



Keystone Odessa Community Plan – Transportation Issues

February 8, 2011

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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

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How are the roads defined?

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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.

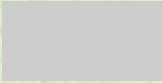
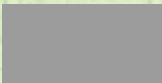

■ Transitioning Area

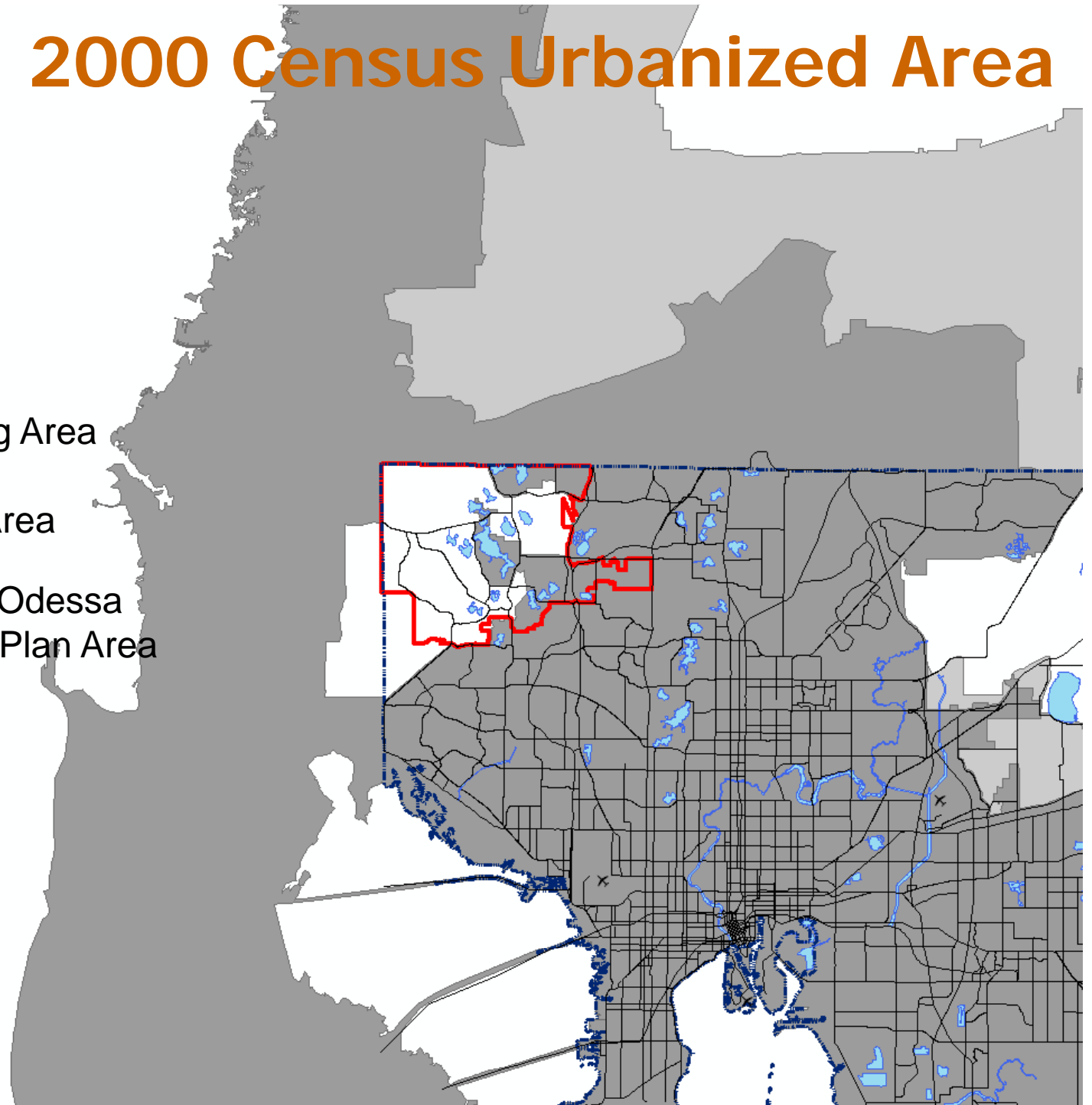
- An area that is expected to become urbanized over the next 20 years.

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2000 Census Urbanized Area

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



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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

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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

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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

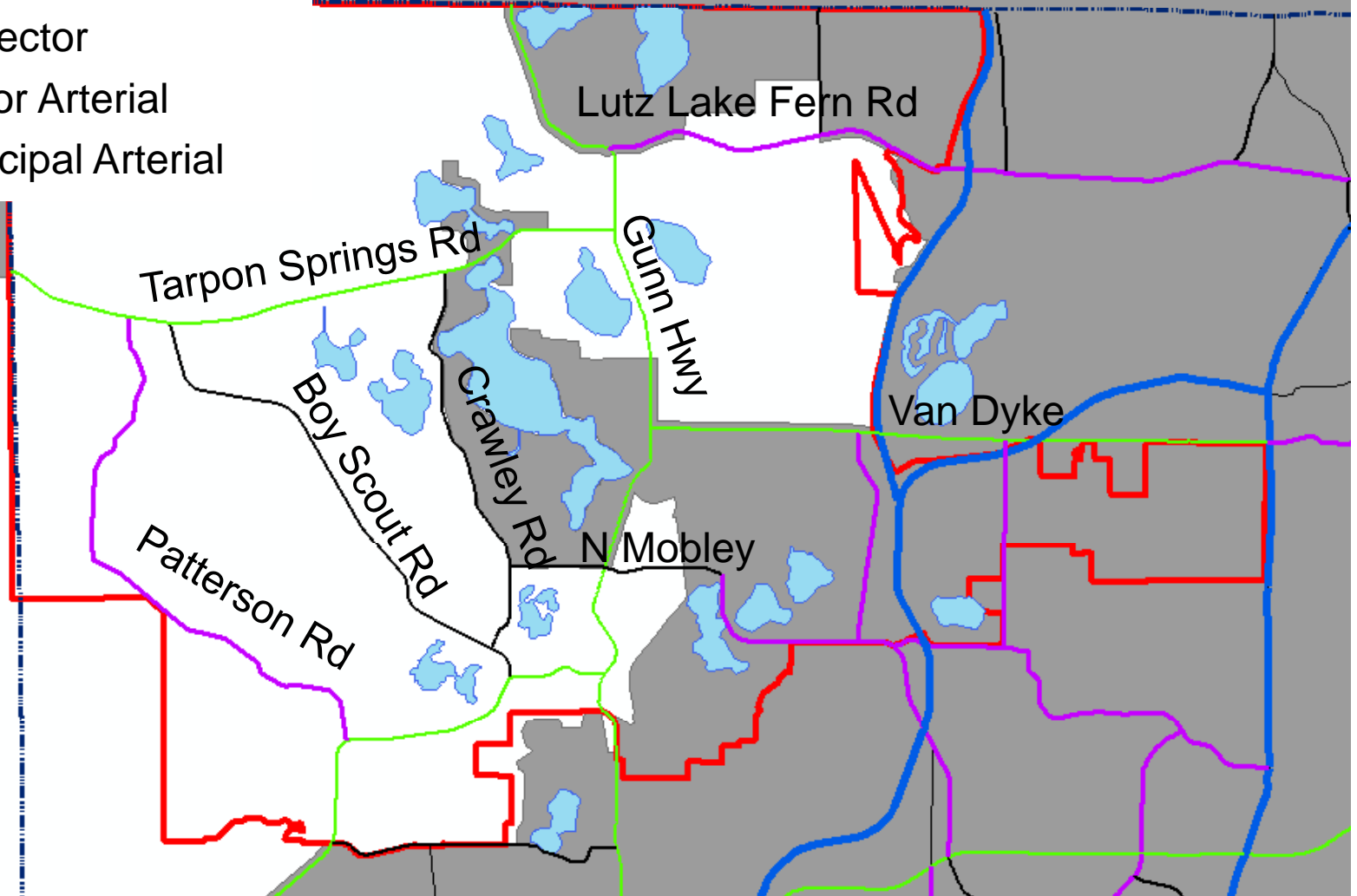
■ N Mobley

■ Wayne Rd

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Roadway Functional Classification

