



Transportation Systems Management & Operations Advisory Committee AGENDA

April 28, 2017, 8:30 AM



Transportation Systems Management and Operations (TSMO)
Advisory Committee

MEETING NOTICE

DATE: Friday, April 28, 2017
TIME: 8:30 a.m.
LOCATION: MetroPlan Orlando
David L. Grovdahl Board Room
250 South Orange Avenue
Suite 200
Orlando, Florida 32801

AGENDA

Chairman Joedel Zaballero, Presiding

(Wi-Fi network = MpoBoardRoom, password = mpoaccess)

- I. Call to Order – Chairman Joedel Zaballero
- II. Confirmation of Quorum – Ms. Lisa Smith
- III. Agenda Review/Staff Follow-Up – Mr. Eric Hill
- IV. Public Comments on Action Items

Comments from the public will be heard pertaining to items on the agenda for this meeting. People wishing to speak must complete a “Speakers Introduction Card” at the reception desk. Each speaker is limited to two minutes.

V. Action Items

A. Approval of the February 24, 2017 TSMO Meeting Minutes (Tab 1)

Approval is requested of the February 24, 2017 TSMOAC meeting minutes provided at **Tab 1**.

B. ITS Master Plan

Mr. Eric Hill, MetroPlan Orlando staff, is requesting approval of the ITS Master Plan. An attachment is provided at Tab 4.

C. FDOT Amendment to FY 2016/17-2020/21 TIP (Tab 2)

Mr. Keith Caskey, MetroPlan Orlando staff, is requesting the TSMOAC to recommend that the FY 2016/17-2020/21 TIP be amended to advance the construction of a six-laning project on John Young Parkway from FY 2020/21 to FY 2017/18 and to include lighting projects and a railroad crossing project. A letter from FDOT explaining the amendments is provided in **Tab 2**, along with additional information on the lighting projects and railroad crossing assessment procedures. A fact sheet prepared by MetroPlan Orlando staff that provides more information on the projects is also included, as well as the draft resolution to be presented at the May 10th Board meeting.

D. 2040 LRTP Amendments (Tab 3)

Mr. Nick Lepp, MetroPlan Orlando staff, is requesting the approval of amendments to the 2040 LRTP to include several new PD&E studies for Florida's Turnpike Enterprise projects. More information on these projects is provided at **Tab 3**.

E. Appointment of Bylaws Review Task Force

Ms. Virginia Whittington, MetroPlan Orlando staff, is requesting the appointment of a task force to review the TSMOAC bylaws and make updates as necessary.

VI. Presentation and Status Reports

There are no presentations.

VII. Common Presentations/Status Reports (Presentations will be made at the TAC meeting)

A. Presentation on Orange Avenue Corridor Study

Mr. J.P. Weesner, Kittelson & Associates, will give a presentation on the corridor study on Orange Avenue from Hoffner Avenue to Pineloch Avenue.

B. Presentation on Air Quality Status and Reporting Methodology

Mr. Nick Lepp, MetroPlan Orlando staff, will give a presentation on the current status of air quality in the MetroPlan Orlando region and the methodology used to compile air quality data.

VIII. General Information

(Tab 4)

A. FDOT Quarterly Variance Report

The latest FDOT Quarterly Variance Report for the Orlando area is enclosed for information purposes.

B. FDOT Monthly Construction Status Report

The latest FDOT Monthly Construction Status Report for the Orlando area is enclosed for information purposes.

C. reThink Transit Screens Fact Sheet

A copy of reThink's Transit Screen Fact Sheet is enclosed for information purposes.

D. Roundabouts Map

A map showing the location of roundabouts in the MetroPlan Orlando region will be provided at the meeting.

E. MetroPlan Orlando Board Highlights

A copy of the March 8, 2017 Board Meeting Highlights is enclosed for information purposes.

IX. Upcoming Meetings of Interest to TSMOAC Members

A. Next MPO Board Meeting

The next MetroPlan Orlando Board meeting will be held on May 10, 2017, at 9:00 a.m. in the MetroPlan Orlando Board Room, 250 South Orange Avenue, Suite 200, Orlando, FL 32801.

B. Next TSMOAC Meeting

The next TSMO meeting will be held on May 26, 2017, at 8:30 a.m. in the MetroPlan Orlando Board Room, 250 South Orange Avenue, Suite 200, Orlando, FL 32801.

X. Other Business

XI. Public Comments (General)

XII. Adjournment

In accordance with the Americans with Disabilities Act (ADA), if any person with a disability as defined by the ADA needs special accommodations to participate in this proceeding, he or she should contact Ms. Lisa Smith, MetroPlan Orlando, Park Building, 250 S. Orange Avenue, Suite 200, Orlando, Florida, 32801 or by telephone at (407) 481-5672 x307 at least three business days prior to the event.

Persons who require translation services, which are provided at no cost, should contact MetroPlan Orlando at (407) 481-5672 x307 or by email at lsmith@metroplanorlando.org at least three business days prior to the event.

As required by Section 286.0105, Florida Statutes, MetroPlan Orlando hereby notifies all interested parties that if a person decides to appeal any decision made by MetroPlan Orlando with respect to any matter considered at such meeting or hearing, he or she may need to ensure that a verbatim record is made to include the testimony and evidence upon which the appeal is to be based.

TAB 1





**Transportation Systems Management and Operations (TSMO)
Advisory Committee**

MEETING MINUTES

DATE: Friday, February 24, 2017

TIME: 8:30 a.m.

LOCATION: MetroPlan Orlando
David L. Grovdahl Board Room
250 South Orange Avenue
Suite 200
Orlando, Florida 32801

Chairman Joedel Zaballero, Presiding

Voting Members Present:

Mr. Brett Blackadar, Altamonte Springs
Mr. Benton Bonney, City of Orlando
Mr. Kelly Brock, City of Casselberry
Mr. Michael Cash, City of Sanford
Ms. Krystal Clem for Mr. John Omana, City of Lake Mary
Mr. Noel Cooper, City of Maitland
Mr. Jay Davoll, City of Apopka
Mr. Hazem El-Assar, Orange County
Mr. Kevin Felblinger, City of St. Cloud
Mr. Brian Fields, City of Winter Springs
Mr. Brian Homayouni, Central Florida Expressway Authority
Mr. Doug Jamison, LYNX
Mr. Frank Consoli, Seminole County
Mr. Steve Krug, City of Ocoee
Mr. Butch Margraf, City of Winter Park

Mr. Robert McKinley, Town of Windermere
Ms. Mary Moskowitz, Osceola County
Mr. Nabil Muhaisen, City of Kissimmee
Ms. Lee Pulham, Reedy Creek Improvement District
Mr. Brian Sanders, Orange County
Mr. Ramon Senorans, Kissimmee Gateway Airport
Mr. Brad Friel, GOAA
Mr. Shad Smith, City of Longwood
Mr. Charlie Wetzel, Seminole County
Ms. Joedel Zaballero, Osceola County

Voting Members Absent:

Ms. Susan Hutson, UCF
Jean Jreij, Seminole County
Mr. John Omana, City of Lake Mary

Non-Voting Members/Advisors Present:

Councilman Lee Chotas, City of Edgewood
Councilman Robert McKinley, Town of Windermere

Non-Voting Members/Advisors Absent:

Ms. Heather Garcia, FDOT
Mr. Eric Gordin, Florida Turnpike Enterprise
Mr. Glen Hammer, Osceola County CTST
Sgt. Smith, Seminole County CTST
Vacant, Orange County CTST

Others in Attendance:

Mr. Jamil Gutierrez, FDOT
Ms. Carol Scott, FTE
Mr. Gary Huttman, MetroPlan Orlando
Mr. Eric Hill, MetroPlan Orlando
Mr. Keith Caskey, MetroPlan Orlando
Ms. Lisa Smith, MetroPlan Orlando
Ms. Alexandra Quintero, MetroPlan Orlando
Ms. Cathy Goldfarb, MetroPlan Orlando

I. Call to Order

Chairman Joedel Zaballero called the meeting to order at 8:30 a.m. and welcomed everyone. She asked that TSMO members introduce themselves.

II. Confirmation of Quorum

Ms. Lisa Smith confirmed the presence of a quorum.

III. Agenda Review/Staff Follow-Up

Mr. Eric Hill, Director of Transportation System Management and Operations, reported that MetroPlan Orlando is seeking nominations for the Clean Air Awards. Mr. Hill stated that the Federal Highway Administration is looking to conduct a workshop in the Orlando area on the topic of using archived operations data sometime in March as a part of the TSMO consortium for District 5. Mr. Hill announced that MetroPlan Orlando was not awarded the Federal Highway Administration grant for the Advanced Transportation and Congestion Management Technologies Deployment Program (ATCMTD); however, explained that it is a recurring grant, and the conversation has already begun on putting together another application for this year. He stated that the ITS Master Plan is on schedule to be presented to the MetroPlan Orlando Board at its May meeting. He expressed his desire to allow the TSMOAC the opportunity to see the presentation in its entirety prior to it going to the other Committees and MPO Board. Mr. Hill said that he feels that there will not be enough time at the April meeting for a full presentation and to allow proper time for feedback from Committee members. He proposed having a special meeting of the TSMOAC only in March. Consensus of the Committee members was to hold a TSMOAC only meeting in March to view staff's presentation on the ITS Master Plan. Mr. Hill stated that staff will review the calendar for dates in an effort not to conflict with upcoming spring break schedules. Mr. Hill announced that Jamil Gutierrez with FDOT District 5 has resigned his position effective March 9th. Mr. Hill thanked him for his service to MetroPlan Orlando, and wished him well in his future endeavors.

IV. Public Comments on Action Items

None

V. Action Items

A. Approval of the January 27, 2016 TSMO Meeting Minutes

Approval was requested of the January 27, 2017, TSMO meeting minutes which were provided. Ms. Moskowitz pointed out that her name appeared twice as being present in the January meeting minutes. The correction was noted by staff.

MOTION: Mr. Davoll moved approval of the January 27, 2017 TSMO meeting minutes, as amended. Mr. Consoli seconded the motion, which passed unanimously.

VI. Presentation and Status Reports

A. Presentation on Autonomous Vehicles

Messrs. Santanu Roy and Ben Pierce, HDR, gave a presentation on Autonomous Vehicles. Their presentation provided a definition of connected vehicles versus autonomous vehicles, current technology, state statutes and regulations, auto industry perspectives and activities at the state and national level, and emerging trends.

B. Automated Vehicle Proving Ground – What It Means for Central Florida

Mr. Charles Ramdatt, City of Orlando staff, gave a presentation that provided an overview of how the Central Florida Automated Vehicle Partnership was formed; how the “Smart City” designation was achieved. He provided insight into the background and history of transportation and innovation in Central Florida, and acknowledged the entities that makeup the Central Florida Automated Vehicle Partnership. He explained that their areas of focus include four modes of travel and the interaction of those modes, safety and full range automation, and the difference between autonomous versus automated vehicles. He touched upon the responsibilities of each partner. He stated that the anticipated benefits for Central Florida would be US DOT Designation/Certification agreement & funding opportunities; coordinated research opportunities; safer and more livable communities; and independent pursuit of other opportunities. Mr. Ramdatt explained that the project received its unofficial designation in mid-January 2017 and that the initial team meeting was held in early February of 2017 with the US DOT convening of 10 winning teams sometime around February 27 & 28, 2017. They are currently in the phase of sharing of details and opportunities with local governments & other local interest groups.

Mr. Ramdatt discussed the next steps which include the development of Partnership Memorandum of Understanding; developing a process for engaging auto-makers; OEMs; and the Local Technology Community; dealing with the full range of procurement issues; harmonizing among partners; advocating for local, state and federal law/rule changes; facilitating un-invited/un-solicited suggestions for innovation; developing protocols for media engagement and releasing of information; and spring-boarding to other innovative ideas that can improve access, mobility and quality of life in Greater Orlando. He entertained questions and comments from Committee members.

VII. Common Presentations/Status Reports (Presentations will be made at the TAC meeting)

A. Presentation on Florida Transportation Plan & Complete Streets Policy Implementation

Mr. David Cooke, FDOT, presented an update on the implementation of the Florida Transportation Plan and Complete Streets policy.

B. Presentation on Roundabouts in the MetroPlan Orlando Region

Mr. Mr. Chris Cairns, FDOT, gave a presentation on roundabouts in the MetroPlan Orlando region.

C. Presentation on Bicycle & Pedestrian Crash Analysis

Mr. Mighk Wilson, MetroPlan Orlando staff, gave a presentation on the analysis of bicycle and pedestrian crash statistics.

VIII. General Information

A. FDOT Monthly Construction Status Report

The latest FDOT Monthly Construction Status Report for the Orlando area was provided.

B. 2017 Preview/Approval Schedule for TIP & Prioritized Project List

The 2017 preview and approval schedule for the FY 2017/18-2021/22 TIP and FY 2022/23-2039/40 Prioritized Project List was provided.

C. MetroPlan Orlando Committee Highlights

A copy of the February 8, 2017 Committee Meeting Highlights was provided.

IX. Upcoming Meetings of Interest to TSMO Members

A. March Committee Meeting

The next MetroPlan Orlando Committee meeting will be held on March 8, 2017 at 9 a.m. at the Second Harvest Food Bank, 411 Mercy Drive, Orlando, FL 32805.

B. Next TSMO Meeting

The next TSMO meeting will be held on April 28, 2017 at 10 a.m. in the MetroPlan Orlando Committee Room, 250 South Orange Avenue, Suite 200, Orlando, FL 32801.

X. Other Business

None.

XI. Public Comments (General)

None

XII. Adjournment

Due to time being available, committee members were asked to report out on any news of interest to TSMO members in their local jurisdiction.

There being no further business, Chairman Zaballero adjourned the meeting of the Transportation Systems Management & Operations Advisory Committee at 9:40 a.m. The meeting was recorded and transcribed by Ms. Lisa Smith.

Approved this 28th day of April, 2017

Ms. Joedel Zaballero, Chairman

Ms. Lisa Smith, Committee Services Coordinator

As required by Section 286.0105, Florida Statutes, MetroPlan Orlando hereby notifies all interested parties that if a person decides to appeal any decision made by MetroPlan Orlando with respect to any matter considered at such meeting or hearing, he or she may need to ensure that a verbatim record is made to include the testimony and evidence upon which the appeal is to be based.

TAB 2





Board Action Fact Sheet

Meeting Date: May 10, 2017

Agenda Item: IX.A (Tab 2)

Roll Call Vote: Yes

Action Requested:	FDOT requests approval of an amendment to the FY 2016/2017-2020/2021 Transportation Improvement Program which includes advancing the construction of a six-laning project on John Young Pkwy. and adding lighting improvements and a railroad crossing project. Board approval is requested of Resolution No. 17-03.
Reason:	FDOT is adding funding for an existing LYNX project, adjusting cost figures for the Maitland Blvd. six-laning project and adding a new pedestrian safety project. This amendment request provides an opportunity for public review of these projects.
Summary/Key Information:	<p>Items of particular significance for our Committees and the Board are as follows:</p> <ul style="list-style-type: none">• Advances the construction funding for the six-laning of John Young Pkwy. from SR 50 to Shader Road from FY 2020/21 to 2017/18 due to funding availability• Adds a total of \$1,255,000 for design of pedestrian lighting improvements in Orange County in FY 2017/18• Adds a total of \$385,000 for design of pedestrian lighting improvements in Osceola County in FY 2017/18• Adds \$353,840 for construction to upgrade a railroad crossing signal on Edgewater Drive in FY 2017/18
MetroPlan Budget Impact:	None
Local Funding Impact:	None
Committee Action:	CAC: to be determined TSMO: to be determined TAC: to be determined MAC: to be determined
Staff Recommendation:	Recommends approval
Supporting Information:	<p>These documents are provided at Tab 2:</p> <p>FDOT letter dated April 10, 2017</p> <p>FDOT information on lighting projects</p> <p>FDOT Rail Crossing Assessment Procedure</p> <p>Proposed Board Resolution No. 17-03</p>



RESOLUTION NO. 17-03

SUBJECT:

Amendment to the FY 2016/17-2020/21 Transportation Improvement Program

WHEREAS, the Orlando Urbanized Area Metropolitan Planning Organization (MPO), d.b.a. MetroPlan Orlando, is the duly designated and constituted body responsible for carrying out the urban transportation planning and programming process for the Orlando Urbanized Area, including the Transportation Improvement Program; and

WHEREAS, the Florida Department of Transportation (FDOT) is requesting to amend the FY 2016/17-2020/21 Transportation Improvement Program (TIP) in accordance with the MetroPlan Orlando Internal Operating Procedures; and

WHEREAS, the requested amendment is described as follows:

Orange County

- FM #2394963 - SR 423 (John Young Parkway) from SR 50 to Shader Road - Widen to 6 Lanes - Funding consists of \$19,536,752 in ACSU (Advanced Construction Urban Attributable) funds, \$757,596 in DDR (District Dedicated Revenue) funds and \$10,940,064 in SU (Urban Attributable) funds for construction being advanced from FY 2020/21 to FY 2017/18;
- FM #4398802 - Orange County Pedestrian Lighting Bundle "B" - Funding consists of \$870,000 in HSP (Highway Safety Program) funds and \$385,000 in DDR (District Dedicate Revenue) funds for design in FY 2017/18;
- FM#4408551 - CR 424 (Edgewater Drive) Railroad Crossing - Upgrade Signal - Funding consists of \$353,840 in RHH (Rail/Highway Crossing - Hazard Elimination) funds in FY 2017/18;

Osceola County

- FM #4398852 - Osceola County Pedestrian Lighting Bundle "B" - Funding consists of \$385,000 in HSP (Highway Safety Program) funds for design in FY 2017/18;

WHEREAS, the requested amendment described above is consistent with MetroPlan Orlando's project priorities and currently adopted Long Range Transportation Plan.

NOW, THEREFORE, BE IT RESOLVED by the MetroPlan Orlando Board that the Florida Department of Transportation's amendment to the FY 2016/17-2020/21 Transportation Improvement Program be approved as requested.

Passed and duly adopted at a regular meeting of the MetroPlan Orlando Board on the 10th day of May, 2017.

Certificate

The undersigned duly qualified as Chairman of the MetroPlan Orlando Board certifies that the foregoing is a true and correct copy of a Resolution adopted at a legally convened meeting of the MetroPlan Orlando Board.

Honorable Bob Dallari, Chairman

Attest:

Cathy Goldfarb, Sr. Board Services Coordinator
and Recording Secretary



Florida Department of Transportation

RICK SCOTT
GOVERNOR

719 S. Woodland Boulevard
DeLand, Florida 32720-6834

RACHEL D. CONE
INTERIM SECRETARY

April 10, 2017

Mr. Gary Huttman
Deputy Executive Director
MetroPlan Orlando
250 South Orange Ave.
Suite 200
Orlando, FL 32801

Dear Mr. Huttman:

Subject: REQUEST FOR TRANSPORTATION IMPROVEMENT PROGRAM CHANGES

The Florida Department of Transportation requests the following changes to be made to MetroPlan Orlando's Transportation Planning Organization's Adopted Fiscal Years 2016/17 – 2020/21 Transportation Improvement Program (TIP) in coordination with the corresponding changes to the Department's Work Program. Please make sure that you put the amendment date on your cover page of the TIP and on the TIP page of the project.

