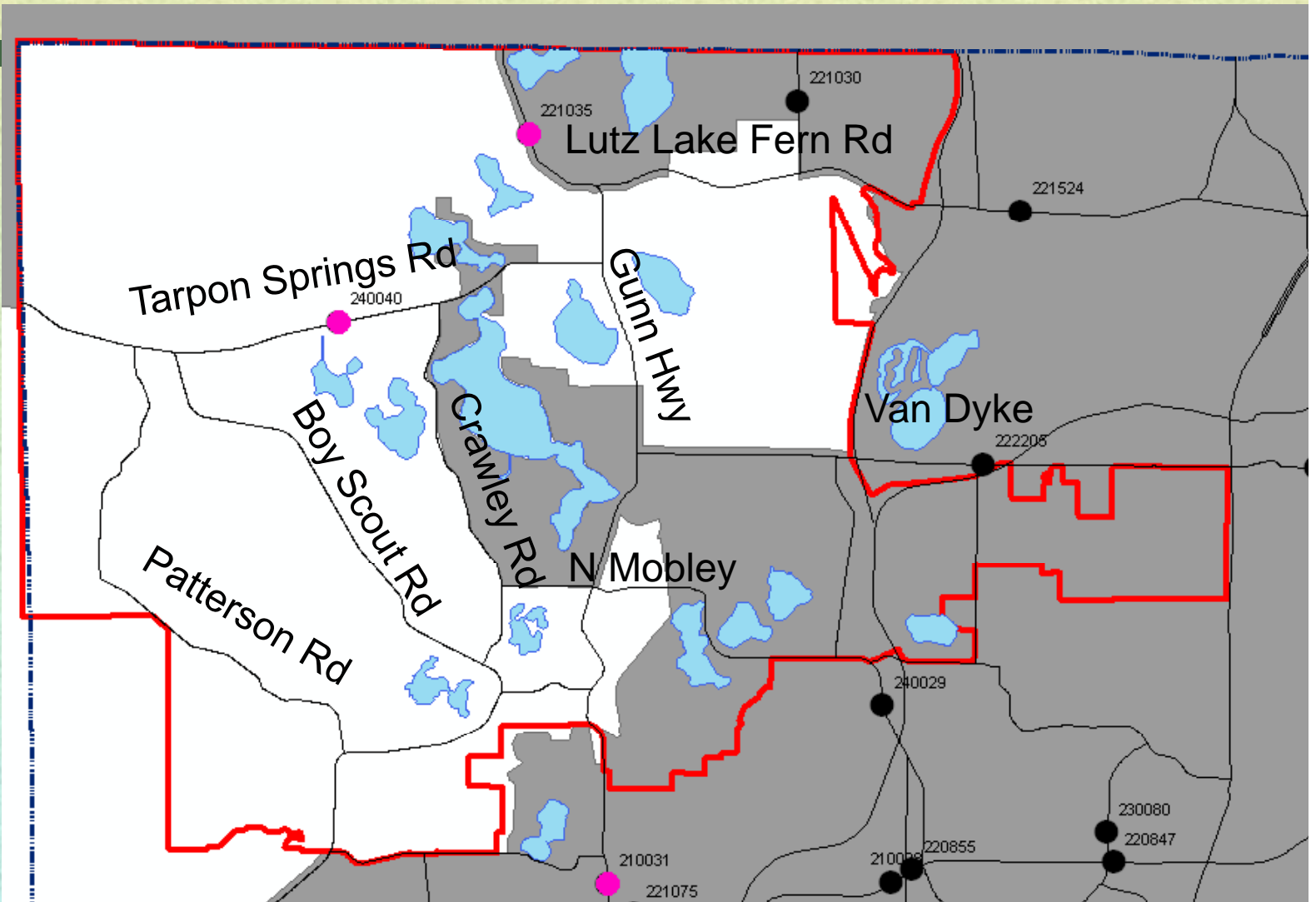
Roadway Functional Classification

- Urbanized Area
- Keystone – Odessa Community Plan Area
- Local Collector
- Collector
- Minor Arterial
- Principal Arterial



What are the current conditions?

