

*Transportation Planning Division*

# **Innovation Way South Preliminary Design Study (PDS)**

**Orange County  
Board of County Commissioners  
Work Session  
December 13, 2022**



# Presentation Outline

- **Overview**
- **Existing Conditions**
- **Recommended Alternative**
- **Public Engagement**
- **Summary and Next Steps**





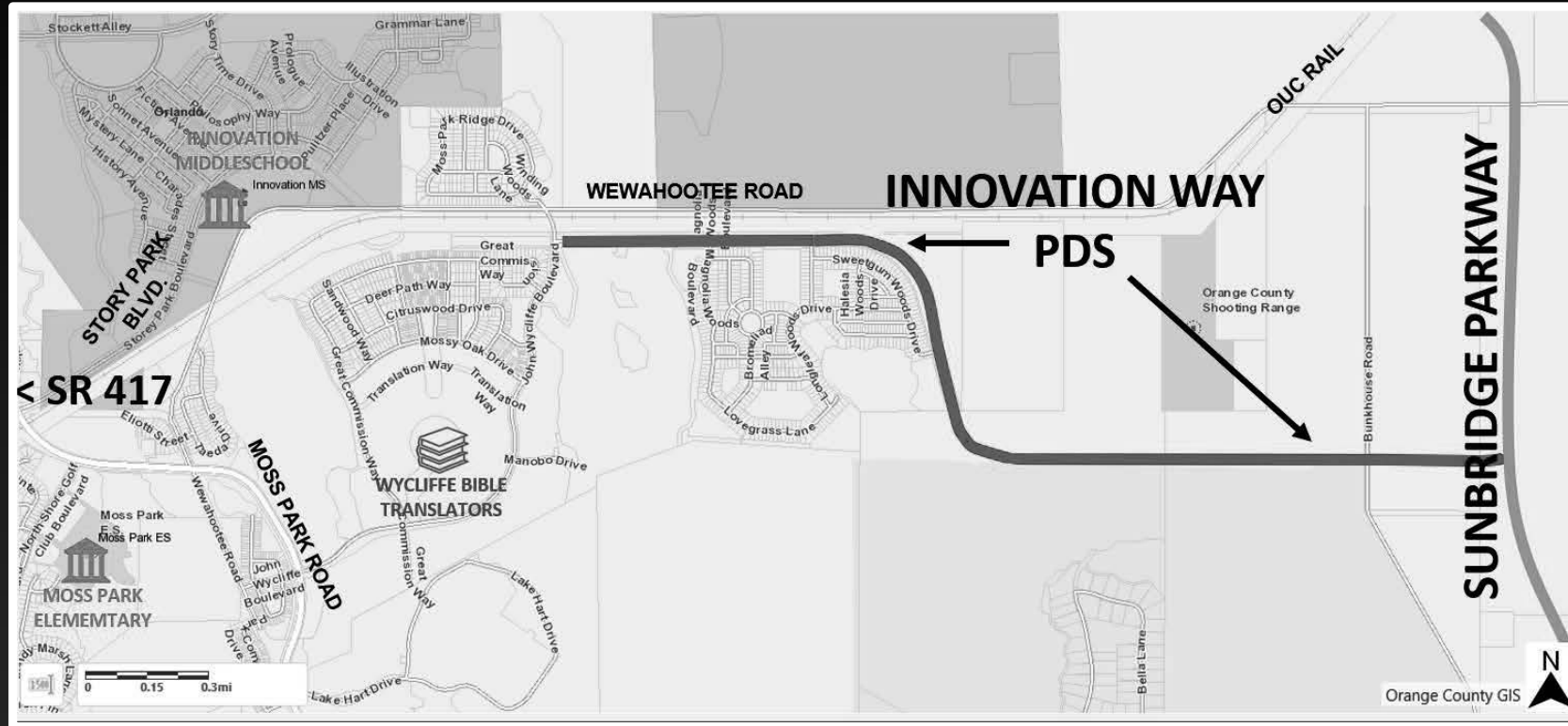
# Presentation Outline

- **Overview**
- Existing Conditions
- Recommended Alternative
- Public Engagement
- Summary and Next Steps





# Overview



**Transportation Agreement for Innovation Way (Moss Park to Sunbridge) Road Network Agreement approved by the BCC in December 2018**