ORANGE COUNTY

Project

FM#239496-3 State Road 423 (John Young Parkway) Widening From State Road 50 to Shader Road.

Current TIP Status:

Project is currently in the TIP for Fiscal Years 2016/2017 – 2020/2021

Proposed Amendment:

Advancing Phase 52 (Construction Consultant/Contractor) \$19,023,252 with ACSU (Advanced Construction Urban Attributable) Funding, from Fiscal Year 2021 to Fiscal Year 2018.

Advancing Phase 52 (Construction Consultant/Contractor) \$757,596 with DDR (District Dedicated Revenue) Funding, from Fiscal Year 2021 to Fiscal Year 2018.

Advancing Phase 52 (Construction Consultant/Contractor) \$8,762,824 with SU (Urban Attributable) Funding, from Fiscal Year 2021 to Fiscal Year 2018.

Advancing Phase 61 (Construction In-House Timesheet Charges) \$20,540 with SU (Urban Attributable) Funding, from Fiscal Year 2021 to Fiscal Year 2018.

Advancing Phase 62 (Construction Engineering Inspection) \$2,156,700 with SU (Urban Attributable) Funding, From Fiscal Year 2021 to Fiscal Year 2018.

Advancing Phase 62 (Construction Engineering Inspection) \$513,500 with ACSU (Advance Construction Urban Attributable) Funding, From Fiscal year 2021 to Fiscal Year 2018.

Explanation:

Due to Urban Attributable funding availability the Department in coordination with MetroPlan Orlando Metropolitan Planning Organization advanced this project from Fiscal Year 2021 to Fiscal Year 2018. This transaction was made possible due to the project being in the ready to go status.

Project

FM#439880-2 Orange County Pedestrian Lighting Bundle “B”

Current TIP Status:

Project is currently not in the TIP for Fiscal Years 2016/2017 – 2020/2021

Proposed Amendment:

Adding Phase 31 (Design In-House Timesheet Charges) \$10,000 in Fiscal Year 2018 with HSP (Highway Safety Program) Funding.

Adding Phase 32 (Design Consultant) \$860,000 in Fiscal Year 2018 with HSP (Highway Safety Program) Funding.

Adding Phase 32 (Design Consultant) \$385,000 in Fiscal Year 2018 with DDR (District Dedicate Revenue) Funding.

Explanation:

The District received additional Highway Safety Program Funding from Central Office to do safety intersection improvements. The Department looked at corridors where fatalities and crashes were happening within the state. There was data collected that showed that a majority of the crashes and accidents were happening at night (about 80%) at intersections within certain corridors. The Department has placed Highway Safety Program Funds on some of the intersections in Orange County to address some of the much needed safety improvements.

Project

FM#440855-1 County Road 424 (Edgewater Drive) Crossing #622396Y

Current TIP Status:

Project is currently not in the TIP for Fiscal Years 2016/2017 – 2020/2021

Proposed Amendment:

Adding Phase 57 (Construction Railroad) \$353,840 in Fiscal Year 2018 with RHH (Rail/Highway Crossing – Hazard Elimination) Funding.

Explanation:

The District received additional Rail/ Highway Crossing funds and this project was selected to receive funding to do design, flagging, labor, materials and related costs to upgrade the signal.

OSCEOLA COUNTY**Project**

FM#439885-2 Osceola County Pedestrian Lighting Bundle “B”

Current TIP Status:

Project is currently not in the TIP for Fiscal Years 2016/2017 – 2020/2021

Proposed Amendment:

Adding Phase 31 (Design In-House Timesheet Charges) \$10,000 in Fiscal Year 2018 with HSP (Highway Safety Program) Funding.

Adding Phase 32 (Design Consultant) \$375,000 in Fiscal Year 2018 with HSP (Highway Safety Program) Funding.

Explanation:

The District received additional Highway Safety Program Funding from Central Office to do safety intersection improvements. The Department looked at corridors where fatalities and crashes were happening within the state. There was data collected that showed that a majority of the crashes and accidents were happening at night (about 80%) at intersections within certain corridors. The Department has placed Highway Safety Program Funds on some of the intersections in Osceola County to address some of the much needed safety improvements.

If you should have any additional questions please contact me at 386-943-5427.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Kellie Smith', with a stylized flourish at the end.

Kellie Smith
Government Liaison Administrator

cc: Harry Barley, Executive Director, MetroPlan Orlando
Keith Caskey, Manager of Planning Services, MetroPlan Orlando

439880-1

FDOT PM: Carol Hatfield

75002000

**SAND LAKE
RD/MCCOY
RD**

14+2*
Intersections



Side Street	MP	As-Built Plans	Project Number	Existing Lighting	Decorative Lighting	Roadway Lighting Maintaining Agency	Signal Maintaining Agency
I-4 WB-Off Ramp	0.014		439880-1	No	No		Orange County
International Dr.	0.351		407143-4	No	No		Orange County
Universal Blvd.	0.665		407143-4	No	No		City of Orlando
Kingspointe Pkwy.	2.27		407143-5	No	No		Orange County
John Young Pkwy.	2.981		407143-6	No	No		Orange County
President Dr.*	3.663		439880-1	No	No		Orange County
Chancellor Dr.*	3.924		439880-1	No	No		Orange County
Lilwell Ave.	4.409		439880-1	No	No		Orange County
Orange Blossom Tr.	4.618		Intersection in OBT Corridor - Project 439880-2b				
Skysview Dr.	4.792		439880-1	No	No		Orange County
Golden Sky Ln.	5.045		439880-1	No	No		Orange County
Voltare Dr.	5.391		439880-1	No	No		Orange County
Winegard Rd.	5.636		439880-1	No	No		Orange County
Sunport Dr.	6.304		439880-1	No	No		Orange County
Orange Ave.	6.874		439880-1	No	No		Orange County
Gondola Dr.	7.152		439880-1	No	No		Orange County
Lindos Dr.	7.450		439880-1	No	No		Orange County

* State Funds

FDOT PM for 437341-X: Todd Alexander

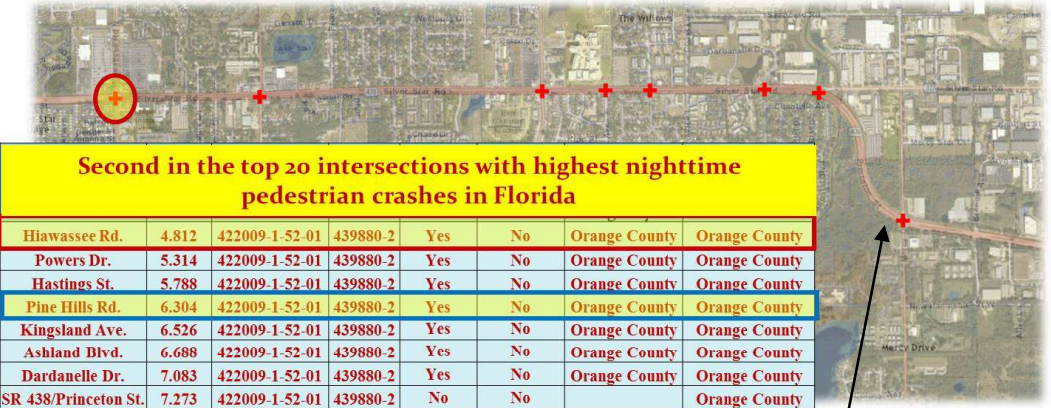
439880-2a

FDOT PM: Carol Hatfield

75250000

**SILVER STAR
ROAD**

8
Intersections



Second in the top 20 intersections with highest nighttime pedestrian crashes in Florida

Hiwassee Rd.	4.812	422009-1-52-01	439880-2	Yes	No	Orange County	Orange County
Powers Dr.	5.314	422009-1-52-01	439880-2	Yes	No	Orange County	Orange County
Hastings St.	5.788	422009-1-52-01	439880-2	Yes	No	Orange County	Orange County
Pine Hills Rd.	6.304	422009-1-52-01	439880-2	Yes	No	Orange County	Orange County
Kingsland Ave.	6.526	422009-1-52-01	439880-2	Yes	No	Orange County	Orange County
Ashland Blvd.	6.688	422009-1-52-01	439880-2	Yes	No	Orange County	Orange County
Dardanelle Dr.	7.083	422009-1-52-01	439880-2	Yes	No	Orange County	Orange County
SR 438/Princeton St.	7.273	422009-1-52-01	439880-2	No	No		Orange County

75251000

Princeton St

1
Intersection

Side Street	MP	As-Built Plans	Project Number	Existing Lighting	Decorative Lighting	Roadway Lighting Maintaining Agency	Signal Maintaining Agency
Mercy Dr.	0.597	407158-1-52-01	439880-2	No	No		City of Orlando

75012000

Curry Ford Rd

4
Intersections



Side Street	MP	As-Built Plans	Project Number	Existing Lighting	Decorative Lighting	Roadway Lighting Maintaining Agency	Signal Maintaining Agency
Conway Rd.	0	413601-1-52-01	439880-2	Yes	No	City of Orlando	City of Orlando
Gaston Foster Rd.	0.378	413601-1-52-01	439880-2	Yes	No	City of Orlando	City of Orlando
Dixie Belle Dr.	1.001	413601-1-52-01	439880-2	Yes	No	City of Orlando	City of Orlando
Semorán Blvd	1.262	Intersection in SR 436 Corridor - Project 439880-2c					
Raper Dairy Rd.	1.813	413601-1-52-01	439880-2	Yes	No	City of Orlando	City of Orlando
Goldenrod Rd	2.639	Intersection in Goldenrod Rd Corridor - Project 439880-3					

75035001

Kissimmee
Vineland Rd

2

Intersections

Side Street	MP	As-Built Plans	Project Number	Existing Lighting	Decorative Lighting	Roadway Lighting Maintaining Agency	Signal Maintaining Agency
Lake Vining Dr/ Measow Creek Dr	1.903	411728-1-52-01	439880-2	No	No		Orange County
Vineland Ave	2.145		439880-2	No	No		Orange County



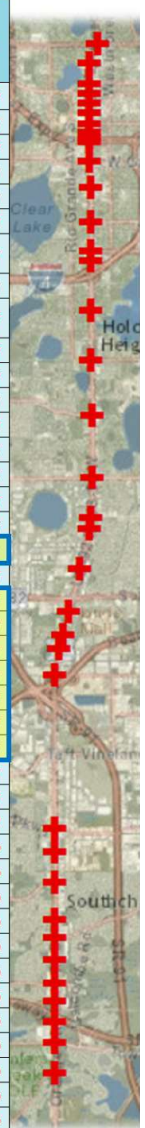
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SR 500
(Orange Blossom Trail)

37+4*
Intersections

Side Street	MP	As-Built Plans	Project Number	Existing Lighting	Decorative Lighting	Roadway Lighting Maintaining Agency	Signal Maintaining Agency
Hunters Creek Blvd.	0.965	239416-1-52-01	439880-2	Yes	No	Orange County	Orange County
Town Center Blvd.	1.369	239416-1-52-01	439880-2	Yes	No	Orange County	Orange County
SR 417(NB Off-Ramp) *	1.692	239416-1-52-01	439880-2	Yes	No	Orange County	Orange County
SR 417 SB On-Ramp)	1.892	239416-1-52-01	439880-2	Yes	No	Orange County	Orange County
Deerfield Blvd.	2.123	239416-1-52-01	439880-2	Yes	No	Orange County	Orange County
Southchase Village/Stabledrive	2.43	239416-1-52-01	439880-2	Yes	No	Orange County	Orange County
Wetherbee Rd./Gingermill Blvd.	2.704	239416-1-52-01	439880-2	Yes	No	Orange County	Orange County
Peppermill Blvd.	2.942	239416-1-52-01	439880-2	Yes	No	Orange County	Orange County
Well Fleet St. Whisper Lakes Blvd.	3.418	239416-1-52-01	439880-2	Yes	No	Orange County	Orange County
Waterbridge Blvd.	3.793	239416-1-52-01	439880-2	Yes	No	Orange County	Orange County
Central Florida Pkwy.	4.095	239416-1-52-01	439880-2	Yes	No	Orange County	Orange County
W Taft Vineland Rd. *	5.057		439880-2	Yes	No	Orange County	Orange County
Consulate Dr.*	5.522		439880-2	Yes	No	Orange County	Orange County
CR528A Landstreet Rd.	6.065	427047-1-52-01	439880-2	Yes	Yes	Orange County	Orange County
La Quinta Dr.	6.383	427047-1-52-01	439880-2	Yes	Yes	Orange County	Orange County
Sunlife Path/Morning	6.577	427047-1-52-01	439880-2	Yes	Yes	Orange County	Orange County
August Ln / Floridamall	6.875	427047-1-52-01	439880-2	Yes	Yes	Orange County	Orange County
Sand Lake Rd	7.062	427047-1-52-01	437592-1	Yes	Yes	Orange County	Orange County
Skyview / Southland Blvd.	7.466	427047-1-52-01	439880-2	Yes	Yes	Orange County	Orange County
Chancery/Orlando Cen	7.982	427047-1-52-01	439880-2	Yes	Yes	Orange County	Orange County
Lancaster Rd	8.134	427047-1-52-01	439880-2	Yes	Yes	Orange County	Orange County
CR 506 Oak Ridge Rd	8.638	424530-1-52-01	439880-2	Yes	Yes	Orange County	Orange County
Wakulla Way*	9.079	424530-1-52-01	439880-2	Yes	Yes	Orange County	Orange County
Americana Blvd	9.44	424530-1-52-01	439880-2	Yes	Yes	Orange County	Orange County
Holden Ave	10.145	424530-1-52-01	439880-2	Yes	Yes	Orange County	Orange County
39th St	10.783	424530-1-52-01	439880-2	Yes	Yes	Orange County	Orange County
29th St	11.401	427228-1-52-01	439880-2	No	No		Orange County
Michigan St.	11.529	427228-1-52-01	439880-2	No	No		Orange County
Kaley Ave	11.911	427228-1-52-01	439880-2	No	No		Orange County
Grand St.	12.343	427228-1-52-01	439880-2	No	No		City of Orlando
Gore St.	12.666	427228-1-52-01	439880-2	Yes	Yes	City of Orlando	City of Orlando
Carter St.	12.915	427228-1-52-01	439880-2	Yes	Yes	City of Orlando	City of Orlando
Long St.	12.979	427228-1-52-01	439880-2	Yes	Yes	City of Orlando	City of Orlando
Anderson St.	13.038	427228-1-52-01	439880-2	Yes	Yes	City of Orlando	City of Orlando
South St.	13.156	427228-1-52-01	439880-2	Yes	Yes	City of Orlando	City of Orlando
Church St.	13.289	427228-1-52-01	439880-2	Yes	Yes	City of Orlando	City of Orlando
Central Blvd.	13.415	427228-1-52-01	439880-2	Yes	No	City of Orlando	City of Orlando
Washington St.	13.546	427228-1-52-01	439880-2	Yes	No	City of Orlando	City of Orlando
Robinson St.	13.669	427228-1-52-01	439880-2	Yes	No	City of Orlando	City of Orlando
Amelia St.	13.919	427228-1-52-01	439880-2	Yes	No	City of Orlando	City of Orlando
Colonial Dr.	14.201	427228-1-52-01	439880-2	Yes	No	City of Orlando	City of Orlando

High in Ped/Bike Crashes



439880-2b

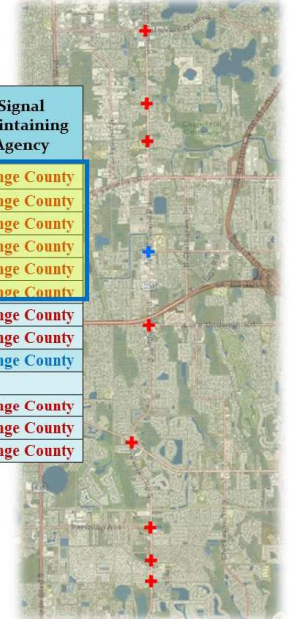
FDOT PM: Carol Hatfield

439880-2C
FDOT PM: Carol Hatfield
75003000
**SR 436
(Semoran
Blvd)**
**26
Intersections**

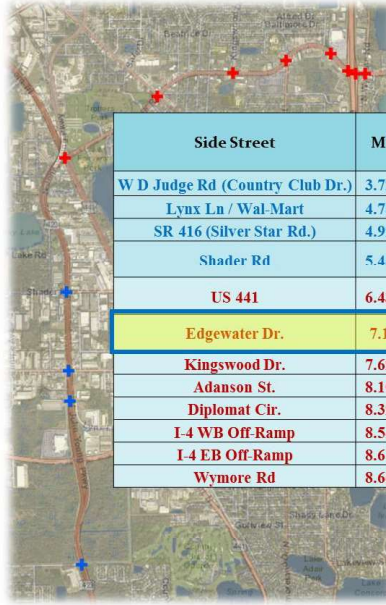
Side Street	MP	As-Built Plans	Project Number	Existing Lighting	Decorative Lighting	Roadway Lighting Maintaining Agency	Signal Maintaining Agency
TG Lee Blvd. / Frontage Rd.	0.652	239454-2-52-01	439880-2	Yes	No	City of Orlando	City of Orlando
Hazeltine National Dr.	0.842	239454-2-52-01	439880-2	Yes	No	City of Orlando	City of Orlando
Lee Vista Blvd.	1.245	239454-2-52-01	439880-2	Yes	No	City of Orlando	City of Orlando
Bent Pine Dr.	1.647	239454-2-52-01	439880-2	Yes	No	City of Orlando	City of Orlando
SR 15 (Hoffner Rd.)	2.048	239454-2-52-01	439880-2	Yes	No	City of Orlando	City of Orlando
Turnbull Dr.	2.354		439880-2	Yes	No	City of Orlando	City of Orlando
Gatlin Ave.	3.052	239454-2-52-01	439880-2	Yes	No	City of Orlando	City of Orlando
Pershing Ave.	3.308	239454-2-52-01	439880-2	Yes	No	City of Orlando	City of Orlando
Lake Margaret Dr.	3.772	239454-2-52-01	439880-2	Yes	No	City of Orlando	City of Orlando
Michigan St. / Sundown Apts.	4.380	239454-2-52-01	439880-2	Yes	No	City of Orlando	City of Orlando
Grant St.	4.585	239454-2-52-01	439880-2	Yes	No	City of Orlando	City of Orlando
SR 552 (Curry Ford Rd.)	4.995	239454-2-52-01	439880-2	Yes	No	City of Orlando	City of Orlando
La Costa Dr.	5.274		439880-2	Yes	No	City of Orlando	City of Orlando
Stonewall Jackson Rd.	5.657		439880-2	Yes	No	City of Orlando	City of Orlando
CR 526 (Lake Underhill Rd.)	6.059		439880-2	Yes	No	City of Orlando	City of Orlando
Yew Dr. / SR 408 WB Off-Ramp	6.191		439880-2	Yes	No	City of Orlando	City of Orlando
Kallima Dr.	6.341		Existing LED with Decorative Arms		No	City of Orlando	City of Orlando
Dahlia Dr.	6.526				No	City of Orlando	City of Orlando
Oleander Dr.	7.061			No	No	Orange County	Orange County
SR 50 (Colonial Dr.)	7.324		439880-2	Yes	No	Orange County	Orange County
Old Cheney Hwy.	7.611	422048-2-52-01	439880-2	Yes	No	Orange County	Orange County
Baldwin Park Connector / Auvers Blvd.	8.542	422048-2-52-01	439880-2	Yes	No	Orange County	Orange County
Hanging Moss Rd.	8.827	422048-2-52-01	439880-2	Yes	No	Orange County	Orange County
Banchory Rd.	9.608	422048-2-52-01	439880-2	Yes	No	Orange County	Orange County
University Blvd./Scarlet Rd.	10.107	422048-2-52-01	439880-2	Yes	No	Orange County	Orange County
SR 426 (Aloma Ave.)	10.606	422048-2-52-01	439880-2	Yes	No	Orange County	Orange County