2010 Traffic Counts



2010 Traffic Counts

■ Tarpon Springs Road

- Peak Hour 4:45 – 5:45 PM
- WB Peak Direction

■ Gunn Hwy north of Lutz Lake Fern

- Peak Hour 5:00 – 6:00 PM
- NB Peak Direction

■ Gunn Hwy south of S Mobley

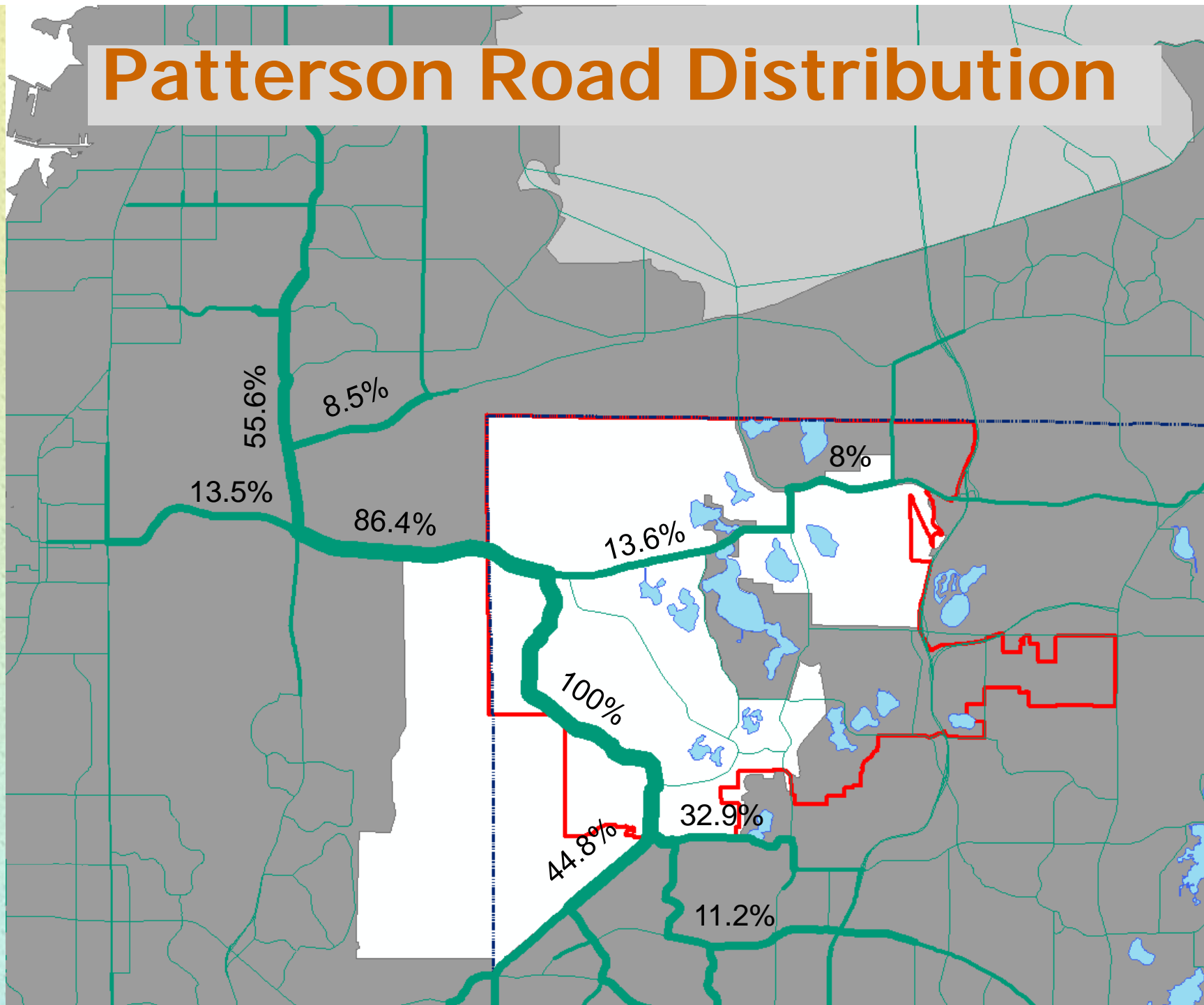
- Peak Hour 5:15 – 6:15 PM
- NB Peak Direction

Existing Traffic Counts

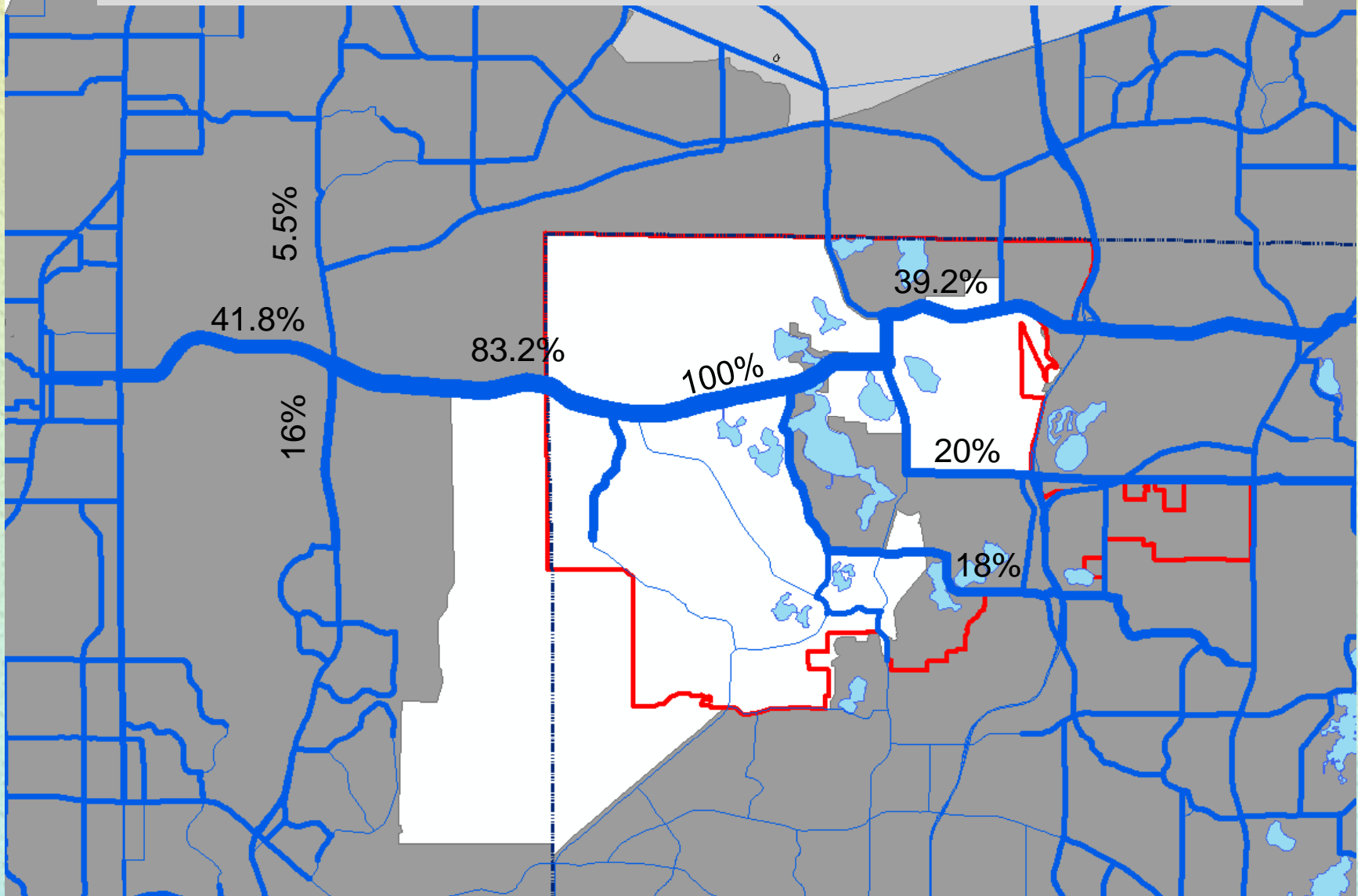
| Roadway | Year of Count | Existing Count | Level of Service |
|---|---------------|----------------|------------------|
| Boy Scout Rd | 2008 | 7,988 | C |
| Crawley Rd | 2008 | 1,883 | B |
| Gunn Hwy (N of Tarpon Springs) | 2010 | 12,122 | E |
| Gunn Hwy (N of N Mobley) | 2009 | 17,100 | F |
| Gunn Hwy (S of S Mobley) | 2010 | 29,597 | F |
| Lutz Lake Fern Rd | 2008 | 8,130 | C |
| Patterson Rd | 2008 | 3,041 | B |
| Tarpon Springs Rd | 2010 | 6,518 | B |
| Van Dyke Rd | 2009 | 13,600 | F |
| Veterans / Suncoast N of Lutz Lake Fern | 2009 | 31,800 | B |
| Veterans / Suncoast S of Lutz Lake Fern | 2009 | 33,900 | B |