**John Wycliffe Boulevard to Sunbridge Parkway, approximately 2.4 miles  
Extension of existing Innovation Way**

**Part of the Orange County Long Range Plan for a regional collector**



# Overview

## Regional Connectivity

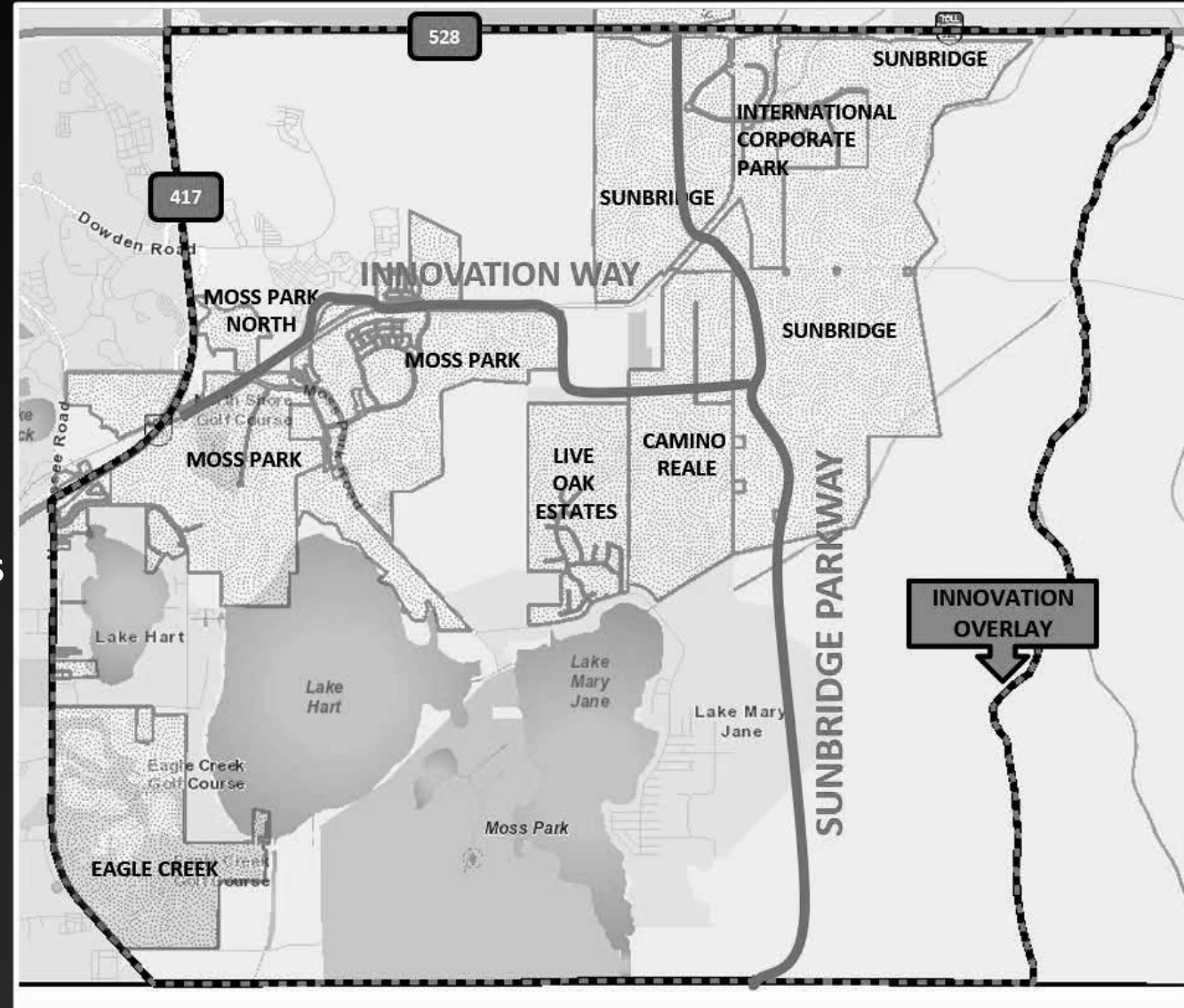
- Sunbridge: 5200 single / 1650 Multi  
2.9 M ft<sup>2</sup> Industrial / 6.35 M ft<sup>2</sup> Office/Com.
- International Corporate Park: 3.175 M ft<sup>2</sup> Industrial
- Camino Reale: 3000 residential / 330 K ft<sup>2</sup> Office/Commercial
- Moss Park: 2524 single / 350 Multi  
523 K ft<sup>2</sup> Industrial / 600 K ft<sup>2</sup> Office/Comm.
- Moss Park North: 140 single / 262 multi / 5 acres Commercial


**10,864 Single Family**

**2,262 Multi Family**

**6.6M ft<sup>2</sup> Industrial**

**7.28M ft<sup>2</sup> Office/Commercial**





# Overview

## Identify Improvements:

- Document Project Need
- Balance Needs of all users
  - Safety
  - Mobility
  - Comfort
  - Connectivity



