

Public Information Meeting

Orange Camp Road

Dr. Martin Luther King Jr. Beltway to I-4

Presented by:
Volusia County
August 2, 2018



Project Goals

- ✓ To improve the operations and safety for Orange Camp Road (OCR) and the Dr. Martin Luther King, Jr. (MLK) Beltway

- ✓ Gateway Opportunity

- ✓ Complete Streets
 - Pedestrian and bicycle accommodations
 - Public transportation

- ✓ Improvements accommodates future widening on MLK Beltway

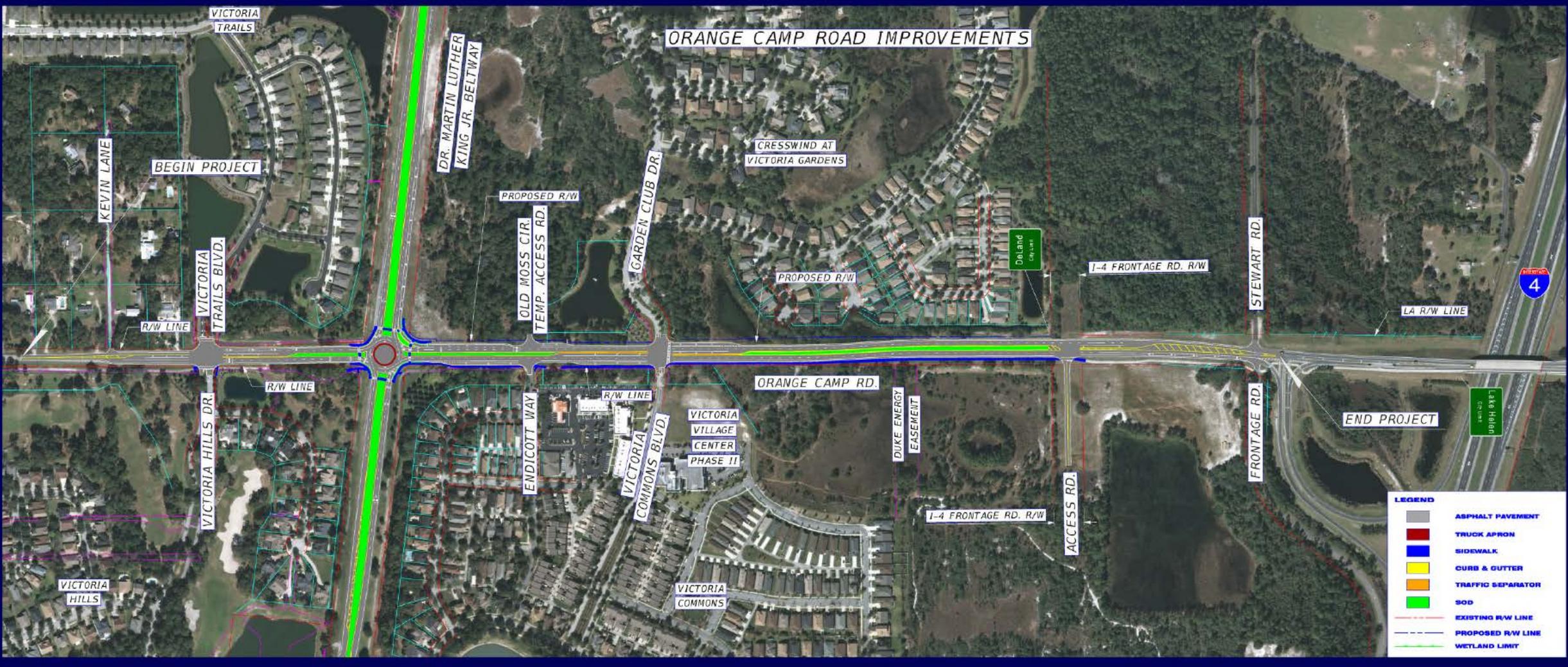


