



Central Avenue (SR 19) Corridor Study

FM Number: 439756-1

Public Kick-off Meeting April 25, 2017

Authority



This public meeting is being held in accordance with Chapter 120, Florida Statutes.

This project is being developed in accordance with the Civil Rights Acts of 1964 and 1968. Under Title VI and VIII of the Civil Rights Acts, any person(s) or beneficiary who believes they have been subjected to discrimination because of race, color, religion, sex, age, national origin, disability, or familial status may file a written complaint with:

FDOT's Equal Opportunity Office 605 Suwannee Street, MS 65 Tallahassee, Florida 32399-0450 Telephone: (850) 414-4747



Meeting Agenda

- SR 19 - CORRIDOR STUDY

- 1. Introductions
- 2. Project Overview
- 3. Existing Conditions
- 4. Future Conditions
- 5. Planned Improvements
- 6. Purpose and Need
- 7. Toolbox of Improvements
- 8. Next Steps









Project Overview



The purpose of this project is to provide an enhanced multimodal transportation system which promotes the creation of a healthier community; incorporates complete streets design components; improves access to employment, retail, and institutional uses along the corridor; accommodates for future growth and economic development; and provides safe and convenient access to users of all ages and physical abilities.









Study Area

- SR 19 from CR 450-A to Bulldog Way/ Olde Mill Stream RV Resort
 - 2.02 miles
 - Urban and rural cross sections
 - Primary north-south route
 between US 441 and SR 40
- Also includes Umatilla Blvd.
 - 0.56 miles
 - From W. Ocala St. to south of Lake St.







Project Visioning Team

- PVT Responsibilities
 - Four (4) meetings during key project milestones
 - Identify stakeholders that need to be engaged
 - Provide input on the planning and concept development process
 - Recommend corridor alternatives to be advanced for further study
 - Share local knowledge and history

























Project Schedule







Planning Phase — Define the Problem Planning Phase – Define the Purpose and Need

Planning Phase — Define and Select Alternative(s)

October 2016 – January 2017

February 2017 – April 2017

May 2017 – October 2017



Planning Phase – Define the Problem

- SR 19 - corridor study

- Public Involvement Plan
- Project Visioning Team Meeting #1
- Existing Conditions Report
 - Land Use
 - Demographics
 - Traffic Operations
 - Safety
 - Bike/Ped Network
 - Transit
 - Environmental Screening
- Existing Conditions Report available at: http://www.cflroads.com/project/439756-1/SR 19 Umatilla





Traffic Operations



 95th Percentile calculated queue lengths on SR 19 at Bulldog Ln/W Ocala St



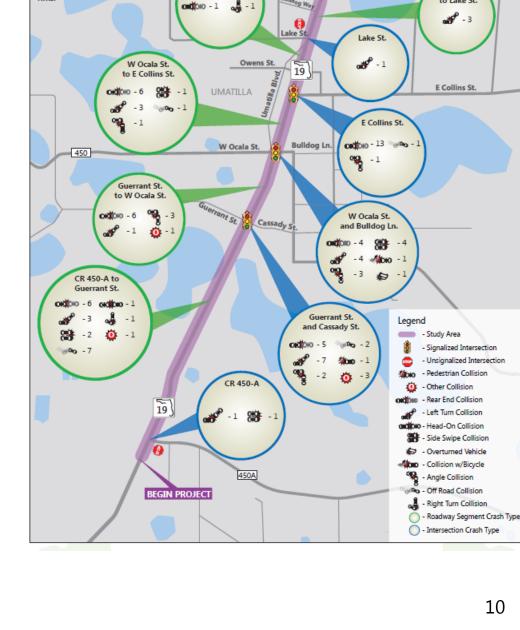




Safety

- Five years of crash data analyzed (2012-2016)
 - 124 total crashes
 - High Crash Intersections:
 - SR 19 at Guerrant St/Cassady St
 - SR 19 at E Collins St.
 - All segments have average crash rates below statewide average





to Lake St.

END PROJECT

E Collins St

to Lake St.