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



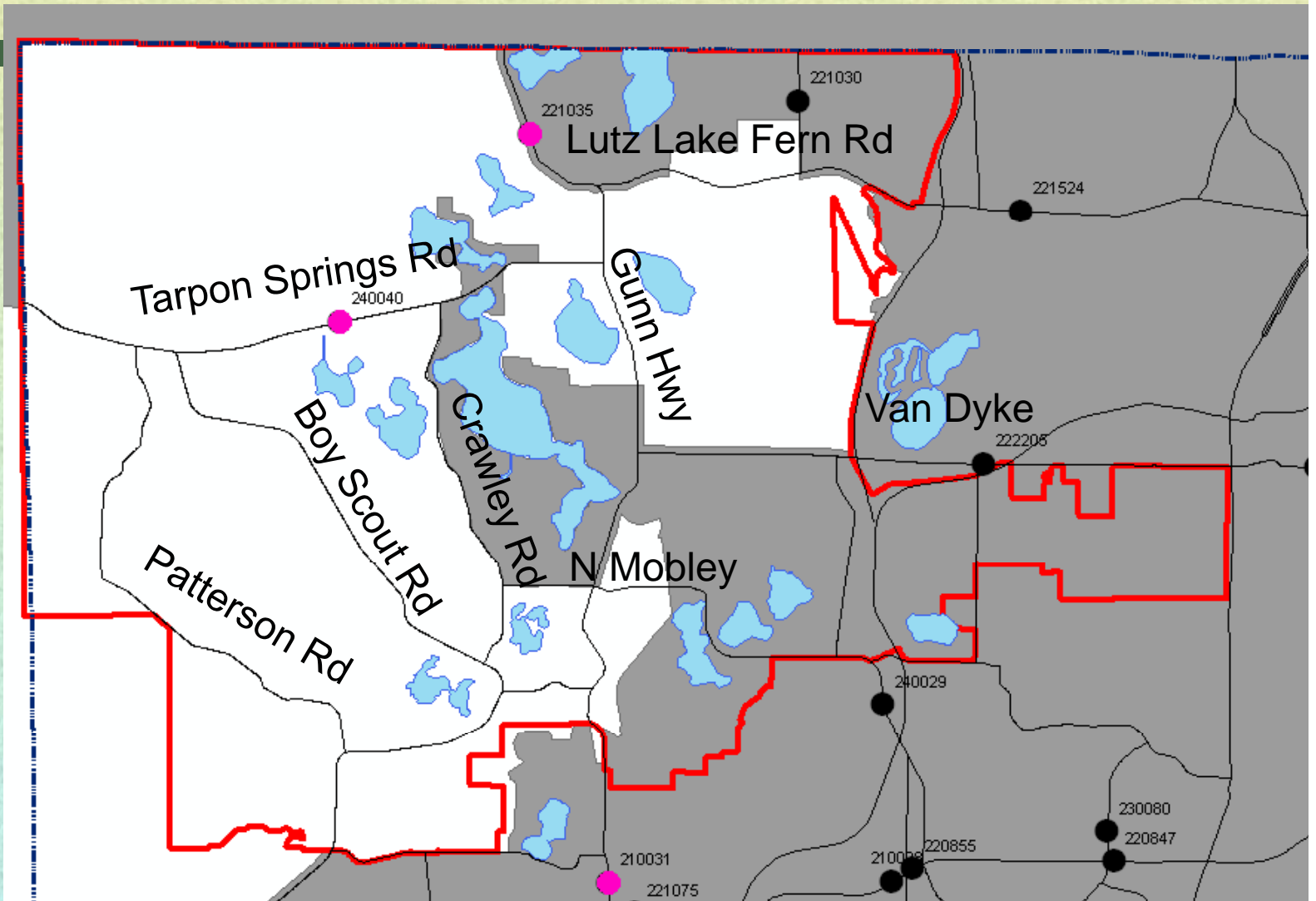
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**What are the current
conditions?**

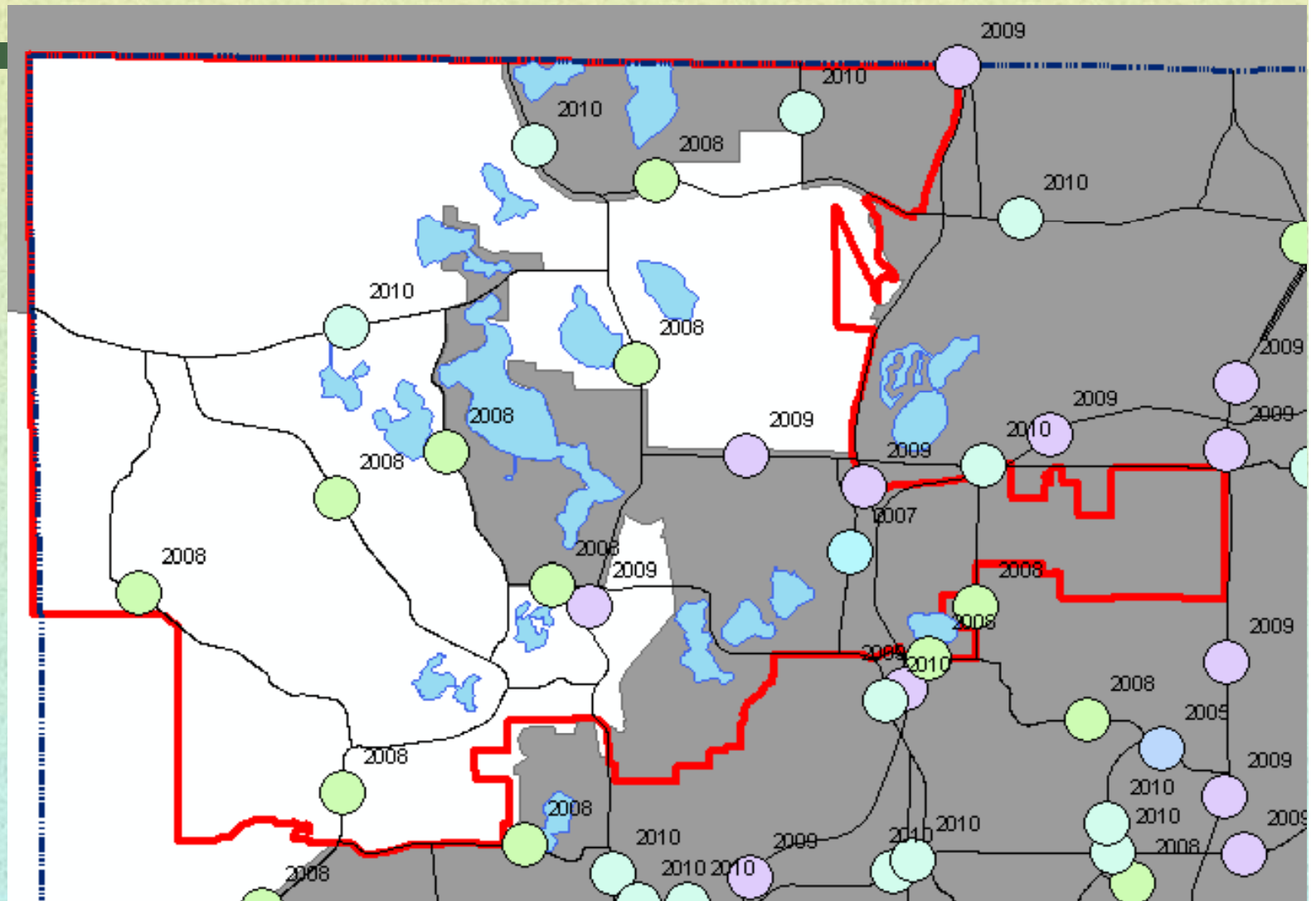
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2010 Traffic Counts



Current Traffic Counts



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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

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Existing Traffic Counts

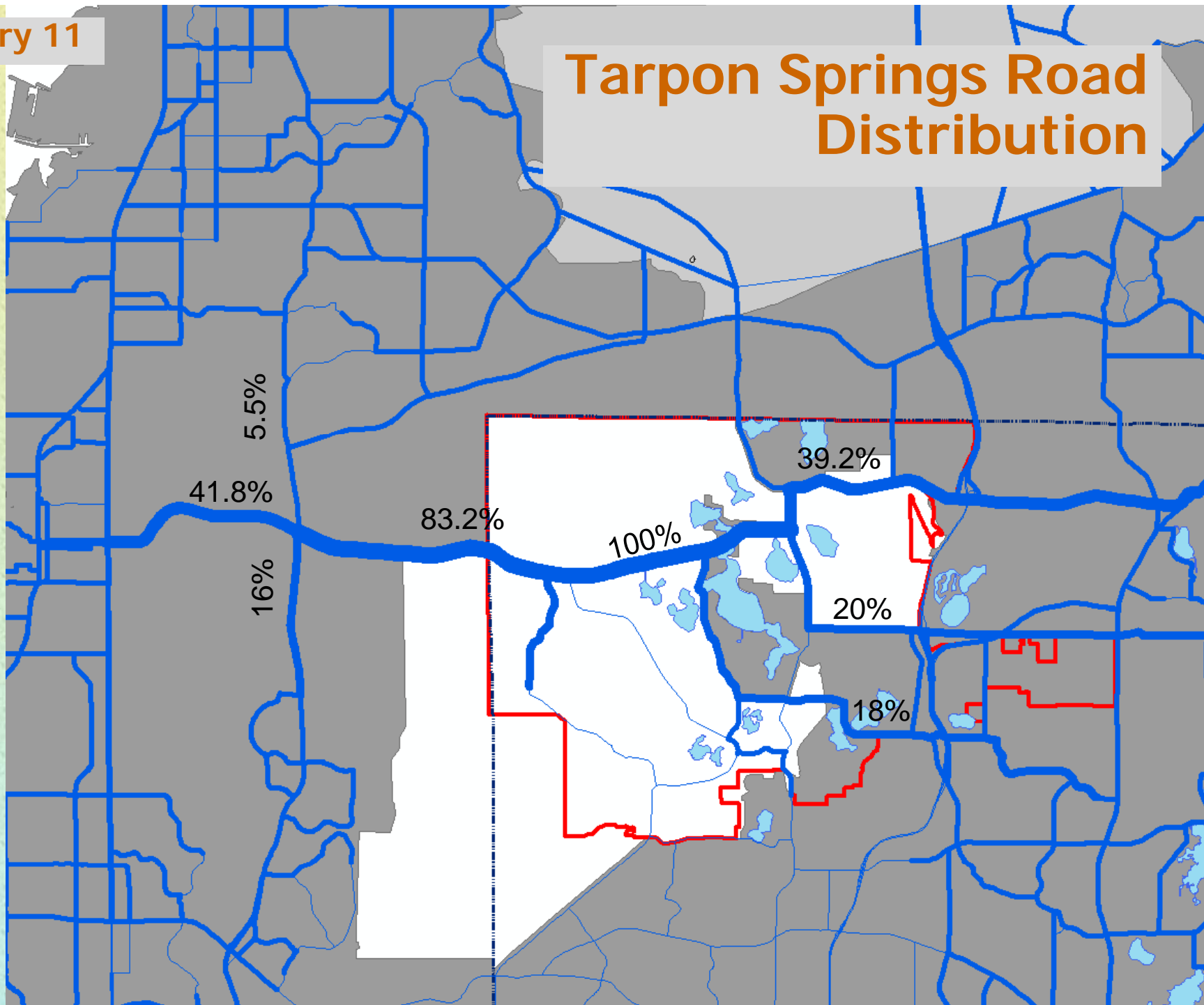
Roadway	Year of Count	Existing Count	Level of Service
Boy Scout Rd	2008	7,988	C
Crawley Rd	2008	1,883	B
Gunn Hwy (N of Tarpon Springs)	2010	12,122	E
Gunn Hwy (N of N Mobley)	2009	17,100	F
Gunn Hwy (S of S Mobley)	2010	29,597	F
Lutz Lake Fern Rd	2008	8,130	C
Patterson Rd	2008	3,041	B
Tarpon Springs Rd	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