Who is using the roads?

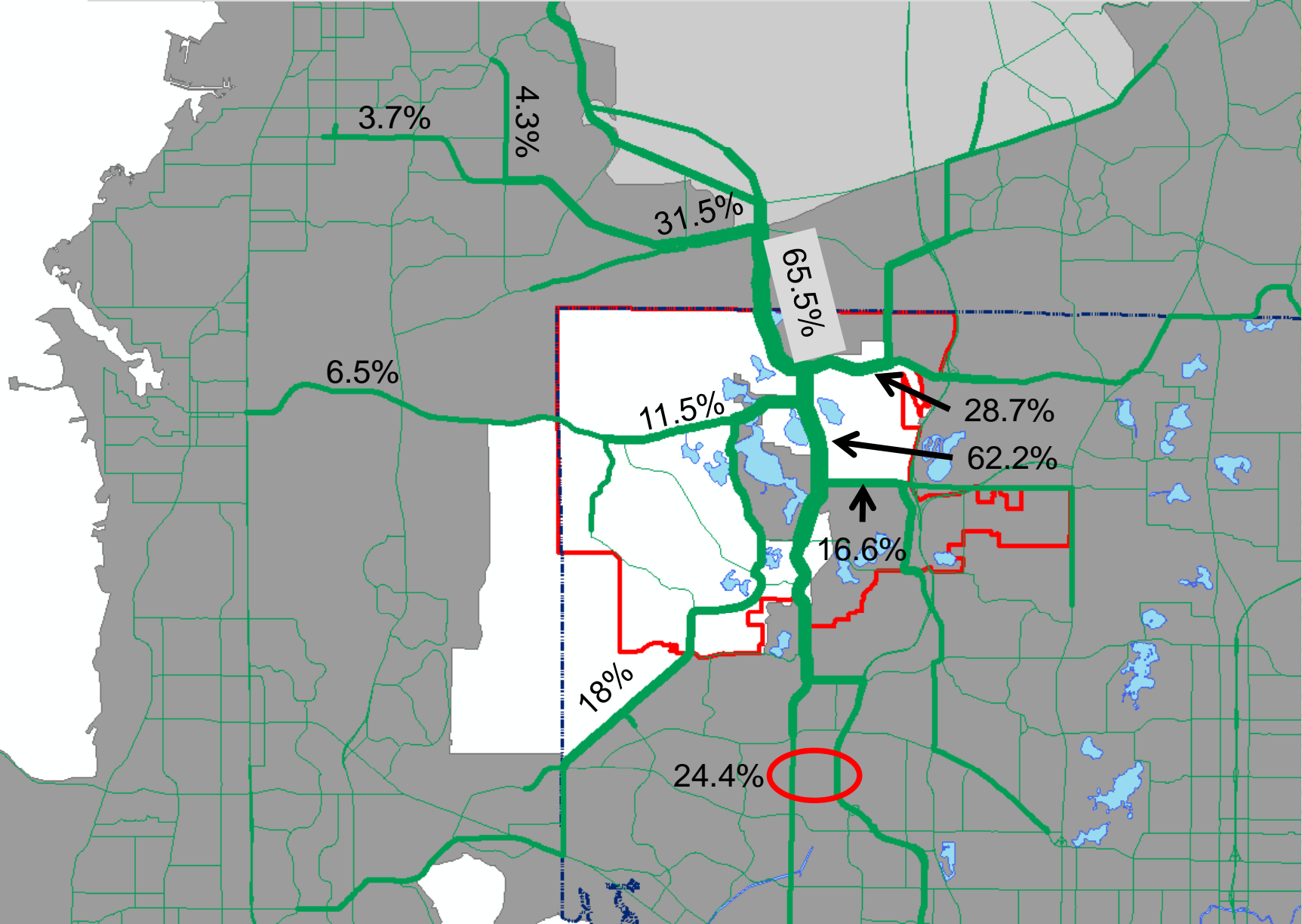
Patterson Road Distribution



Tarpon Springs Road Distribution



Gunn Hwy Distribution



What are the current plans?