Existing Conditions

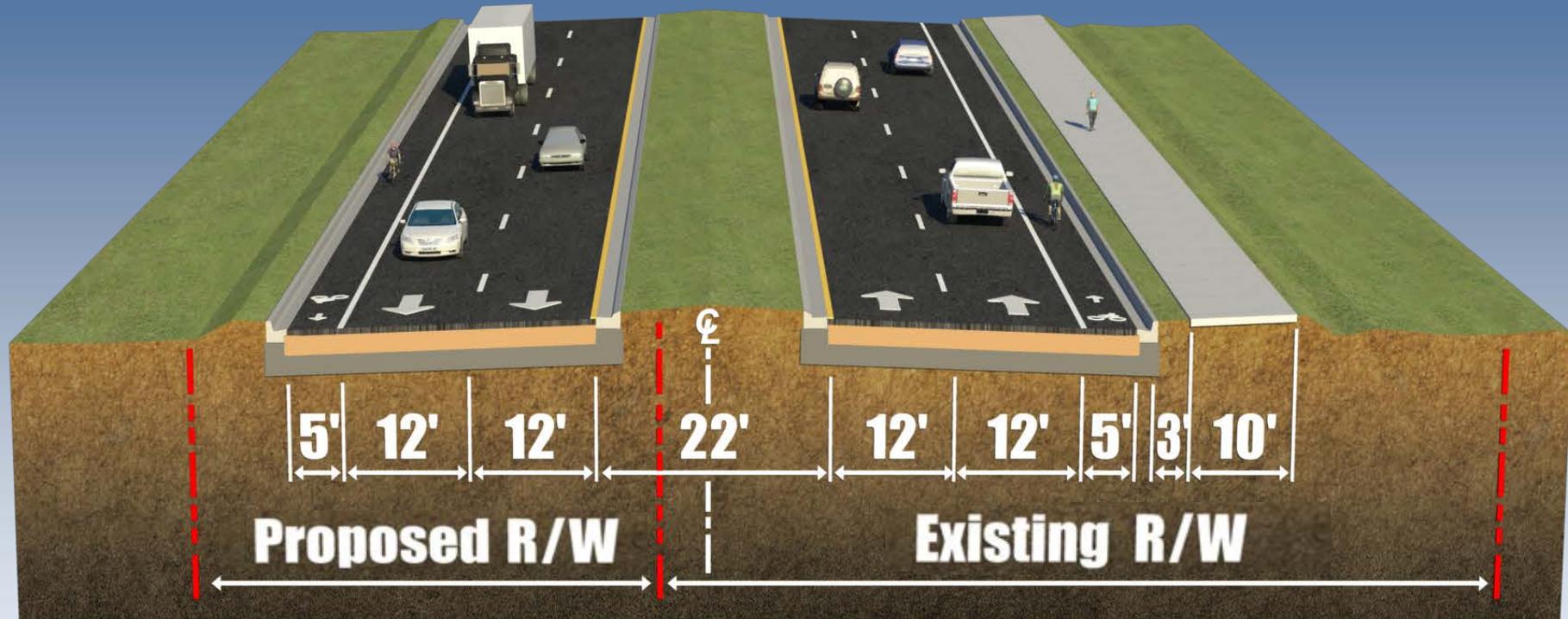
- Orange Camp Road (OCR)
 - Posted Speed = 50 MPH
 - Minor Arterial Urban Roadway
 - 2-Lane with un-paved shoulders
- Dr. Martin Luther King Jr. (MLK) Beltway
 - Formerly known as West Volusia Beltway
 - Posted Speed = 55 MPH
 - Minor Arterial Urban Roadway
 - 2-Lane with paved shoulders
- Bicycle/Pedestrian Facilities
 - Existing 10' concrete multi-use trail from West of Blue Lake to East of MLK Beltway on south side of OCR