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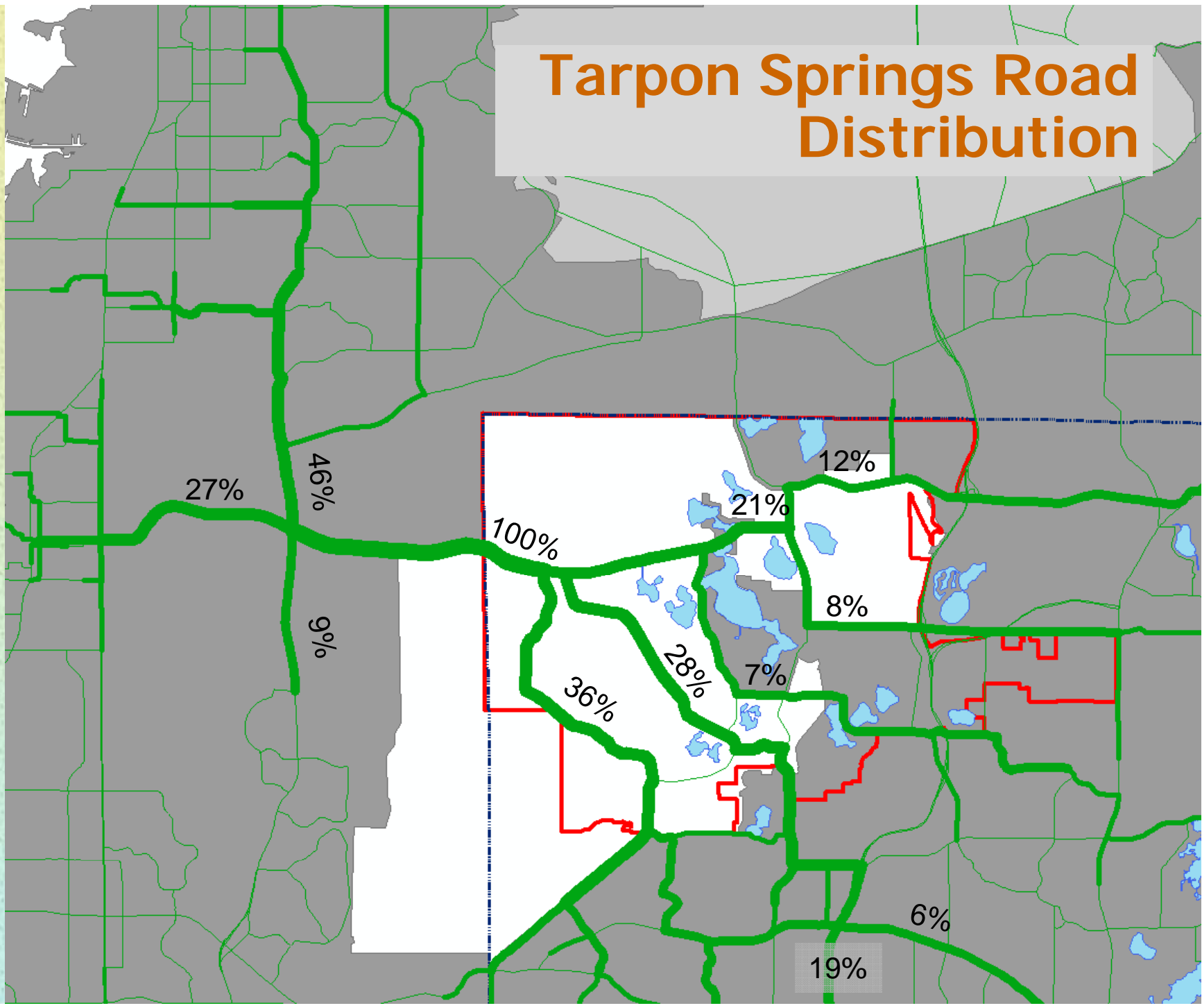
Who is using the roads?

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Tarpon Springs Road Distribution