Sidewalk Gaps



Legend



- Signalized Intersection



- Bike Lane



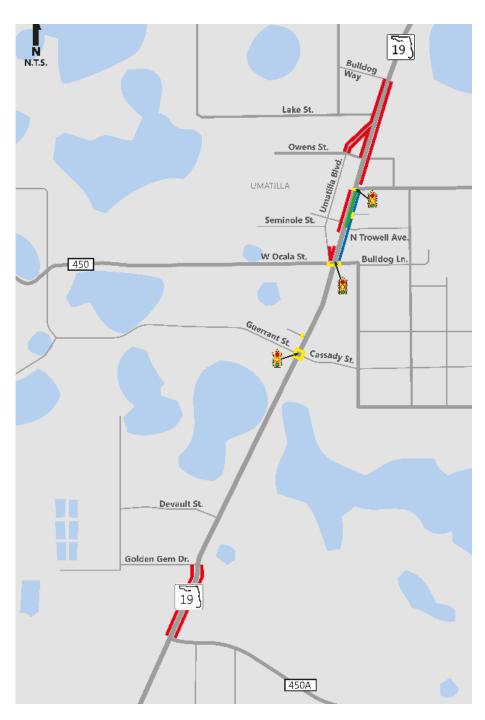
- Sidewalk Gaps



- Marked Crosswalks



- Multi-Use Path



Transit



- One route in Study Area which runs along SR 19
 - Route 4: Altoona to Zellwood
- Minimal amenities at most stops
- Accessibility challenges in some locations

Route	Span of Service	Service Frequency
4	Monday-Friday 7:15 AM to 7:15 PM	120 minutes







Healthy Community Design



 Identifies physical improvements and policies that can result in better health outcomes for the communities served by SR 19



- Integrates public health, transportation, and community planning to recognize how the built environment affects the physical, social, and mental health of communities
- Transportation is an important part of the built environment and significantly influences physical activity and well-being, safety, and the ability of community members to access destinations that are essential to a healthy lifestyle



Community Health Health Indicators





Indicator	Umatilla	Lake County	Florida
Asthma Hospitalizations (Rate per 10,000 Population)	14.11	12.88	15.30
Asthma Emergency Room Visits (Rate per 10,000 Population)	24.34	33.42	48.11
Heart Attack Hospitalizations (Rate per 10,000 Population)	22.40	32.18	21.62
Heart Disease related Deaths (Rate per 100,000 Population)	124.7	141.5	155.0
Stroke related Deaths (Rate per 100,000 Population)	35.7	31.7	31.6
Diabetes related Deaths (Rate per 100,000 Population)	25.1	19.4	20.0



Community Health Access





Percent population within a tenminute walk (1/2 mile) of a(n):	Umatilla	Lake County	Florida
Healthy food source	6.00%	13.21%	31.81%
Fast food restaurant	5.99%	14.45%	33.54%
Park	34.73%	31.39%	44.83%
Off-street trail system	9.93%	4.45%	10.64%

Sources: Florida Department of Health, Community Environmental Health Profile Reports, 5-Year Crude Rates



Planning Phase – Define the Purpose and Need



Project Visioning Team Meeting #2

- Highlight existing and future conditions
- Identify potential alternatives to consider

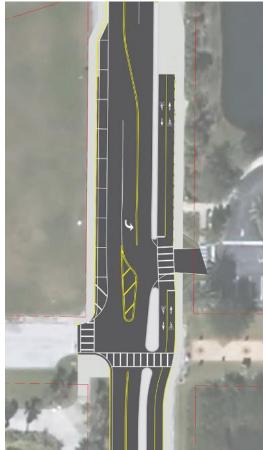
Public Kick-Off Workshop #1 (Today)

- Highlight existing and future conditions
- Identify potential alternatives to consider
- Samples of similar projects or planning techniques

Deliverables:

- Future Conditions Summary,
- Purpose and Need Statement, Evaluation Criteria, and Health Assessment Memorandum