439880-3
FDOT PM: Carol Hatfield
75200000
**SR 551
(Goldenrod
Rd)**
**9+3*
Intersections**

Side Street	MP	As-Built Plans	Project Number	Existing Lighting	Decorative Lighting	Roadway Lighting Maintaining Agency	Signal Maintaining Agency
Charlin Pkwy.	0.79		439880-3	Yes	No	Orange County	Orange County
Sun Vista Way	1.075		439880-3	Yes	No	Orange County	Orange County
Pershing Ave.	1.52	439880-3	439880-3	Yes	No	Orange County	Orange County
Curry Ford Rd.	2.731	424898-1-52-01	439880-3	Yes	No	Orange County	Orange County
Nolton Way *	3.571	424898-1-52-01	439880-3	Yes	No	Orange County	Orange County
Lake Underhill Rd.	4.434		439880-3	Yes	No	Orange County	Orange County
SR 408 EB *	4.484		439880-3	Yes	No	Orange County	Orange County
SR 408 WB *	4.574		439880-3	Yes	No	Orange County	Orange County
Valencia College Ln.	5.437		437634-1	Yes	No	Orange County	Orange County
SR 50 (Colonial Dr.) 6.13 Intersection in SR 50 Corridor - Project 439880-4c							
Liverpool Blvd.	6.928		439880-3	Yes	No	Orange County	Orange County
Bates Rd.	7.44		439880-3	Yes	No	Orange County	Orange County
University Blvd.	8.435		439880-3	Yes	No	Orange County	Orange County

High in Ped/Bike Crashes


* State Funds
FDOT PM for 437634-1: Taleb Shams

439880-4a
FDOT PM: Todd Helton
75190000
**SR 423
(John Young
Pkwy/ Lee Rd)**
**12
Intersections**


Side Street	MP	As-Built Plans	Project Number	Existing Lighting	Decorative Lighting	Roadway Lighting Maintaining Agency	Signal Maintaining Agency
W D Judge Rd (Country Club Dr.)	3.721	423356-1-52-01	239496-3	No	No	City of Orlando	City of Orlando
Lynx Ln / Wal-Mart	4.789	423356-1-52-01	239496-3	Yes	No	City of Orlando	City of Orlando
SR 416 (Silver Star Rd.)	4.993	423356-1-52-01	239496-3	Yes	No	City of Orlando	City of Orlando
Shader Rd	5.487	423356-1-52-01 239496-2-52-01	239496-3	Yes	No	City of Orlando	City of Orlando
US 441	6.433	423356-1-52-01 239496-2-52-01	439880-4	Yes	No	City of Orlando	City of Orlando
Edgewater Dr.	7.17	423356-1-52-01 239496-2-52-01	439880-4	No	No		Orange County
Kingswood Dr.	7.693	423356-1-52-01	439880-4	No	No		Orange County
Adanson St.	8.108	423356-1-52-01	439880-4	No	No		Orange County
Diplomat Cir.	8.399	423356-1-52-01	439880-4	No	No		Orange County
I-4 WB Off-Ramp	8.540	423356-1-52-01	439880-4	No	No		Orange County
I-4 EB Off-Ramp	8.612	423356-1-52-01	439880-4	No	No		Orange County
Wymore Rd	8.667	423356-1-52-01	439880-4	Yes	No	City of Winter Park	City of Winter Park

FDOT PM for 239496-3: Storm Kazmierczak
439880-4b
FDOT PM: Todd Helton
75050000
**SR 50
(W. Colonial
Dr./M. Luther
King)**
**29+5*
Intersections**


Side Street	MP	As-Built Plans	Project Number	Existing Lighting	Decorative Lighting	Roadway Lighting Maintaining Agency	Signal Maintaining Agency
CR 545/ Avalon Rd/ Tildenville Rd	3.08	410983-1-52-01	439880-4	No	No		City of Winter Garden
Park Ave.*	4.06	410983-1-52-01	439880-4	Yes	No	City of Winter Garden	City of Winter Garden
CR 535	4.326	410983-1-52-01	439880-4	Yes	No	City of Winter Garden	City of Winter Garden
Daniels Rd/ Dillard St	4.557	410983-1-52-01	439880-4	Yes	No	City of Winter Garden	City of Winter Garden
9th St*	5.065	410983-1-52-01	439880-4	Yes	No	City of Winter Garden	City of Winter Garden
Beulah Rd*	5.196	410983-1-52-01	439880-4	Yes	No	City of Winter Garden	City of Winter Garden
Carter Rd	5.699	410983-1-52-01	439880-4	Yes	No	City of Winter Garden	City of Winter Garden
SR 429 SB Ramps*	6.001	410983-1-52-01	439880-4	Yes	No	City of Winter Garden	City of Winter Garden
SR 429 NB Ramps*	6.097	410983-1-52-01	439880-4	Yes	No	City of Winter Garden	City of Winter Garden
CR 439/ Maguire Rd	7.079		439880-4	Yes	No	City of Ocoee	City of Ocoee
Winter Garden Rd/Bluford Ave	7.337		439880-4	Yes	No	City of Ocoee	City of Ocoee
Blackwood Ave.	7.835		439880-4	No	No		City of Ocoee
SR 408/Clarke Rd.	8.399		439880-4	No	No		City of Ocoee
West Oak Mall	8.765	239535-5-52-01	439880-4	No	No		City of Ocoee
Vizcaya Lake Rd	9.098	239535-5-52-01	439880-4	Yes	No	Orange County	Orange County
Good Homes Rd.	9.338	239535-4-52-01	439880-4	Yes	No	Orange County	Orange County
Apopka Vineland Rd.	10.267	239535-4-52-01	439880-4	Yes	No	Orange County	Orange County
Dorscher Rd.	10.599	239535-4-52-01	439880-4	Yes	No	Orange County	Orange County
Highland Lakes Shopping Center	10.779	239535-4-52-01	439880-4	Yes	No	Orange County	Orange County
CR 435 (Hiawassee Rd.)	11.101	239535-4-52-01	439880-4	Yes	No	Orange County	Orange County
Powers Dr.	11.606	239535-4-52-01	439880-4	Yes	No	Orange County	Orange County
Paul St.	11.789	239535-4-52-01	439880-4	Yes	No	Orange County	Orange County
Hasting St.	12.103	239535-4-52-01	439880-4	Yes	No	Orange County	Orange County
SR 435 (Kirkman Rd.)	12.277	239535-4-52-01 239288-1-52-01	439880-4	Yes	No	Orange County	Orange County
Westside Crossing Shopping Ct.	12.587	239535-4-52-01	439880-4	Yes	No	Orange County	Orange County
CR 431 (Pine Hills Rd.)	12.825	239535-4-52-01	439880-4	Yes	No	Orange County	Orange County
Silverton St./Pete Parrish Blvd.	13.363	414999-1-52-01	439880-4	Yes	No	City of Orlando	City of Orlando
Fairvilla Rd.	13.739	414999-1-52-01	439880-4	Yes	No	City of Orlando	City of Orlando
Mercy Dr.	13.872	414999-2-52-01 239535-5-52-01	439880-4	Yes	No	City of Orlando	City of Orlando
Ferguson Dr.	14.495	414999-1-52-01	439880-4	Yes	No	City of Orlando	City of Orlando
SR 423 (John Young Pkwy.)	14.869	414999-1-52-01	439880-4	Yes	No	City of Orlando	City of Orlando
Sherriff Central Comp.	15.062		439880-4	Yes	No	City of Orlando	City of Orlando
Tampa Ave/ Country Ln	15.357		439880-4	Yes	No	City of Orlando	City of Orlando
Springdale Rd.	15.867		439880-4	Yes	No	City of Orlando	City of Orlando

** State Funds*

439880-4c

FDOT PM: Todd Helton

75060000

SR 50
(Colonial
Drive)

35 + 4*
Intersections



Side Street	MP	As-Built Plans	Project Number	Existing Lighting	Decorative Lighting	Roadway Lighting Maintaining Agency	Signal Maintaining Agency
Westmoreland Dr.	0.139		439880-4	Yes	No	City of Orlando	City of Orlando
Parramore Ave.	0.389		439880-4	Yes	No	City of Orlando	City of Orlando
Edgewater Dr.	0.480		439880-4	Yes	No	City of Orlando	City of Orlando
SR 527 SB (Orange Ave.)	0.996		439880-4	Yes	No	City of Orlando	City of Orlando
SR 527 NB (Magnolia Ave.)	1.135		439880-4	Yes	No	City of Orlando	City of Orlando
Highland Ave.	1.328		439880-4	Yes	No	City of Orlando	City of Orlando
Summerlin Ave.	1.641		439880-4	Yes	No	City of Orlando	City of Orlando
Mills Ave.	1.898		439880-4	Yes	No	City of Orlando	City of Orlando
Shine Ave.	2.002		439880-4	Yes	No	City of Orlando	City of Orlando
Fern Creek Ave.	2.145		439880-4	Yes	No	City of Orlando	City of Orlando
Hampton Ave.	2.398		439880-4	Yes	No	City of Orlando	City of Orlando
Bumby Ave.	2.653		439880-4	Yes	No	City of Orlando	City of Orlando
Colonial Plaza Mall Ent. / Cov Dr.	2.778		439880-4	Yes	No	City of Orlando	City of Orlando
Primrose Dr.	2.905		439880-4	Yes	No	City of Orlando	City of Orlando
Maguire Blvd.	3.098		439880-4	Yes	No	City of Orlando	City of Orlando
Fashion Square Mall Ent.	3.353		439880-4	Yes	No	City of Orlando	City of Orlando
Herndon Ave.*	3.541		439880-4	Yes	No	City of Orlando	City of Orlando
Rickenbacker Dr. / Bennett Rd.	3.784		439880-4	Yes	No	City of Orlando	City of Orlando
Humphries Ave. / Lake Baldwin Ln.	4.161	411730-1-52-01	439880-4	Yes	No	City of Orlando	City of Orlando
Old Cheney Hwy.	4.560	239203-2-52-01	439880-4	Yes	No	Orange County	City of Orlando
Forsyth Rd.	6.431	239203-2-52-01	439880-4	Yes	No	Orange County	Orange County
Goldenrod Rd.	6.944	239203-2-52-01	439880-4	Yes	No		Orange County
Chickasaw Trl.	7.445	239203-2-52-01	439880-4	No	No		Orange County
SR 417 SB Ramps	8.042	239203-2-52-01	439880-4	No	No		Orange County
SR 417 NB Ramps*	8.240		439880-4	No	No		Orange County
Constantine St.	8.452	239203-3-52-01	439880-4	No	No		Orange County
Econlockhatchee Trl.	8.943	239203-3-52-01	439880-4	No	No		Orange County
CR 425 (Dean Rd.)	9.445		239203-4	No	No		Orange County
Murdock Blvd.	10.223		239203-4	No	No		Orange County
Rouse Rd.	10.740		239203-4	No	No		Orange County
Rouse Lake Rd. / Wal-Mart Ent.	11.169		239203-4	No	No		Orange County
SR 434 - Alafava Trl.	11.736		239203-4	No	No		Orange County
Sophie Blvd.*	11.997		239203-4	No	No		
Cricket Club Cir.*	12.239		239203-4	No	No		
Woodbury Rd.	12.522		239203-4	No	No		Orange County
Bonnaville Dr.	12.993		239203-4	No	No		Orange County
Lake Pickett Rd.	13.282		239203-4	No	No		Orange County
Pebble Beach Blvd.	13.800		239203-4	No	No		Orange County
Avalon Park Blvd. / Pilgrim St.	14.293		239203-4	No	No		Orange County

* State Funds
FDOT PM for 437634-1: Medhat Hassan

439880-5

FDOT PM: Heidi Trivett

75270000

SR 435
(Kirkman Rd)

16+1*
Intersections



Side Street	MP	As-Built Plans	Project Number	Existing Lighting	Decorative Lighting	Roadway Lighting Maintaining Agency	Signal Maintaining Agency
Carrier Dr.*	0.543		439880-5	Yes	No	City of Orlando	City of Orlando
International Dr.	0.886		439880-5	Yes	No	City of Orlando	City of Orlando
Major Blvd (Universal)	1.955		439880-5	Yes	No	City of Orlando	City of Orlando
Vineland Rd.	2.296		439880-5	Yes	No	City of Orlando	City of Orlando
Conroy Rd.	3.063	239288-1-52-01	439880-5	Yes	No	City of Orlando	City of Orlando
L. B. McLeod Rd.	3.798	239288-1-52-01	439880-5	Yes	No	City of Orlando	City of Orlando
Arnold Palmer Dr.	4.199	239288-1-52-01	439880-5	Yes	No	City of Orlando	City of Orlando
Metrowest Blvd.	4.429	239288-1-52-01	439880-5	Yes	No	City of Orlando	City of Orlando
Sterling Crest Apts. / Walmart	4.680	239288-1-52-01	437341-1	Yes	No	City of Orlando	City of Orlando
Valencia Community College Ent.	4.910	239288-1-52-01	437341-1	Yes	No	City of Orlando	City of Orlando
Valencia Comm. College Dr. / Pine Club Apts.	5.149	239288-1-52-01	437341-1	Yes	No	City of Orlando	City of Orlando
Raleigh St.	5.400	239288-1-52-01	437341-1	Yes	No	City of Orlando	City of Orlando
Westgate Dr.	5.684	239288-1-52-01	437341-1	Yes	No	City of Orlando	City of Orlando
CR 526 (Old Winter Garden Rd.)	6.103	239288-1-52-01	437341-1	Yes	No	Orange County	Orange County
Washington St	6.455	239288-1-52-01	437341-1	Yes	No	Orange County	Orange County
SR 408 EB Off-Ramp	6.817	239288-1-52-01	439880-5	Yes	No	Orange County	Orange County
Sr 408 WB Off-Ramp	6.913	239288-1-52-01	439880-5	Yes	No	Orange County	Orange County

* State Funds
FDOT PM for 437341-1: Heidi Trivett

439880-6

FDOT PM: Todd Helton

75037000

**SR 434
(Alafaya Trail)**

**9
Intersections**

Side Street	MP	As-Built Plans	Project Number	Existing Lighting	Decorative Lighting	Roadway Lighting Maintaining Agency	Signal Maintaining Agency
SR 50 (Colonial Dr.)	0	Intersection in SR 50 Corridor - Project 439880-4c					
Challenger Pkwy	0.447	415512-1-52-01 428952-1-52-01	439880-6	Yes	No	Orange County	Orange County
Science Dr. / Lokanosa Trl.	1.128	415512-1-52-01 428952-1-52-01	439880-6	Yes	No	Orange County	Orange County
Research Pkwy.	1.448	415512-1-52-01 428952-1-52-01	439880-6	Yes	No	Orange County	Orange County
Central Florida Blvd	1.934	415512-1-52-01 428952-1-52-01	439880-6	Yes	No	Orange County	Orange County
University Blvd.	2.152	415512-1-52-01 428952-1-52-01	439880-6	Yes	No	Orange County	Orange County
Strategy Blvd.	2.336		439880-6	Yes	No	Orange County	Orange County
Centaurus Dr. / Westinghouse Dr.	2.468		439880-6	Yes	No	Orange County	Orange County
Gemint Blvd. / Corporate Blvd.	2.828	239518-1-52-01	439880-6	Yes	No	Orange County	Orange County
McCulloch Rd.	3.108		439880-6	Yes	No	Orange County	Orange County



75220000

SR 530 (US 192)

**2+2*
Intersections**

Side Street	MP	As-Built Plans	Project Number	Existing Lighting	Decorative Lighting	Roadway Lighting Maintaining Agency	Signal Maintaining Agency
Avalon Rd./ Westside Blvd	0.536	239304-1-52-01	439880-6	No	No		Orange County
Lindfield Blvd*	1.144	239304-1-52-01	439880-6	No	No		Orange County
Vista Del Lago Blvd.	1.457	239304-1-52-01	439880-6	No	No		Orange County
Secret Lake Dr.*	1.675	239304-1-52-01	439880-6	No	No		Orange County

* State Funds



439880-7
FDOT PM: Todd Helton

75040000

**SR 527
(Orange
Ave/Fairbanks
Ave)**

**17
Intersections**

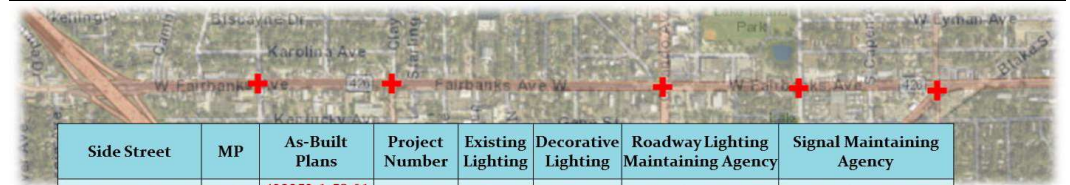


Side Street	MP	As-Built Plans	Project Number	Existing Lighting	Decorative Lighting	Roadway Lighting Maintaining Agency	Signal Maintaining Agency
Nela Ave. / Glen Rose Ave.	8.424	419678-1-52-01	439880-7	No	No		Orange County
Lancaster Rd	8.682	419678-1-52-01	439880-7	No	No		Orange County
Gatlin Ave.	10.703		439880-7	Yes	No	City of Edgewood	City of Edgewood
Holden Ave.	10.772		439880-7	Yes	No	City of Edgewood	City of Edgewood
Drenen Rd.	11.359		439880-7	Yes	No	City of Orlando	Orange County
Pineloch Ave.	11.783		439880-7	Yes	No	City of Orlando	City of Orlando
Michigan St	12.033		439880-7	Yes	No	City of Orlando	City of Orlando
Grant St	12.285		439880-7	Yes	No	City of Orlando	City of Orlando
Kaley Ave	12.536		439880-7	Yes	No	City of Orlando	City of Orlando
Miller St. / Wisteria St.	12.788		439880-7	Yes	No	City of Orlando	City of Orlando
Copeland Dr.	12.958		439880-7	Yes	No	City of Orlando	City of Orlando
Columbia St.	13.067		439880-7	Yes	No	City of Orlando	City of Orlando
Rollins St.	16.382		439880-7	Yes	Yes	City of Orlando	City of Orlando
Winter Park St.	16.433		439880-7	No	No		City of Orlando
King St.	16.547		439880-7	No	No		City of Orlando
New York Ave	18.329	415525-1-52-01	439880-7	Yes	Yes	City of Winter Park	City of Winter Park
Park Ave.	18.455	415525-1-52-01	439880-7	Yes	Yes	City of Winter Park	City of Winter Park

75006000

**SR 426
(Fairbanks Ave)**

**5
Intersections**



Side Street	MP	As-Built Plans	Project Number	Existing Lighting	Decorative Lighting	Roadway Lighting Maintaining Agency	Signal Maintaining Agency
Formosa Ave.	0.344	423352-1-58-01 423353-1-58-01	439880-7	Yes	Yes	City of Winter Park	City of Winter Park
Clay St.	0.593	423352-1-58-01 423353-1-58-01	439880-7	Yes	Yes	City of Winter Park	City of Winter Park
US 17/92	1.095		439880-7	Yes	No	City of Winter Park	City of Winter Park
Denning Dr.	1.345		439880-7	Yes	No	City of Winter Park	City of Winter Park
Pennsylvania Ave.	1.611		439880-7	Yes	Yes	City of Winter Park	City of Winter Park

75006001

**SR 426
(Fairbanks Ave)**

**2
Intersections**



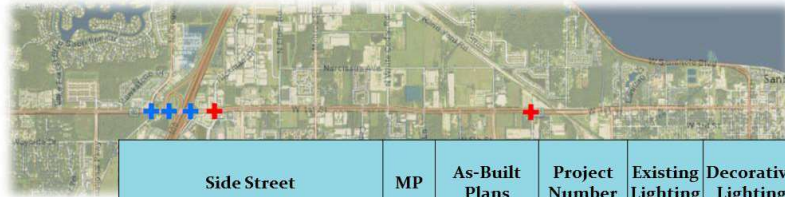
Side Street	MP	As-Built Plans	Project Number	Existing Lighting	Decorative Lighting	Roadway Lighting Maintaining Agency	Signal Maintaining Agency
Anderson St	0.280	404134-1-52-01	439880-7	No	No		Orange County
Wymore Rd	0.795	404134-1-52-01	439880-7	No	No		Orange County

439884-1
FDOT PM: Kathleen Enot

77030000

SR 46
(1st St.)