Orange Camp Road Improvements

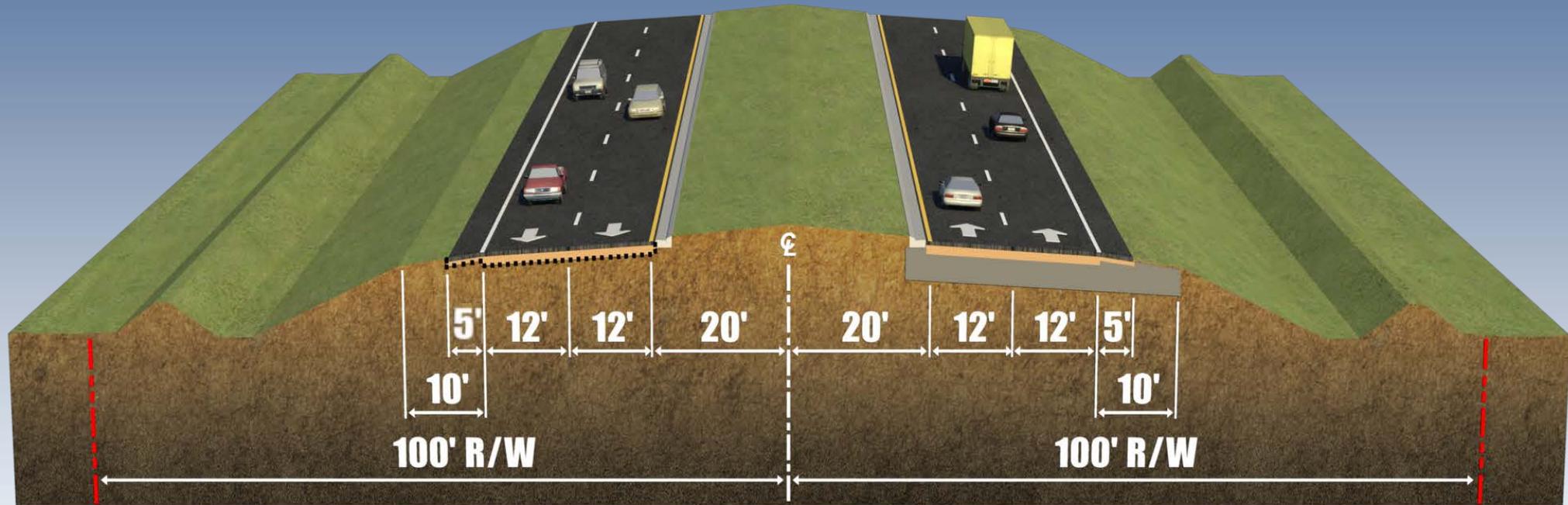


Orange Camp Road – Typical Section



- Proposed Improvements
 - Curb & Gutter with Design Speed of 45 MPH
 - Two 12' travel lanes plus a 5' bike lane (EB & WB)
 - 10' concrete multi-use trail on south side

Dr. Martin Luther King, Jr. (MLK) Beltway - Typical Section



- Proposed Improvements
 - Two 12' travel lanes with 5' paved shoulder NB
 - 40' Raised Median with potential landscaping
 - Type E Curb & Gutter

Special Considerations

- **Pedestrian Improvements**
 - Currently only 2-legs of intersection have marked crosswalks
 - Leg crossing OCR is designated as a School Crossing
 - Provide temporary crossings in adjacent quadrants during construction
 - Repair 10' concrete multi-use trail as needed throughout the project
- **Mid-block crossing at Victoria Commons**
- **Temporary Traffic Control Phasing**
 - Minimize impacts to traffic:
 - Vehicular, Public, Bicycle & Pedestrians
 - Temporary Drainage



Environmental Considerations

- Wetlands
 - Multiple existing wetlands/mitigation areas adjacent to both north and south sides of OCR as well as west side of MLK Beltway
 - Multiple efforts to avoid/minimize through design include:
 - NO Southbound lane widening on MLK Beltway adjacent to wetland conservation area
 - Widening to south of OCR to avoid wetland impacts
- No impacts to existing conservation easements



