

# **SAND LAKE ROAD RCA STUDY**

**Board of County Commissioners Public Hearing**

**June 6, 2017**



# AGENDA

- Study Overview
- Existing Conditions
- Development of Alternatives
- Public Involvement
- Preferred Alternative
- Wallace Road
- Requested Action

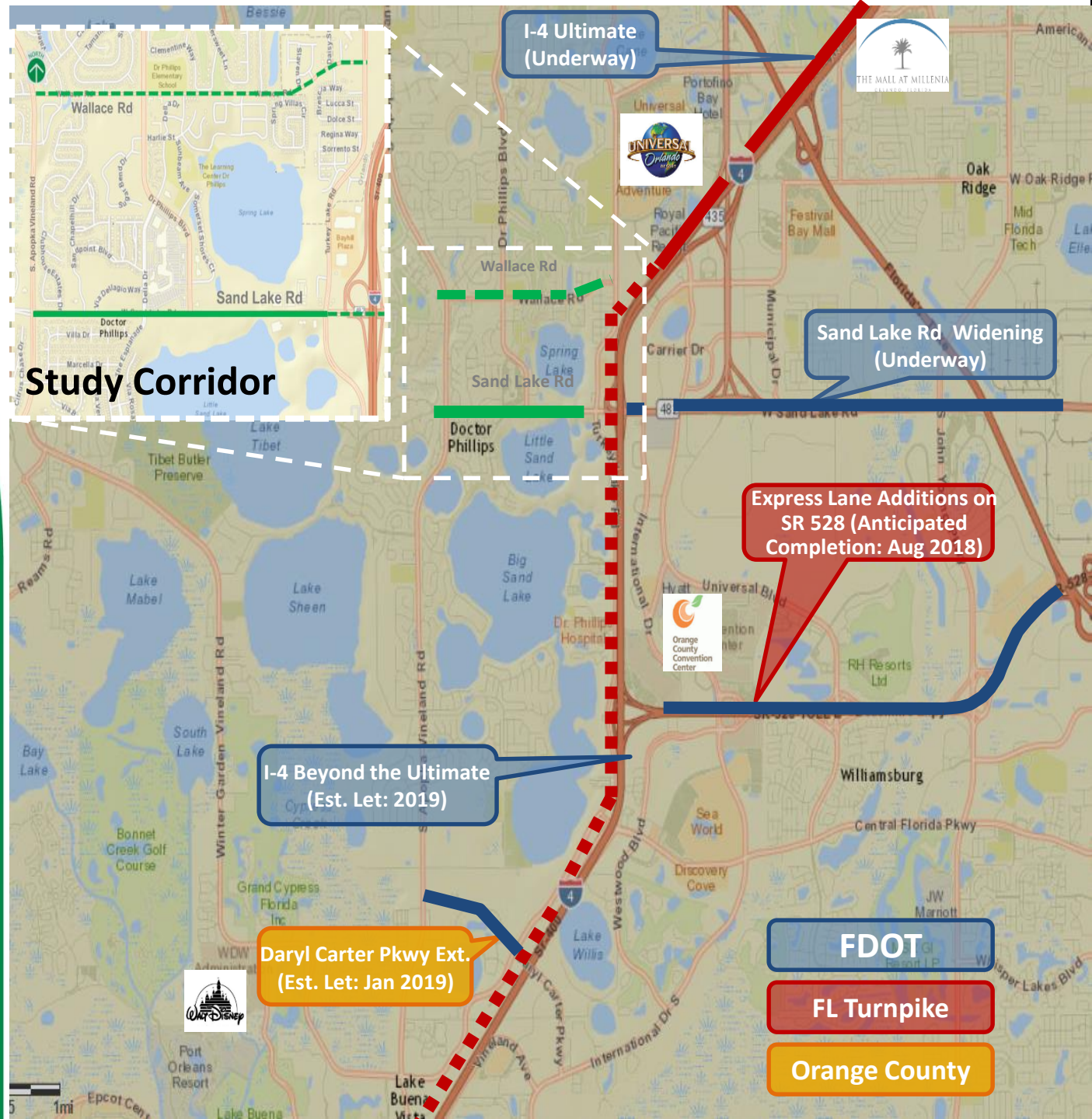


# STUDY OVERVIEW



## Regional Projects

- **I-4 Ultimate**
- **I-4 Beyond the Ultimate**
- **Daryl Carter Pkwy Extension**
- **SR 528 Express Lanes**
- **Sand Lake Rd. Widening**







# STUDY PURPOSE

## ■ Identify Context Sensitive & Cost Feasible Improvements

- Document Project Need
- Balance needs of all users
  - Safety
  - Mobility
  - Comfort



Automobiles



Pedestrians



Cyclists



Transit



Freight



# PUBLIC OUTREACH



**Study  
Newsletter**



**Study  
Website**



**Study  
Advisory  
Group  
Meetings**



**Public  
Community  
Meetings**



**LPA/BCC  
Public  
Hearings**

**[www.SandLakeRoadStudy.com](http://www.SandLakeRoadStudy.com)**





**LPA/BCC  
Work Session  
or Public Hearing**



**EXISTING CONDITIONS**





# EXISTING CONDITIONS



## Roadway Features

- 5' Sidewalks (both sides)
- No Dedicated Bicycle Facilities
- No Transit
- 4-Lane Divided, frequent R-turn lanes
- Mixed curb/ flush edges and medians
- Mixed open/closed drainage