5+4*
Intersections



Side Street	MP	As-Built Plans	Project Number	Existing Lighting	Decorative Lighting	Roadway Lighting Maintaining Agency	Signal Maintaining Agency
Wayside Dr. / Oregon St	4.783		439884-1	No	No		Seminole County
I-4 WB Off-Ramp	4.493		439884-1	No	No		Seminole County
I-4 EB Off-Ramp	5.060		439884-1	No	No		Seminole County
Towne Center Blvd. / Hickman Dr.	5.223		439884-1	No	No		City of Sanford
Rinehart Rd.*	5.418		439884-1	No	No		Seminole County
CR 15 (Upsala Rd.)*	5.920		439884-1	No	No		Seminole County
Central Park Dr.*	6.243		439884-1	No	No		City of Sanford
Bevier Rd.*	7.149		439884-1	No	No		Seminole County
CR 427A/ Old Airport Blvd.	7.421		439884-1	No	No		Seminole County

* State Funds

77070000

SR 434 / 419
(Sanford
Oviedo Rd.)

1
Intersection



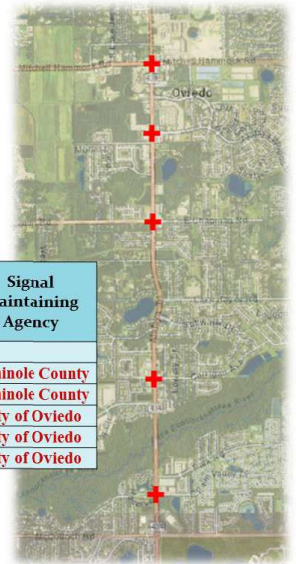
Side Street	MP	As-Built Plans	Project Number	Existing Lighting	Decorative Lighting	Roadway Lighting Maintaining Agency	Signal Maintaining Agency
Vistavilla Dr.	6.594		439884-1	No	No		City of Winter Springs

77170000

SR 434
(Alafaya Trl.)

5
Intersections

Side Street	MP	As-Built Plans	Project Number	Existing Lighting	Decorative Lighting	Roadway Lighting Maintaining Agency	Signal Maintaining Agency
McCulloch Rd	0	Intersection in SR 434 Corridor - Project 439880-6					
Palm Valley Dr	0.264	240167-1-52-01	439884-1	No	No		Seminole County
Carrigan Ave.	1.008	240167-1-52-01	439884-1	No	No		Seminole County
Chapman Rd	2.025	240167-1-52-01	439884-1	Yes	No	City of Oviedo	City of Oviedo
Alafaya Woods Blvd.	2.582	240167-1-52-01	439884-1	Yes	No	City of Oviedo	City of Oviedo
Mitchell Hammock Rd.	3.028	240167-1-52-01	439884-1	Yes	No	City of Oviedo	City of Oviedo





Osceola County

439885-1

FDOT PM: Kevin Moss

92090000

US 192

30

Intersections



Side Street	MP	As-Built Plans	Project Number	Existing Lighting	Decorative Lighting	Roadway Lighting Maintaining Agency	Signal Maintaining Agency
Orange Lake Blvd.	0.288		439885-1	No	No		Orange County
SR 429 SB Off-Ramp	0.690		439885-1	No	No		Orange County
SR429 NB Off-Ramp	0.812		439885-1	No	No		Orange County
Orange Lake Blvd/Rolling Oaks Blvd.	0.965		439885-1	Yes	No	Osceola County	Orange County
Black Lake Rd.	1.409		439885-1	Yes	Yes	Osceola County	Osceola County
Formosa Gardens Blvd.	2.098		439885-1	Yes	Yes	Osceola County	Osceola County
Entry Point Blvd.	2.545		439885-1	Yes	Yes	Osceola County	Osceola County
Old Lake Wilson Rd.	2.667		439885-1	Yes	Yes	Osceola County	Osceola County
Reedy Creek Blvd.	3.089		439885-1	Yes	Yes	Osceola County	Osceola County
Celebration Pl./Parkway Blvd.	6.084	422033-1-52-01	439885-1	Yes	Yes	Osceola County	Osceola County
Arabian Nights Blvd.	6.292	422033-1-52-01	439885-1	Yes	Yes	Osceola County	Osceola County
Celebration Ave.	6.491	422033-1-52-01	439885-1	Yes	Yes	Osceola County	Osceola County
International Dr.	6.891	239670-1-52-02	439885-1	Yes	Yes	Osceola County	Osceola County
Holiday Trl.	7.110	239670-1-52-02	439885-1	Yes	Yes	Osceola County	Osceola County
Seralago Blvd.	7.473	239670-1-52-02	439885-1	Yes	Yes	Osceola County	Osceola County
Polynesian Isles Blvd.	8.446	239670-1-52-02	439885-1	Yes	Yes	Osceola County	Osceola County
Poinciana Blvd	8.833	239670-1-52-02	439885-1	Yes	Yes	Osceola County	Osceola County
SR 535	9.435	239670-1-52-02	439885-1	Yes	Yes	Osceola County	Osceola County
Super Target	9.910	239663-1-52-01	439885-1	Yes	Yes	Osceola County	Osceola County
Seven Dwarfs Ln.	10.233	239663-1-52-01	439885-1	Yes	Yes	Osceola County	Osceola County
Siesta Lago Dr.	10.732	239663-1-52-01	439885-1	Yes	Yes	Osceola County	Osceola County
Old Vineland Rd.	12.105	239663-1-52-01	439885-1	Yes	Yes	Osceola County	Osceola County
Hoagland Blvd	12.867	239663-1-52-01	439885-1	Yes	Yes	Osceola County	Osceola County
Armstrong Blvd.	13.097	409103-1-52-01	439885-1	Yes	Yes	City of Kissimmee	City of Kissimmee
Dyer Blvd.	13.370	409103-1-52-01	439885-1	Yes	Yes	City of Kissimmee	City of Kissimmee
Orange Ave	13.679	409103-1-52-01	439885-1	Yes	Yes	City of Kissimmee	City of Kissimmee
Thacker Ave.	14.130	409103-1-52-01	439885-1	Yes	Yes	City of Kissimmee	City of Kissimmee
Emory Ave.	14.390	409103-1-52-01	439885-1	Yes	Yes	City of Kissimmee	City of Kissimmee
John Young Pkwy.	14.635	409103-1-52-01	439885-1	Yes	Yes	City of Kissimmee	City of Kissimmee
Central Ave.	15.135	409103-1-52-01	439885-1	Yes	Yes	City of Kissimmee	City of Kissimmee

92030000

SR 500/600
(13th St)

1

Intersection



Side Street	MP	As-Built Plans	Project Number	Existing Lighting	Decorative Lighting	Roadway Lighting Maintaining Agency	Signal Maintaining Agency
Oak St/Michigan Ave	0.76	239708-1-52-01	439885-1	Yes	Yes	City of Kissimmee	City of Kissimmee

92010000

SR 500/600
(Main St.)

1

Intersection



Side Street	MP	As-Built Plans	Project Number	Existing Lighting	Decorative Lighting	Roadway Lighting Maintaining Agency	Signal Maintaining Agency
US 192/Vine St	11.764	407164-2-52-01	439885-1	Yes	Yes	City of Kissimmee	City of Kissimmee



Osceola County

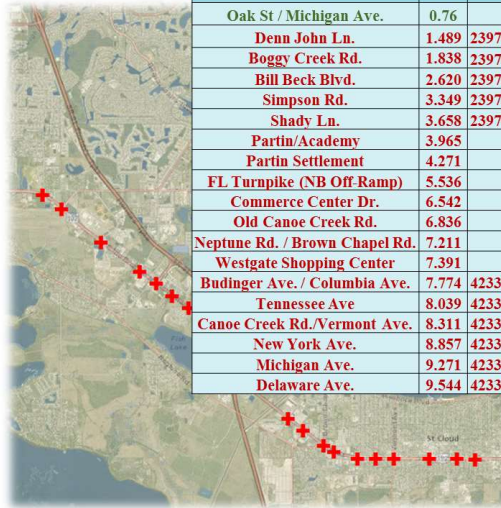
439885-2

FDOT PM: Kevin Moss

92030000

John Young
Pkwy/ S. OBT

18
Intersections



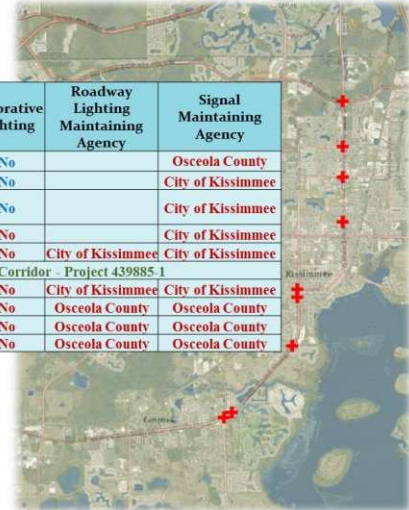
Side Street	MP	As-Built Plans	Project Number	Existing Lighting	Decorative Lighting	Roadway Lighting Maintaining Agency	Signal Maintaining Agency
Oak St / Michigan Ave.	0.76		Intersection in US 192 Corridor - Project 439885.1				
Denn John Ln.	1.489	239708-1-52-01	439885-2	Yes	No	City of Kissimmee	City of Kissimmee
Boggy Creek Rd.	1.838	239708-1-52-01	439885-2	Yes	No	Osceola County	Osceola County
Bill Beck Blvd.	2.620	239708-1-52-01	439885-2	Yes	No	Osceola County	Osceola County
Simpson Rd.	3.349	239708-1-52-01	439885-2	Yes	No	Osceola County	Osceola County
Shady Ln.	3.658	239708-1-52-01	439885-2	Yes	No	Osceola County	Osceola County
Partin/Academy	3.965		439885-2	Yes	No	Osceola County	Osceola County
Partin Settlement	4.271		439885-2	Yes	No	Osceola County	Osceola County
FL Turnpike (NB Off-Ramp)	5.536		439885-2	Yes	No	Osceola County	Osceola County
Commerce Center Dr.	6.542		439885-2	Yes	No	City of St. Cloud	City of St. Cloud
Old Canoe Creek Rd.	6.836		439885-2	Yes	No	City of St. Cloud	City of St. Cloud
Neptune Rd. / Brown Chapel Rd.	7.211		439885-2	Yes	No	City of St. Cloud	Osceola County
Westgate Shopping Center	7.391		439885-2	Yes	No	City of St. Cloud	City of St. Cloud
Budinger Ave. / Columbia Ave.	7.774	423361-1-52-01	439885-2	Yes	No	City of St. Cloud	City of St. Cloud
Tennessee Ave	8.039	423361-1-52-01	439885-2	Yes	No	City of St. Cloud	City of St. Cloud
Canoe Creek Rd./Vermont Ave.	8.311	423361-1-52-01	439885-2	Yes	No	City of St. Cloud	City of St. Cloud
New York Ave.	8.857	423361-1-52-01	439885-2	Yes	No	City of St. Cloud	City of St. Cloud
Michigan Ave.	9.271	423361-1-52-01	439885-2	Yes	No	City of St. Cloud	City of St. Cloud
Delaware Ave.	9.544	423361-1-52-01	439885-2	Yes	No	City of St. Cloud	City of St. Cloud

92010000

SR 500/600
(13TH ST.)

9
Intersections

Side Street	MP	As-Built Plans	Project Number	Existing Lighting	Decorative Lighting	Roadway Lighting Maintaining Agency	Signal Maintaining Agency
CR 531 (Pleasant Hill Rd.)	7.611	413592-1-52-01	418403-3	No	No		Osceola County
The Oak Blvd.	7.822	413592-1-52-01	418403-3	No	No		City of Kissimmee
Osceola Park Drive/Hacienda Circle	9.265		418403-3	No	No		City of Kissimmee
Patrick St.	10.125	407164-1-52-01	439885-2	No	No		City of Kissimmee
Emmett St.	10.298	407164-1-52-01	439885-2	Yes	No	City of Kissimmee	City of Kissimmee
US 192/ Vine St	11.764		Intersection in US 192 Corridor - Project 439885.1				
Columbia Ave.	11.982	407164-2-52-01	439885-2	No	No	City of Kissimmee	City of Kissimmee
Donegan Ave.	12.727	419562-1-52-01	439885-2	No	No	Osceola County	Osceola County
Carroll St.	13.229	419562-1-52-01	439885-2	No	No	Osceola County	Osceola County
Osceola Pkwy.	13.991	239725-1-52-01	439885-2	No	No	Osceola County	Osceola County



* State Funds
FDOT PM for 418403-3: Kevin Moss

PROCEDURE FOR AT-GRADE RAIL CROSSING ASSESSMENTS

Crossing Assessments

There are numerous considerations to be taken into account when assessing an at-grade crossing for safety improvements, including public necessity, convenience, safety, and economics. There are 4 steps FDOT's Central Rail Office follows in order to determine which at-grade crossings throughout the state will receive funding for safety improvements.

- Step 1 – FDOT gathers data on each grade crossing throughout the state for the preceding year. The data includes (but is not limited to) the number of school busses crossing the track, crashes, and fatalities. A Safety Index is calculated for each at-grade crossing (statewide) and they are ranked in order of priority with the lowest ranking number being the highest priority. The District Rail Coordinator will run a Safety Index report to determine the priority list within their District.
- Step 2 – Includes the evaluation of each grade crossing. A diagnostic team is formed to review crossings and includes FDOT representatives from the local district, Central Office and the railroad company that crosses the road. Diagnostic field reviews are typically conducted during the summer, from May to August. The diagnostic team will evaluate each crossing to determine if additional signal only related devices would lower the priority of the grade crossing from the data in Step 1. The railroad owner will provide a cost estimate to add any signal equipment to complete the work agreed to by the three parties involved in the review. The diagnostic team does not recommend improvements for sidewalks, road profile adjustments and/or track panel rehabilitation.
- Step 3 – After the diagnostic review is complete, Central Office will take the evaluations, compare them to the data in step 1 and determine which grade crossings will receive the most benefit from the proposed improvements, and updates the priority list based on this information.
- Step 4 – Once the improvements are decided, they are funded with a budget (historically approximately \$11 million) to be constructed the next fiscal year. This funding which is allocated statewide, comes from the Federal –Aid Section 130 Railway-Highway Crossing Program and can only be used for signal safety improvements. After the funds are distributed, the District Rail Coordinator completes agreements with the railroad companies and the local municipalities in preparation for the work to begin.

The FDOT Rail Handbook lists the current crossing safety program priorities:

- Addressing crossings that warrant interconnection with highway traffic signals
- Improving pedestrian crossing safety
- Mitigating road profile deficient crossings
- Updating crossings with existing gates and warning signals (active crossing control)
- Updating public crossings that only have signage and no gates or signals (passive crossing control)
- Closing or eliminating at-grade crossings

Crossing treatment is determined from a variety of data collected through the diagnostic field review. Some of the data that is considered includes the following:

- Vehicle and pedestrian volumes
- The number of trains and train speed
- The width and geometry of the crossing
- Nearby land uses and sight distance at the grade crossing

The field review by the diagnostic team will recommend safety improvements required by both the railroad company and the public government for each crossing location. These improvements are necessary to create awareness of the crossing to trains as well as vehicular and pedestrian traffic. The level of treatment installed at each location is dependent on the volume of train traffic and number of vehicles crossing the track.

Passive Controls consist of roadside signage and/or pavement markings and are used to provide awareness of a railroad crossing to drivers and pedestrians, regardless of the presence of a train. These are static features placed in advance of a crossing and/or immediately in front of a crossing. Such passive controls may include:

- Crossbuck/STOP sign assembly

- Crossbuck/YIELD sign assembly
- Railroad STOP sign (fixed rectangular sign)
- Painted Stop Bar

Active Controls consist of gates and signals that are only activated to warn drivers when a train is approaching the crossing. An audible warning, provided by a train's horn, is required on the train's approach to crossings with both active and passive warning devices. Active crossing controls are installed closest to the crossing location and may include:

- Flashing light signal with audible warning device
- Cantilevered flashing light with audible warning device
- Pedestrian flashing light with audible warning device
- Automatic gate
- Traffic signal preemption control

Quiet Zone Safety Requirements

Quiet Zones (QZ) are sections of a railroad corridor where the train crew does not have to sound the horn at crossings. In order for an area to qualify as a QZ the crossings must meet minimum safety requirements that have been identified by the Federal Railroad Administration (FRA). The FRA requires a diagnostic team to review the crossings as one of the first steps in the QZ application process. This diagnostic team is not the same team that was mentioned previously. Typical participating agencies in this diagnostic team include: Central Office, FDOT District office, and County and/or City representatives. The QZ diagnostic team makes their recommendations for crossings based upon an analysis of the corridor's risk indices, which are established by the FRA QZ calculator referencing supplemental safety measures (SSMs) provided by FRA. The team evaluates each type of SSM against the individual characteristics of the crossings along with the input from all stakeholders. Approved SSMs include the following:

- Four quadrant gate system (gates on the entry and exit point of the crossing and used to prohibit cars from traveling around the gate)
- Gates with medians or channelization devices (approved medians must be from 60 to 100 feet long)
- One way street with gates
- And permanent closure

Section 130 funding cannot be used to meet the FRA's requirements for a QZ project. Reimbursement is completed by each individual Metropolitan Planning Organization (MPO). The respective MPO is responsible for submitting the QZ application, coordinating with all affected municipalities, developing the SSM strategy (which crossings should receive treatment and what type), and obtain separate funding. These activities are achieved through collaborative working sessions with the FRA and the municipalities.