Roundabout Benefits

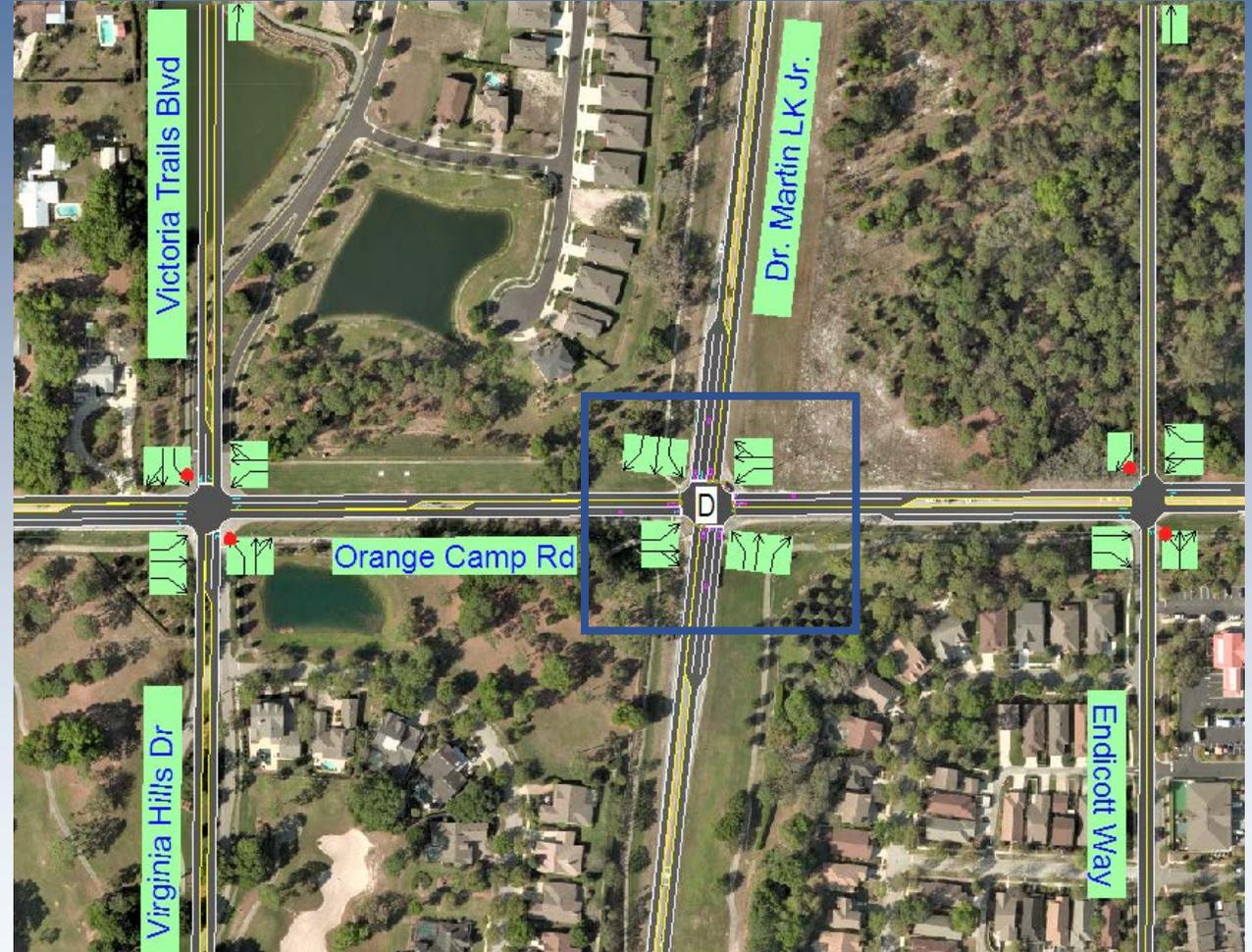
- **Safety**
 - Fewer crashes (90% fewer fatalities and 75% fewer injuries)
 - Intersection works during power outage
- **Time**
 - Reduction in amount of delay through intersection
- **Environment**
 - Reduction in pollution from cars waiting at signal
 - Less pavement area
- **Aesthetics**
 - Provides area for landscaping
- **Cost**
 - No yearly maintenance cost