**Automobiles**



**Pedestrians**



**Cyclists**



**Freight**



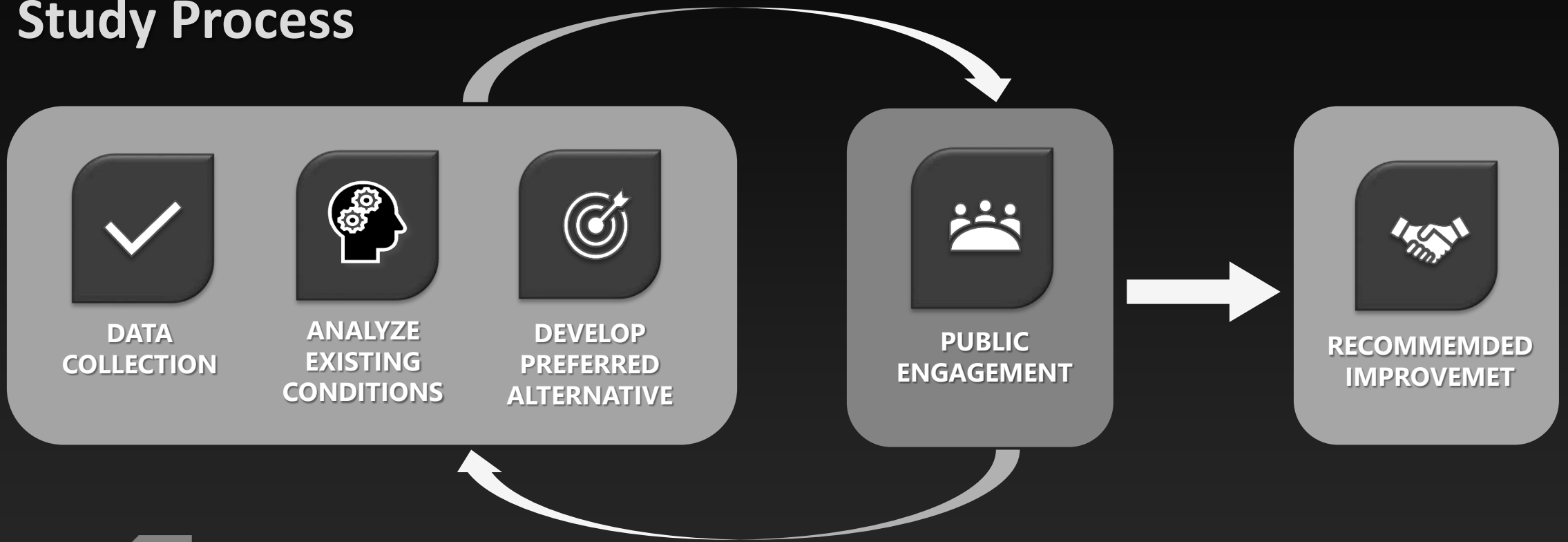
**Transit**





# Overview

## Study Process





# Presentation Outline

- Overview
- **Existing Conditions**
- Recommended Alternative
- Public Engagement
- Summary and Next Steps

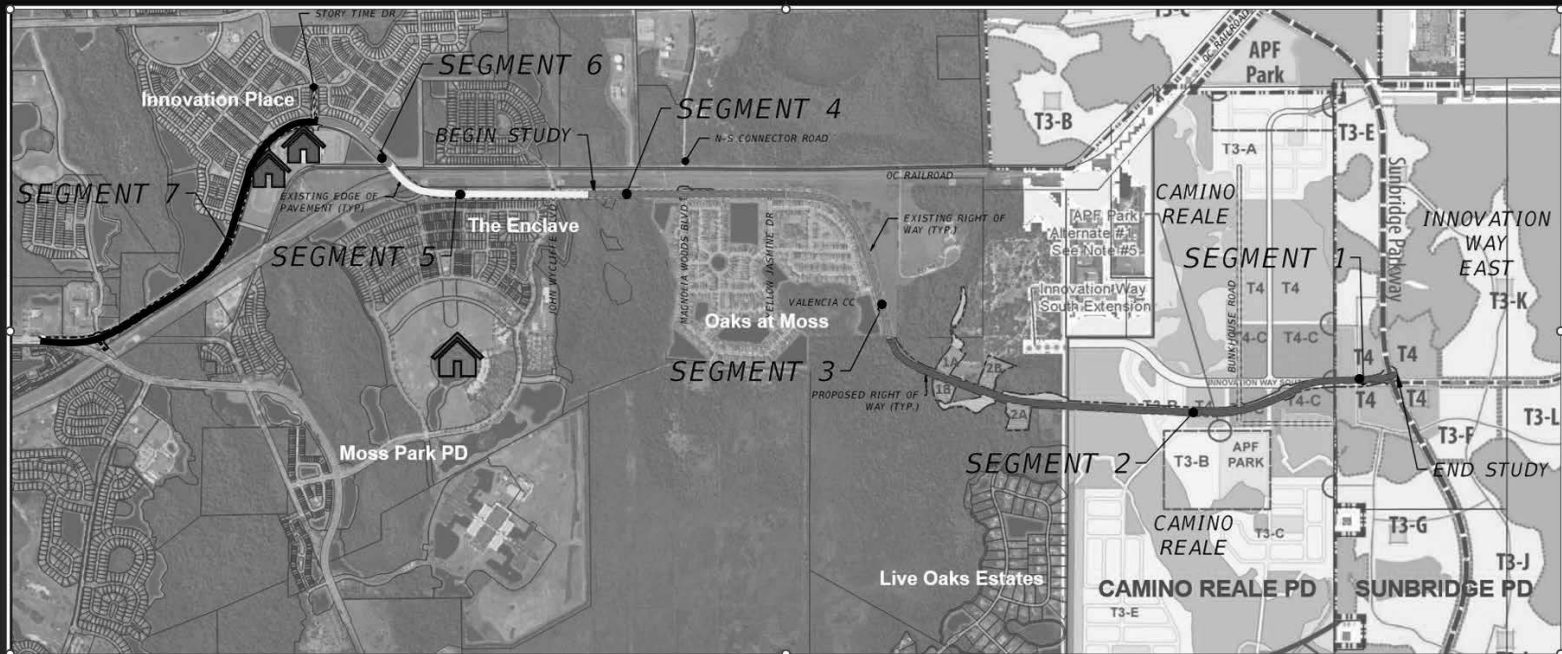




# Existing Conditions

## Land Use and Schools

- Camino Reale PD
- Sunbridge PD
- Moss Park PD
- North Moss Park PD
- Live Oak Estates
- Schools
  - Innovation Way Middle School
  - Proposed school expansion:
    - 97-E-SE-2 (June 2024)
- Wycliffe Bible Translators campus





# Existing Conditions

## Existing Drainage

- Project is within the South Florida Water Management District (SFWMD)
- The Lake Hart Basin is located within the Lake Hart Watershed
- Current stormwater treatment is contained within existing permitted ponds