The Point of Contact Below is for the FDOT District Five Coordinator:

Jim Ganey

District Five Railroad Coordinator
 Florida Department of Transportation
 719 S. Woodland Blvd. MS #3-562
 Deland, FL 32720-6834
 386-943-5331 Phone
 386-785-3754 Cell
Jim.Ganey@dot.state.fl.us

TAB 3





Board Action Fact Sheet

Meeting Date: May 10, 2017

Agenda Item: IX.A (Tab 3)

Roll Call Vote: Yes

Action Requested:

Florida's Turnpike Enterprise (FTE) requests approval of an amendment to the 2040 Long Range Transportation Plan to include the removal of one project previously assumed to be committed for funding, addition of an unfunded need to the funded list, a new corridor PD&E Study in East Orlando and three (3) interchange modifications.

Reason:

FTE has incorporated the projects into their planning and programming documents, the amendments are proposed to ensure consistency with the Long Range Transportation Plan. This amendment request provides an opportunity for public review of these projects.

Summary/Key Information:

Items of particular significance for our Committees and the Board are as follows:

- SR 417 – Widen to 8 lanes between Interstate 4 in Seminole County to the Seminole County / Orange County Line [REMOVE PROJECT].
- Florida's Turnpike – Widen to eight (8) lanes between Kissimmee Park Road interchange and US 192 interchange in Osceola County [ADD PROJECT].
- Colonial Parkway (SR 504) between SR 408 and SR 520 along the SR 50 corridor [ADD PD&E STUDY].
- Interchange Modifications [ADD PROJECTS]
 - Florida Turnpike @ Kissimmee Park Road Florida
 - Turnpike @ Interstate 4
 - Florida Turnpike @ SR 528 / US

MetroPlan Budget Impact: None

Local Funding Impact: None

Committee Action:

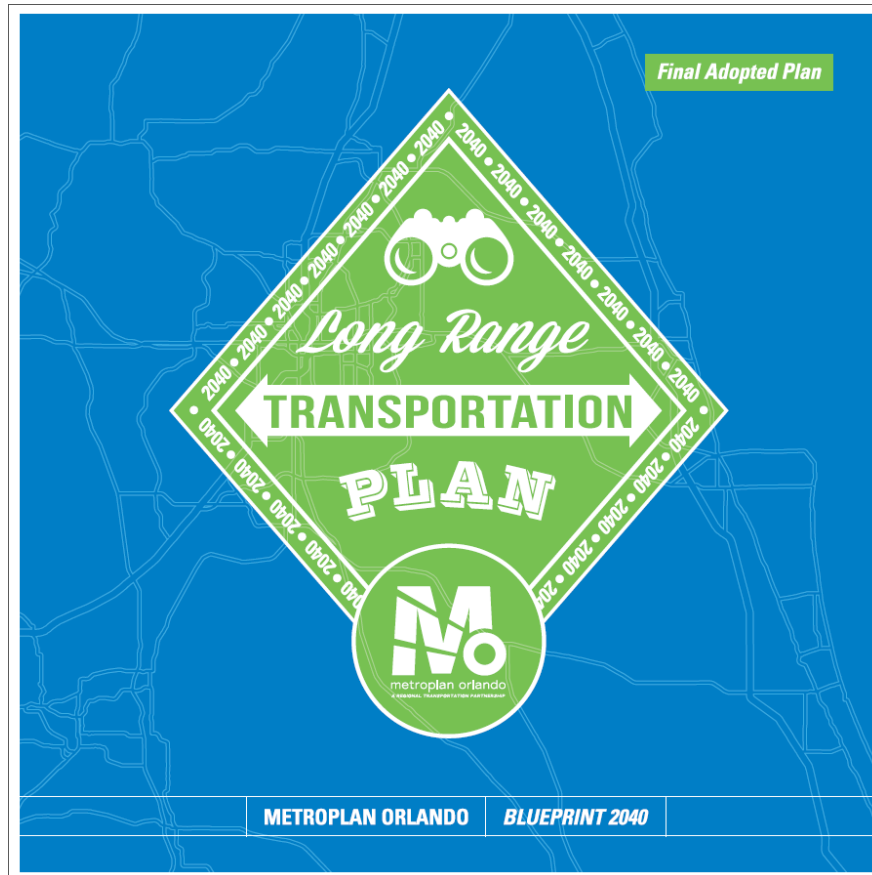
CAC:	to be determined
TSMO:	to be determined
TAC:	to be determined
MAC:	to be determined

Staff Recommendation: Recommends approval

Supporting Information: These documents are provided at Tab 3:

FDOT letter dated March 24, 2017
LRTP Amendment Fact Sheet

2040 Long Range Transportation Plan Proposed Amendment May 2017



How to Submit a Comment

The MetroPlan Orlando Board will consider the proposed amendment(s) during its meeting on May 10, 2017. Parties can submit written comments to MetroPlan Orlando, 250 S Orange Avenue, Ste. 200, Orlando, FL 32801 or by emailing LRTP@metroplanorlando.org. The deadline to submit comments is May 9, 2017.

Accommodations

In accordance with the Americans with Disabilities Act (ADA), if any person with a disability defined by the ADA needs special accommodations to participate, he or she should contact MetroPlan Orlando at least three business days prior to a proceeding. Persons who require alternative language services, which are provided at no cost, should contact MetroPlan Orlando at least three business days prior to a proceeding. To request accommodations, please contact Ms. Cathy Goldfarb at (407) 481-5672 x315 or email cgoldfarb@metroplanorlando.org.

BACKGROUND INFORMATION

In order to meet federal requirements, the year 2040 Long Range Transportation Plan (LRTP) contains a Cost Feasible Plan and a Needs Plan.

Projects in the Cost Feasible Plan are based on reasonably available funding. In other words, the region expects to complete these projects through funding mechanisms currently in place, already allowed by the state legislature, or needing additional action by the state legislature. The Needs Plan contains unfunded projects deemed important for the development of Central Florida's transportation system.



The Florida's Turnpike Enterprise (FTE) has requested an amendment to MetroPlan Orlando's 2040 Long Range Transportation Plan to add and remove projects from the cost-feasible portion of the 2040 LRTP. Florida's Turnpike Enterprise is funded by toll revenues, so the amendments do not impact any projects currently forecasted to use federal or state funding in the 2040 Long Range Transportation Plan. The amendment includes:

1. **SR 417 – Widen to 8 lanes between Interstate 4 in Seminole County to the Seminole County / Orange County Line [REMOVE PROJECT].** Project has been removed from Cost Feasible Plan and added to the Unfunded Needs plan due to lack of local support.
2. **Florida's Turnpike – Widen to eight (8) lanes between Kissimmee Park Road interchange and US 192 interchange in Osceola County [ADD PROJECT].** Project was an unfunded Need and has been added to Cost Feasible List to coincide with the improvement to the interchange modification in item 4.
3. **Colonial Parkway (SR 504) between SR 408 and SR 520 along the SR 50 corridor [ADD STUDY].**
The Florida Turnpike Enterprise will lead the Project Development & Engineering Study to examine all alternatives along State Road 50 between State Road 408 and State Road 520.
4. **Interchange Modifications [ADD PROJECTS]**
 - a. **Florida Turnpike @ Kissimmee Park Road** – Add Southbound On & Northbound off ramps to create full interchange
 - b. **Florida Turnpike @ Interstate 4** – Interchange modification to improve connectivity between I-4 Ultimate and the Turnpike
 - c. **Florida Turnpike @ SR 528 / US 441** - Interchange modification to improve connectivity between the Turnpike, SR 528 and US 441



Florida Turnpike Enterprise

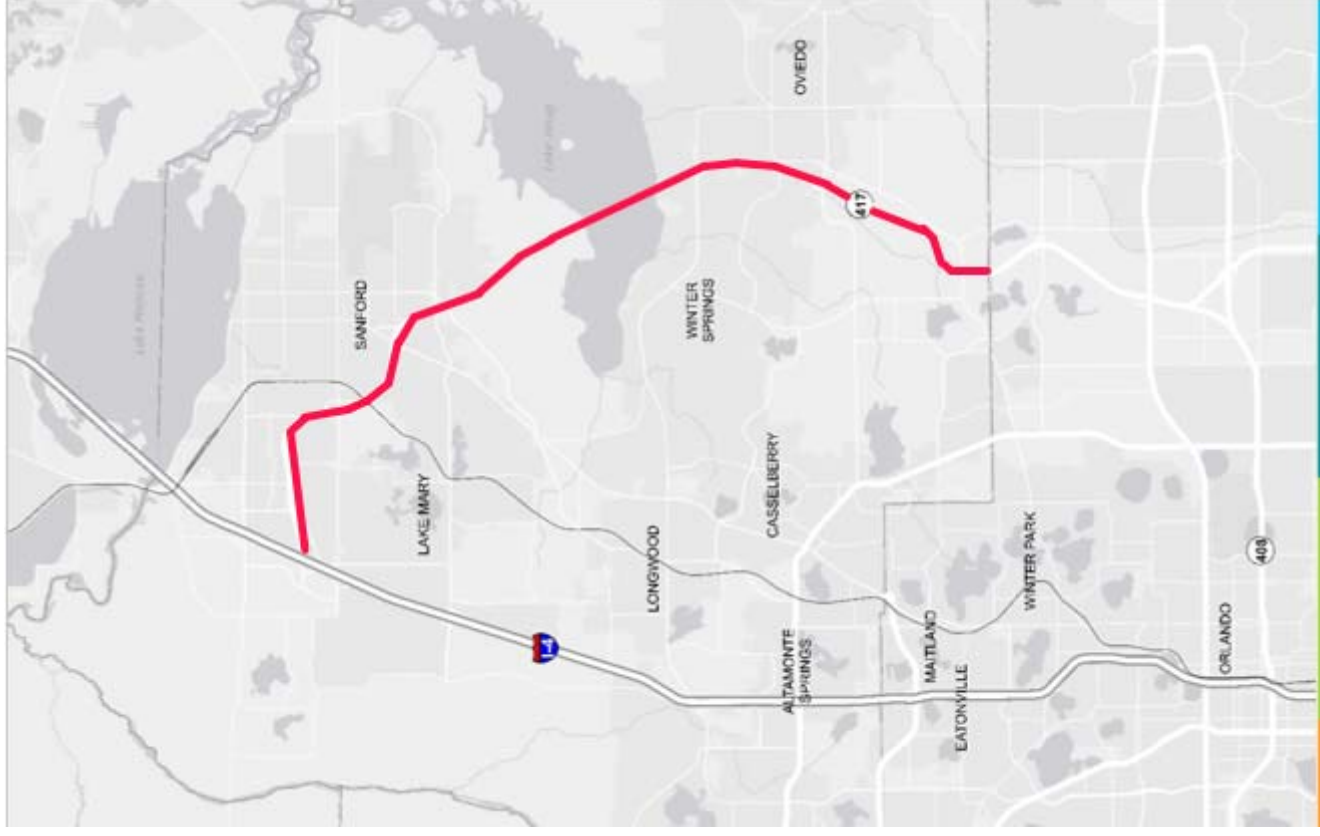
SR 417 – Remove (now unfunded need)

Florida Turnpike – widen to 8 lanes

Colonial Parkway – new corridor PD&E

Interchange Modifications

- Kissimmee Park Road
- Interstate 4
- SR 528/ US 441



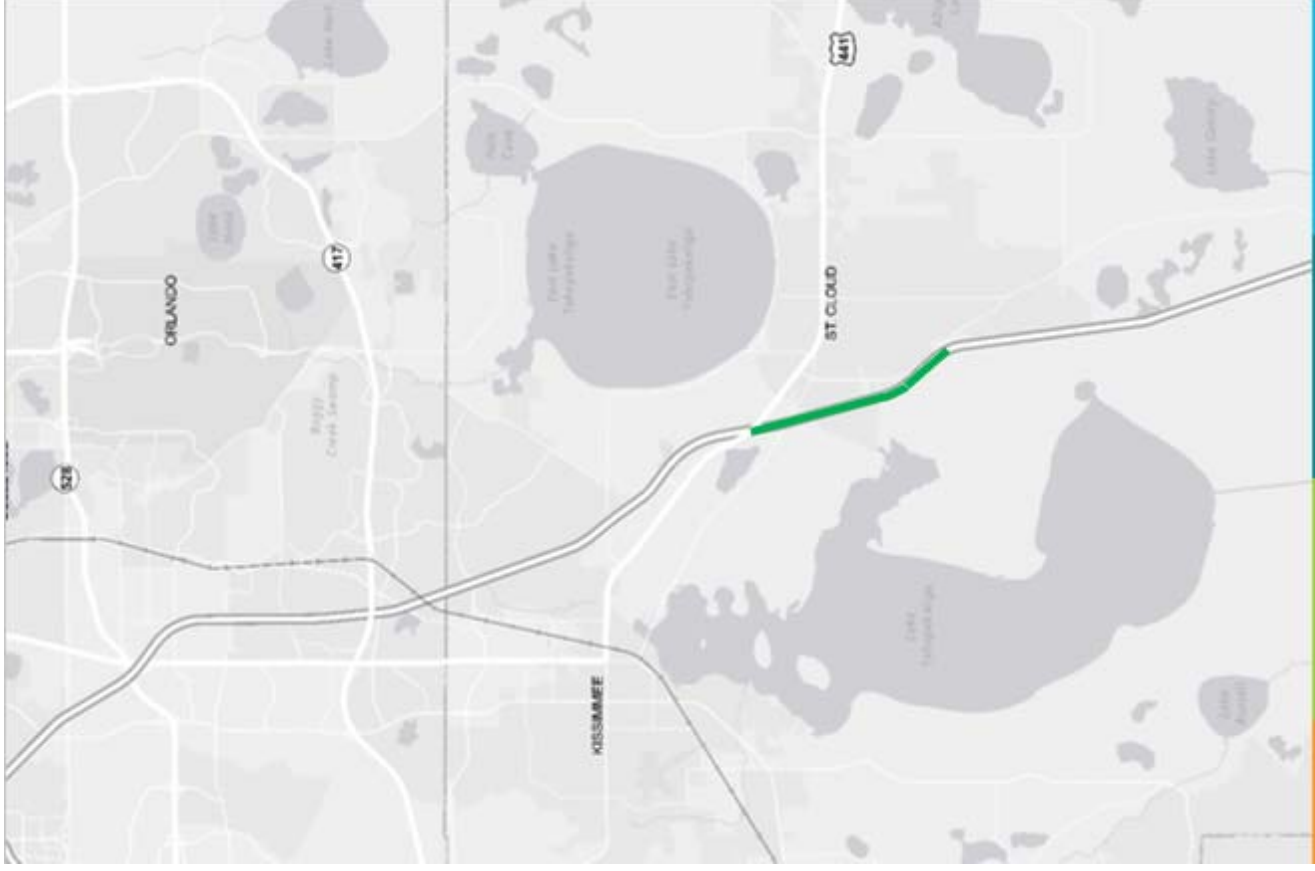
SR 417 – Remove (now unfunded need)

Florida Turnpike – widen to 8 lanes

Colonial Parkway – new corridor PD&E

Interchange Modifications

- Kissimmee Park Road
- Interstate 4
- SR 528/ US 441



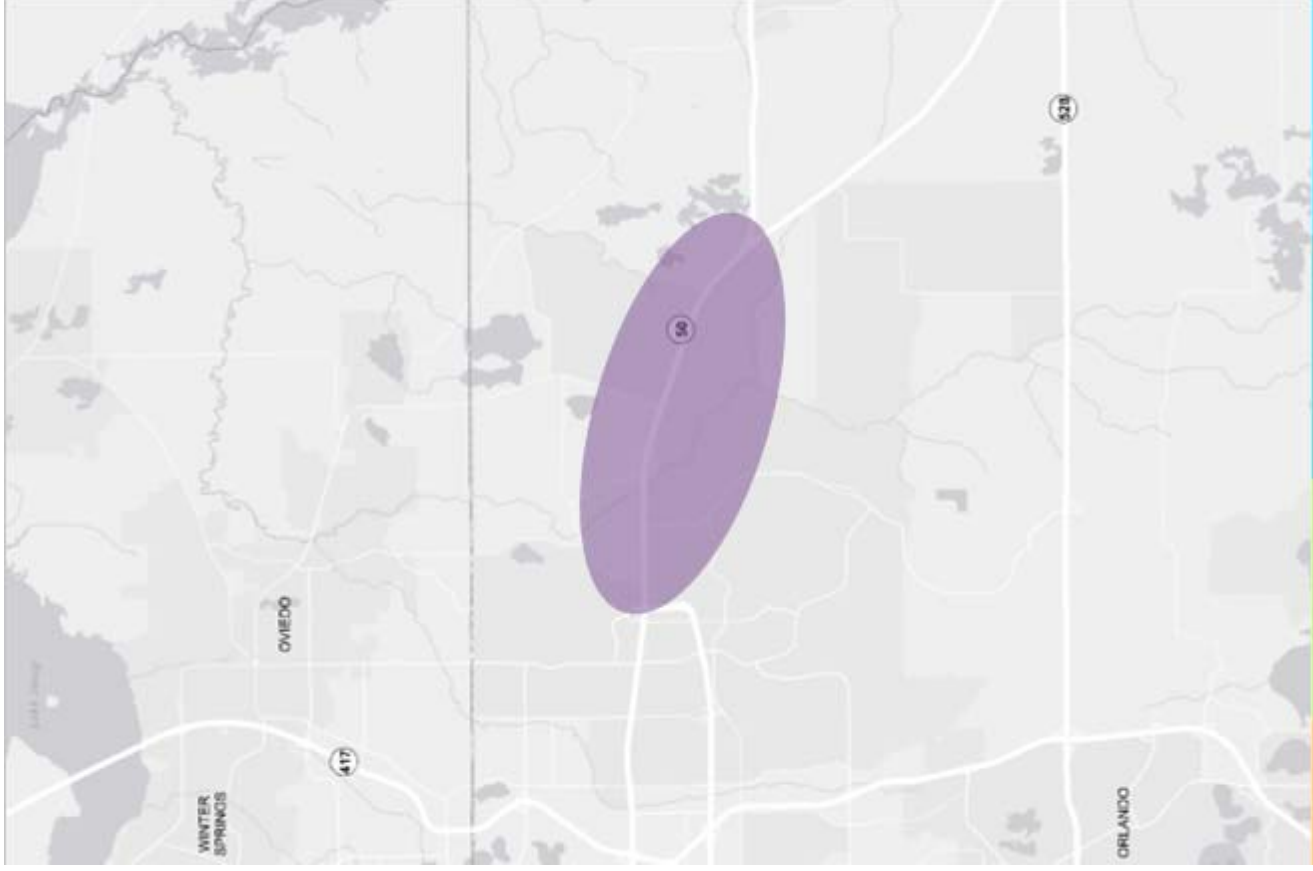
SR 417 – Remove (now unfunded need)