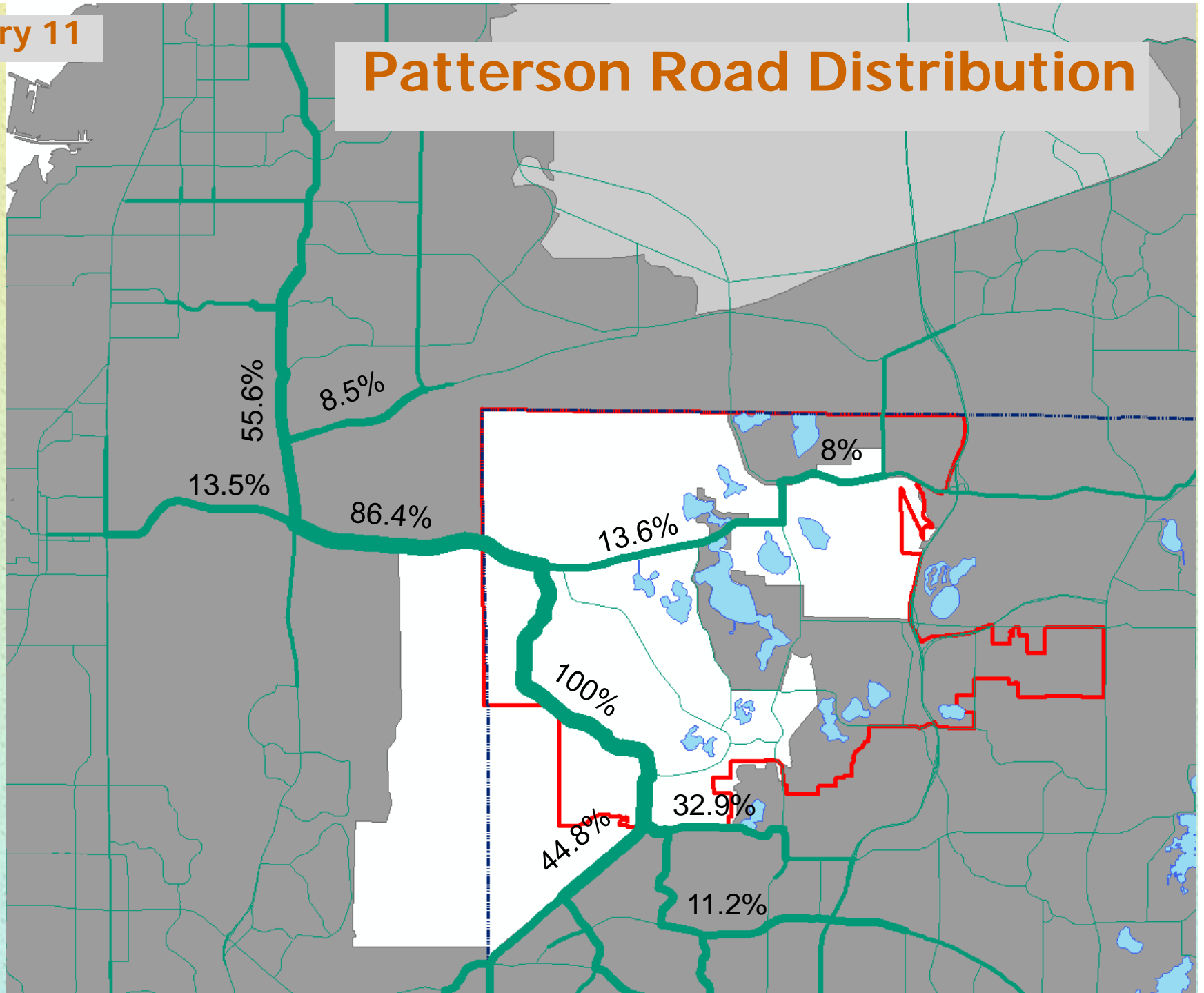


Tarpon Springs Road Distribution

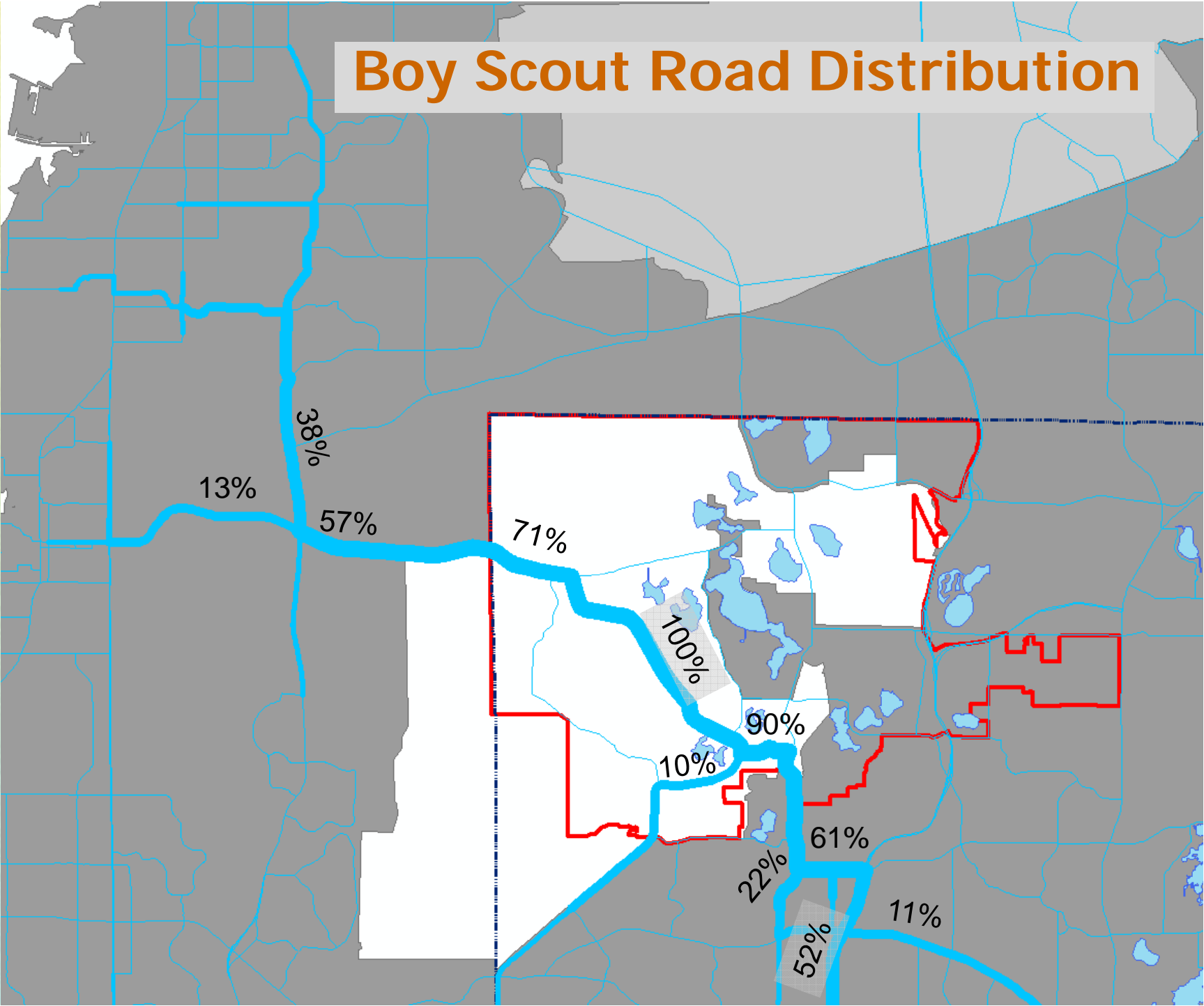


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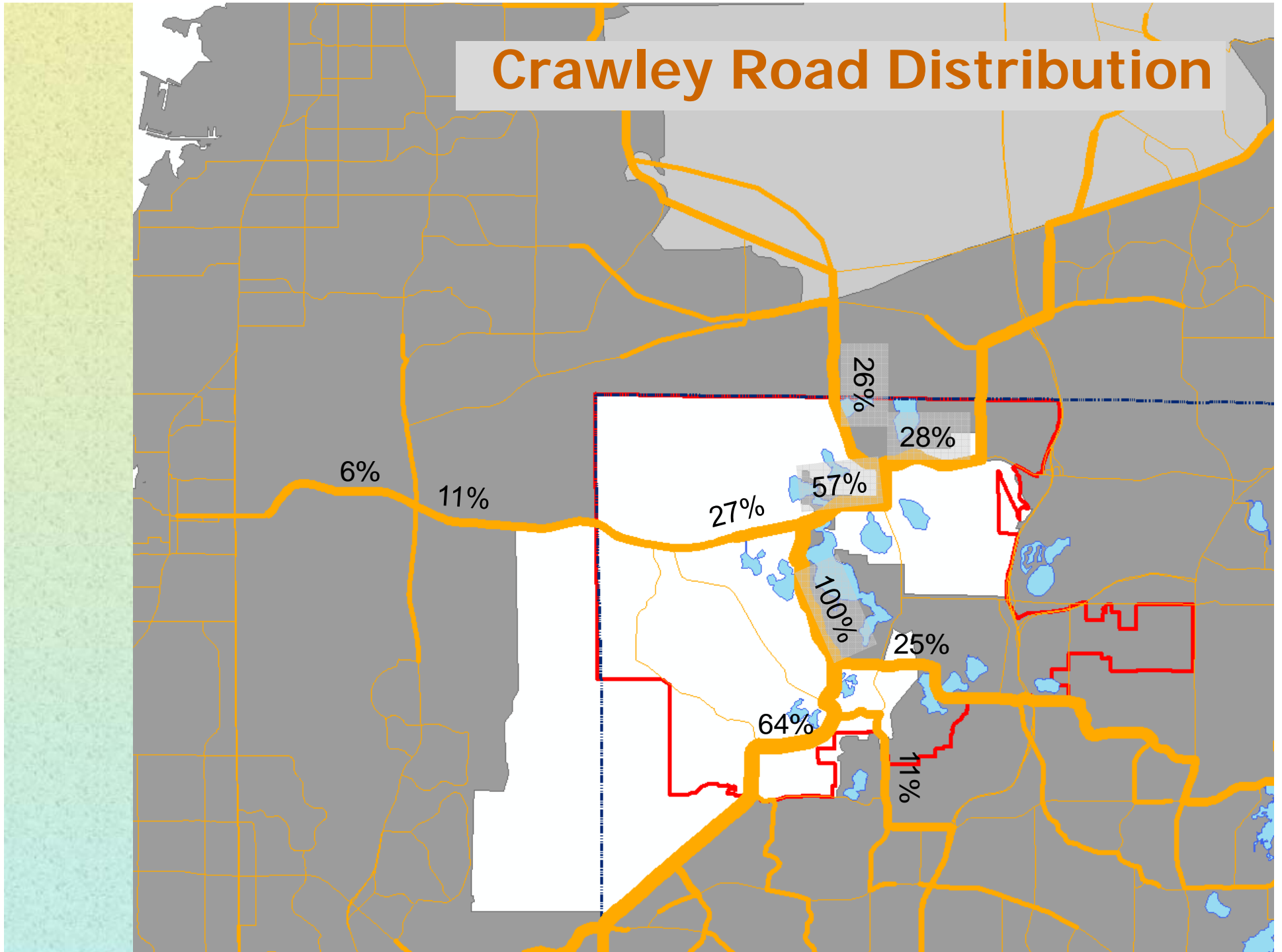
Patterson Road Distribution