# Existing Conditions

## Existing Drainage

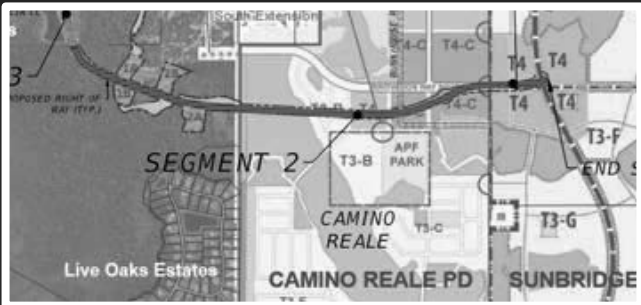
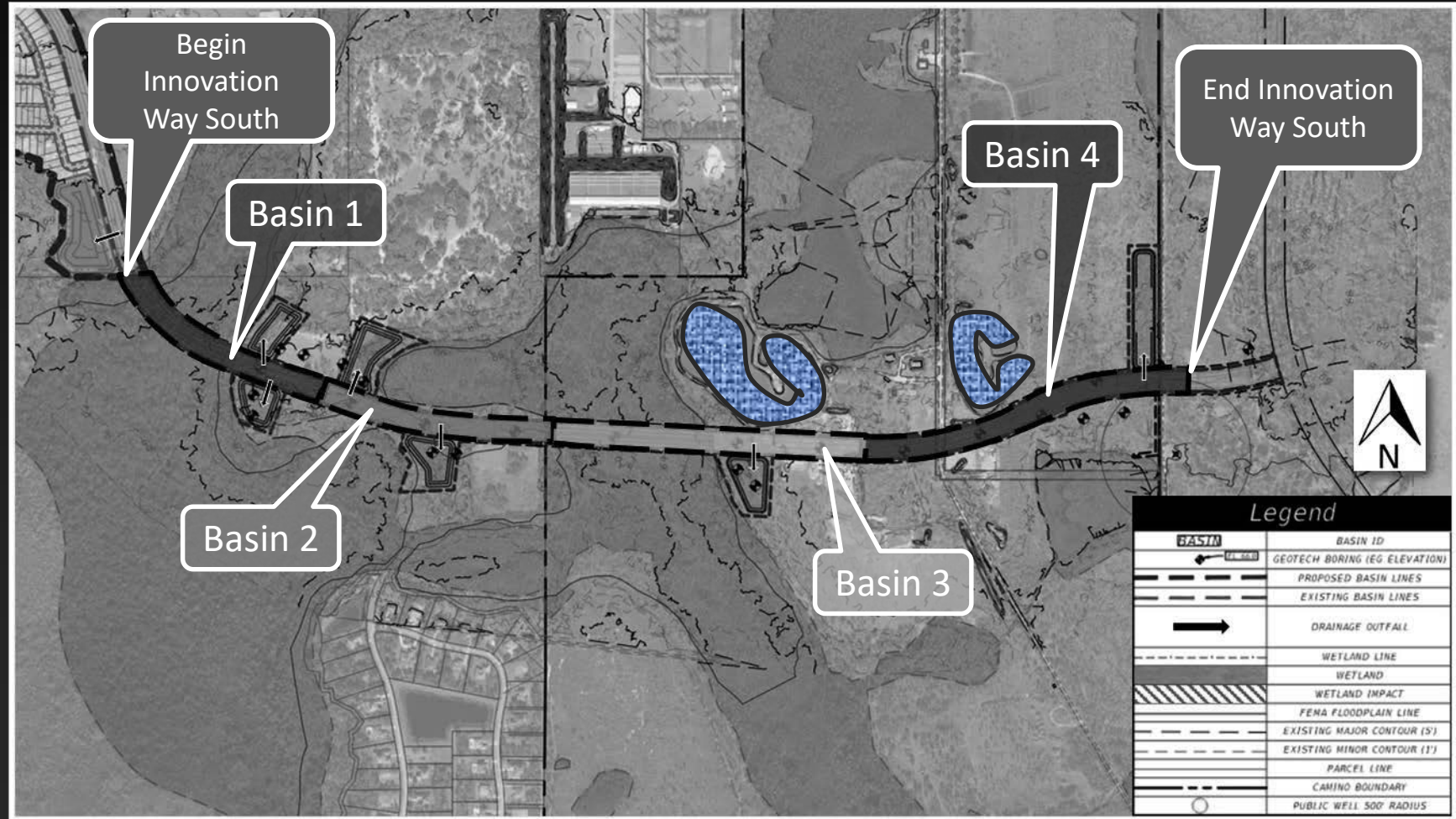




# Existing Conditions

## Environmental Analysis

- 4 Wetlands
- 4 Roadway Basins





# Existing Conditions

## Environmental Analysis

- Habitat supporting flora and fauna species of concern including the following species is present in direct vicinity of the corridor
- Species counts will be performed during design
- No historic buildings or archaeological sites identified

### Reptiles & Amphibians

- Black Racer
- Brown Anole
- Green Anole
- Six-lined Racerunner

### Mammals

- Eastern Grey Squirrel
- Nine-banded Armadillo
- White-tailed Deer

### Birds

- Swallow-tailed Kite
- Black Vulture
- Northern Mockingbird
- Northern Cardinal
- Blue Jay
- Turkey Vulture
- Blackbellied Whistling-Duck