# EXISTING CONDITIONS

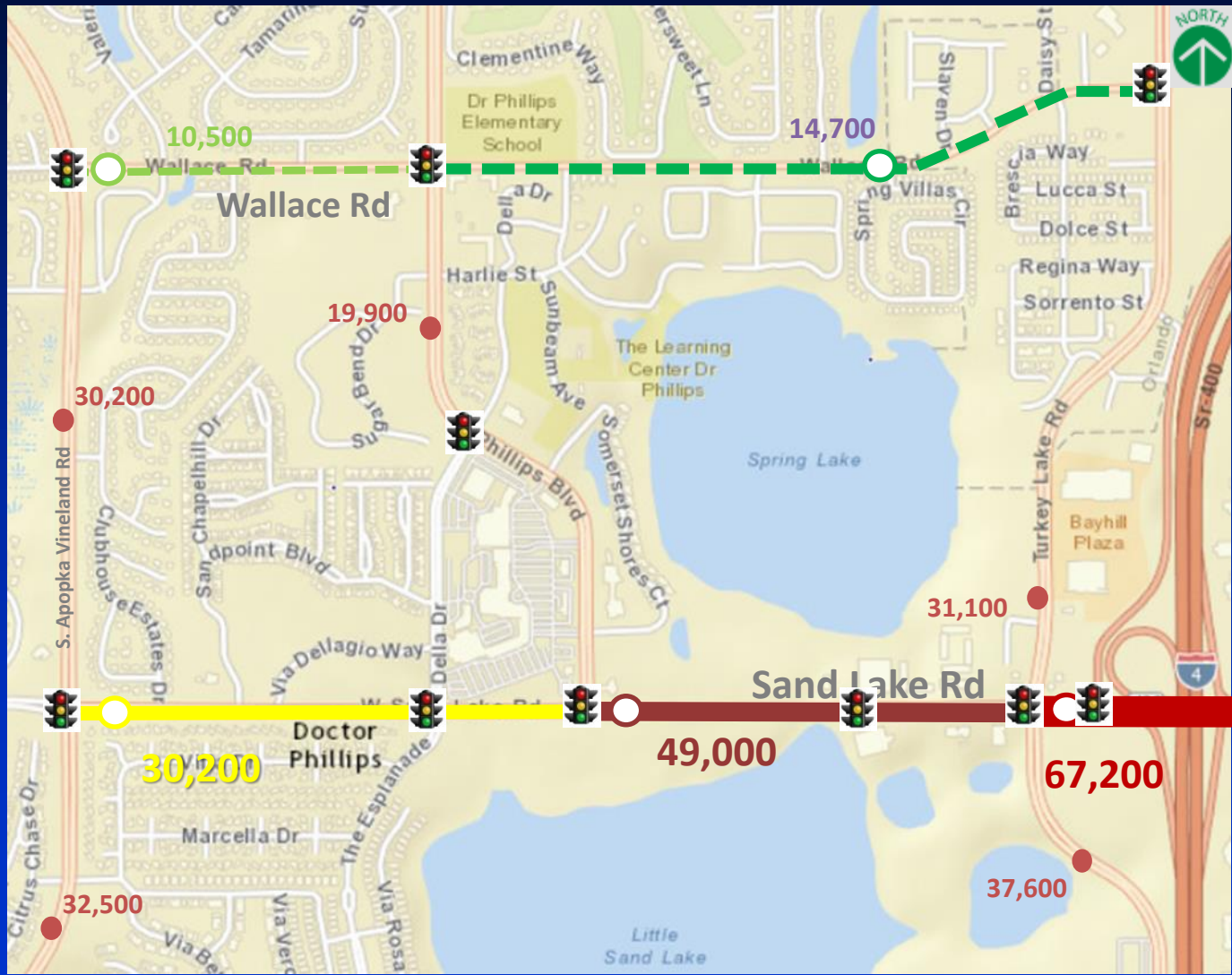


## Daily Traffic

- Distinct Segments
  - Apopka Vineland Rd. to Dr. Phillips Blvd.
  - Dr. Phillips Blvd. to Turkey Lake Rd.