Florida Turnpike – widen to 8 lanes

Colonial Parkway – new corridor PD&E

Interchange Modifications

- Kissimmee Park Road
- Interstate 4
- SR 528/ US 441



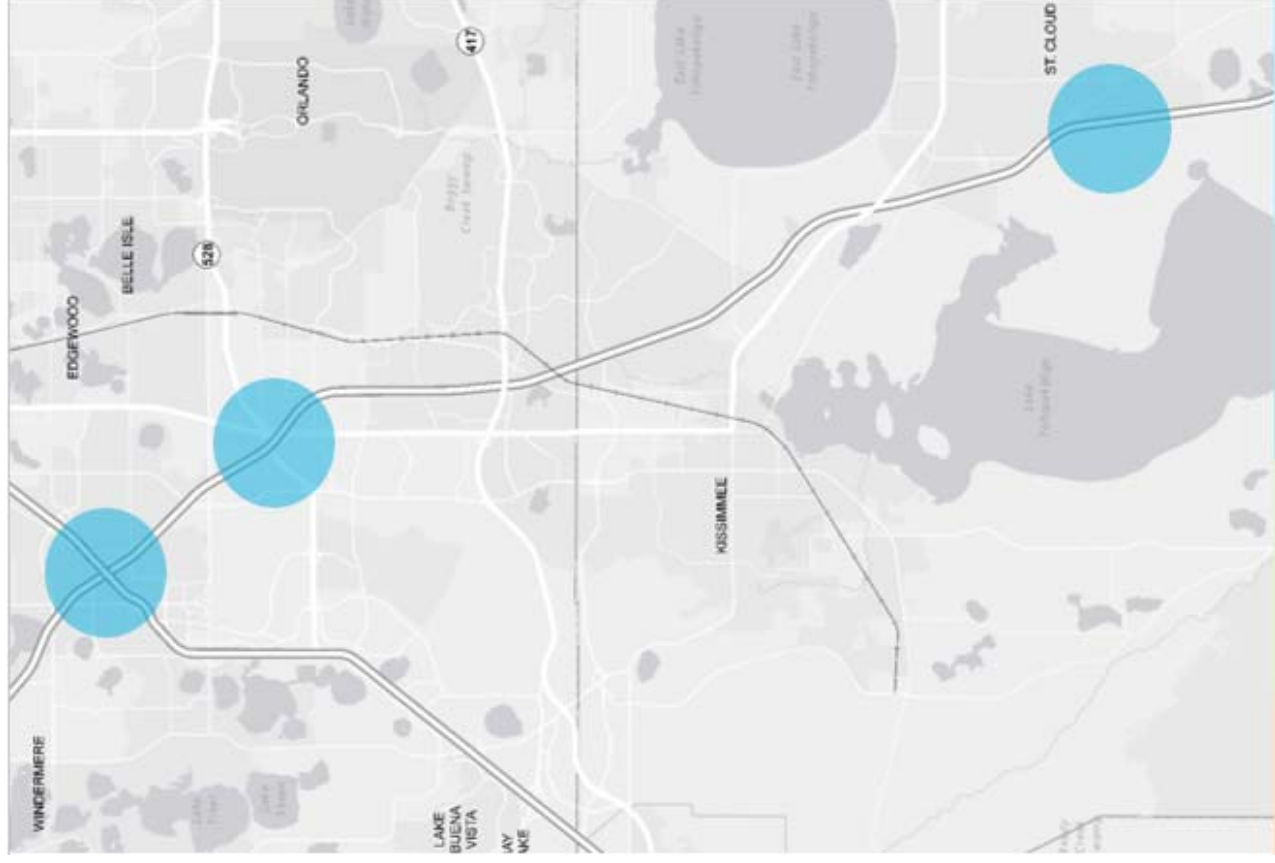
SR 417 - Remove (now unfunded need)

Florida Turnpike - widen to 8 lanes

Colonial Parkway - new corridor PD&E

Interchange Modifications

- Kissimmee Park Road
- Interstate 4
- SR 528/ US 441



SR 417 - Remove (now unfunded need)

Florida Turnpike - widen to 8 lanes

Colonial Parkway - new corridor PD&E

Interchange Modifications

- Kissimmee Park Road
- Interstate 4
- SR 528/ US 441

TAB 4





Board Action Fact Sheet

Meeting Date: May 10, 2017

Agenda Item:

Roll Call Vote: No

Action Requested: Approval of MetroPlan Orlando Intelligent Transportation Systems (ITS) Master Plan

Reason: The MetroPlan Orlando Intelligent Transportation System (ITS) Master Plan proposes a system that improves efficiency, reliability and safety of the region's multi-modal transportation system by applying computer and communication technology systems.

Summary/Key Information: The ITS Master Plan evaluates current systems in the MetroPlan Orlando Area, determines future needs, and outlines future ITS projects to improve mobility in the region. It provides a deep understanding of the goals, objectives, needs, and strategies of Stakeholders in the region. The ITS Master Plan includes recommended strategies and will serve as a guide for the development of regional ITS projects, including Closed Circuit Television Cameras (CCTV) cameras, Dynamic Message Signs (DMS), Bluetooth readers, Microwave Vehicle Detectors (MVDs), Automatic Vehicle Identification (AVI) readers, Transit Signal Priority (TSP), Adaptive Traffic Signal Control (ATSC), fiber optic cable, and communications equipment.

MetroPlan Budget Impact: N/A

Local Funding Impact: None

Committee Action:

CAC:	to be determined
TSMO:	to be determined
TAC:	to be determined
MAC:	to be determined

Staff Recommendation: Recommends approval

Supporting Information: At Tab 4

Fact Sheet 1: Vision, Goals, Objectives and Measures

Fact Sheet 2: Polling results provided by stakeholder participants at the ITS Master Plan Workshop on July 22, 2016

List of future ITS Projects



Vision Statement: Maximize the transportation system performance by continually improving safety, efficiency, and reliability for all systems users through the application of technology.

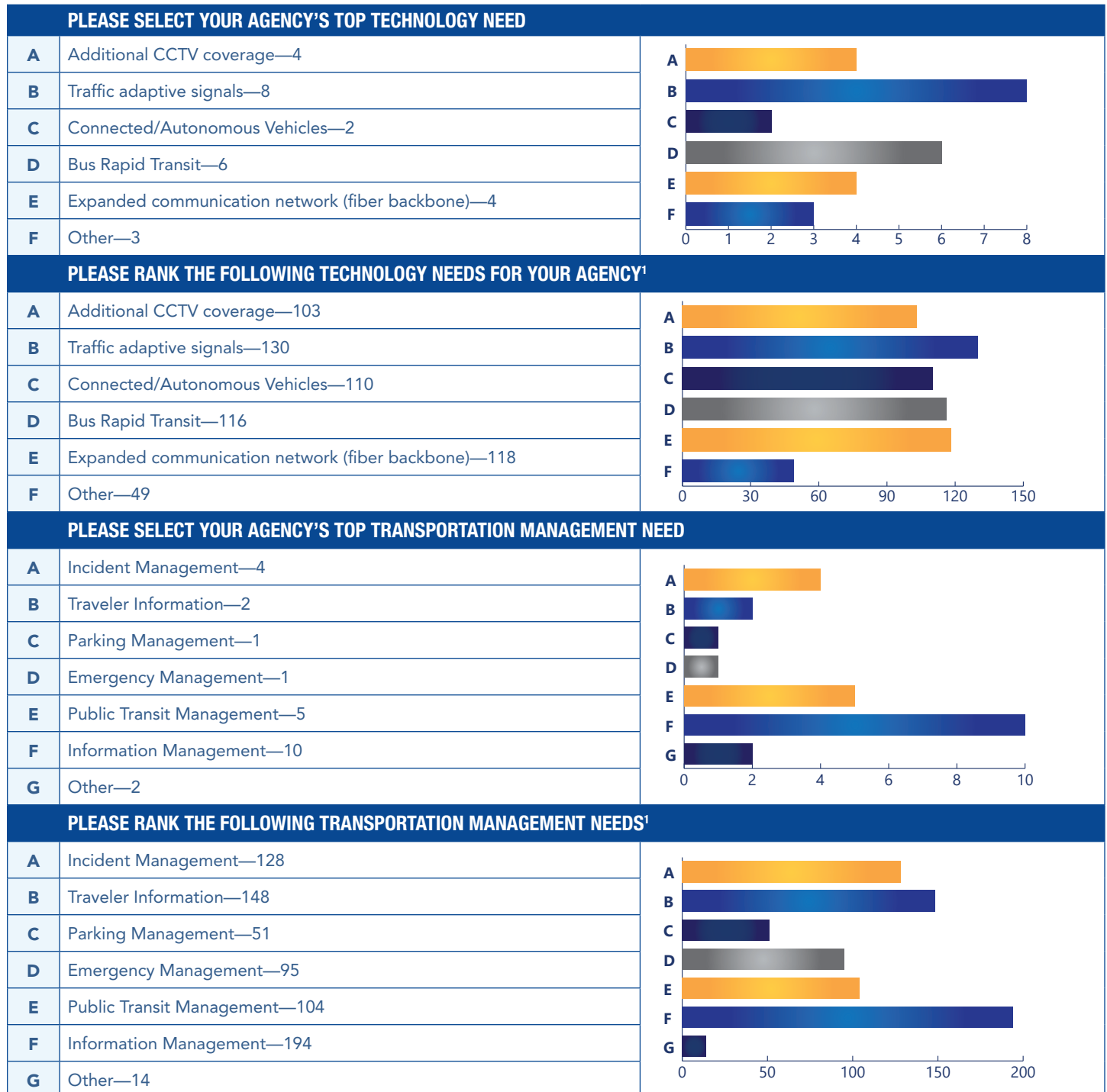
GOALS	OBJECTIVES	MEASURES
A: Maximize the performance, efficiency, and reliability of the multi-modal transportation system.	A1: Reduce system-wide delay and travel time for automobiles, commercial vehicles, and transit.	Improve travel time and reliability
		Increased trip options/choices by mode for travelers
		Reduction in vehicle hours of delay on the system per person per day
	A2: Reduce delay and travel time on selected corridors for automobiles, commercial vehicles, transit and bicycle/pedestrian facilities using TSM&O.	Identification of priority corridors
		Percentage of corridors managed or monitored
		Improve travel time reliability on corridors during peak hours
		Reduce delay duration during peak hours
		Increased person throughput (point A to point B)
	A3: Reduce vehicle delay from incidents by implementing incident response and special event traffic management programs.	Travel times and speeds
		Reduction in response and clearance times
	A4: Monitor the service life and time in service of ITS devices used in the transportation system in order to reduce costs.	ITS devices are monitored and evaluated on a scheduled basis
	A5: Conduct on-going research regarding future ITS technologies in order to "see" into the future as to what new ITS strategies and equipment are "around the corner".	Research is routinely conducted on new ITS technologies that takes into account capital equipment, staffing and resource needs
		Pricing information, including variable pricing, is routinely evaluated
B: Integrate information, communication, and technology to empower systems users to make informed choices.	B1: Improve the reliability and predictability of travel by monitoring the use of the transportation system and through the collection of pertinent data.	Conduct traffic counts in real-time for vehicles, transit, bicycles, and pedestrians
		Number and percentage of roadway miles under video surveillance and monitoring
		Identification of locations in need of real-time dynamic travel and delay information
	B2: Provide real-time dynamic travel time and delay information (suggested routes, dynamically updated) to users.	Reduction in percent of locations and transit routes in need of real-time dynamic traveler information
		Increase in percent of transit routes with real-time monitoring
		Increase in percent of motorists and transit users having access to real-time travel and delay information
		Delivery of traveler information by the private sector using information developed by the public sector
		Emergency responders have access to real-time travel and delay information
	B3: Improve tourist access and mobility through the use of specialized traveler information systems.	Number and nature of 5-1-1 calls
		Number of www511 visits
		Comments to Convention and Visitor Bureau
		Increased access to GPS and other commercial traveler information real-time data sources
	B4: Improve service for special traveler needs through the use of ITS applications.	Diversity of ITS services for special populations, pedestrians, cyclists, and students is readily available
		Expanded economic opportunity and socioeconomic mobility for underserved populations (i.e., Ladders of Opportunity)



GOALS	OBJECTIVES	MEASURES
B: Integrate information, communication, and technology to empower systems users to make informed choices.	B5: Enhance safe and efficient freight transport and delivery.	Research role and value of real-time parking information availability and truck reservation systems
		Promote responsible use of wireless inspection practices to streamline trucking operations
	B6: Promote and encourage interagency, interjurisdictional coordination and communications.	Development of regional interagency operational and communications plans and agreements (ITS regional architecture)
		Development of regional set of transportation management plans for planned major events that can be applied to planned events
		Development of list of potential ITS projects each agency could consider when developing their project priorities
		Development of detailed ITS strategies to reduce agency efforts in creating System Engineering (SE) documents
		Creation of incident response and special event Traffic Incident Management (TIM) team meetings and programs for event review and debriefing
	B7: Conduct annual surveys on customer service and seek feedback on system needs through newsletters, websites and other innovative techniques.	Development and evaluation of customer surveys and survey results
C: Enhance the safety and security of the transportation system.	C1: Improve safety and security of the transportation system through ITS strategies and investments.	Development of a business case for MPO Board members and other officials
		Convey to elected officials and the general public the roles and benefits of video surveillance in the everyday operation and maintenance of the transportation system
		Reduction in severity of vehicle crashes (fatalities, injuries and expenditures)
		Reduction in bicycle and pedestrian accidents
		Reduction in red light violations
		Reduction in speed limit violations
		Reduction in average response and clearance times for aggressive driving crashes, intersection crashes, vulnerable road user (bicycle and pedestrian) crashes, and lane departure crashes
		Reduction in evacuation clearance times during emergency events
D: Protect the environment and enhance the quality of life.	C2: Monitor crash records as it relates to infrastructure improvements to quantify the benefits.	Crash rate and severity data considered during ITS procurement
	C3: Support data sharing between transit agencies and law enforcement to ensure passenger safety and security.	Share video feeds and transit vehicle location data using ITS infrastructure
	D1: Improve air quality and reduce greenhouse gas emissions.	Reduction in per capita greenhouse gas emissions from mobile sources
	D2: Reduce fuel consumption by balancing traffic volumes across the transportation network.	Reduced fuel consumption per capita
	D3: Increase in estimated number of passengers per vehicle per mode.	Increase in vehicle occupancy rates
	D4: Implement Goal 4: Quality of Life in the MetroPlan Orlando 2040 Long Range Transportation Plan.	ITS contributes to the performance of the transportation system and supports the adopted regional growth vision including context-sensitive, pedestrian scale, and community enhancing design features



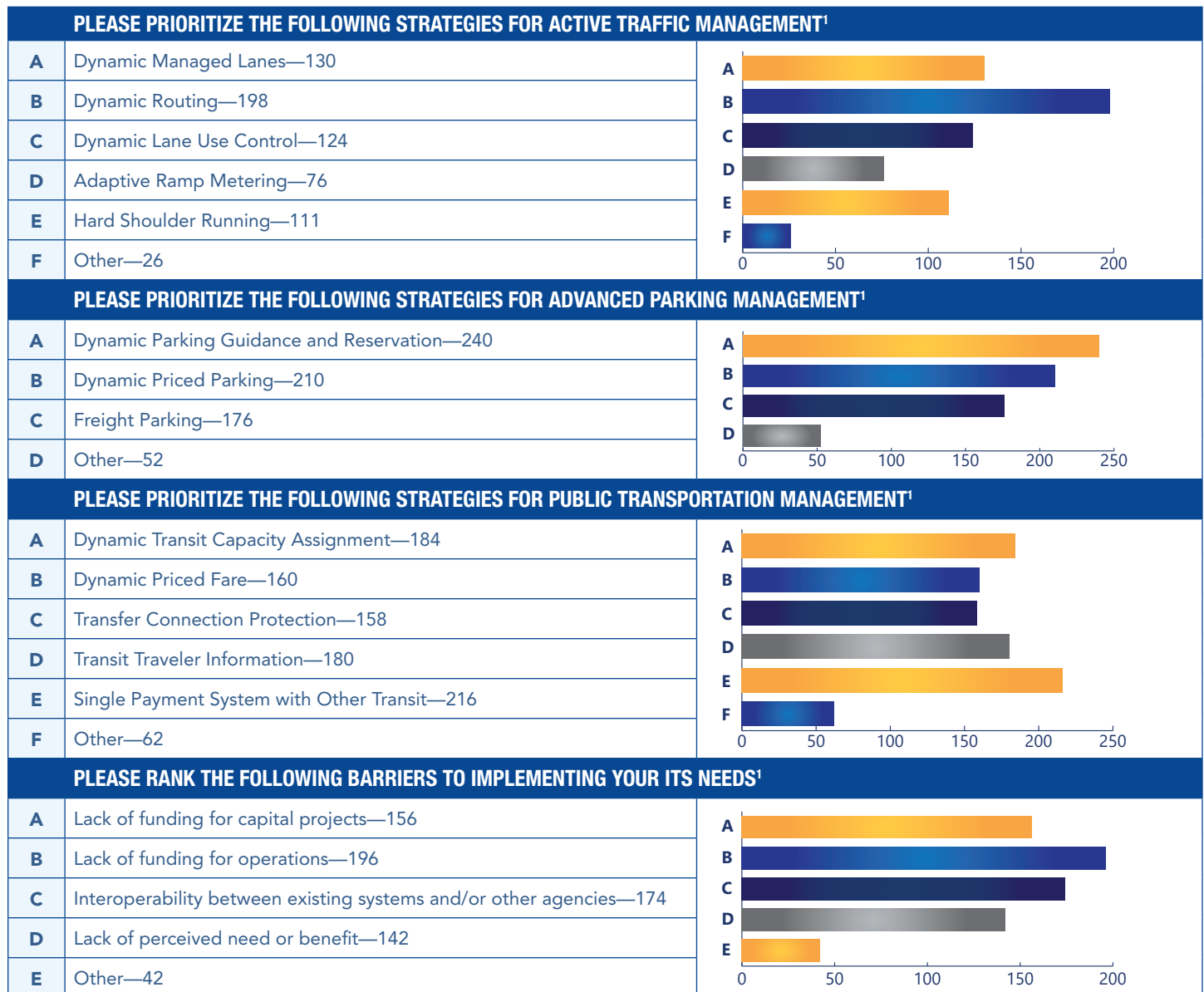
Following are polling results provided by stakeholder participants at the ITS Master Plan Workshop on July 22, 2016.



¹Responses for this polling item were weighted based upon each respondent's ranking (1st - 10 points, 2nd - 8 points, 3rd - 6 points, etc.).



Following are polling results provided by stakeholder participants at the ITS Master Plan Workshop on July 22, 2016.



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MetroPlan Orlando Intelligent Transportation Systems Master Plan

Prepared for:

MetroPlan Orlando
250 S. Orange Ave., Suite 200
Orlando, Florida 32801



Gannett Fleming

*Excellence Delivered **As Promised***



Kimley»Horn

Expect More. Experience Better.



EXECUTIVE SUMMARY

MetroPlan Orlando is the metropolitan planning organization for Orange, Osceola, and Seminole Counties and is responsible for the transportation planning process in the tri-county area. According to the *Tracking the Trends* report, the Orlando Metropolitan Area is the 26th most populated Metropolitan Statistical Area (MSA) in the country with 2 million residents and had 66 million visitors in 2015.

The Intelligent Transportation System (ITS) Master Plan will evaluate current systems in the MetroPlan Orlando Area, determine future needs, and outline future ITS projects to improve traffic flow. The purpose of the Master Plan is to propose a system that improves efficiency, reliability and safety of the region's multi-modal transportation system.