Existing Traffic Conditions

AM Peak: LOS E, Delay = 60.5 Sec

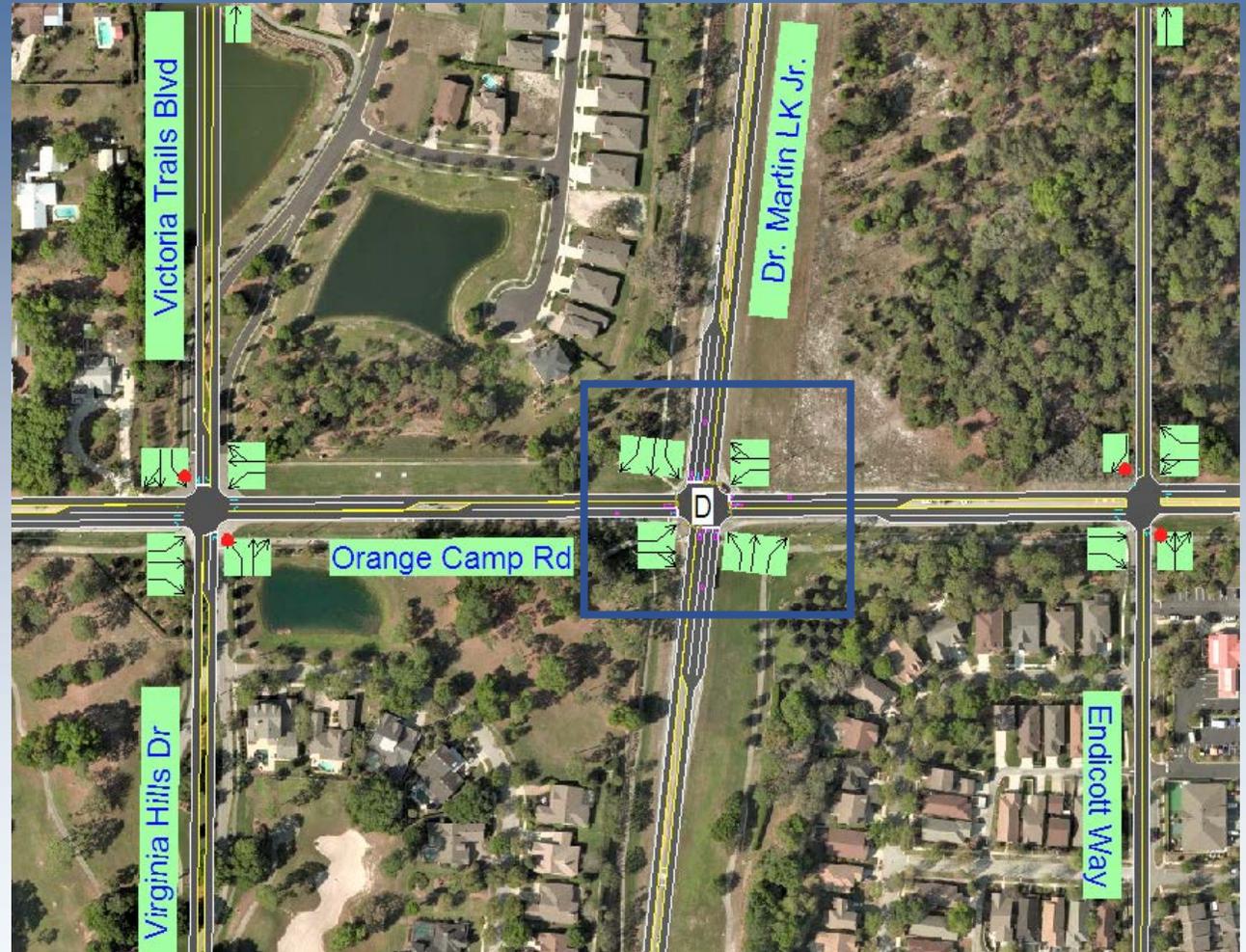
PM Peak: LOS E, Delay = 58.9 Sec



Proposed Signal Option

AM Peak: LOS D, Delay = 38.9 Sec

PM Peak: LOS C, Delay = 34.9 Sec



Roundabout Screening

- Intended to quickly assess project specific conditions to determine the viability of the roundabout alternative

ROUNABOUT SCREENING			
Existing Project Traffic Control			
Signalized			
Existing Project Classification			
Design			
Screening Criteria	Yes	No	If Yes, give brief description
Does the intersection have physical or geometric constraints that would limit visibility or complicate construction?		√	N/A
Does the Major roadway AADT exceed 90% of total intersection AADT		√	N/A
Does the intersection have Pedestrians with special needs that would have difficulty crossing the road?	√		School Crossing
Is the intersection located within a coordinated signal network		√	N/A
Is there Downstream traffic control or a condition that would cause queue back up into the roundabout		√	N/A
Are there Right-of-way issues? Would the installation of a roundabout create impacts to historical sites and environmentally sensitive sites? Would the relocation of residences or businesses be required?		√	N/A



Proposed Roundabout Option

Intersection Results

- AM
 - LOS C
 - Delay 20.0 Sec.
- PM
 - LOS C
 - Delay 21.6 Sec.