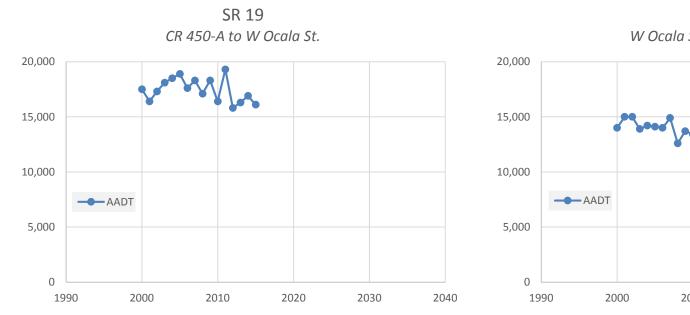
Example Cycle Track developed for another project



Future Conditions



Historical traffic data shows no future growth in traffic volumes





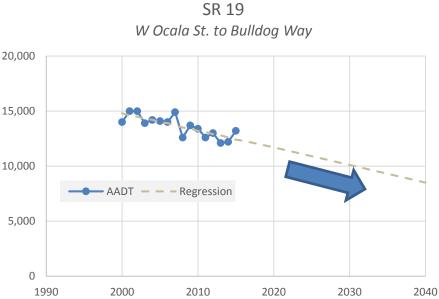


Future Conditions



Historical traffic data shows no future growth in traffic volumes

SR 19 CR 450-A to W Ocala St. 20,000 20,000 15,000 15,000 10,000 10,000 AADT -Regression 5,000 5,000 1990 2000 2010 2020 2030 2040 1990 2000





Future Conditions



- Historical traffic data shows no future growth in traffic volumes
- Assumed 0.5% growth for conservative estimate

SR 19
CR 450-A to W Ocala St.

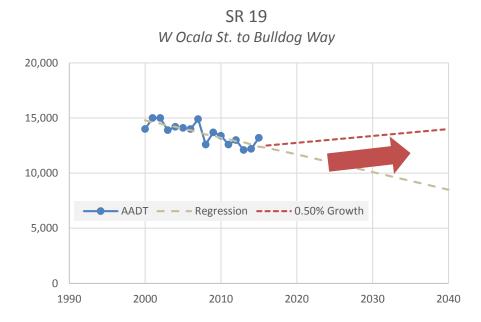
20,000

15,000

AADT — Regression — 0.50% Growth

5,000

1990 2000 2010 2020 2030 2040

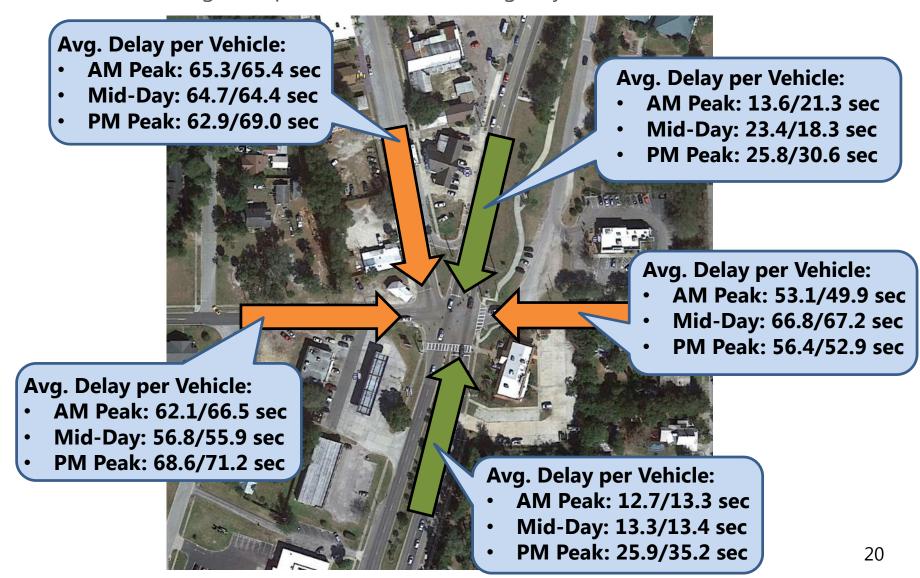




Traffic Operations

XX/XX: Existing/Year 2040

- SR 19 at Bulldog Ln/W Ocala St
 - No change in operations from existing to year 2040 conditions





- Data from Florida Hospital Waterman 2016 Community Health Needs Assessment examined
- 2016 CHNA identified the most pressing and feasible issues to tackle and included:
 - Asthma
 - Diabetes
 - Heart Disease
 - Poor Access to Food/Nutrition
 - Obesity
- 2016 CHNA identified hypertension as a top 5 secondary diagnosis