Green Anole



Black Racer



Swallow-tailed Kite





# Presentation Outline

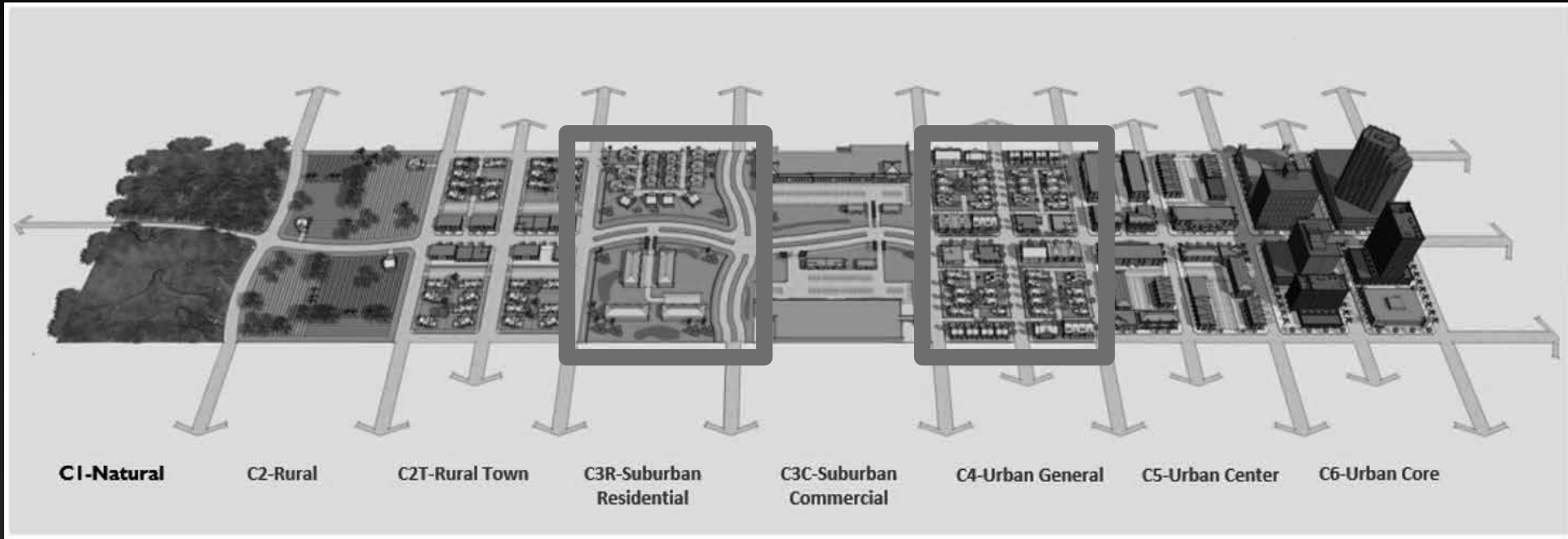
- Overview
- Existing Conditions
- **Recommended Alternative**
- Public Engagement
- Summary and Next Steps





# Recommended Alternative

## Context Classification C3R Suburban Residential and C4 Urban General



**Allows for 30 – 45 mph Design Speed According to Context**

**Allows the Creation of a Project Specific Transition Zones between Lower Density Suburban and Medium to High Density Population Centers**

**Facilitates Shared Use Path for Pedestrian and Bicycle Traffic**



# Recommended Alternative

STRATEGIES TO ACHIEVE DESIRED OPERATING SPEED FOR ARTERIALS AND COLLECTORS		
CONTEXT CLASSIFICATION	DESIGN SPEED (MPH)	STRATEGIES
C3R	45-55	Project Specific Transition Zone
	40-45	Roundabout, Lane Narrowing, Horizontal Deflection, Speed Feedback Signs, RRFBs, and PHBs
	35	Roundabout, Lane Narrowing, Horizontal Deflection, Speed Feedback Signs, Islands in Crossings, Road Diet, RRFBs, and PHBs, Terminated Vistas
C4	40-45	Roundabout, Lane Narrowing, Horizontal Deflection, Speed Feedback Signs, RRFBs, and PHBs
	35	Techniques for 40-45 plus On-Street Parking, Street Trees, Short Blocks, Median Islands in Crossings, Bulb Outs, Terminated Vistas
	25-30	Techniques for 4-45 plus Chicanes, Median Islands in Curved Sections, Textured Surfaces

## Included in the Study:

- Horizontal Deflection addressed by Horizontal Curves
- Street Trees
- Curb/Gutter, Medians