Pasco County LRTP

- Projects between 2015 – 2025
- Widen Gunn Hwy to 4 lanes – north extension



| | | | | | | | | | |
|--|---|-----------------------------------|------|------|------|------|------|------|------|
| | Roadways with Improvements (2015-2025) | NUMBER OF LANES (General Purpose) | | | | | | | |
| | Interchange/Overpass Improvements (2015-2025) | 2 | 3 | 4 | 6 | 8 | 10 | 12 | 14 |
| | Overpass | --- | ■■■■ | | | | | | |
| | Interchange | — | | ■■■■ | ■■■■ | | | | |
| | Interchange Reconstruction | — | | ■■■■ | ■■■■ | ■■■■ | ■■■■ | | |
| | Freeway | — | | ■■■■ | ■■■■ | ■■■■ | ■■■■ | ■■■■ | ■■■■ |

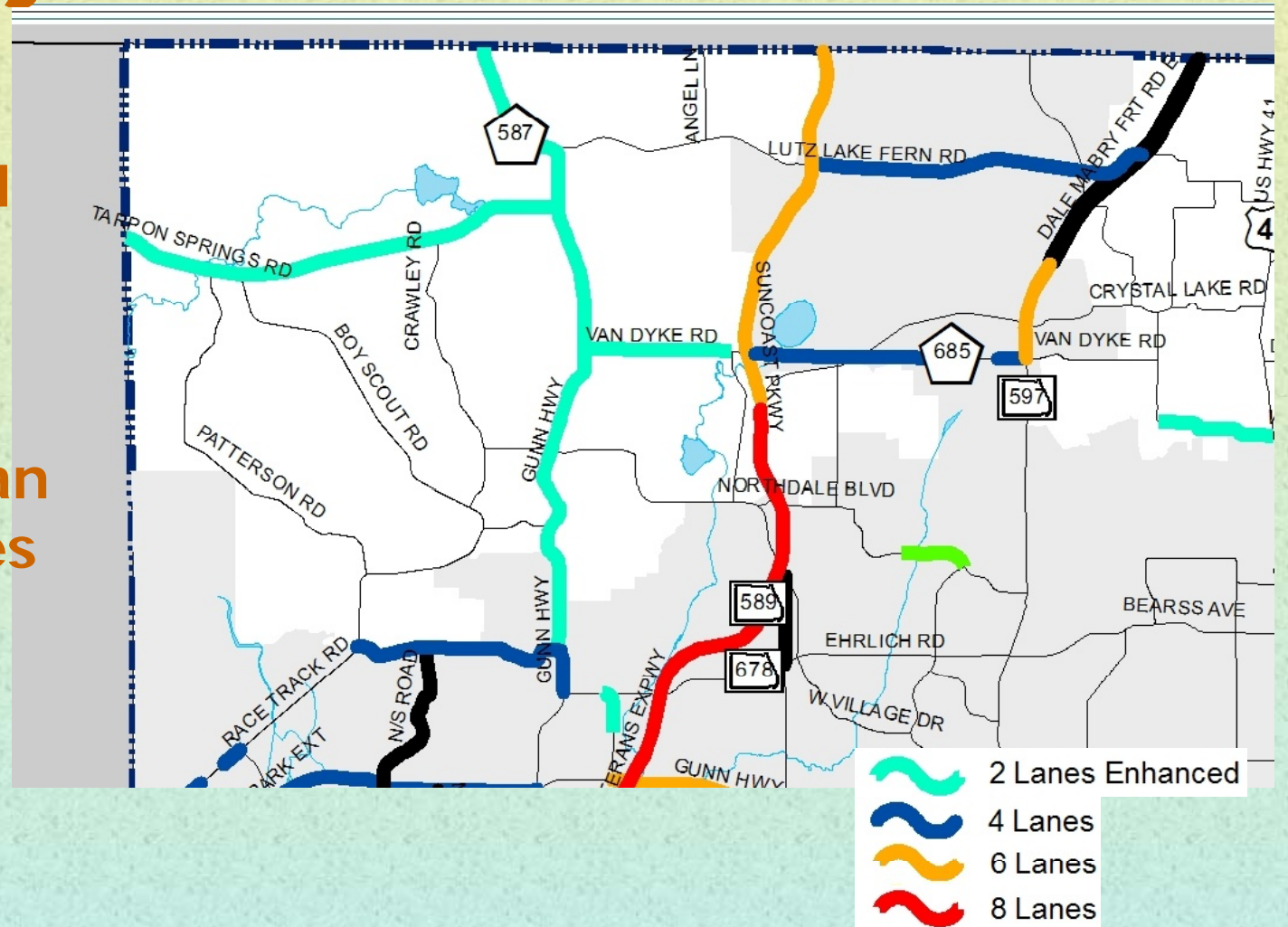
Pinellas County LRTP

- Keystone Rd (Tarpon Springs Rd)
 - Constrained to two lanes



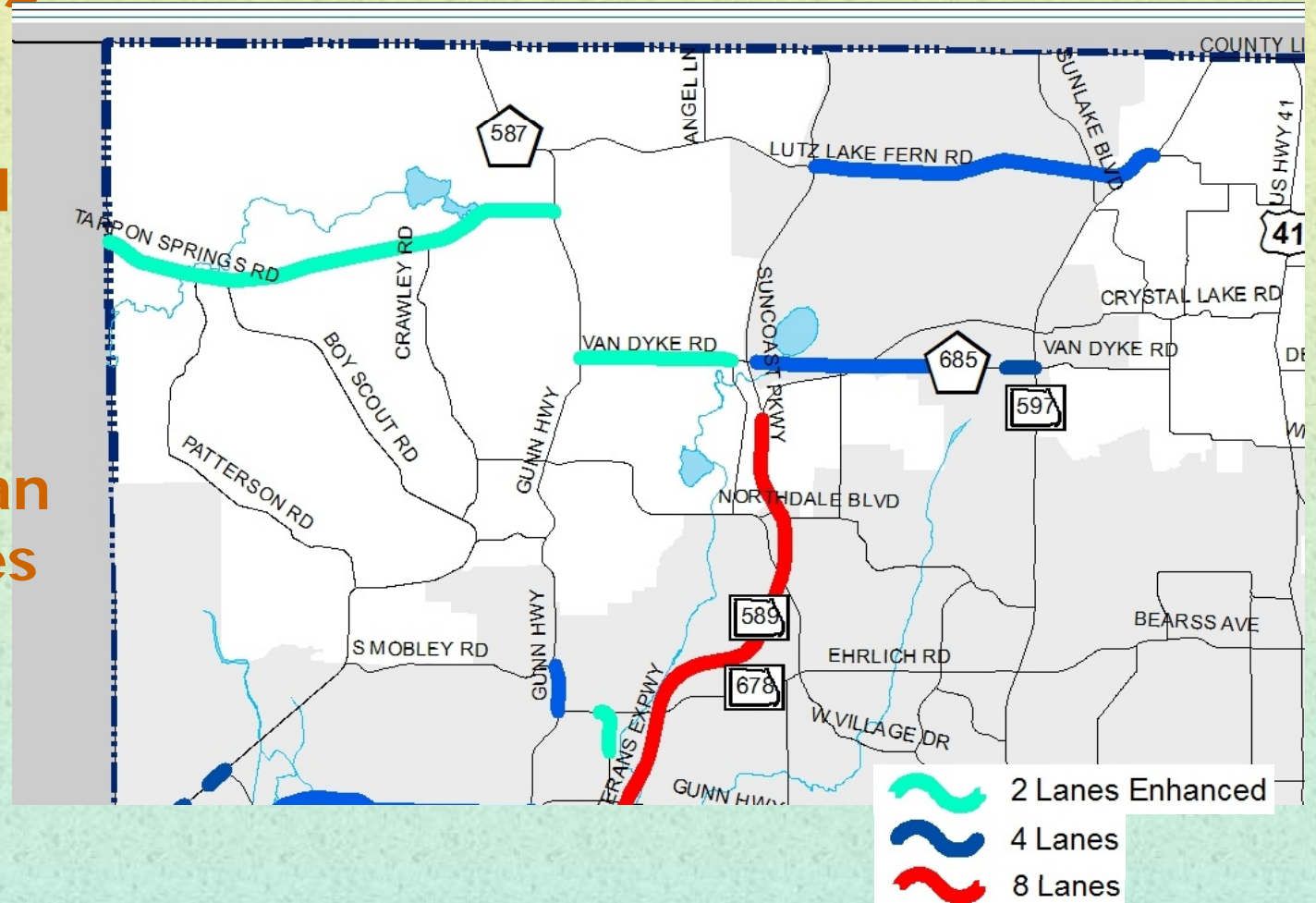
Needs Assessment Highway Projects

- Tarpon Springs and Van Dyke enhanced
- Lutz Lake Fern and Van Dyke 4 lanes east of Suncoast



Cost Affordable Highway Projects

- Tarpon Springs and Van Dyke enhanced
- Lutz Lake Fern and Van Dyke 4 lanes east of Suncoast