Traffic Signals







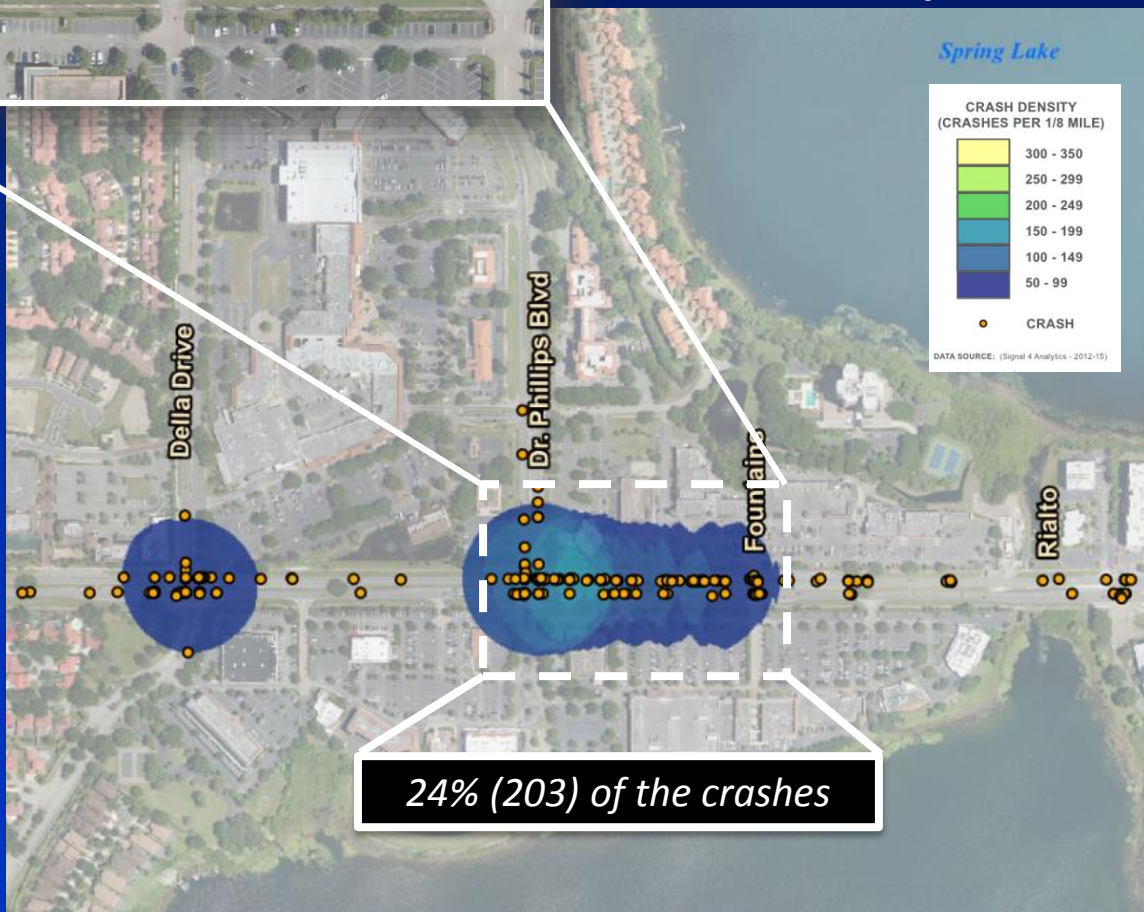
# EXISTING CONDITIONS



## Crash History & Access

- Analyzed 2012-2015 (4-Yr Period)
- Total Crashes in Study Corridor: 859
- Highest crash location west of Turkey Lake Rd. intersection is between Dr. Phillips Blvd. and Fountains