## Determined in Design:

- Median Island Crossings

## Post Construction as Indicated by Pedestrian and Bicyclist Use Patterns

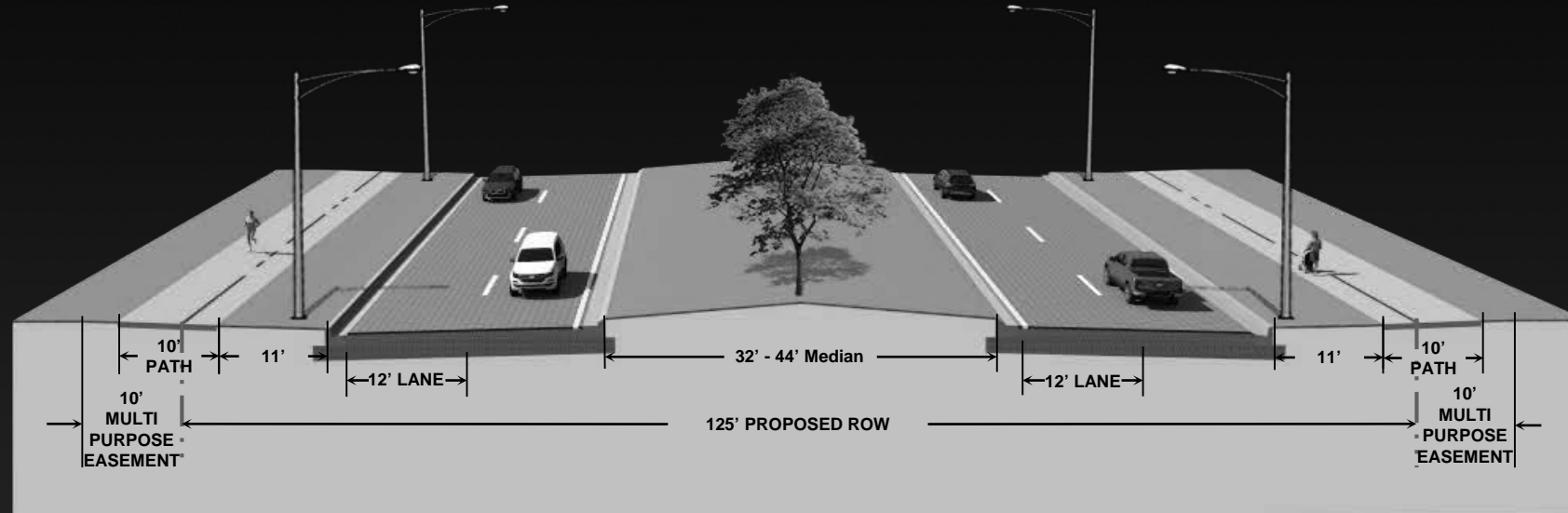
- Speed Feedback Signs
- Textured Surfaces
- Mid-Block Crossings
- Speed Tables / Raised Intersections
- RRFBs, PHBs, Hawk





# Recommended Alternative

## Innovation Way South Typical Section



**2 - 12' Travel Lanes, 32'-44' Raised Grassed Median**

**2 - 10' Multi-Use Trails Replacing Non-Conforming Bike Lanes**

**Improves Mobility for Pedestrians and Bicyclists**

**Minimizes Right-of-Way Needs and ties into the Existing Roadway**

**Multi-Modal Corridor - Wide Median and Right-of-Way Width Accommodate Future Transit**



# Recommended Alternative

## Traffic Data

- Existing level of service (LOS C) is adequate
- All roadway segments are expected to operate at an acceptable level of service LOS C in build year 2025
- Projected Average Annual Daily Traffic (AADT)
  - 2023: 6710-8010 AADT
  - 2035: 17,440-20,830 AADT
  - 2045: 31400-37500 AADT