Enhanced Roads

■ Complete Street

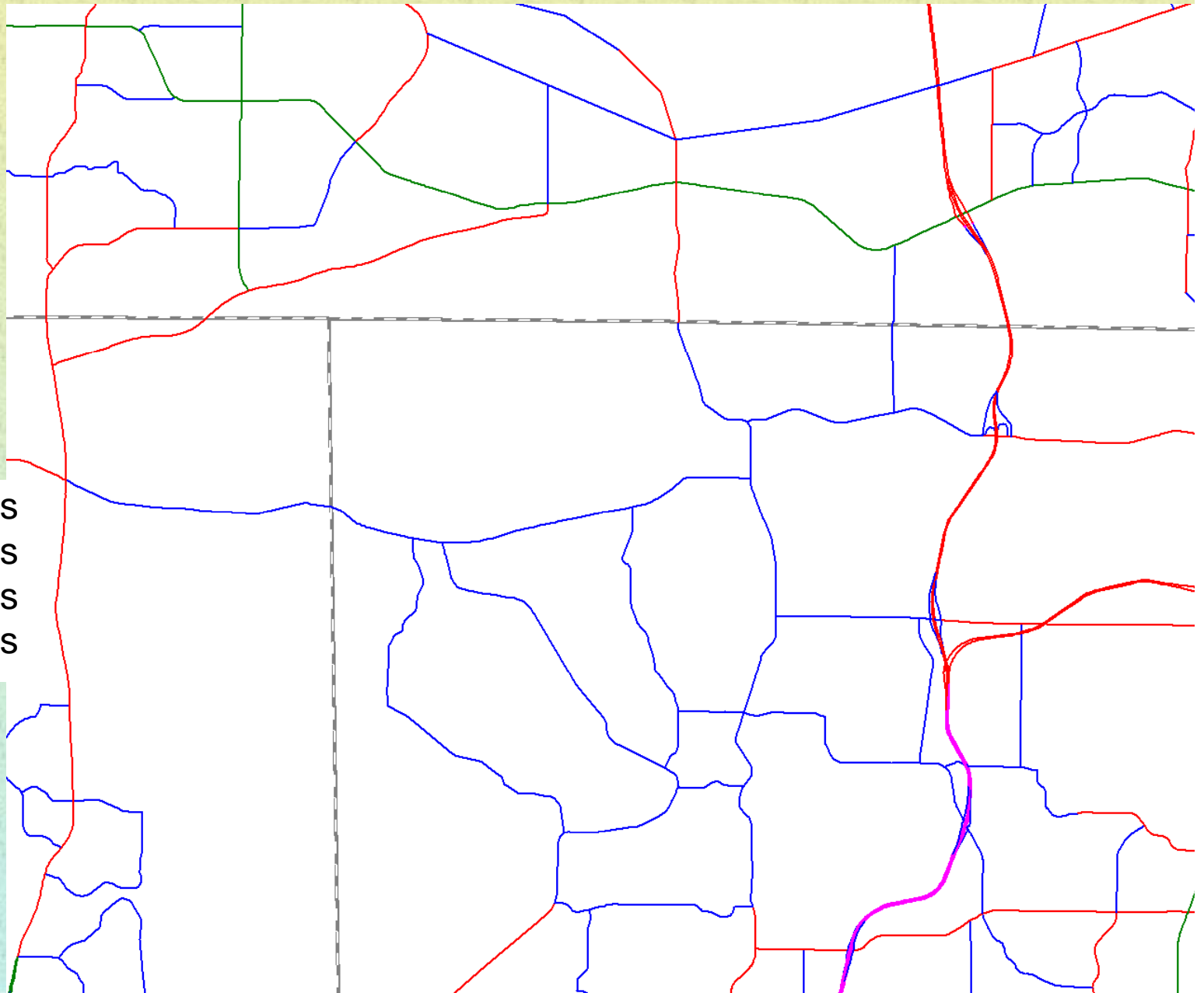
- "Roadway enhancements may increase capacity or functionality of a corridor using methods other than adding through lanes."

■ Difference between Urban and Rural application

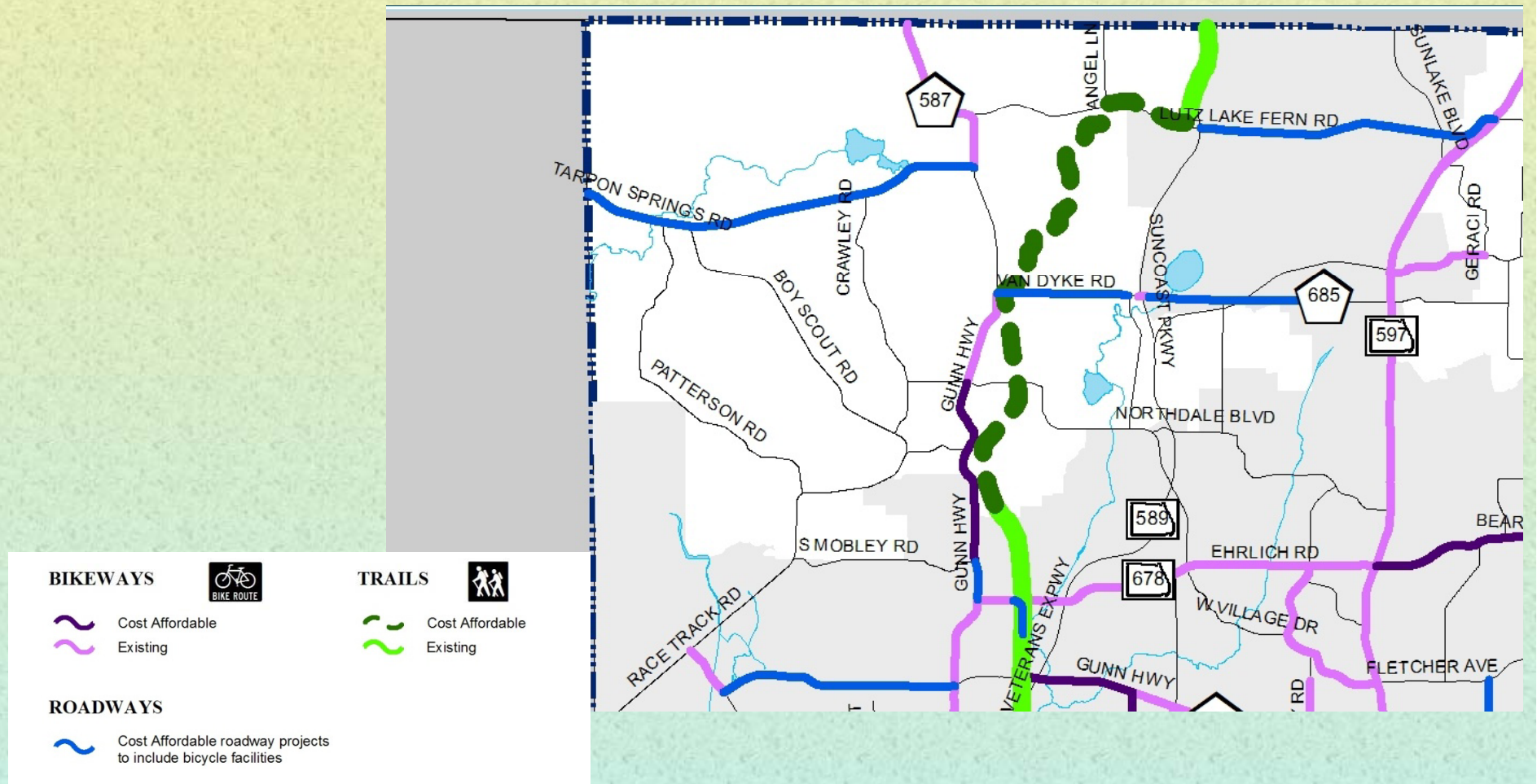
■ What could be included

- Sidewalks separated from traffic
- Marked bike lanes
- Stormwater drainage to reduce street flooding
- Intersection improvements – turn lanes