- 55% Rear End
- 29% Left Turn/Angle
- 24% with Injuries
- <1% Pedestrian/Bike





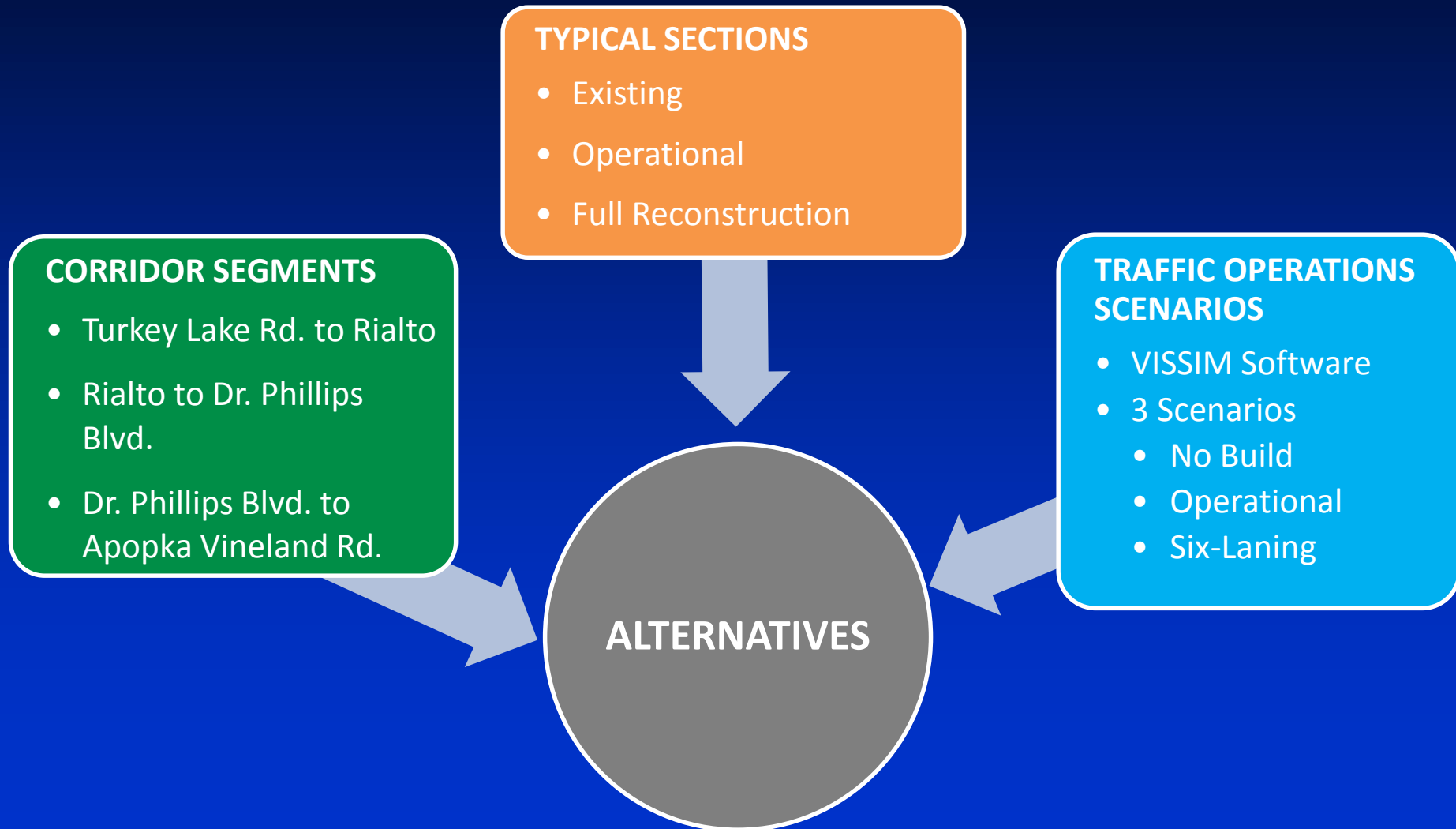


**DEVELOPMENT OF ALTERNATIVES**



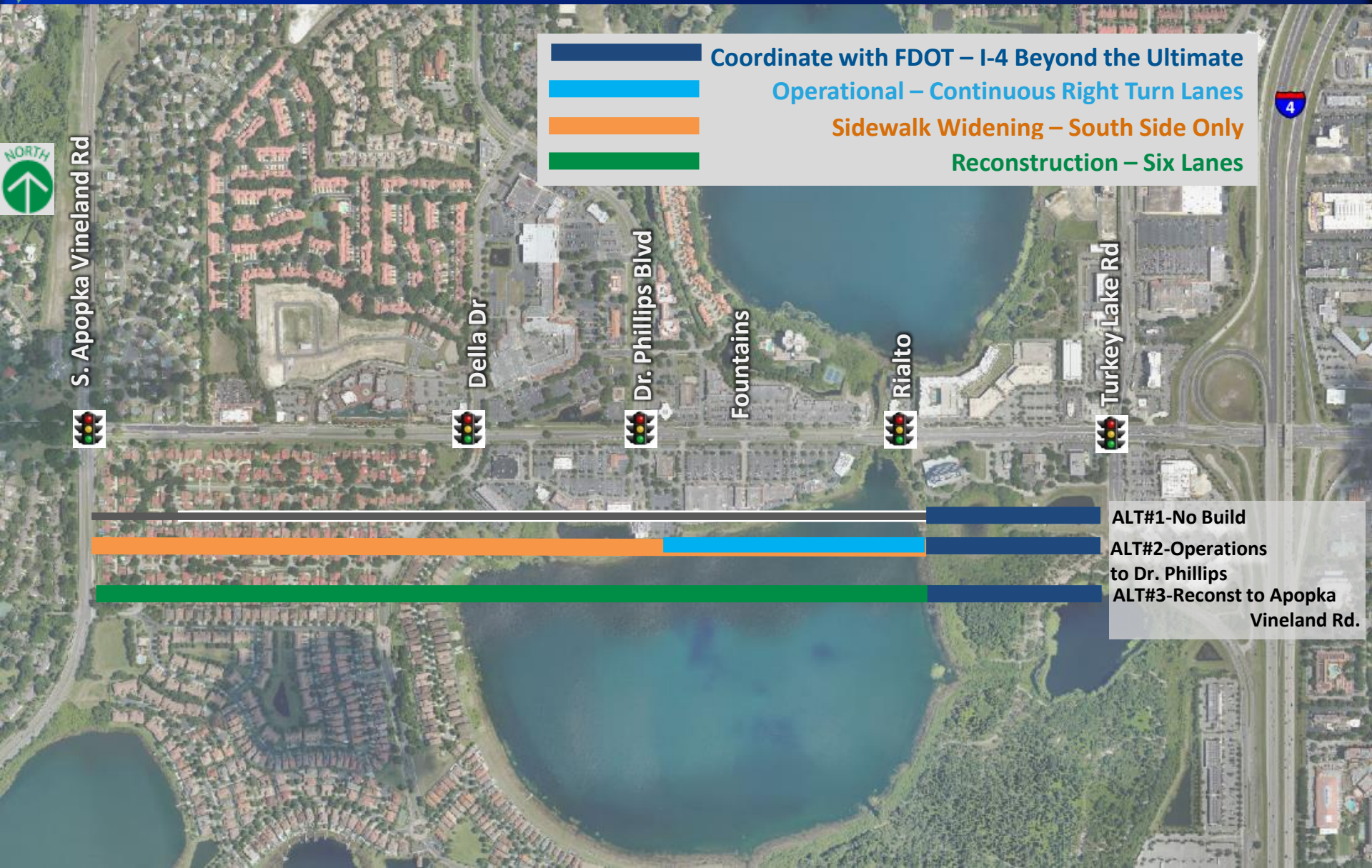


# THREE-PRONGED APPROACH





# ALTERNATIVES





# ALTERNATIVE EVALUATION MATRIX

Evaluation Criteria	1 - No Build	2 - Operational Improvements	3 - Full Reconstruction
Lane Changes from Turkey Lake Rd. to	None	Dr. Phillips Blvd.	Apopka Vineland Rd.
PM Pk WB Corridor Travel Time - 2020 (min)	5.1	4.1	4.2
PM Pk WB Corridor Travel Time - 2040 (min)	9.9	6.6	6.1
Complete Streets Accommodation Opportunities	Low	Moderate	High
Roadway Design & Landscape Opportunities	Low	Moderate	High
Stormwater Permitting Difficulty / Approach	None	Low Inline Treatment	High New/Expanded Ponds
Additional Right-of-Way Needed	No	No	Yes
Planning Cost (excludes ROW, Wetland Mitigation, Utility Relocation, and Lighting)	N/A	\$8mil-\$10mil	\$24mil-\$30mil





**PUBLIC INVOLVEMENT**



# PUBLIC INVOLVEMENT

## Study Advisory Group (SAG)

### Meeting #1:

*Improvements should preserve area character while accommodating all users*

### Meeting #2:

*Selected option should be strategically designed to include aesthetics where applicable*

### Meeting #3:

*Excitement about the project and considerable interest in stormwater treatment, wayfinding and landscaping that will help define the look and feel of the Dr. Phillips Community*





# PUBLIC INVOLVEMENT

## Public Meeting # 1

- **Key take away:** Alternative #2- Lane Improvements from Dr. Phillips Blvd to Rialto with aesthetics and landscaping where possible



## Public Meeting # 2

- **Key take away:** No major opposition; landscaping and hardscaping remain a challenge; design will need to address signage & stormwater