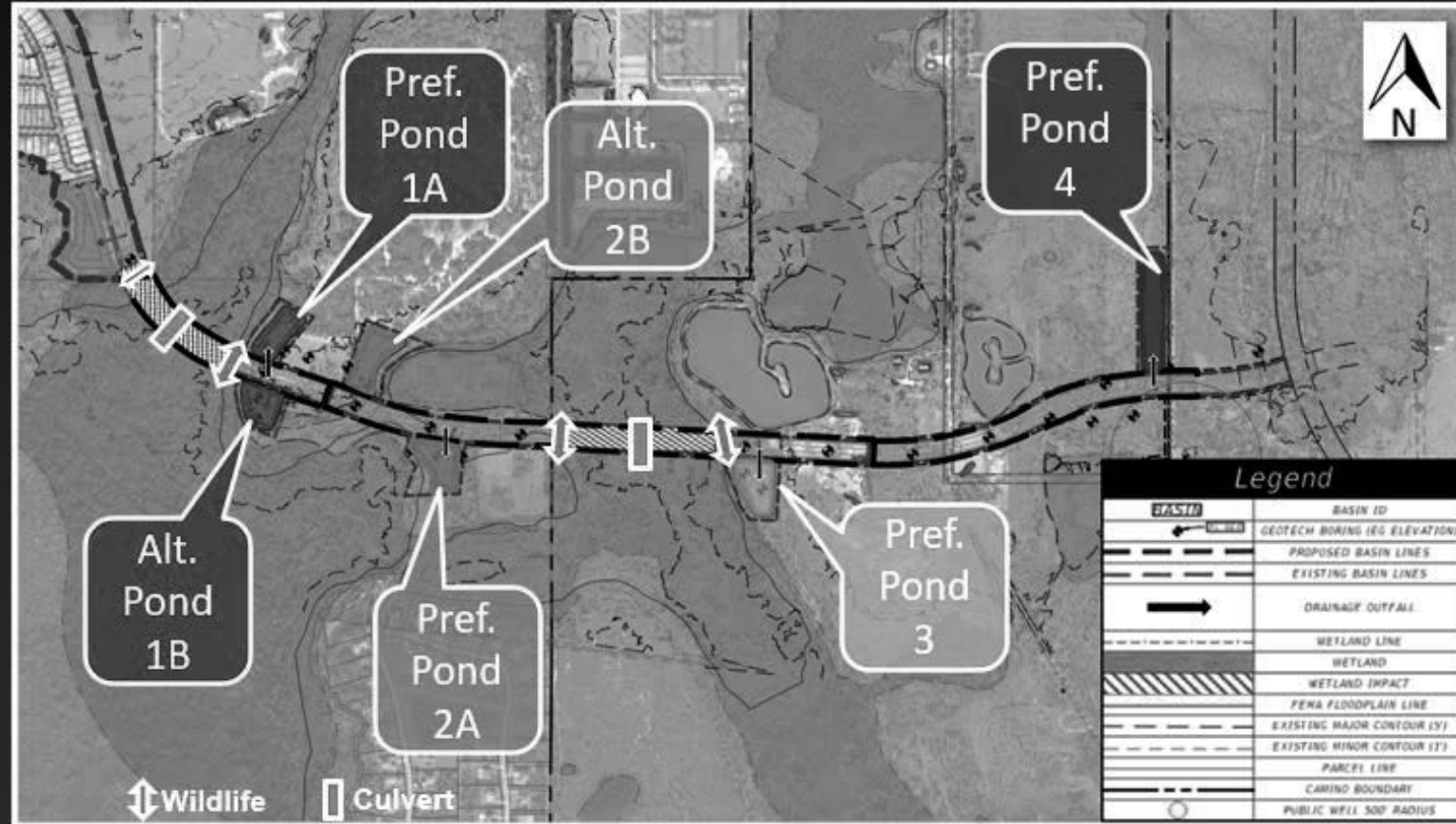
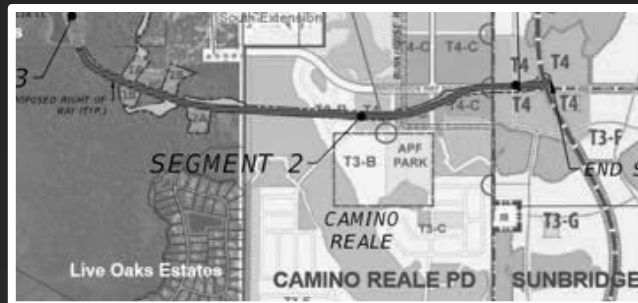
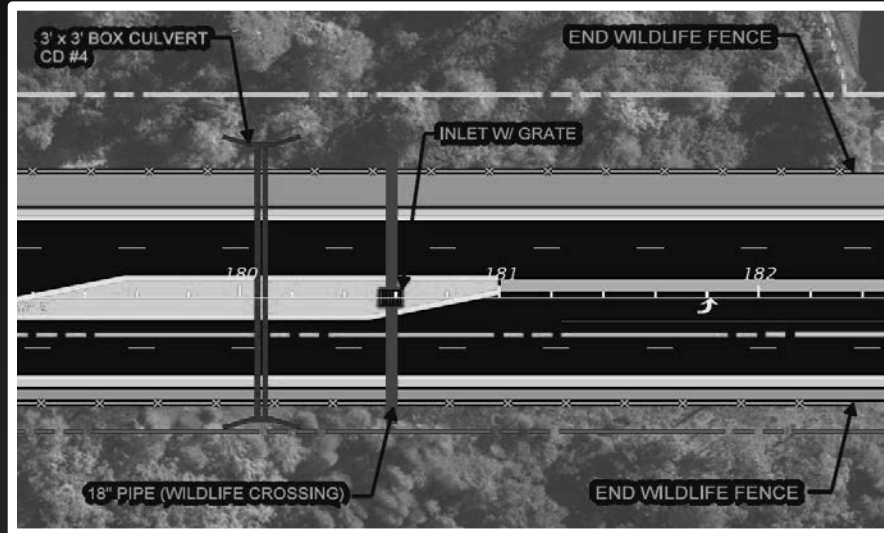


# Recommended Alternative

4 Proposed Stormwater Ponds / 2 Alternate Ponds

4 Wildlife Crossings

2 Cross Culverts



Legend

EAST		BASIN ID
	Geotech Boring (EG Elevation)	
	PROPOSED BASIN LINES	
	EXISTING BASIN LINES	
	DRAINAGE OUTFALL	
	WETLAND LINE	
	WETLAND	
	WETLAND IMPACT	
	FEMA FLOODPLAIN LINE	
	EXISTING MAJOR CONTOUR (5')	
	EXISTING MINOR CONTOUR (1')	
	PARCEL LINE	
	CAMINO BOUNDARY	
	PUBLIC WELL 500' RADIUS	



# Recommended Alternative

## Evaluation Matrix

Alternative	No-Build Alternative	TSM	Alignment #1	Alignment #2	Alignment #3
<b>Right of Way Impacts</b>					
# of Residential Impacts	None	None	0	0	0
Right-of-Way (ac)	None	None	55.04	56.03	56.66
Number of Parcels impacted	None	None	5	5	5
<b>Social, Natural &amp; Physical Impacts</b>					
Social & Neighborhood	None	Low	Low	Low	Low
Archaeological/Historic Sites	None	None	None	None	None
Threatened /Endangered Species	None	None	None	None	None
Area of Wetlands (ac)	None	None	8.76	11.65	10.51
Area of Floodplain (ac)	None	None	13.73	14.38	15.34
Potential Contamination Sites	None	Yes	Yes	Yes	Yes
Meets County LOS Standards	No	N/A	Yes	Yes	Yes
<b>Estimated Present Day Costs</b>					
Design (15% of Construction)	No Cost	None	\$3,186,705	\$3,186,705	\$3,186,705
Right-of-Way Acquisition	No Cost	None	\$2,066,387	\$2,212,293	\$2,165,991
Roadway Construction	No Cost	None	\$21,244,700	\$21,244,700	\$21,244,700
CEI (15% of Construction)	No Cost	None	\$3,186,705	\$3,186,705	\$3,186,705
Total	No Cost	None	\$29,684,497	\$29,830,403	\$29,784,101