A series of Tasks were completed during the past 11 months that provided a deep understanding of the Stakeholders' goals, objectives, needs, and strategies. The Regional ITS Architecture (RITSA) was evaluated and the Concept of Operations was prepared as part of this document. The draft task reports were previously submitted for review and are included in this document as the various sections were completed.

- Section 1-Task 1: ITS Vision, Goals and Objectives
- Section 2-Task 2: Existing Conditions/Infrastructure/Inventory
- Section 3-Task 3: Needs Assessment
- Section 4-Task 4: Identification of Applicable ITS Strategies
- Section 5-Task 5: Regional ITS Architecture (RITSA)
- Section 6-Task 6: Concept of Operations

In addition to the tasks, two workshops were organized to include input from MetroPlan Orlando's Transportation Systems Management & Operations (TSM&O) Advisory Committee. The first workshop was used to establish a vision, goals, and objectives for the ITS Master Plan and to complete an inventory of existing ITS devices in the MetroPlan Orlando area. The second workshop was organized to discuss and develop needs and applicable strategies that were then used to develop the proposed projects for future deployment.

The ITS technologies currently applied in the MetroPlan Orlando area include Closed Circuit Television Cameras (CCTV) cameras, Dynamic Message Signs (DMS), Bluetooth readers, Microwave Vehicle Detectors (MVDS), Automatic Vehicle Identification (AVI) readers, Transit Signal Priority (TSP), Adaptive Traffic Signal Control (ATSC), fiber optic cable, and communications equipment. The existing devices per County are summarized in Section 2.

Sections 3 and 4 described the various stakeholder needs and applicable strategies to meet those needs. Section 5 reviewed the RITSA based on the information gathered and summarized in Sections 2, 3 and 4. Section 6, the Concept of Operations, then built upon all the previous sections and provides an overview of the project/system to be deployed, details about the current system, identification of desired changes, operational issues of the existing and proposed devices and system components, as well as the relationships and responsibilities of the various agencies.

Section 7 includes the ITS project scoring criteria and the ranking of future ITS projects. The future ITS projects were identified by matching the Stakeholder Survey results, the ITS strategies, needs, and goals with potential ITS and communications technologies addressing specific transportation, mobility, and safety-related issues within the MetroPlan Orlando area. All potential ITS projects identified in Section 7 were scored and ranked (prioritized) through the application of the methodology described in Section 7. One or more strategies may be included or addressed in one ITS project. In addition to the projects programmed in the Long Range Transportation Plan (LRTP), 34 potential ITS projects were identified. Each project also indicates the implementation timeline of 0 to 5 years or 6 to 10 years. The ITS Master Plan will serve as a guide for the development of future regional ITS projects.

Table 1: Timeframe for Implementation of Future ITS Projects

Priority Number/Project ID	Suggested Priority Number	Jurisdiction	Project Name	Segment	Work Description	ITS Project Score	Remaining Unfunded	Remaining Cost (Present-Day)	Implementation Priority
N1	1	Orange County Osceola County Seminole County	Active Arterial Management for US 17/92	US 192 to SR 46	Active Arterial Management for the number 1 most congested corridor in the MetroPlan Orlando. The US 441 ITS Deployment was identified in the RITSA as a future project.	73	CST	\$1,300,000 (Assuming 10 miles of FOC, 30 CCTVs, 10 Bluetooth readers, 4 ADMs, and 8 MVDs. Cost estimate will be revised after the exact elements and locations are identified)	0 to 5 years
N2	2	Orange County Seminole County Orlando	Active Arterial Management for SR 436/ Semoran Blvd	MCO to I-4	Active Arterial Management for one of the most congested corridor in the MetroPlan Orlando	73	CST	\$1,000,000 (Assuming 7 miles of FOC, 17 CCTVs, 5 Bluetooth readers, 3 ADMs, and 5 MVDs. Cost estimate will be revised after the exact elements and locations are identified)	0 to 5 years
N3	3	Orange County Osceola County	US 192 Adaptive Signal System Phase 2	Avalon Rd. to Columbia Ave.	Install an Adaptive Signal System. Identified as priority by Orange County.	64	CST	\$2,499,000	0 to 5 years
N4	4	Orange County Seminole County	SR 436/ Semoran Blvd Adaptive Signal System	SR 50 to Red Bug Lake Rd	Install an Adaptive Signal System. Identified as priority by Orange County.	62	CST	\$816,000	0 to 5 years
N5	5	Seminole County	CCTV Expansion	Countywide	Install CCTV at several Intersections. Expand CCTV coverage on county roads	60	CST	\$300,000 (Assuming 50 CCTV Cameras will be installed)	0 to 5 years
N6	6	Orange County	CCTV Expansion	Orange County	Install 100 CCTV Cameras. Identified as priority by Orange County.	60	CST	\$600,000	0 to 5 years
N7	7	Osceola County	Osceola Parkway Adaptive Signal System	Dyer Blvd to FTE	Adaptive signal system deployment. Identified as need from interviews	57	CST	\$612,000	0 to 5 years
6	8	Osceola County	Osceola County ATMS Phase 4	Osceola County	Expansion of ATMS and addition of Bluetooth readers	56	PE CST	\$220,000 \$2,263,700	0 to 5 years

TSM&O PPL, Ranked List

TSM&O PPL, Unranked ListTransit PPL, Category A, Ranked List

Priority Number/Project ID	Suggested Priority Number	Jurisdiction	Project Name	Segment	Work Description	ITS Project Score	Remaining Unfunded	Remaining Cost (Present-Day)	Implementation Priority
8	9	Orange County	Orange County ATMS Phase 4	Orange County	Expansion of ATMS	56	Design/Build	\$3,691,000	0 to 5 years
9	10	Seminole County	Seminole County ATMS	Seminole County	Expansion of ATMS	56	Design/Build	\$3,119,000	0 to 5 years
19	11	Kissimmee	City of Kissimmee ATMS Phase 1	City of Kissimmee	15 ATMS traffic signals	56	CST	\$200,000	0 to 5 years
34	12	Kissimmee	City of Kissimmee ATMS Phase 2	City of Kissimmee	Expansion of ATMS	56	CST	\$1,800,000	0 to 5 years
U16	13	Orlando	SR 436	Frontage Rd./TG Lee Blvd.	Replace Fiber Optic Cable	55	CST	\$336,000 (Assuming a cost of \$60,000/mile)	0 to 5 years
N8	14	Orange County	Signal Upgrades	Orange County	Upgrade 100 signal controllers to Siemens ATC with communication switches. Identified as priority by Orange County.	54	CST	\$3,100,000 (Assuming a cost of \$28,000 per controller+cabinet and \$3,000 per switch)	0 to 5 years
N9	15	Orange County	Signal Cabinet Upgrades	Orange County	Upgrade 20 signal cabinets with UPS cabinets. Identified as priority by Orange County.	54	CST	\$680,000 (Assuming a cost of \$28,000 per controller+cabinet and \$6,000 per UPS)	0 to 5 years
12	16	Orlando	Kirkman Rd.	Conroy Rd. to Old Winter Garden Rd.	Replace Fiber Optic Cable	53	CST	\$70,000	0 to 5 years
2	17	Orlando	CCTV Expansion Phase 1	City of Orlando	Install CCTV at 28 Intersections	52	CST	\$168,000	0 to 5 years
10	18	Orlando	CCTV Replacement Phase 1	City of Orlando	Replace CCTV at 15 Intersections	52	CST	\$60,000	0 to 5 years
11	19	Orlando	CCTV Expansion Phase 2	City of Orlando	Install CCTV at 31 Intersections	52	CST	\$194,000	0 to 5 years

TSM&O PPL, Ranked List

TSM&O PPL, Unranked List

Transit PPL, Category A, Ranked List

Transit PPL, Unranked List

Project identified in Stakeholders interviews, needs, and D5 RITSA

Priority Number/Project ID	Suggested Priority Number	Jurisdiction	Project Name	Segment	Work Description	ITS Project Score	Remaining Unfunded	Remaining Cost (Present-Day)	Implementation Priority
14	20	Orlando	CCTV Expansion Phase 3	City of Orlando	Install CCTV at 29 Intersection	52	CST	\$174,000	0 to 5 years
N10	21	Orange County	SR 50 Adaptive Signal System	Forsyth Rd. to Avalon Park Blvd.	Install an Adaptive Signal System. Identified as priority by Orange County.	52	CST	\$1,122,000	0 to 5 years
U10	22	Orlando	CCTV Replacement Phase 2	City of Orlando	Replace CCTV at 15 Intersections	51	CST	\$60,000	0 to 5 years
U11	23	Orlando	CCTV Replacement Phase 3	City of Orlando	Replace CCTV at 15 Intersections	51	CST	\$60,000	0 to 5 years
N11	24	Orange County	Bluetooth Expansion	Orange County	Install 200 Bluetooth readers. Identified as a priority by Orange County.	50	CST	\$1,880,000	0 to 5 years
N12	25	LYNX	Intelligent Transportation Systems/Customer Information Systems/Travel Planning	Region wide	Test upcoming transit technologies and real time transit dissemination applications	49	CST	\$500,000 *	0 to 5 years
N13	26	Orlando	Downtown DMS Expansion and Upgrade	Downtown Orlando	Expansion and Upgrade Downtown DMS. Identified as need from interviews	47	CST	\$ 410,000 (Assuming 5 arterial DMSs at \$82,000 each)	0 to 5 years
N14	27	Orange County	US 441 Bicycle and Pedestrian Innovative ITS Solution	Holden Avenue and I-4	Install bicycle and pedestrian ITS technologies. This corridor had the highest number of crashes in the region in 2015.	45	CST	\$100,000 *	0 to 5 years
N15	28	Osceola County	Osceola County ATMS Phase 5	Osceola County. Includes Osceola Parkway from I-4 to Dyer Blvd	Expansion of ATMS. Identified in the interviews	44	CST	\$5,000,000 *	0 to 5 years

TSM&O PPL, Ranked List

 TSM&O PPL, Unranked List Transit PPL, Category A, Ranked List

Priority Number/Project ID	Suggested Priority Number	Jurisdiction	Project Name	Segment	Work Description	ITS Project Score	Remaining Unfunded	Remaining Cost (Present-Day)	Implementation Priority
N16	29	Orlando and Orange County	Smart Corridor	World Center Dr to Oak Ridge Rd	International Drive	44	CST	\$1,000,000 *	0 to 5 years
N17	30	Orlando	Conroy Rd Adaptive Signal System (Mall at the Millennia)	South John Young Parkway to Vineland Rd	Adaptive signal system deployment. Identified as need from interviews	41	CST	\$357,000	0 to 5 years
N18	31	Winter Park	Fairbank Avenue Fiber Optic extension	Clay St. to I-4	Fiber Optic Extension. Identified as a need from the interviews	41	CST	\$30,000 (Assuming a cost of \$60,000/mile)	0 to 5 years
N19	32	Orlando	Princeton Street Adaptive Signal System	Formosa Ave to Alden Rd	Adaptive signal system deployment. Identified as need from interviews	41	CST	\$255,000	0 to 5 years
T6	33	Altamonte Springs, Casselberry, Longwood, Maintland	ITS Enhanced Transit	Region wide (4-city service area)	Expansion of ITS enhanced transit service within the 4-city service area	41	CST	\$500,000 *	0 to 5 years
N20	34	Orange County	Pine Hills Rd - Bicycle and Pedestrian Innovative ITS Solution	Limits to be defined	Install bicycle and pedestrian ITS technologies. This corridor was identified by Orange County as an important corridor for pedestrian safety	40	Study & CST	\$100,000 *	6 or more years
UT5	35	LYNX	Intelligent Transportation Systems/Customer Information Systems/Travel Planning	Region wide	Regional Transit Priority from LRTP	40	CST	\$3,250,000	0 to 5 years

TSM&O PPL, Ranked List

TSM&O PPL, Unranked List

Transit PPL, Category A, Ranked List

Transit PPL, Unranked List

Project identified in Stakeholders interviews, needs, and D5 RITSA

Priority Number/Project ID	Suggested Priority Number	Jurisdiction	Project Name	Segment	Work Description	ITS Project Score	Remaining Unfunded	Remaining Cost (Present-Day)	Implementation Priority
N21	36	Orange County	John Young Pkwy Adaptive Signal System	Sand Lake Rd. to Hunters Creek Blvd.	Install an Adaptive Signal System. Identified as priority by Orange County.	39	CST	\$969,000	0 to 5 years
33	37	Orlando	Fiber Optic Extension Dowden Rd	Narcoossee Rd. to SR 417	Extend RCSS to Randal Park, SR 417, & Innovation Way	38	CST	\$250,000	0 to 5 years
U17	38	Orlando	Install Fiber Optic Cable Dowden Rd.	Lake District Ln./ Randal Park Blvd.	Install Fiber Optic Cable	37	CST	\$114,000 (Assuming a cost of \$60,000/mile)	0 to 5 years
N22	39	Orlando	Travel Time System	Orlando	Install additional Bluetooth readers and use DMS to post Travel Times to/from downtown to I-Drive. Identified as need from interviews	35	CST	\$94,000 (Assuming 10 Bluetooth readers, \$9,400 each)	0 to 5 years
N23	40	Orlando	Narcoossee Rd Adaptive Signal System	Goldenrod Rd to SR 528	Adaptive signal system deployment. Identified as need from interviews	34	CST	\$357,000	0 to 5 years
16	41	Orlando	Hiawassee Rd.	Mardell Ct. to Kirkman Rd. & Metrowest Blvd.	Replace Fiber Optic Cable	33	CST	\$100,000	0 to 5 years
N24	42	Orange County Orlando	International Drive - Bicycle and Pedestrian Innovative ITS Solution	Limits to be defined	Install bicycle and pedestrian ITS technologies. This corridor was identified by Orange County as an important corridor for pedestrian safety	33	Study & CST	\$100,000 *	6 or more years
N25	43	Osceola County	Osceola County ATMS Phase 6	Osceola County. Includes the City of St. Cloud, Nolte Rd, and Old Canoe Creek Rd.	Expansion of ATMS. Identified in the interviews	31	CST	\$5,000,000 *	6 or more years
N26	44	Orlando	Lake Nona Blvd Adaptive Signal System	Boggy Creek Rd to SR 417	Adaptive signal system deployment. Identified as need from interviews	31	CST	\$306,000	0 to 5 years

TSM&O PPL, Ranked List

TSM&O PPL, Unranked List

Transit PPL, Category A, Ranked List

Transit PPL, Unranked List

Project identified in Stakeholders interviews, needs, and D5 RITSA

Priority Number/Project ID	Suggested Priority Number	Jurisdiction	Project Name	Segment	Work Description	ITS Project Score	Remaining Unfunded	Remaining Cost (Present-Day)	Implementation Priority
N27	45	Orlando	Universal Blvd Adaptive Signal System	International Dr to Vineland Rd	Adaptive signal system deployment. Identified as need from interviews	31	CST	\$459,000	0 to 5 years
N28	46	Orange County Osceola County Seminole County Orlando	Connected Vehicle Pilot Project	Region wide. Exact location to be decided	Test connected vehicle strategies	30	Study & CST	\$1,000,000 *	6 or more years
N29	47	Orange County	UCF- Bicycle and Pedestrian Innovative ITS Solution	Limits to be defined	Install bicycle and pedestrian ITS technologies. This corridor was identified by Orange County as an important corridor for pedestrian safety	30	Study & CST	\$100,000 *	6 or more years
N30	48	Osceola County	Poinciana Parkway Adaptive Signal System	US 17 to Cypress Pkwy	Adaptive signal system deployment. Identified as need from interviews	29	CST	\$51,000	0 to 5 years
N31	49	Orange County Osceola County Seminole County Orlando	Data Sharing Application	Region wide	Access real-time information from other agencies in the region. As part of this effort, the system should include a dashboard with performance measures, and tools that help agencies to measure performance and communicate information.	22	CST	\$100,000 *	0 to 5 years
N32	50	Seminole County	Signal Phase and Timing (SPaT) Services	Limits to be defined	Test a corridor in the region for the development of Traveler Information Systems	18	Study & CST	\$1,000,000 (Assuming 20 intersections at \$50,000 per intersection)	6 or more years
N33	51	Orlando	City of Orlando Parking Management	Orlando	This project would create a parking management system for the City of Orlando. Identified in the RITSA as a future project. Identified as need from interviews	17	Study	\$100,000.00	0 to 5 years

TSM&O PPL, Ranked List

TSM&O PPL, Unranked List

Transit PPL, Category A, Ranked List

Transit PPL, Unranked List

Project identified in Stakeholders interviews, needs, and D5 RITSA

Priority Number/Project ID	Suggested Priority Number	Jurisdiction	Project Name	Segment	Work Description	ITS Project Score	Remaining Unfunded	Remaining Cost (Present-Day)	Implementation Priority
N34	52	Orlando	TMC and Sunrail Coordination	Orlando	Automatic emergency/maintenance notification. Identified as need from interviews	17	CST	\$100,000 *	0 to 5 years
1	53	CFX	Laser Scan	Region wide	Purchase 3D Laser Scanners Traffic Homicide Investigations	15	CST	\$122,000.00	0 to 5 years
15	54	Orlando	Cyber Lock System	City of Orlando	Install Cyber Locks in Traffic Signals & Communication Hub Cabinets	14	CST	\$268,500 (Assuming \$500 each x 537 cabinets)	0 to 5 years

TSM&O PPL, Ranked List

TSM&O PPL, Unranked ListTransit PPL, Category A, Ranked List

*Cost estimate will be revised after the exact elements and locations are identified

TAB 5





Florida Department of Transportation

**RICK SCOTT
GOVERNOR**

605 Suwannee Street
Tallahassee, FL 32399-0450

**RACHEL D. CONE
INTERIM SECRETARY**

April 10, 2017

Mr. Harold W. Barley
Executive Director
MetroPlan Orlando MPO
250 South Orange Avenue
Suite 200
Orlando, Florida 32801

RE: Third Quarter Variance Report (January 2017 – March 2017)

Dear Mr. Barley:

Thank you for your inquiry of the third quarter variance report for the period of January 2017 through March 2017. After running the Department's Variance Report and reviewing the information I would like to inform you that there have been no significant changes that meet the criteria that MetroPlan Orlando has requested the Department to report.

As always, we appreciate all the opportunities that we get to work with MetroPlan Orlando staff and if you should have any additional questions or concerns please do not hesitate to contact me at 386-943-5427.