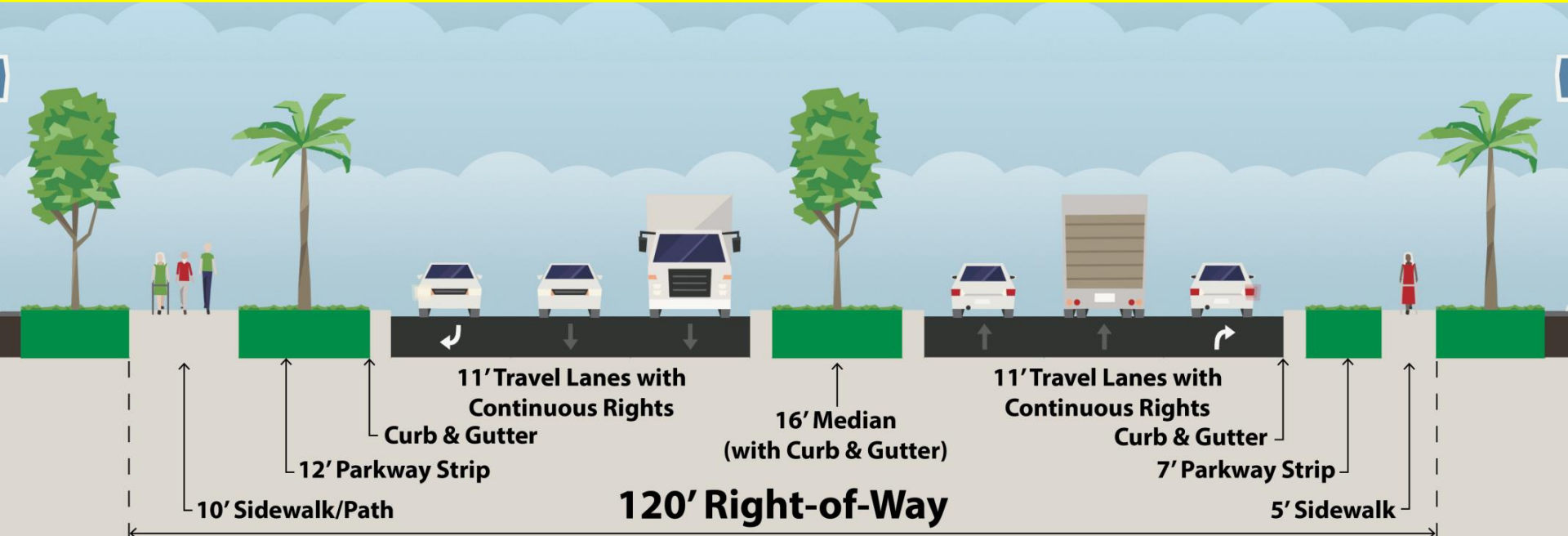
# PREFERRED ALTERNATIVE

Operational Improvements with Median Shift



# PREFERRED ALTERNATIVE

## Eastside of Corridor (Dr. Phillips to Rialto)







# PREFERRED ALTERNATIVE

## Eastside of Corridor (Dr. Phillips to Rialto)



Reduces stop and go traffic congestion improving the safety of automobile and pedestrian movement