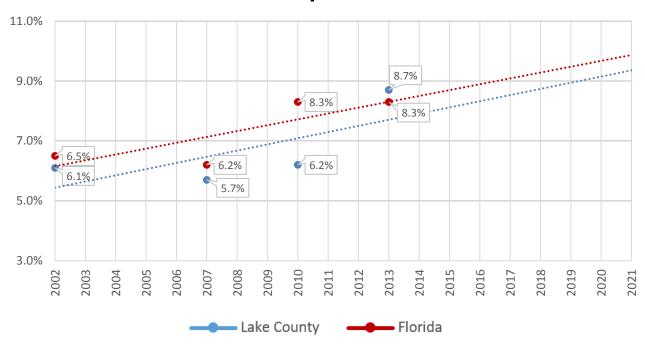








Percent of Adult Population with Asthma

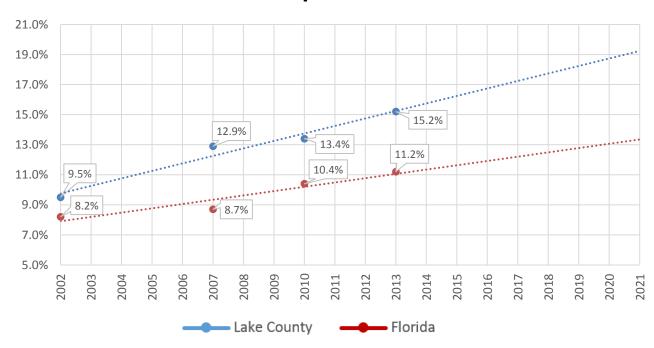








Percent of Adult Population with Diabetes

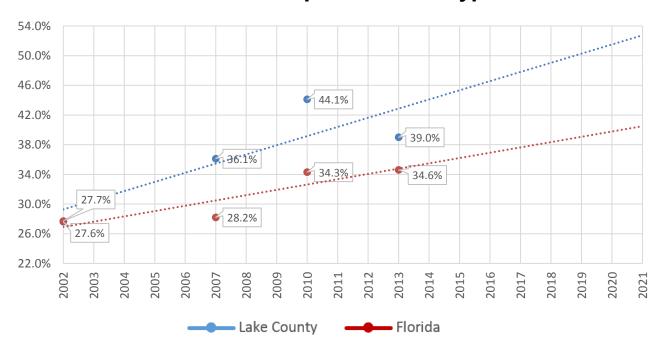




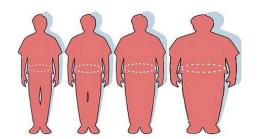




Percent of Adult Population with Hypertension

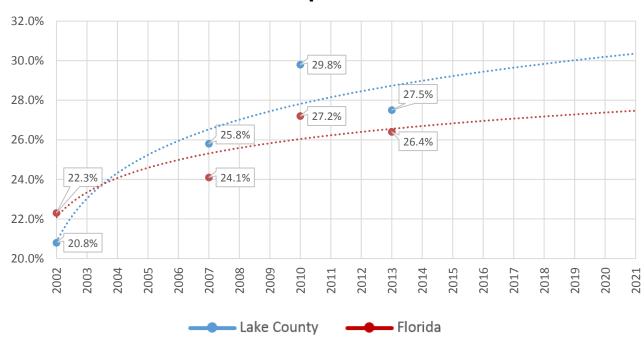




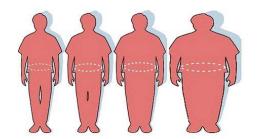




Percent of Adult Population who are Obese

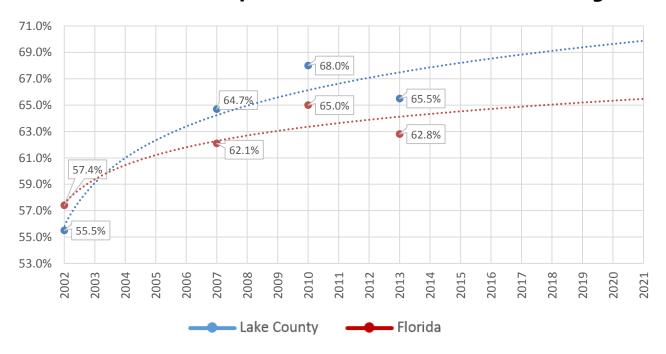








Percent of Adult Population who are Obese or Overweight



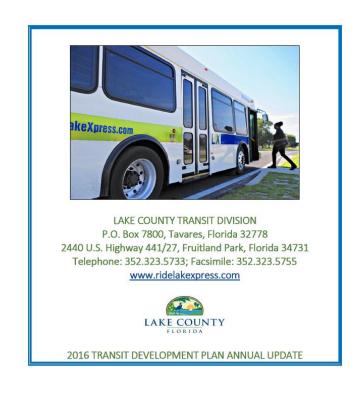


Planned Improvements



- LakeXpress Transit Development Plan
 - Year 2020: Increased frequency on Route 4 (2 hours to 1 hour)

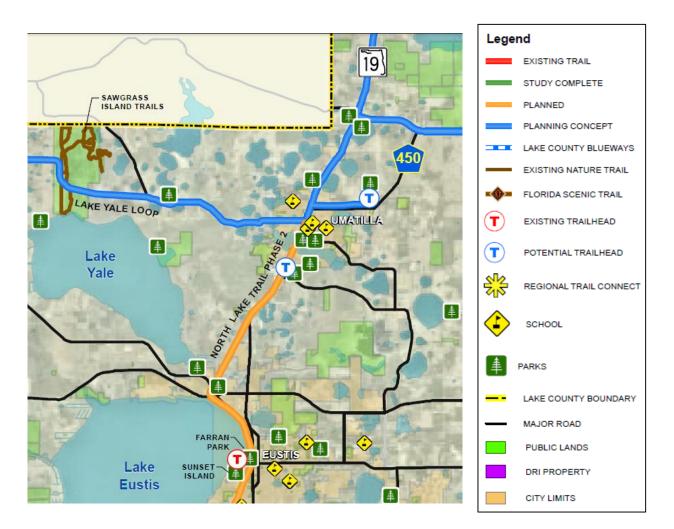






Planned Improvements

- Lake County Trails Master Plan
 - North Lake Trail-Phase 2 along SR 19 (exact alignment TBD)







Identified Needs