Boy Scout Road Distribution

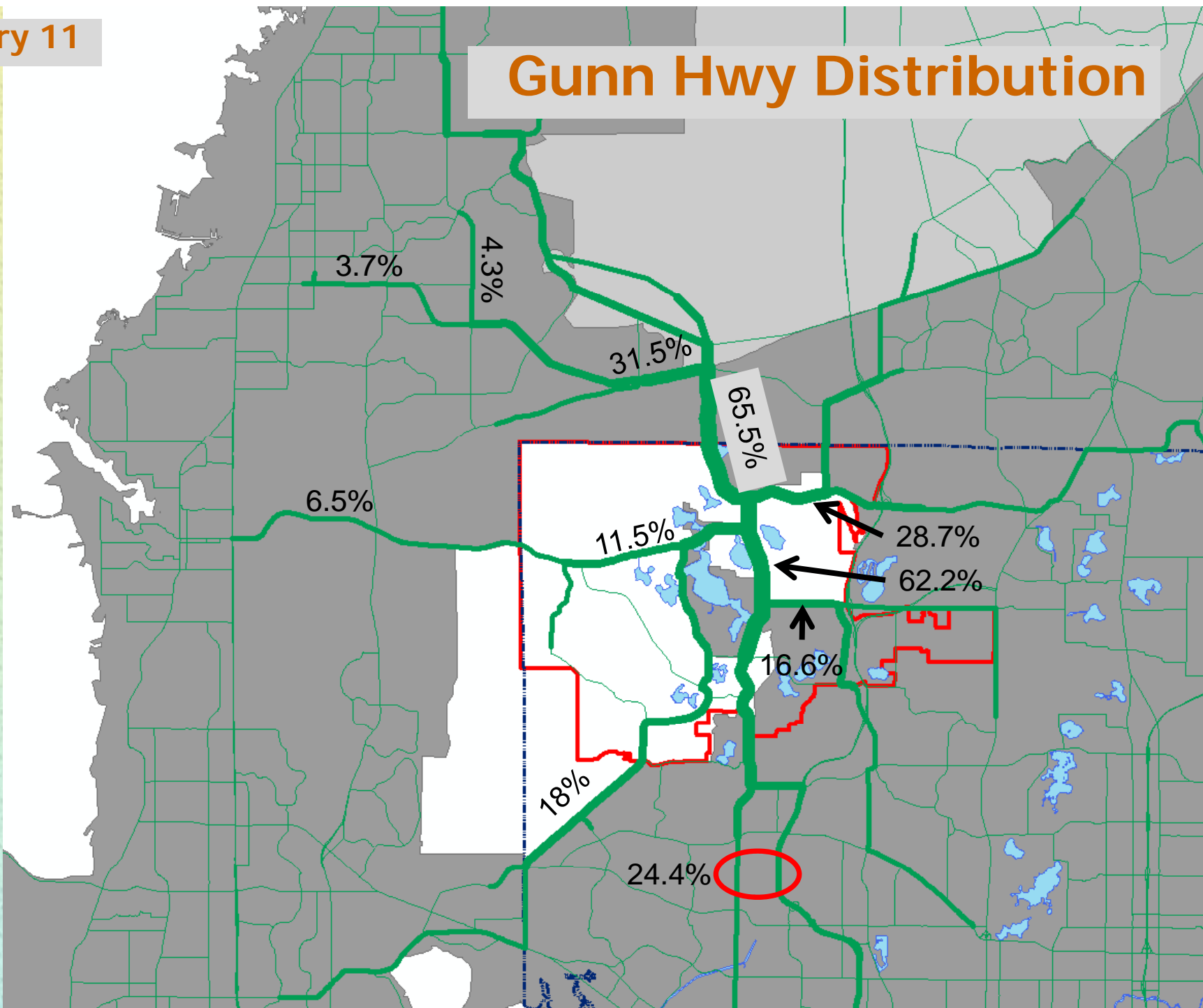


Crawley Road Distribution

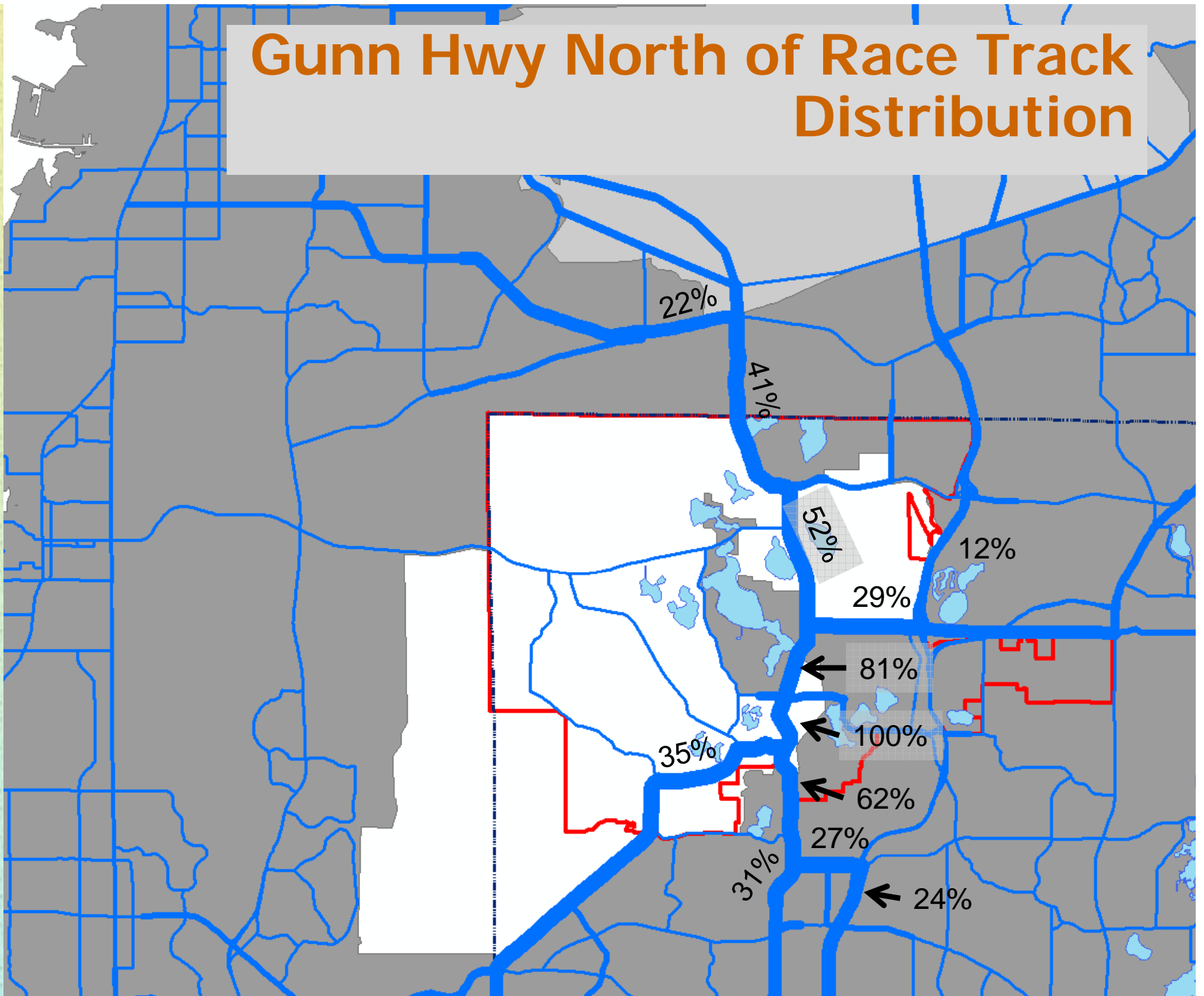


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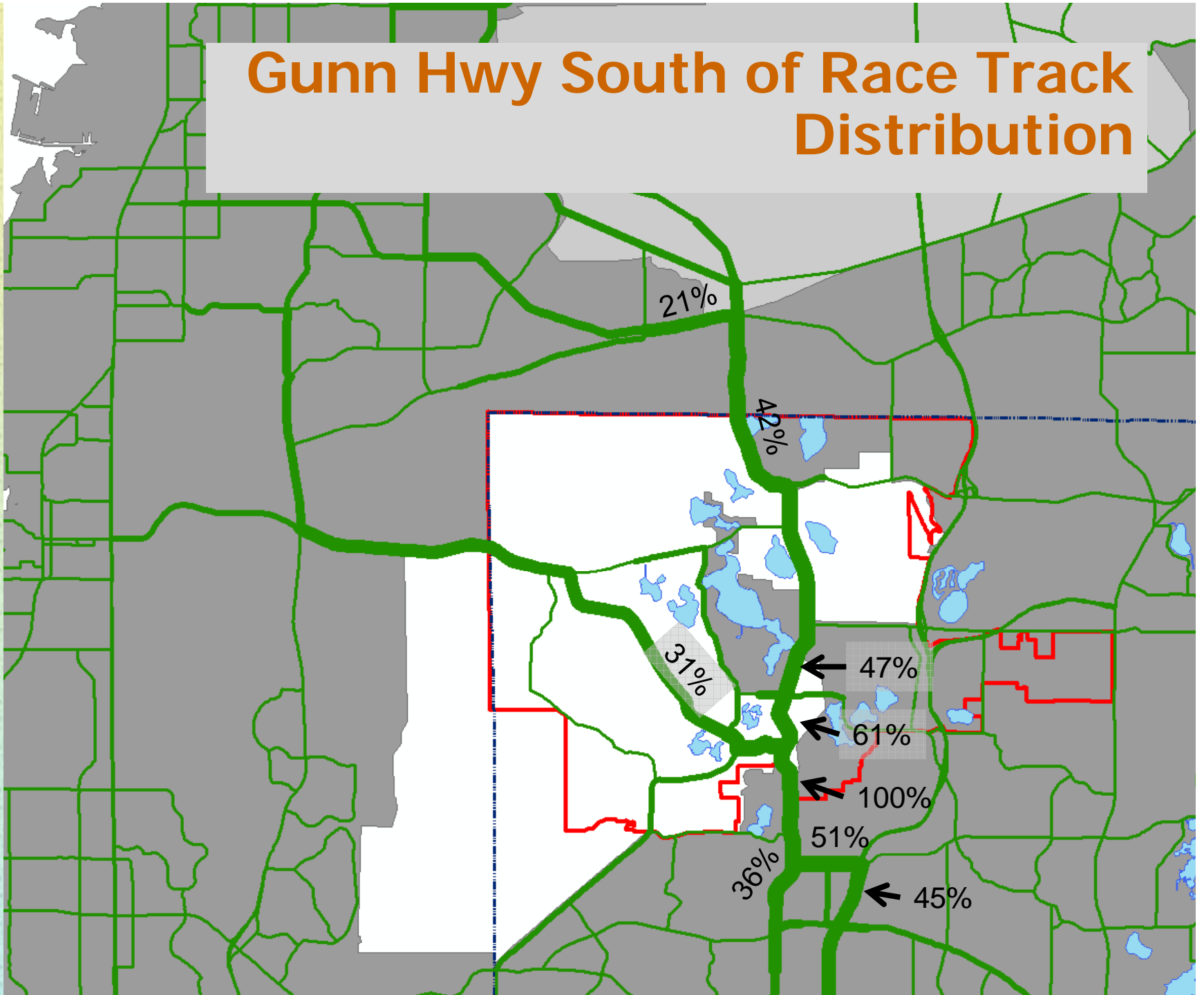
Gunn Hwy Distribution



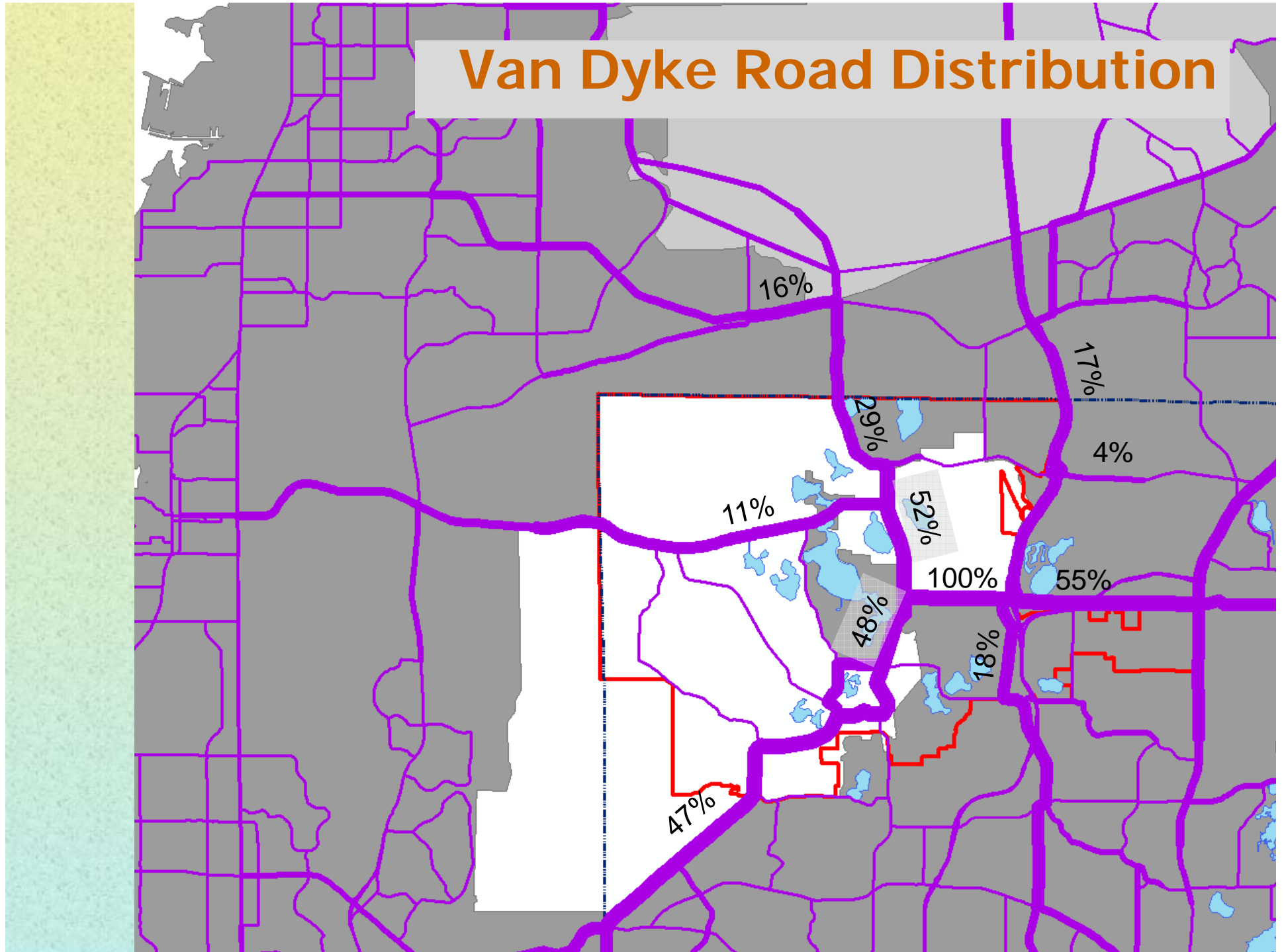
Gunn Hwy North of Race Track Distribution



Gunn Hwy South of Race Track Distribution



Van Dyke Road Distribution



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What are the current plans?