# Presentation Outline

- Overview
- Existing Conditions
- Recommended Alternative
- **Public Engagement**
- Summary and Next Steps





# Public Engagement

## Public Engagement

- Survey
- Call/Email
- Attend Hearings



Newsletters



Public  
Community  
Meeting



LPA Hearing



BCC Hearing

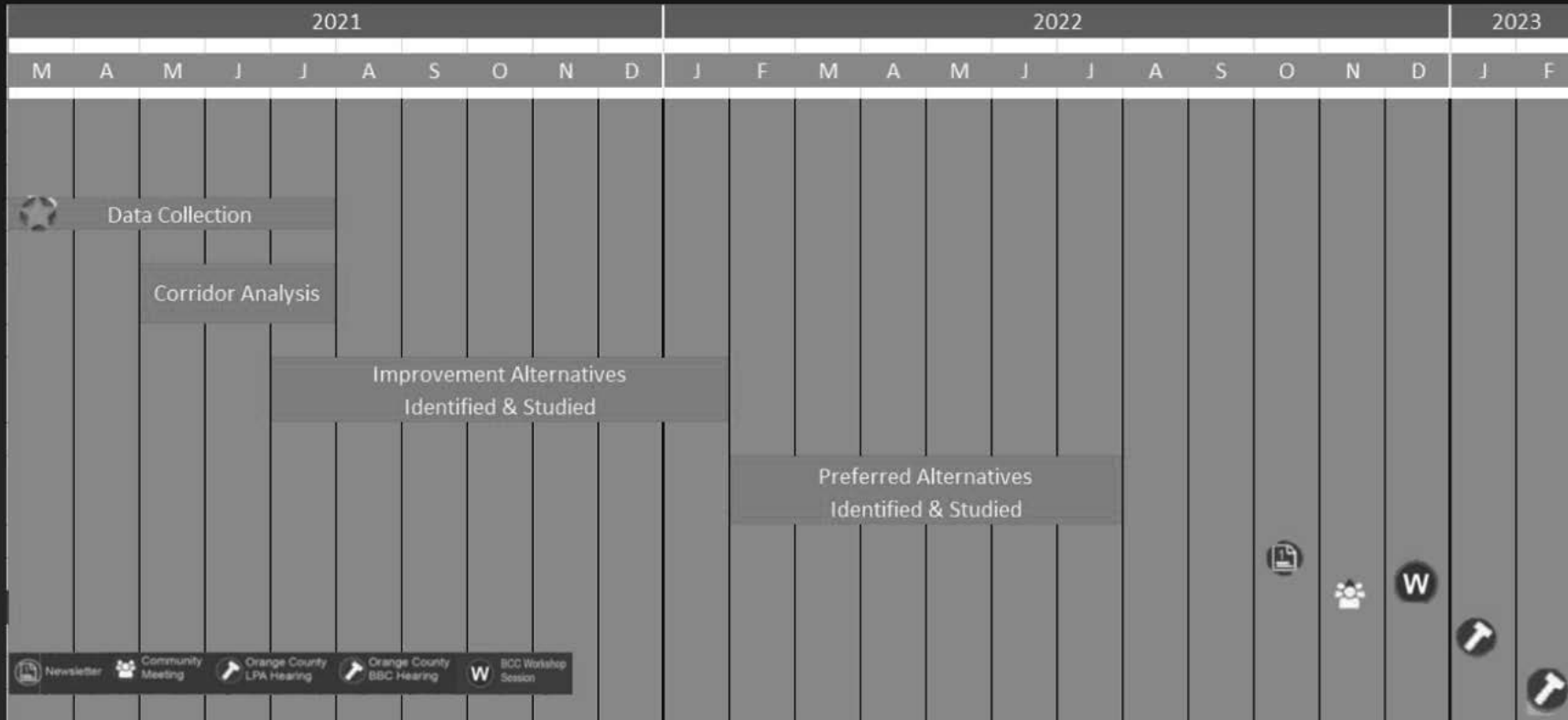




# Public Engagement

## Schedule

- Public Meeting held November 2, 2022
- LPA Hearing January 19, 2023
- BCC Hearing February 7, 2023





# Presentation Outline

- Overview
- Existing Conditions
- Recommended Alternative
- Public Engagement
- **Summary and Next Steps**







## Summary

- **Innovation Way is a developing regional collector roadway ultimately intended to connect SR 417 to the Sunbridge Parkway**
- **The western segments of the roadway are in the City of Orlando, the eastern segments are being established by Orange County**
- **The PDS considered existing and future conditions and engineering criteria to anticipate future conditions and recommend a preferred alternative**
- **Innovation Way is being designed as a 4-lane urban roadway and will carry a significant volume of traffic in the future**
- **The County has engaged the public through a variety of means**



## Next Steps

- **December 13, 2022, BCC Work Session receive final comments and finalize technical study**
- **LPA Public Hearing tentatively scheduled on January 19, 2023**
- **BCC Public Hearing tentatively scheduled on February 7, 2023**
- **No current indication from private partner project will advance into design and construction**

*Transportation Planning Division*

**Innovation Way South Preliminary Design  
Study (PDS)**

**Orange County  
Board of County Commissioners  
Work Session  
December 13, 2022**