Sincerely,

Kellie Smith
Government Liaison Administrator

cc: Gary Huttman, Deputy Executive Director, MetroPlan Orlando
Keith Caskey, Manager of Planning Services, MetroPlan Orlando

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Time and Money Updated: 4/7/2017					PA/PO Notes		UPDATED: 4/7/2017		
6	Finproj Number		404418-2-52-01 & 404418-3-G2-01			Establishment Period Start June 16, 2016			
	Contract Number		E5W91						
	Contract Location		Landscaping - SR 15/600 (US 17/92) Interchange at SR 436						
	Contractor Name		LAFLEUR NURSERIES AND GARDEN CENTER LLC						
	Letting		8/4/2015		Work Begin		11/9/2015		
	Awarded		8/24/2015		Time Begin		11/9/2015		
	Execution		9/16/2015		Original Estimated Completion		7/15/2018		
	Notice to Proceed		10/14/2015		Adjusted Estimated Completion		8/4/2018		
	<u>Contract Days Progress</u>				<u>Contract Dollars Progress</u>				
	Original Days		980		Original Amount		\$648,777.10		
	Days Used as of Today		378		Estimate Paid to Date		\$550,760.55		
	Present Days		1,000		Present Amount		\$653,177.10		
	Contract Day		515 of 1,000		% Amount Used to Present		84.32%		
	% Used		37.80%		Remaining Overrun Funds		\$0.00		
						Table Below UPDATED:		4/7/2017	
Resident Engineer (FDOT)		Name		Contact Information		Phone		Email	
Construction Project Manager		Navarro, Kim		407-482-7829		407-482-7829		kim.navarro@dot.state.fl.us	
Project Adminsitrator		Navarro, Kim		407-482-7829		407-482-7829		kim.navarro@dot.state.fl.us	
Contract Support Specialist (CSS)		Thorn, Jennifer		-		-		-	
Go to CIM									
NOTES									

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What is TransitScreen?

- TransitScreen provides real-time displays of transportation options at locations that are convenient and accessible to current and potential transit riders.
- Launched in 2013 from a civic technology project at Mobility Lab in Arlington, VA, TransitScreen is focused on urban mobility solutions.

Why TransitScreen?

- Presenting information about transit options in a relevant, easy-to-understand format is an important first step to create measurable mode shift.
- TransitScreen provides an affordable, subscription service and has successfully provided this type of service throughout the U.S.

Why MetroPlan Orlando?

- MetroPlan Orlando's office location is a perfect location for the first TransitScreen in Downtown Orlando thanks to the frequency of public meetings and the large number of decision-makers and other "influencers" who visit the office.
- In addition, MetroPlan Orlando has expressed an interest in decreasing the number of meeting attendees that drive to their office. We hope to encourage mode shift by displaying how well-served the office is by transit.

What is featured on the TransitScreen?

- Scheduled arrival times of SunRail and LYNX routes are featured on the left side of the TransitScreen. The train and local bus times are *not* real-time arrival times.
- Real-time arrival times of LYMMO, the Downtown Orlando fare-free circulator, are featured on the right side.
- Real-time availability of bikes at the closest Juice Bike stations is featured at the bottom of the left panel.
- Real-time availability of the closest Zipcar, located in the City of Orlando parking garage, is at the bottom of the right panel.

Why not just tell people to find the information for themselves on their smart phones?

- Without a doubt, the smart phone has enhanced people's ability to quickly and easily consume information. *But these apps are typically used by people who know what they are looking for.*
- TransitScreen is a way to get transit information directly to people who don't know how many transportation options are available.

Who is paying for the TransitScreen in MetroPlan Orlando's office?

- reThink Your Commute, a program of the Florida Department of Transportation, is sponsoring the MetroPlan Orlando TransitScreen for one year as a pilot program.

How can a visitor to the MetroPlan Orlando office use the TransitScreen?

- The information on the TransitScreen helps you see transportation options beyond your personal vehicle.
- With information on transit times and the closest carshare or bikeshare, you may decide to try a different way of traveling – if not on this trip, perhaps a future one.

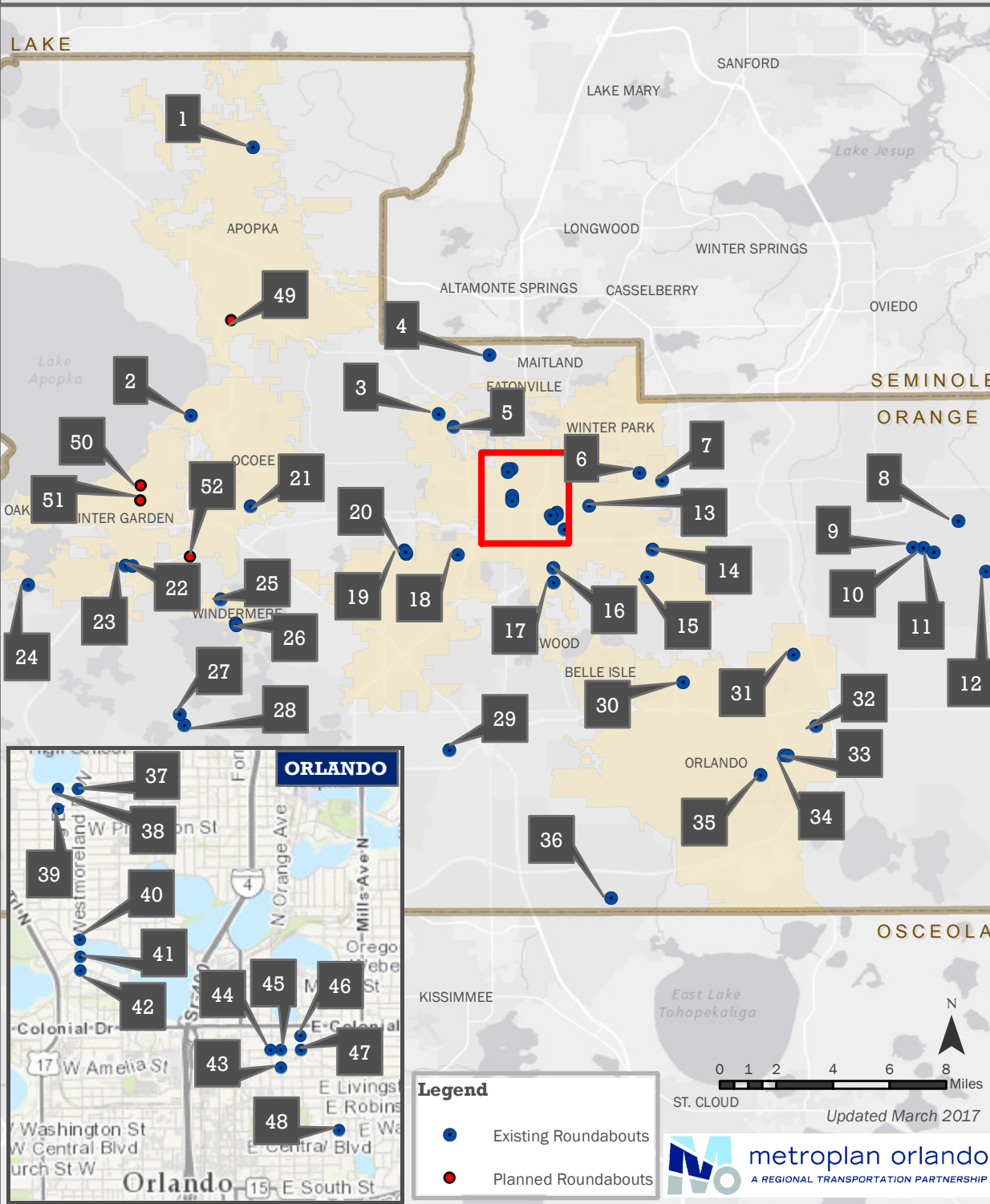
Orange County Roundabouts: Existing and Planned

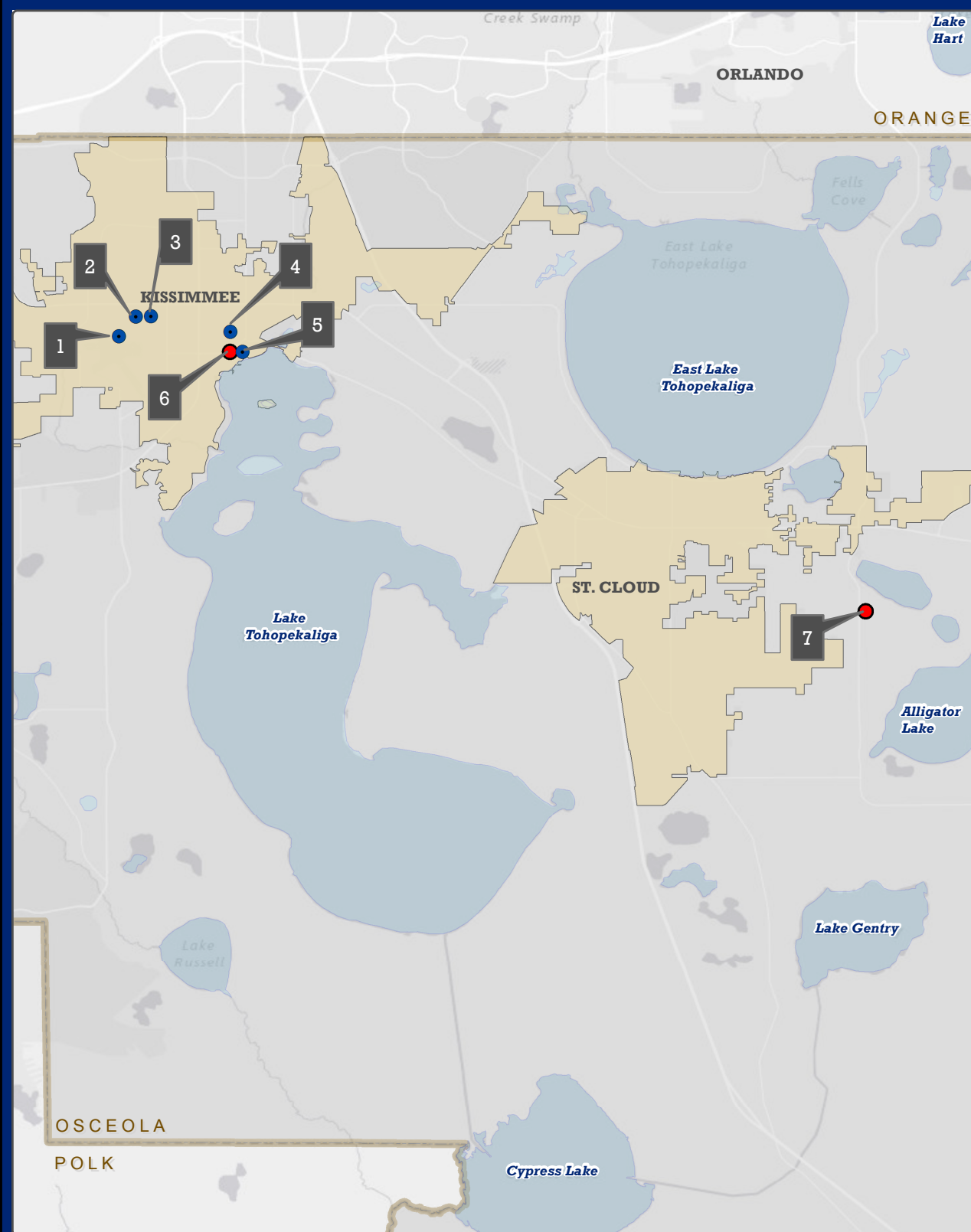
Existing Roundabouts - Orange County

- 1 : Rock Ridge Blvd. at Calcedonia Ave.
- 2 : Ocoee - Crown Point Rd. east of Ocoee-Apopka Rd.
- 3 : Cinderlane Pkwy. at N. Orlando Pkwy.
- 4 : Pembroke Dr. at Maitland Summit Blvd.
- 5 : S. Lake Orlando Pkwy. at Lake Breeze Dr.
- 6 : Lakemont Ave. at Upper Park Rd.
- 7 : Reefpoint Dr. at Starboard St.
- 8 : Waterford Chase Pkwy. at Belhaven Dr.
- 9 : Rockafellow Way at Sandhill Crane Run
- 10 : Downpatrick Blvd. at Waterhouse Way
- 11 : Golfway Blvd. at Cavan Ln.
- 12 : Avalon Park Blvd. at Golden Rain Tree Blvd.
- 13 : Garden Plaza at Illinois St.
- 14 : Stoney Creek Ct. at Barcelona St.
- 15 : Gaston Foster Rd. at Brenda Dr.
- 16 : Delaney Ave. at E. Miller St.
- 17 : Delaney Ave. at E. Grant St.
- 18 : Wooden Blvd. at Hankins Cir.
- 19 : Lobelia Dr. at Vista Lago Dr.
- 20 : Palmera St. at Lobelia Dr.
- 21 : Montgomery Rd. between Blackwood Ave. & White Rd.
- 22 : Fowler Grove Blvd. at Sembler way
- 23 : Winter Garden Vineland Rd. at Fowler Grove Blvd.
- 24 : Marsh Road at Waterside
- 25 : Park Ave at Maguire Rd.
- 26 : 2 roundabouts on Main St. (at 5th Ave. and 6th Ave.)
- 27 : Village Lake Road at Lakeside Village Lane
- 28 : Reams Road at Silverlake Park Dr
- 29 : Southpark Center Loop at Challen Ct.
- 30 : Eagle Watch Dr. at Butler National Dr.
- 31 : Crowntree Apartments at Crowntree Ln.
- 32 : Randal Park Blvd. at DeHaven St.
- 33 : Silver Buttonwood St. at Strongbark Ln.
- 34 : Sweet Maple Ave. at Strongbark Ln.
- 35 : Lake Nona Shores Dr./ Farthington Way at Lexham Gardens Dr.
- 36 : Wyndham Lakes Blvd. at Atherton Dr.
- 37 : N. Westmoreland Dr. at Bryn Mawr St.
- 38 : Reading Dr. at Bryn Mawr St.
- 39 : Reading Dr. at Vassar St.
- 40 : N. Westmoreland Dr. at Lake Adair Blvd.
- 41 : Lake Adair Blvd. at Overbrook Dr.
- 42 : N. Westmoreland Dr. at Seville Pl.
- 43 : Broadway Ave. at E. Amelia St.
- 44 : Highland Ave. at E. Concord St.
- 45 : Broadway Ave. at E. Concord St.
- 46 : Cathcart Ave. at Hillcrest St.
- 47 : Cathcart Ave. at E. Concord St.
- 48 : N. Hyer Ave. at E. Washington St.

Planned Roundabouts - Orange County

- 49 : Ocoee- Apopka Rd. at Harmon Rd,
- 50 : Plant St. at Dillard St.
- 51 : Story Rd. at Dillard St.
- 52 : Stoneybrook West Pkwy. at Windermere Rd.





Osceola County Roundabouts: Existing and Planned

Existing Roundabouts - Osceola County

- 1 : Martin Luther King Blvd. at Dyer Ave.
- 2 : Oak St. at George St.
- 3 : Oak St. at Phillip St.
- 4 : Martin Luther King Blvd. at Neptune Rd.
- 5 : Monument Ave. at Dakin Ave.

Planned Roundabouts - Osceola County

- 6 : Broadway at Ruby Ave.
- 7 : Nolte Rd. Extension east of Hickory Tree Road

Legend

- Existing Roundabouts
- Planned Roundabouts

N



0 0.5 1 2 3 4 Miles

Seminole County Roundabouts: Existing and Planned

Existing Roundabouts - Seminole County

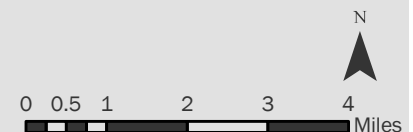
- 1 : Park Ave. at Seminole Blvd.
- 2 : Park Ave. at 9th St.
- 3 : Country Club Cir. at Country Club Dr.
- 4 : Anderson Cir. at Country Club Dr.
- 5 : Timacuan Blvd. at Mohegan Blvd.
- 6 : Crescent Executive Ct. west of Primera Blvd.
- 7 : Triplet Lake Dr. at Melody Ln./Jackson Ct.
- 8 : Triplet Lake Dr. at Quail Pond Cir. (being replaced with stop-controlled intersection)
- 9 : Sausalito Blvd. at San Tomas Dr.
- 10 : Sausalito Blvd. at Kantor Blvd./San Leandro Dr.
- 11 : Bear Gully Rd. at Old Castle Dr./ Mellow Palm Way
- 12 : Oviedo Blvd. between Mitchell Hammock Rd. & CR 419
- 13 : Oviedo Blvd./N.Division St. at Geneva Ave./E.Franklin St.

Planned Roundabouts - Seminole County

- 14 : Wekiva Pkwy. at Osprey Hammock Trail
- 15 : Wekiva Pkwy. at Yankee Lake Road
- 16 : Wekiva Pkwy. at Lake Markham Road
- 17 : Wekiva Pkwy. at Glade View Drive
- 18 : US 17/92 at Upsala Rd.
- 19 : US 17/92 at Zoo Entrance Rd.
- 20 : US 17/92 at Walnut Crest Run
- 21 : US 17/92 at Oak Dr.
- 22 : US 17/92 at N French Ave.
- 23 : Central Winds Pkwy. at Orange Ave.
- 24 : 3 roundabouts in new Greenville Subdivision
- 25 : Triplet Lake Dr. in front of Casselberry City Hall

Legend

- Existing Roundabouts
- Planned Roundabouts



Board Meeting Highlights – March 8, 2017

- **Chairman's Announcements:** Commissioner Bob Dallari opened the meeting at 9:00 a.m. and welcomed everyone. Commissioner VanderLey led the Pledge of Allegiance. Commissioner Dallari thanked Second Harvest Food Bank for hosting the meeting and introduced Mr. Greg Higgerson who spoke briefly about Second Harvest's operations. Commissioner Dallari called attention to a productive recent meeting with Congresswoman Stephanie Murphy that he and Mr. Barley attended. Commissioner Clarke reported on the February 9, 2017 TDLCB meeting. Mayor Dyer gave a report on the February 23, 2017 Commuter Rail Commission meeting.
- **MetroPlan Orlando Executive Director's Announcements:** Mr. Harry Barley thanked Second Harvest for hosting the meeting. He welcomed Commissioner Jim Fisher in attendance for Mayor Alvarez and guests Ms. Emiko Atherton and Ms. Erica Young, Smart Growth America, Ms. Lisa Portelli, Winter Park Health Foundation, and Mr. Kyle Thorp, Aide to Congresswoman Murphy. Mr. Barley reported that signage issues at the I-95/I-4 interchange in Daytona Beach and the south exit from Orlando International Airport, which were called attention to at the February Board meeting, were being addressed by the respective agencies. He called attention to a letter from Mayor Dyer to Governor Scott that was included in the supplemental folders, asking the Governor to look at readdressing negotiations on the sale of sections of SR 417, SR 528, and SR 429.
- **Agenda Review:** Mr. Barley reported that Mayor Jacobs was ill and unable to attend. He requested that Consent Agenda item VIII.G., which Mayor Jacobs had requested at the February meeting, be deferred to the next meeting when she would be able to attend. Board members agreed to defer Consent Agenda Item VIII.G.
- **Public Comments:** None
- Unanimously **Approved** Consent Items: A-F and H. Consent Agenda item VIII.G. was deferred.
- **Other Business: Roundabouts** (Mr. Chris Cairns), **Florida Transportation Plan/FDOT Complete Streets Policy** (Mr. David Cooke), **Central Florida Complete Streets Report** (Ms. Emiko Atherton), **Trends in Pedestrian, Bicycle and Motorist Behaviors** (Mr. Mighk Wilson), **Automated Vehicle Proving Grounds and What it Means for Central Florida** (Mr. Charles Ramdatt), and **SunTrax Program** (Mr. Mike Shannon)
- **Public Comments:**
Ms. Joanne Counelis expressed the need for 24 hour bus and train service seven days a week.

Mr. David Bottomley called attention to collaborative planning efforts being conducted in Hillsborough County.
- **Next Board Meeting – May 10, 2017 at MetroPlan Orlando**