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Pasco County LRTP

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



		NUMBER OF LANES (General Purpose)							
		2	3	4	6	8	10	12	14
ROAD TYPE	One-Way	---	■■■■						
	Undivided	—		■■■■	■■■■				
	Divided	—		■■■■	■■■■	■■■■	■■■■		
	Freeway			■■■■	■■■■	■■■■	■■■■	■■■■	■■■■

Legend:

- Light Blue: Roadways with Improvements (2015-2025)
- Pink: Interchange/Overpass Improvements (2015-2025)
- Purple Triangle: Overpass
- Red Diamond: Interchange
- Yellow Circle: Interchange Reconstruction

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Pinellas County LRTP

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

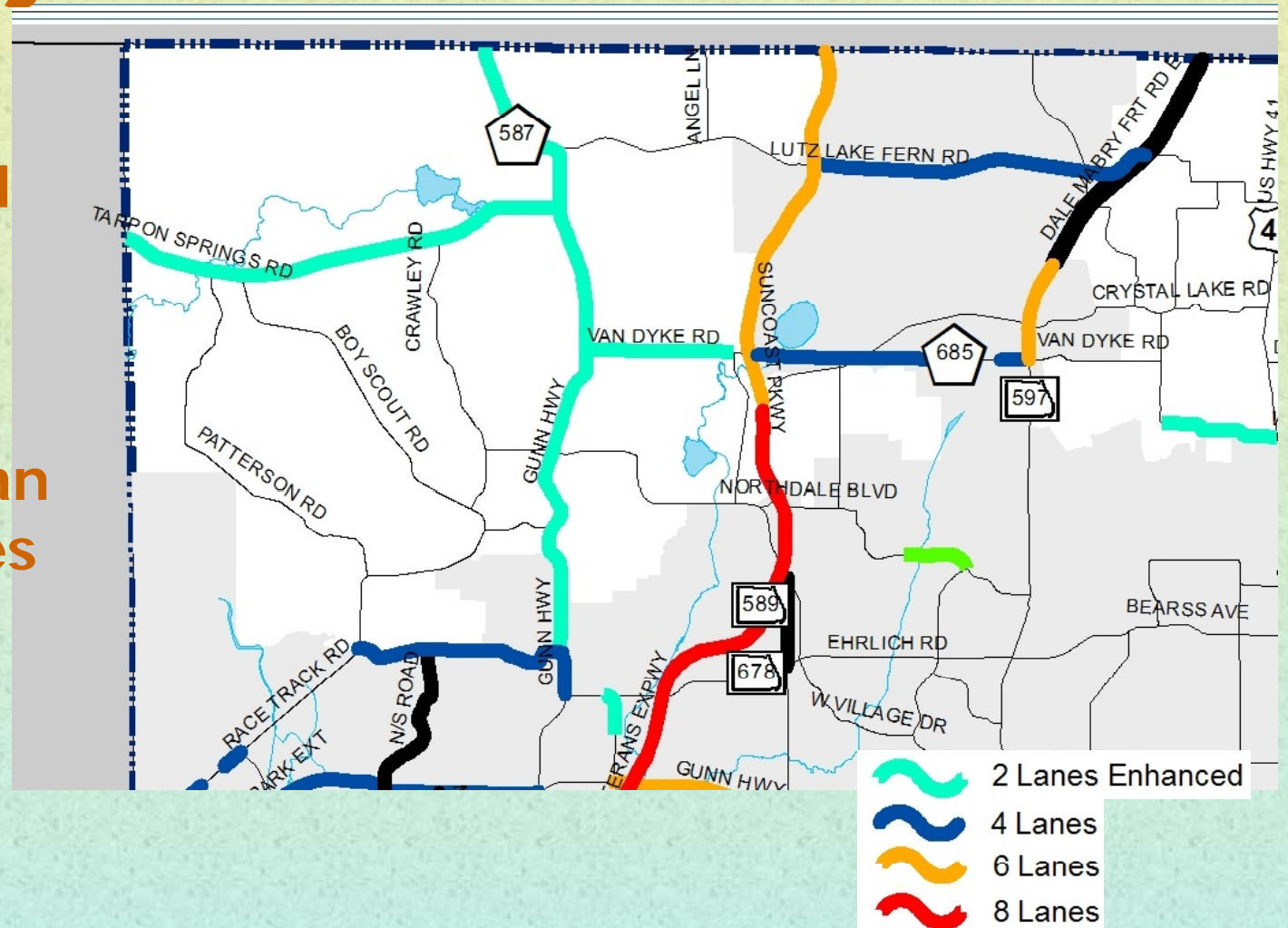


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Needs Assessment Highway Projects

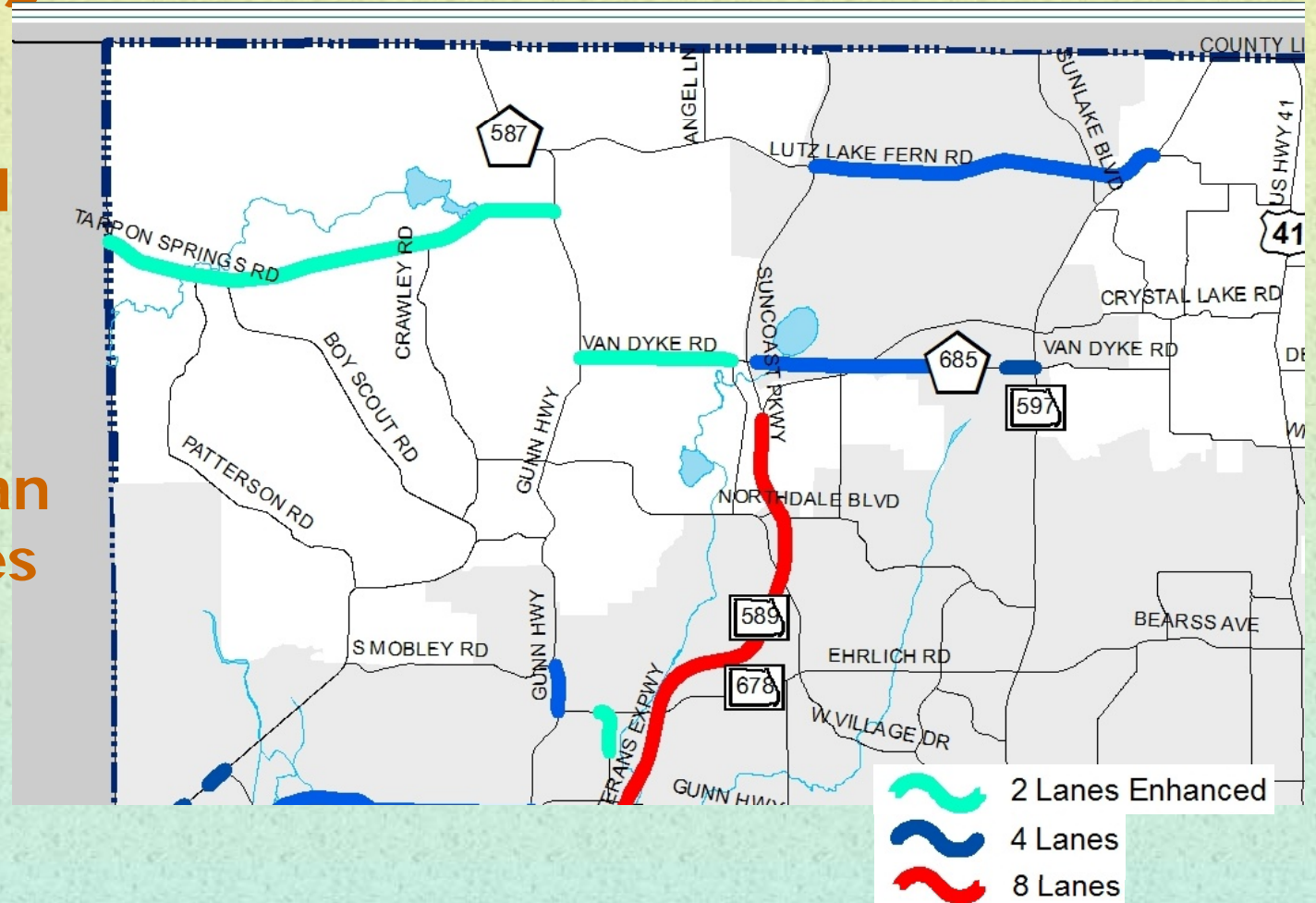
- Tarpon Springs and Van Dyke enhanced
- Lutz Lake Fern and Van Dyke 4 lanes east of Suncoast



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Cost Affordable Highway Projects