2035 Number of Lanes



Cost Affordable Bicycle Facilities



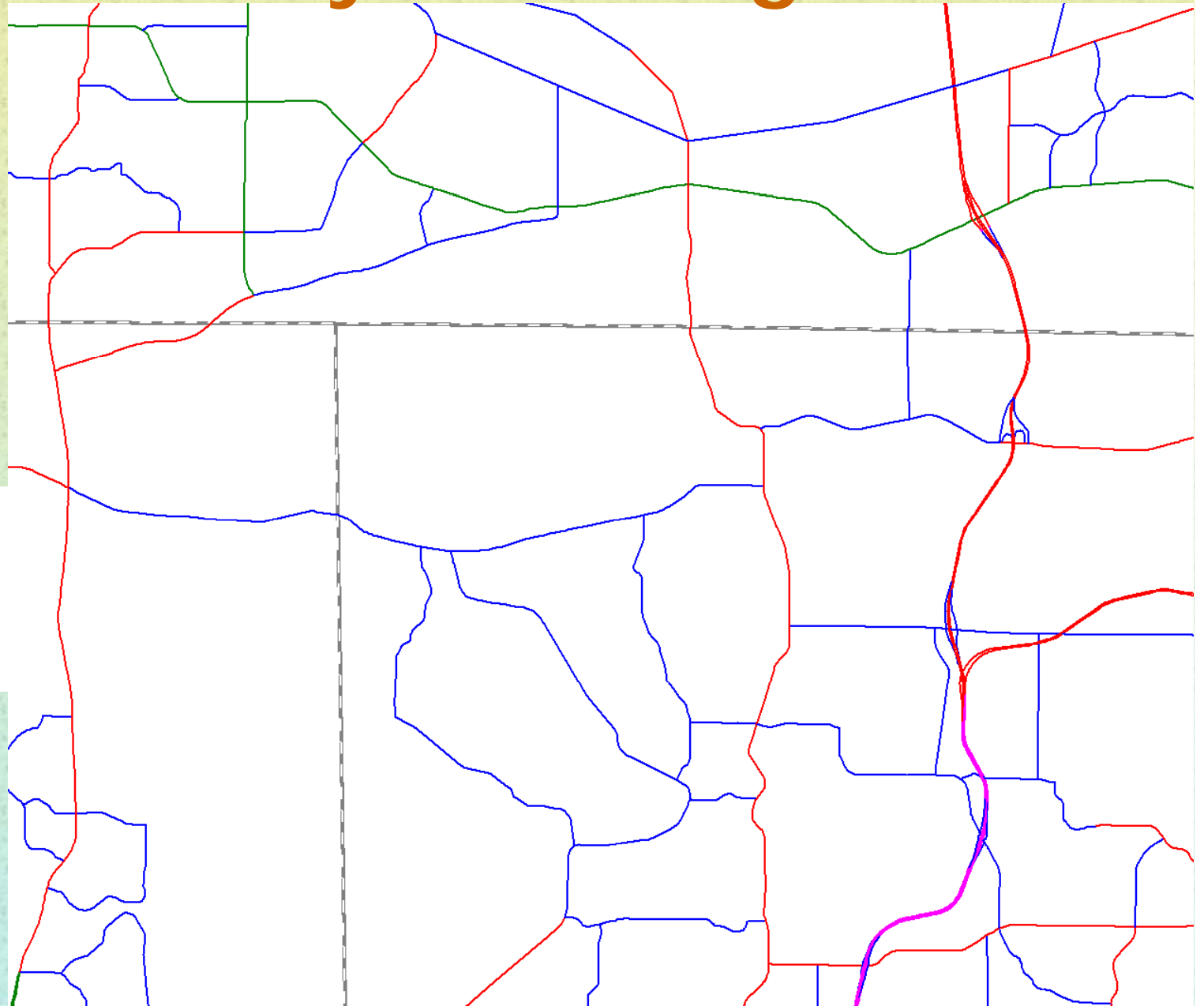
2035 Forecast Volumes

| Roadway | Existing Count | 2035 Forecast | 2035 Level of Service |
|---|----------------|---------------|-----------------------|
| Boy Scout Rd | 7,988 | 9,074 | C |
| Crawley Rd | 1,883 | 2,055 | B |
| Gunn Hwy (N of Tarpon Springs) | 12,122 | 22,417 | F |
| Gunn Hwy (N of N Mobley) | 17,100 | 26,213 | F |
| Gunn Hwy (S of S Mobley) | 29,597 | 40,654 | F |
| Lutz Lake Fern Rd | 8,130 | 11,550 | F |
| Patterson Rd | 3,041 | 4,738 | B |
| Tarpon Springs Rd | 6,518 | 9,592 | C |
| Van Dyke Rd | 13,600 | 20,719 | F |
| Veterans / Suncoast N of Lutz Lake Fern | 31,800 | 99,550 | F |
| Veterans / Suncoast S of Lutz Lake Fern | 33,900 | 110,763 | F |

What are some options?