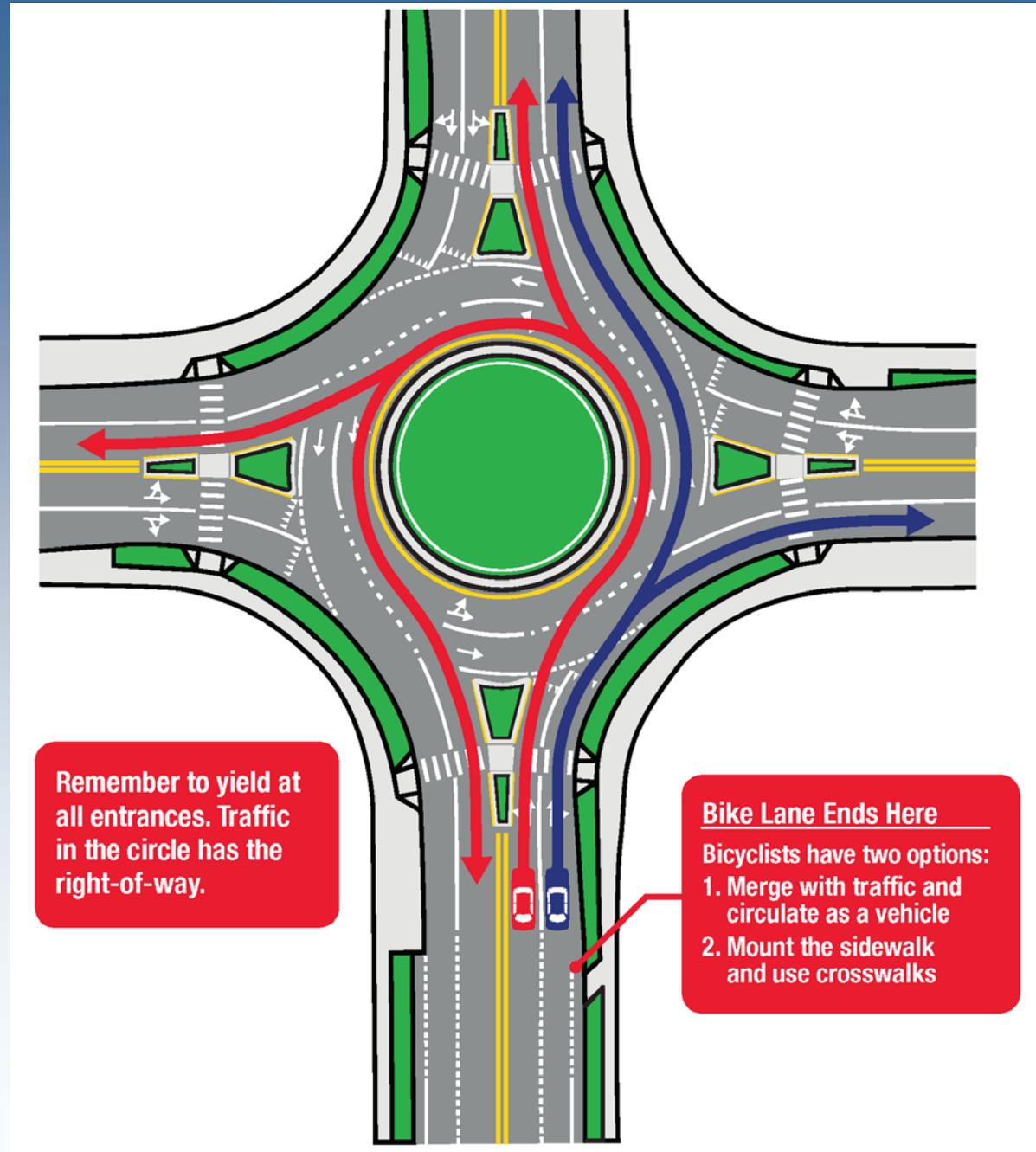
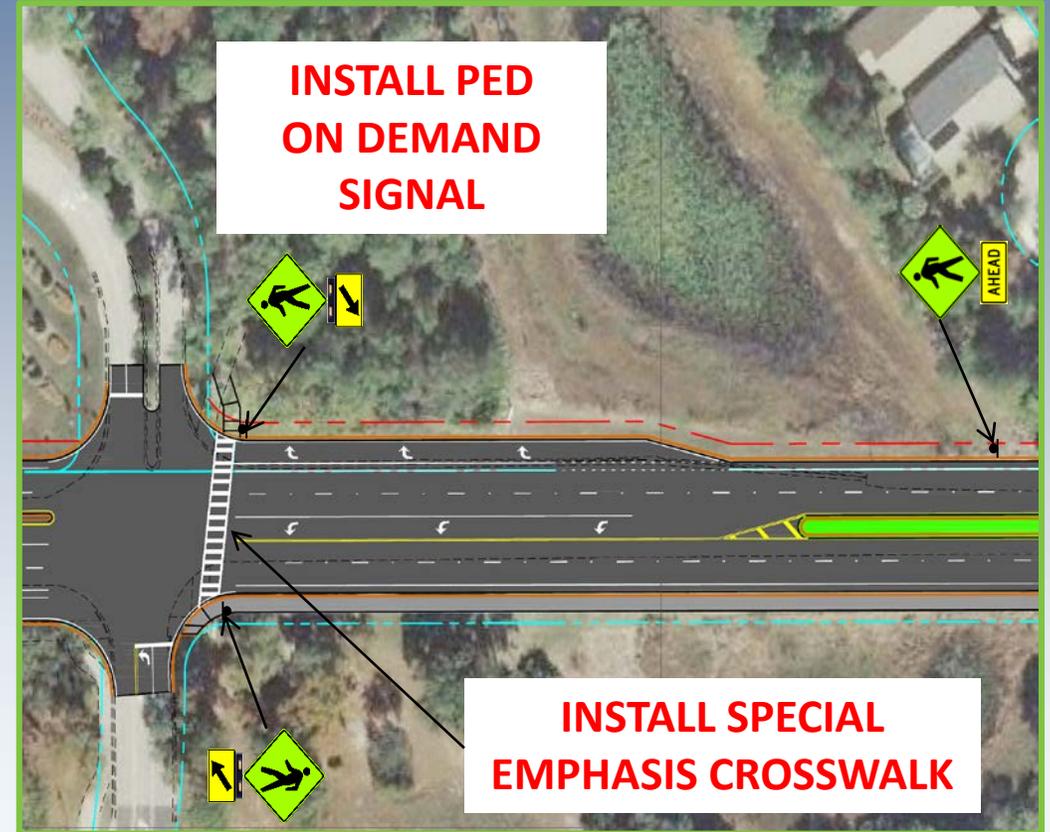


Image Provided From FDOT Flyer for "Alert Today, Alive Tomorrow – A Guide to Modern Roundabouts"

Victoria Garden Intersection

- Signal warrant analysis is being completed
- Pedestrian crossing will be provided
 - On-demand Pedestrian Signal (capable of future expansion to a full traffic signal)
 - Pedestrians, Bicyclists



Preliminary Cost Estimate

- **Construction Cost – estimated at \$11,351,488**
 - Utilize existing pavement
 - Sidewalk/trail construction and repair
 - Proposed drainage
 - Contingency



Orange Camp Road Project Schedule

Year	2017	2018	2019	2020	2021	2022
Design		■				
Permitting		■				
Construction			■			

What's Next

- **Tonight**
 - **Submit comments**
- **Future**
 - **Review and evaluate comment cards**
 - **Finalize intersection option**



Public Information Meeting

ORANGE CAMP ROAD

Thank you!