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



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Enhanced Roads

☑ Complete Street

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

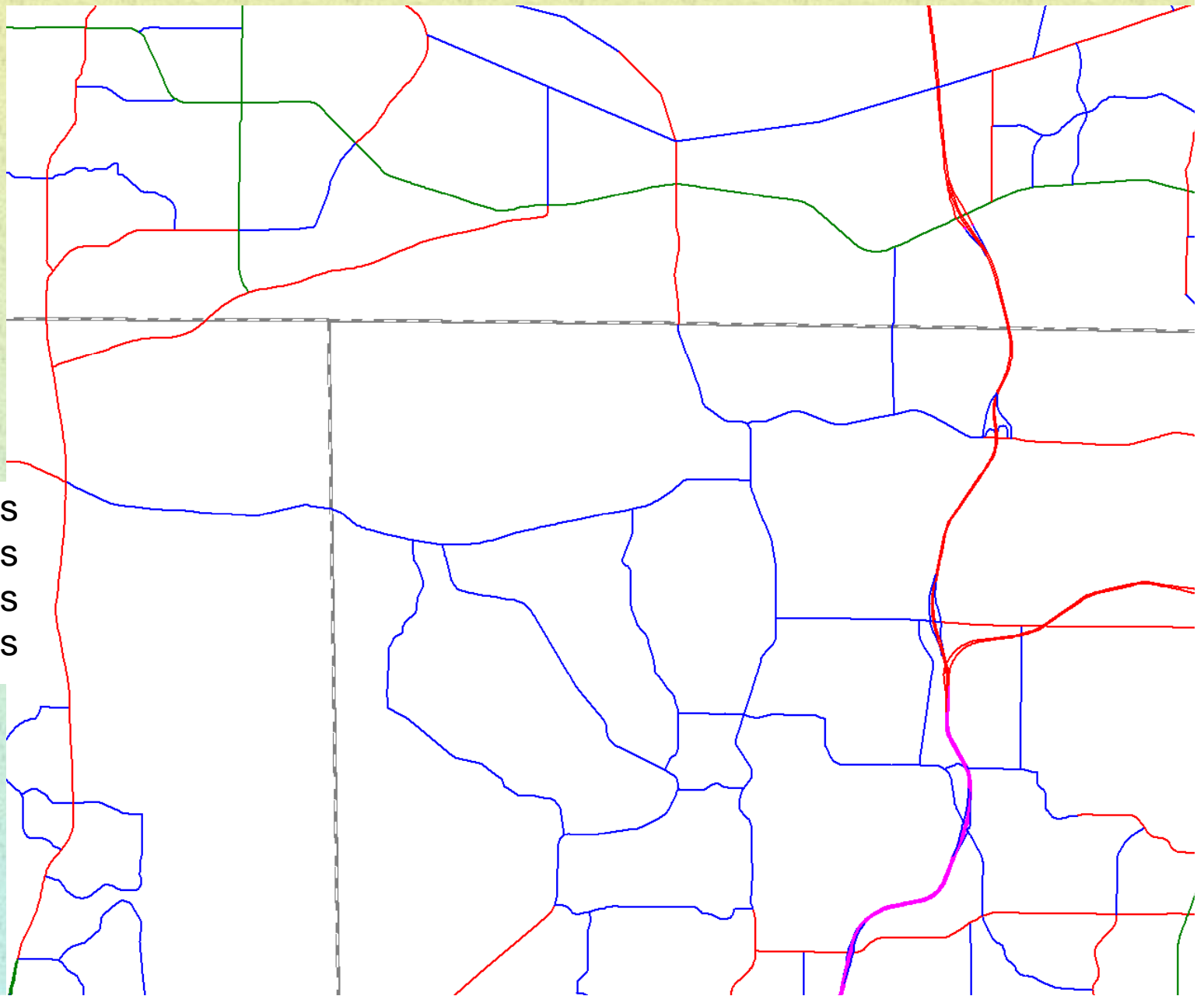
☑ Difference between Urban and Rural application

☑ What could be included

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

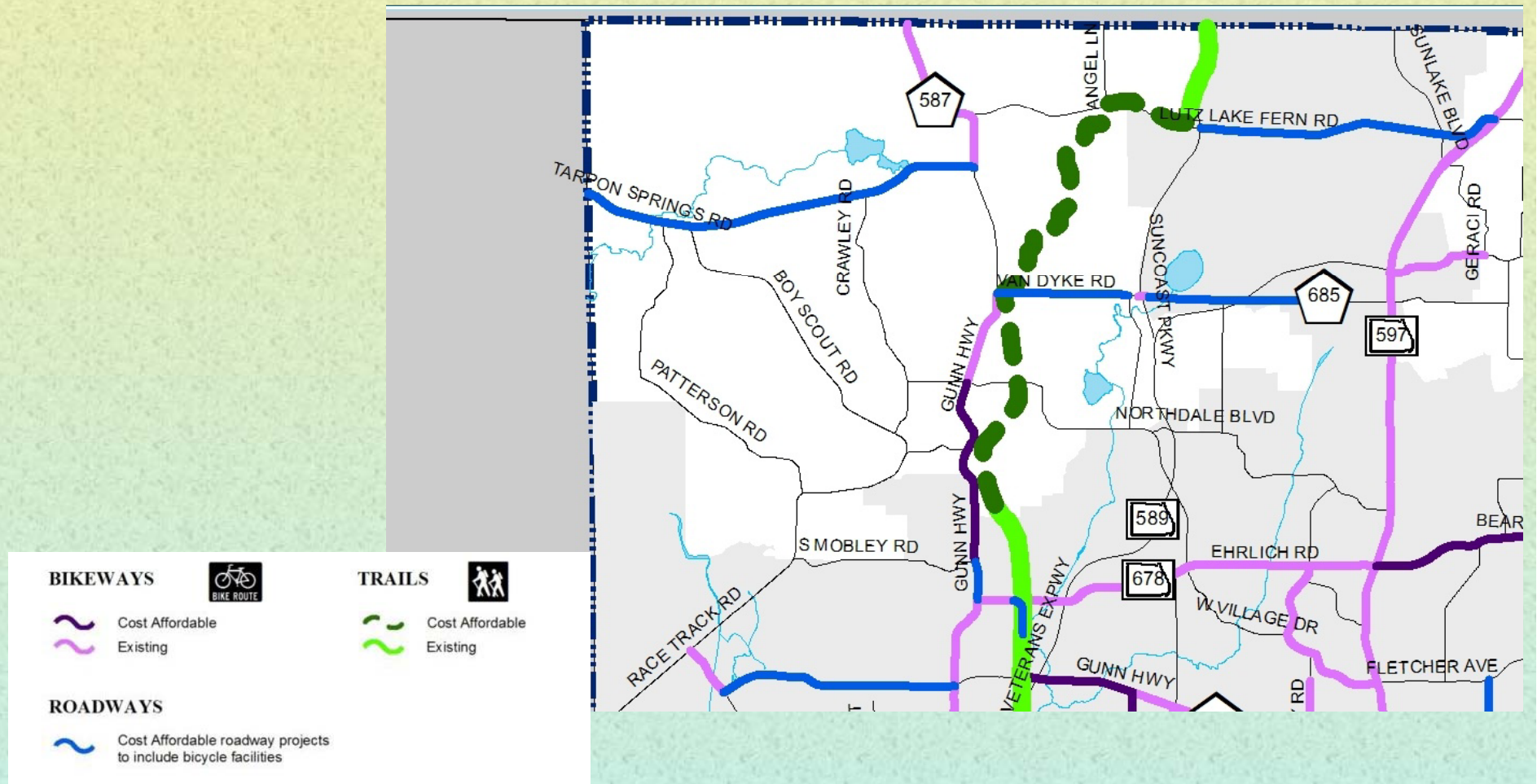
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2035 Number of Lanes



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Cost Affordable Bicycle Facilities



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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

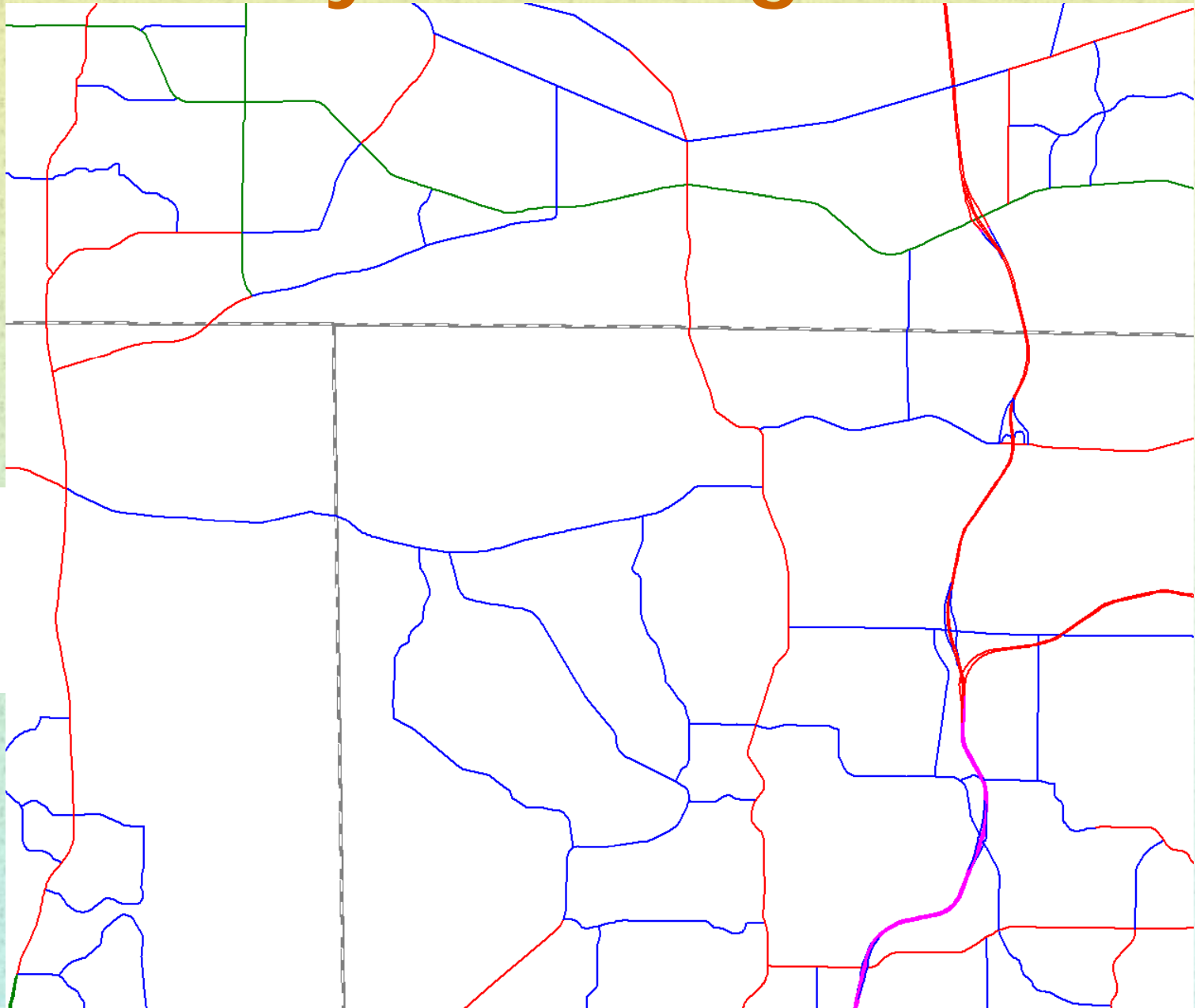
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What are some options?