Gunn Hwy Widening

- 2 lanes
- 4 lanes
- 6 lanes
- 8 lanes

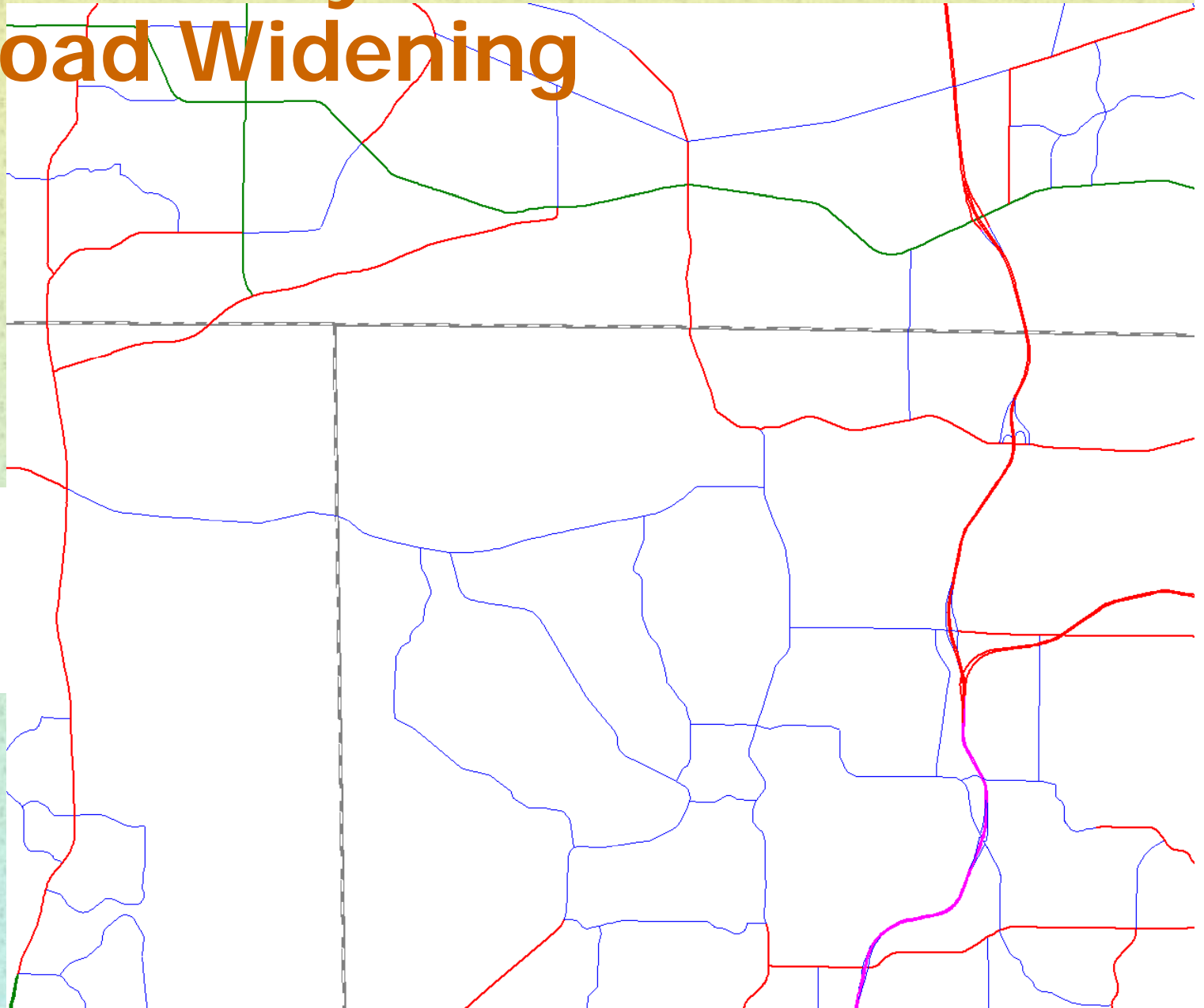


Gunn Hwy Widening

- Gunn Highway and Suncoast are deficient in 2035
- SR 54 volumes decreases 22% east of Gunn Hwy
- Lutz Lake Fern volume increases 4% east of Gunn Hwy
- Van Dyke volume increases 2% east of Gunn
- Gunn Hwy volume increases 71%
- Suncoast Pkwy volume decreases 17%
- Gunn Hwy and Suncoast would still be deficient

Gunn Hwy & Lutz Lake Fern Road Widening

- 2 lanes
- 4 lanes
- 6 lanes
- 8 lanes



Gunn Hwy & Lutz Lake Fern Road Widening

- Lutz Lake Fern and Van Dyke are deficient in 2035
- SR 54 volumes decreases 8% east of Gunn Hwy
- Lutz Lake Fern volume increases 61% east of Gunn Hwy
- Van Dyke volume decreases 3% east of Gunn
- Tarpon Springs Rd volume increases 6%

Gunn Hwy & Lutz Lake Fern Road Widening

- Gunn Hwy volume north of Lutz Lake Fern increases 60%
- Gunn Hwy volumes south of Lutz Lake Fern increases 8%
- Suncoast Pkwy volume decreases 7%
- Lutz Lake Fern would no longer be deficient
- Van Dyke would remain deficient
- Tarpon Springs Rd would become more congested

Additional items moving forward

- ☑ Safety
- ☑ Pedestrian / Sidewalk connections
- ☑ Signage
- ☑ Subdivision design – multi-point access