An enhanced multimodal system is needed to create a healthy community that provides improved accommodations for walking, bicycling, and using transit along the corridor. Furthermore, there is a need to improve safety and operations along the corridor. These needs are based on the following observations:





Lack of bicycle facilities



Sidewalk gaps



Bus stops with minimal amenities



Documented safety concerns



Driveways and median openings that do not meet current standards



High level of delay for side streets



Trends indicating an increase in chronic diseases amongst the adult population



Toolbox of Improvements



- Complete Streets (Road Diet)
- Bicycle Improvements
- Roundabout
- One-Way Pair Conversion
- Access Management
- Safety-Rear End Crashes
- Safety-Speeding
- Pedestrian Improvements

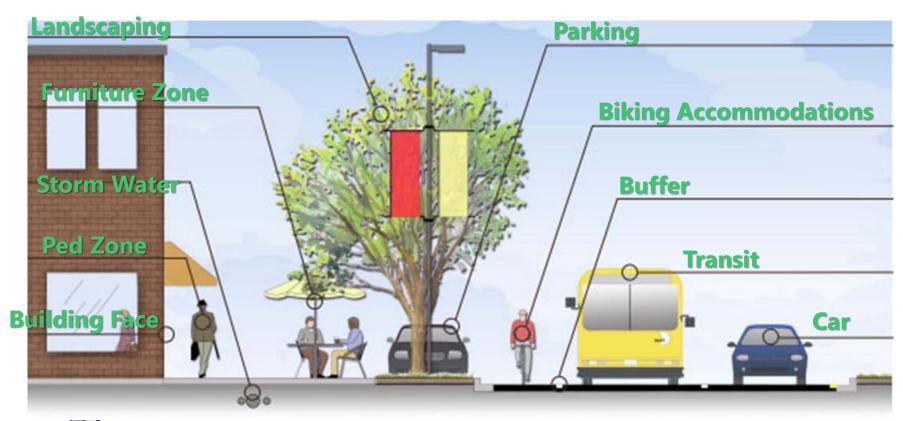








Complete Streets = Accommodations for all users





Road Diet

- SR 19 CORRIDOR STUDY
- Road Diet = A common method to convert street into a "complete street"
 - Reallocates street space to provide separate bike/ped facilities