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Gunn Hwy Widening



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Gunn Hwy Widening

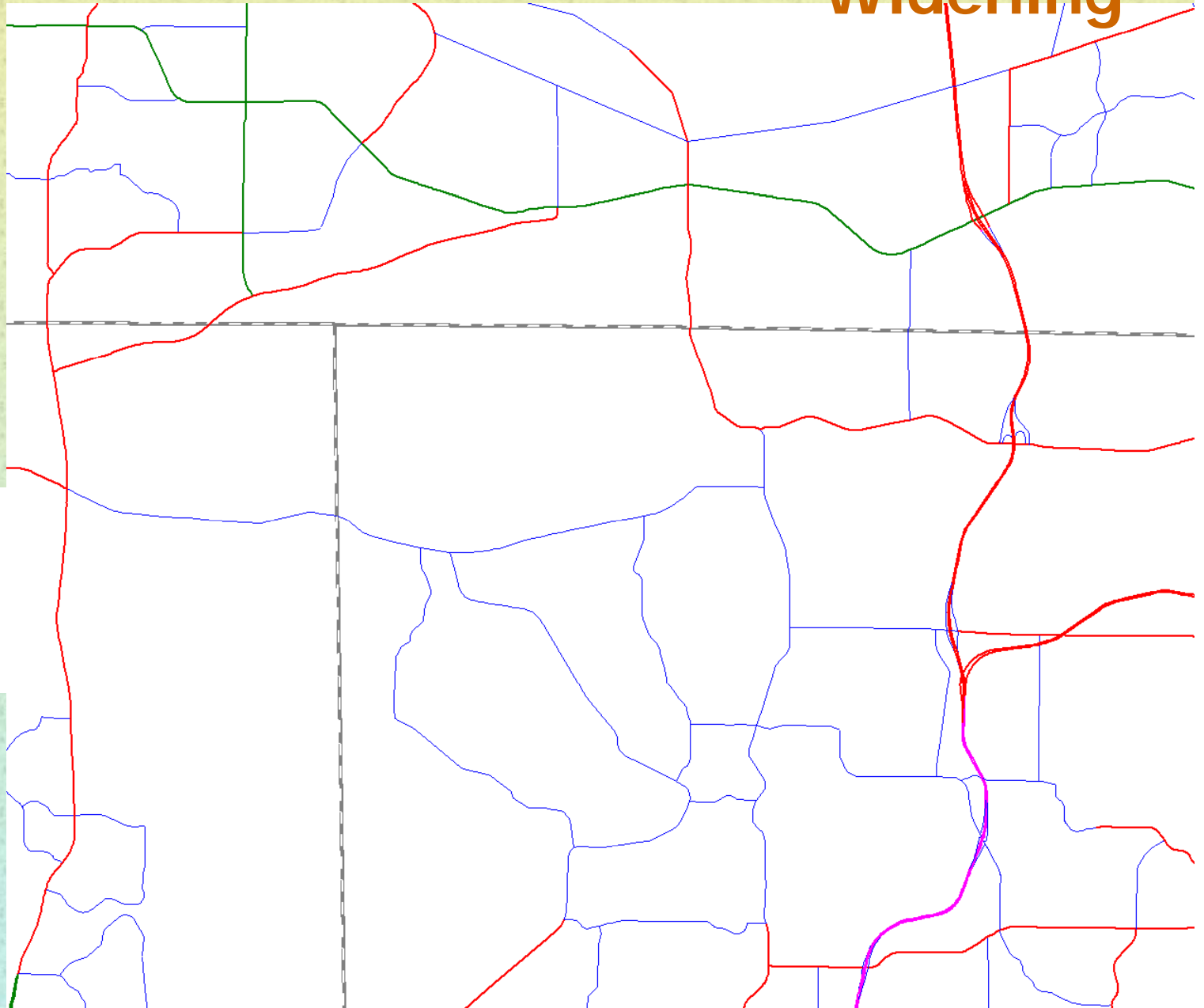
- Gunn Highway and Suncoast are deficient in 2035
- SR 54 volumes decreases 22% east of Gunn Hwy
- Lutz Lake Fern volume increases 4% east of Gunn Hwy
- Van Dyke volume increases 2% east of Gunn
- Gunn Hwy volume increases 71%
- Suncoast Pkwy volume decreases 17%
- Gunn Hwy and Suncoast would still be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

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Gunn Hwy & Lutz Lake Fern Road Widening

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



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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%

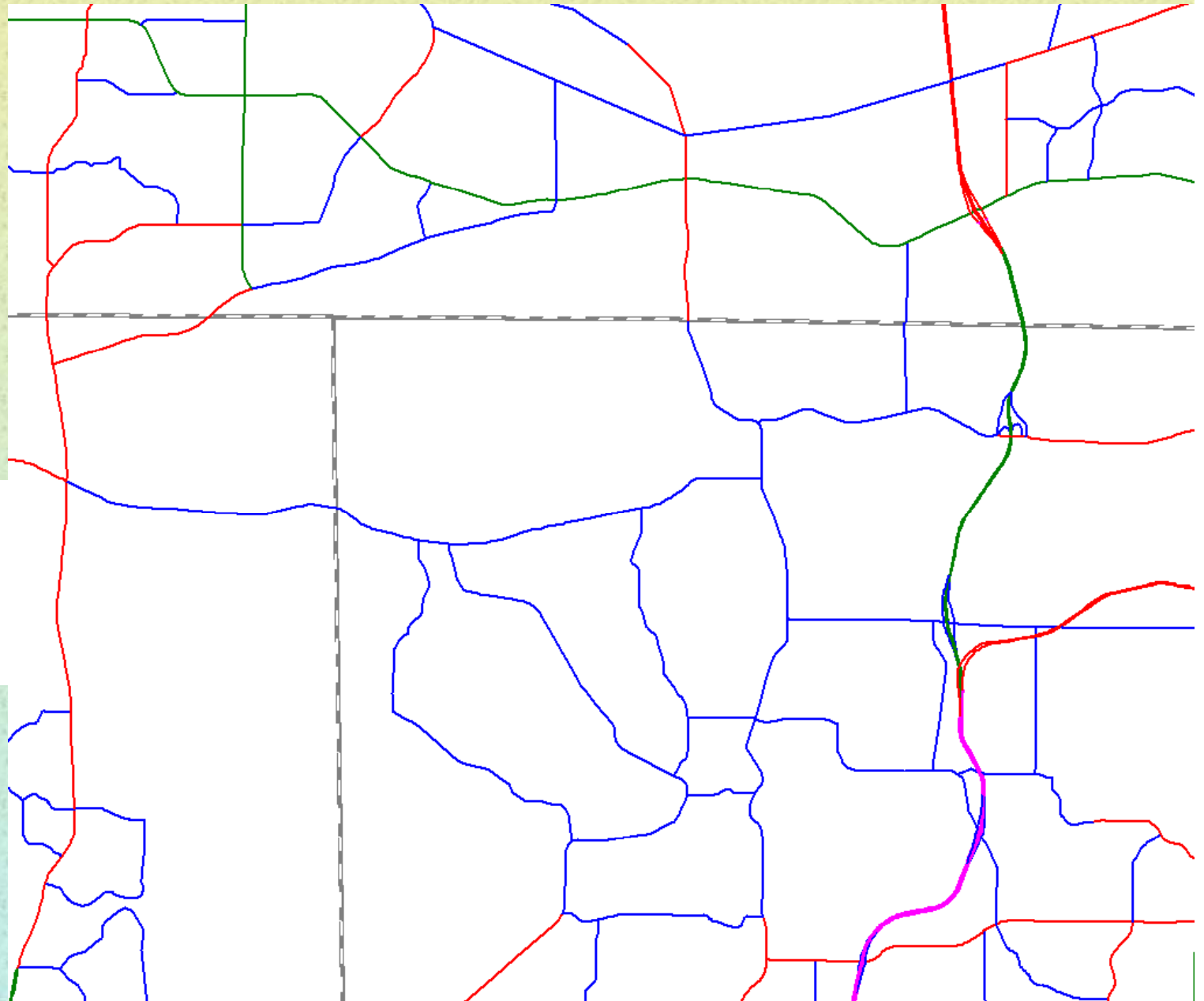
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Gunn Hwy & Lutz Lake Fern Road Widening

- 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

Suncoast Parkway Widening

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



Suncoast Parkway Widening

- Gunn Highway and Suncoast are deficient in 2035
- Gunn Hwy volume north of Lutz Lake Fern decreases 6%
- Gunn Hwy volumes south of Lutz Lake Fern decreases 9%
- Suncoast Pkwy volume increases 16% north of Lutz Lake Fern
- Suncoast Pkwy volume increases 14% south of Lutz Lake Fern

Suncoast Parkway Widening

- SR 54 volumes increases 4% east of Gunn Hwy
- Less than 1% decrease on Lutz Lake Fern and Van Dyke
- Gunn Hwy and Suncoast remain deficient

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Additional items moving forward

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