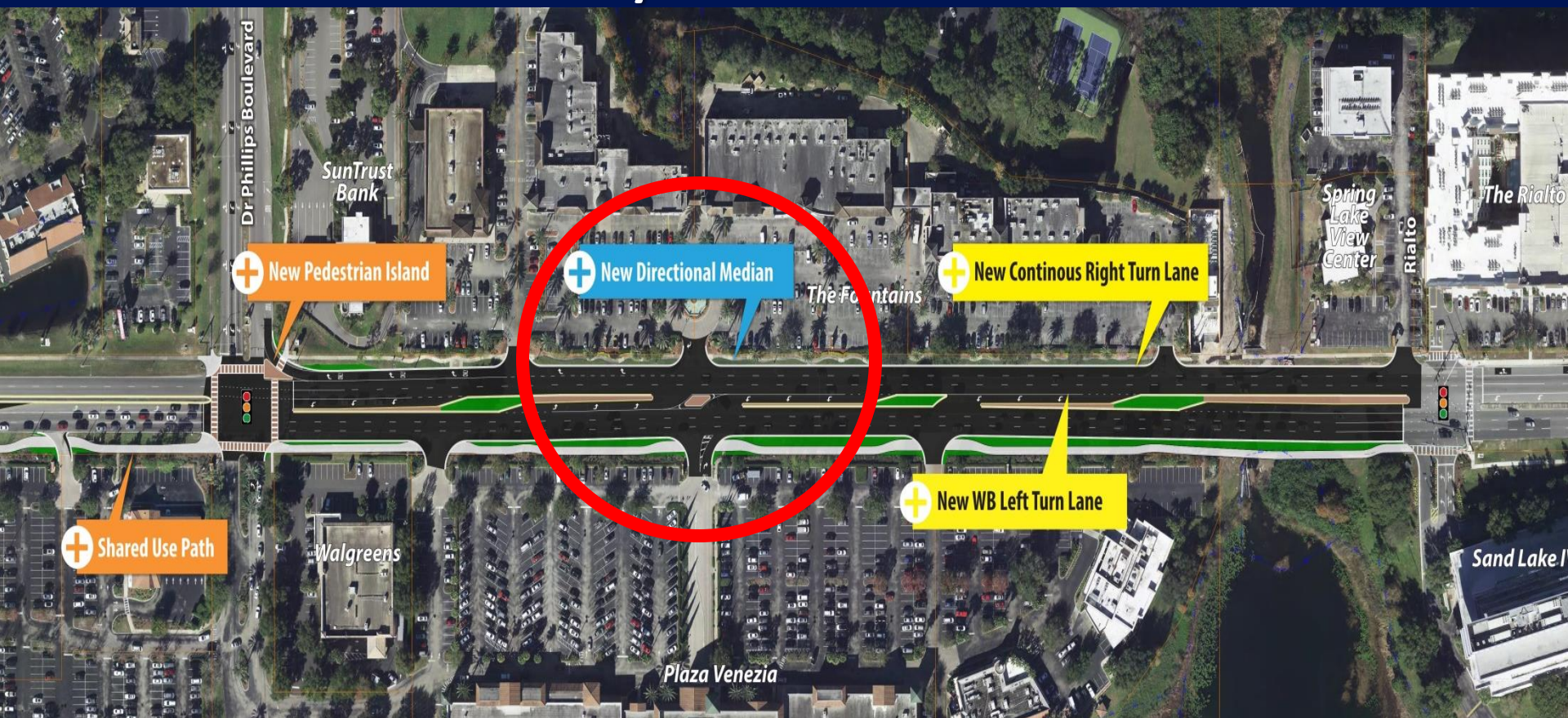




# PREFERRED ALTERNATIVE

## Eastside of Corridor (Dr. Phillips to Rialto)

### TREATMENT OF FOUNTAINS/VENEZIA MEDIAN OPENING - OPTION 1



Directional Median shown for Fountains /  
Plaza Venezia Primary Access

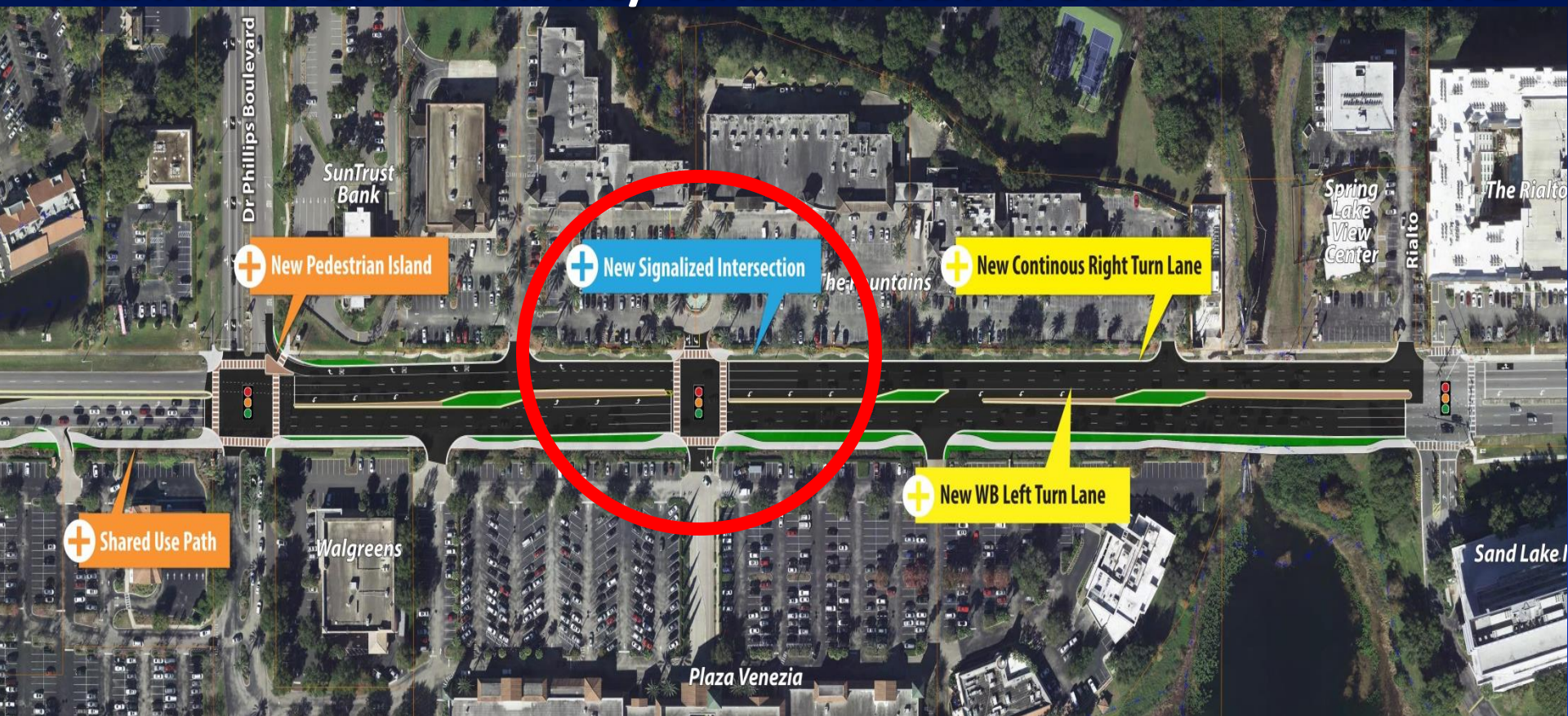




# PREFERRED ALTERNATIVE

## Eastside of Corridor (Dr. Phillips to Rialto)

### TREATMENT OF FOUNTAINS/VENEZIA MEDIAN OPENING – OPTION 2



New Traffic Signal shown for Fountains / Plaza Venezia Primary Access  
(Note: *Signalize Only If Warranted*)





# PREFERRED ALTERNATIVE

Eastside of Corridor (Dr. Phillips to Rialto)

**Existing  
Fountains/  
Venezia  
Median  
Opening**



Plaza Venezia  
Driveway

The Fountains  
Driveway



# PREFERRED ALTERNATIVE

## Eastside of Corridor (Dr. Phillips to Rialto)

Rendering  
of Option 1:

Directional  
Median  
Opening





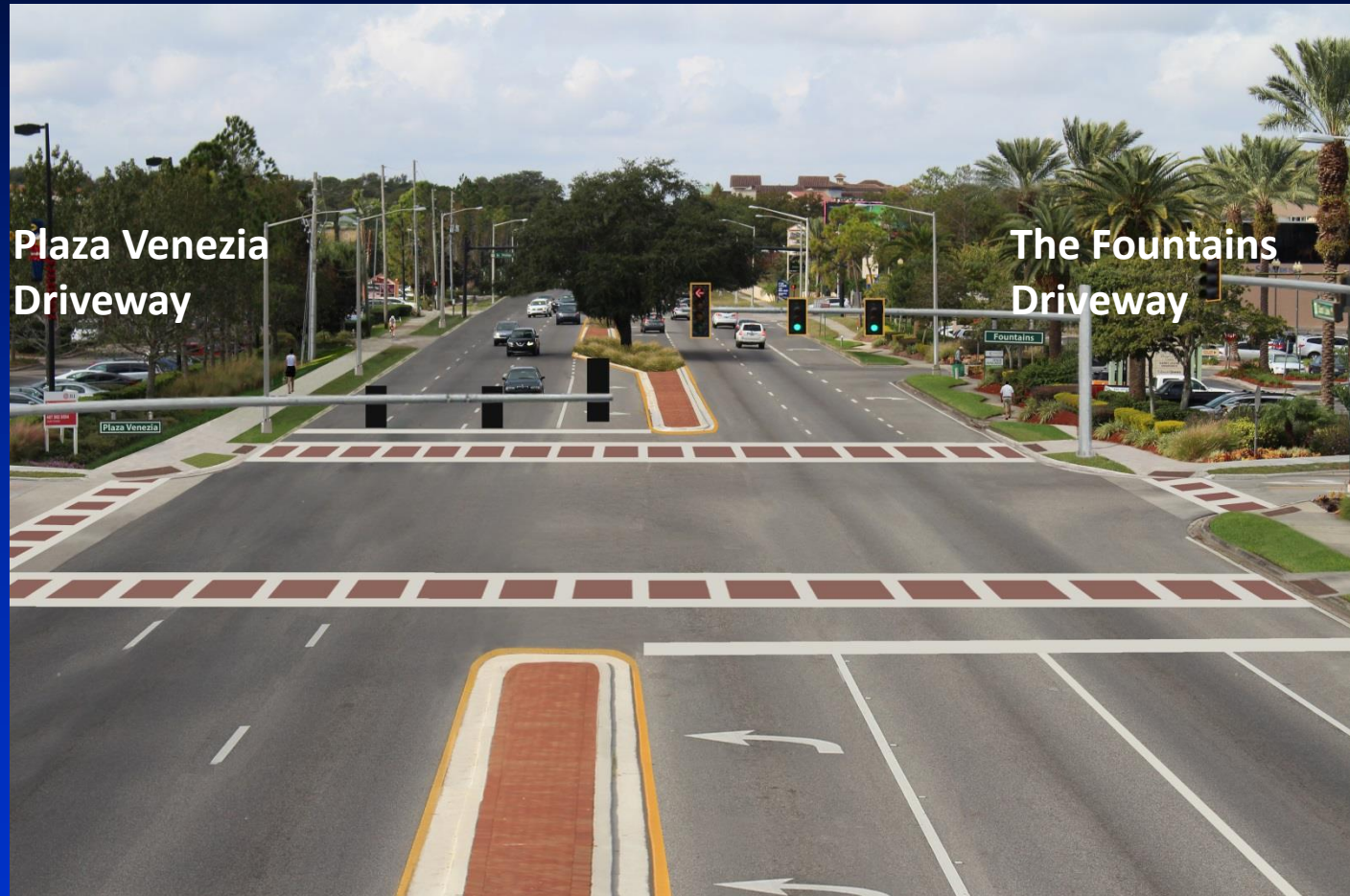


# PREFERRED ALTERNATIVE

Eastside of Corridor (Dr. Phillips to Rialto)

Rendering  
of Option 2:

Signalized  
Intersection  
with  
Crosswalks  
(If warranted)





# PREFERRED ALTERNATIVE

## Eastside of Corridor (Dr. Phillips to Rialto)

### Existing Layout

- Westbound Direction Approaching Easternmost Plaza Venezia Access Point







# PREFERRED ALTERNATIVE

## Eastside of Corridor (Dr. Phillips to Rialto)

### Proposed

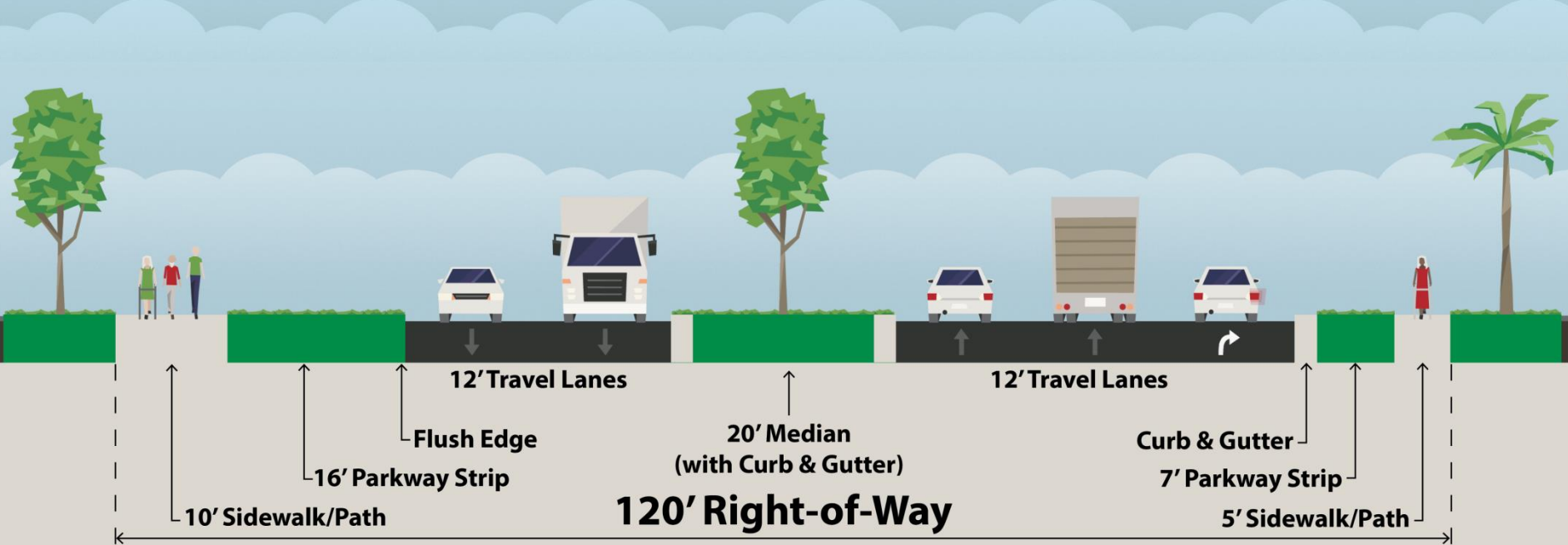
- New Left Turn Lane and Directional Opening to Easternmost Plaza Venezia Access Point
- Additional pavement for WB Right Turn Lanes





# PREFERRED ALTERNATIVE

Westside of Corridor (Apopka Vineland Rd to Dr. Phillips Blvd)







# PREFERRED ALTERNATIVE

Westside of Corridor (Apopka Vineland Rd to Dr. Phillips Blvd)