Rightsizing Edgewater Drive in Orlando, Florida





Case Study with Medians: Tallahassee, FL



- N. Franklin Boulevard
- Completed August 2012

Before



Photo courtesy of: Google Streetview (June 2011)

After



Photo courtesy of: Google Streetview (July 2015)



Bicycle Improvements

Cycle Track



Buffered Bike Lanes



Bike Lanes

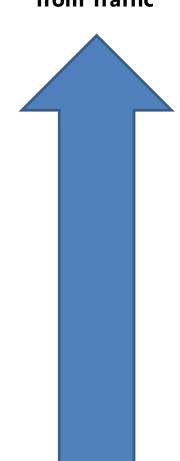


"Sharrow" Markings





Increasing Level of Separation from Traffic





Roundabout

- Vehicles yield on entry
- Reduces delay with continuous movement
- Improves safety (eliminates
 T-Bone crashes) that occur
 at signalized intersections









Photos Courtesy of: Google Streetview and Google Earth

Roundabout Examples-DeLand



SR 44 and Grand Avenue

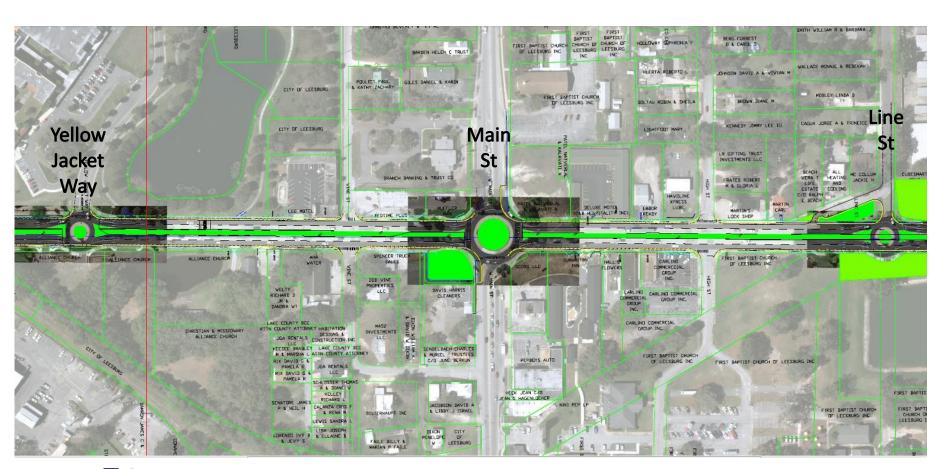




Roundabout Examples-Leesburg



US 27 (Conceptual)





Roundabout Examples-Atlanta

- SR 19 - CORRIDOR STUDY

 Five Legged Intersection Conversion at Emory University

After







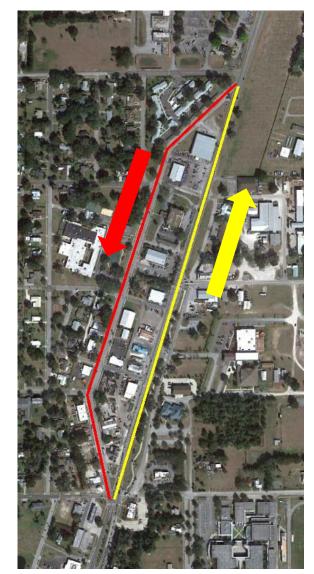
Photos Courtesy of: Google Earth and Google Streetview





One-Way Pair Conversion

- Generally used for constrained facilities that have parallel roads nearby
- May need to consider extension of E. Collins St.