## Existing Conditions

- Standard 5' sidewalk



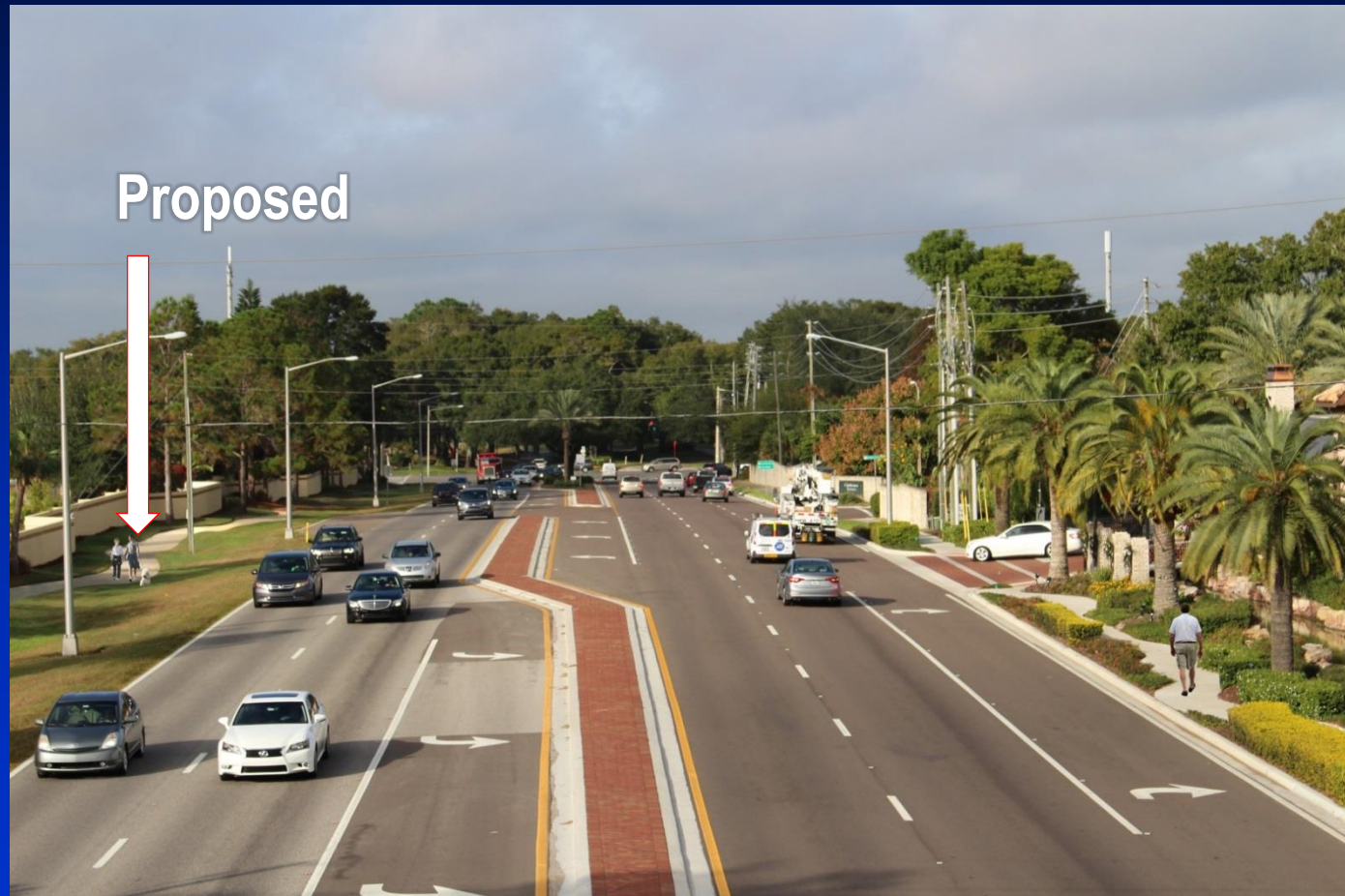


# PREFERRED ALTERNATIVE

Westside of Corridor (Apopka Vineland Rd to Dr. Phillips Blvd)

## Proposed Improvement

- 10' Shared Use Path (Extended from Apopka Vineland Road to Rialto – South Side of Road Only)







# PREFERRED ALTERNATIVE

## Preliminary Estimates

Category	Estimated Cost (1/20/2017)
Roadway/Sidewalk/Drainage	\$2,800,000
Stormwater Treatment	\$3,300,000
Lighting	(awaiting info from Traffic Eng.)
Landscaping (Trees and Turf)	\$125,000
Signalization (if warranted)	\$825,000
Contingency (25% overall)	\$1,800,000
<b>Total</b>	<b>~\$8,850,000+</b>

**Note:** This construction estimate assumes no ROW acquisition, wetland mitigation, or utility relocation cost.



# PREFERRED ALTERNATIVE

## Consistency with the Comprehensive Plan

### Transportation Element

#### Objectives

- Implement Long Range Transportation Plan (Obj. T1.1)
- Implement multimodal transportation system (Obj. T1.3)
- Ensure LOS on County roads within unincorporated Orange County (Obj. T2.1)
- Support strategies which promote convenient & efficient mobility system for all modes (Obj. T3.1)



**ORANGE COUNTY  
FLORIDA**

**COMPREHENSIVE PLAN  
2010 - 2030**

**GOALS, OBJECTIVES & POLICIES**

**ADOPTED:** MAY 19, 2009

**AMENDED:** November 29, 2016,  
THROUGH ORDINANCE 2016-31

**EFFECTIVE:** January 19, 2017

**PREPARED BY:**  
ORANGE COUNTY COMMUNITY, ENVIRONMENTAL  
AND DEVELOPMENT SERVICES DEPARTMENT

**ORANGE COUNTY PLANNING DIVISION**





# WALLACE ROAD REVIEW

Conceptual Operational Recommendations





# WALLACE ROAD

## Three Lane Concept (Unfunded)



Three lane cross section tying into the intersection improvements





**LPA/BCC  
Work Session  
or Public Hearing**



## NEXT STEPS

- Following Board approval, the recommended improvements will proceed into design and engineering.







# **ACTION REQUESTED**

- **Approve the findings and recommendations of the Sand Lake Road Roadway Conceptual Analysis (RCA) Study**
- **Approve proceeding with final design, right-of-way acquisition and construction**
- **Make a finding of consistency with the Comprehensive Plan**