Access Management

- FDOT Standards:
 - Access Class 4
 - 440' between driveways

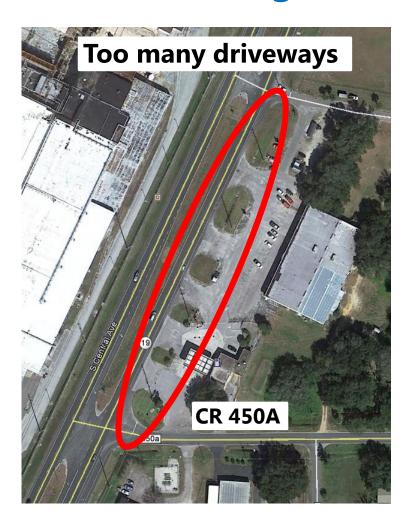
- Access Class 3
 - 440' between driveways
 - 2640' (0.5 miles)
 between full median openings

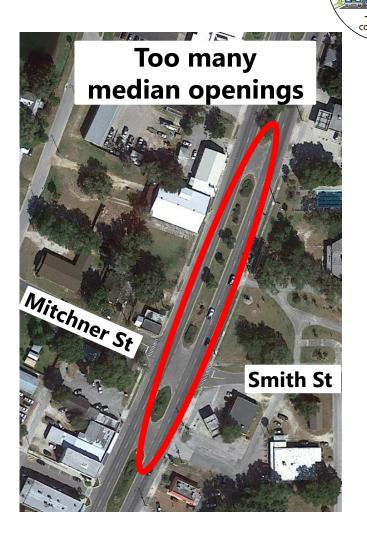
"Driveways should be located and designed to minimize impacts on traffic while providing safe entry and exit from the development served." – FDOT Driveway Information Guide (2008)





Access Management







Safety-Rear End Crashes



 Possible treatments in response to rear end crashes near signalized intersections



Photo courtesy of: ELTEC



RoadTrafficSigns.com



Photo courtesy of: Google Streetview



Safety-Speeding

Colored/textured pavement at crosswalks



Photo courtesy of: FHWA

Landscaped medians/



Brick intersections



Photo courtesy of: FHWA

Speed feedback devices



Photo courtesy of: FHWA



Pedestrian Improvements

 Median refuge islands enable pedestrians to perform a two stage crossing



Photo courtesy of: Google Streetview







Pedestrian Improvements



 Potential to add sidewalk to connect to ball park







Community Input

- Are there any other corridor needs?
- What projects are needed?

















Next Steps



Summarize feedback from this workshop

Respond to written comments and questions



Finalize Purpose and Need Statement

Finalize Future Conditions Summary





Activities Planned for this Meeting



Review Existing Conditions Boards









Review purpose statement and identified needs



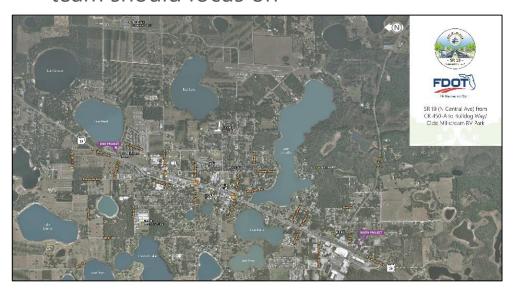




Activities Planned for this Meeting



- Comment on roll plot of corridor
 - Provide comments on areas/issues the project team should focus on



Fill out comment forms

	CommentForm SR 19 Corridor Study FM# 439756-1	
Public Kick-Off Meeting – April 25, 2017	-34.19	
Your comments are important! Please use the space below to express your input about this project.		
Name:	Please complete and place this form in the "Comments" box or mail so that this	
Company:	form is received before May 4, 2017 to:	
City/State/Zip:	Kyle Taniguchi Vanasse Hangen Brustlin, Inc.	
Email:	225 E Robinson Street, Suite 300	



Questions/Comments?



Contact Us!

Judy Pizzo, MSURP

Planning Project Manager

Planning & Environmental Management Office

FDOT District 5

Judy.pizzo@dot.state.fl.us

386-943-5167

Curt Ostrodka, AICP, LEED AP

Director of Community Planning

VHB

costrodka@vhb.com

407-839-4006



Project information will be posted on:

http://www.cflroads.com/project/439756-1/SR_19_Umatilla