



City of Oviedo

Year 2025 Transportation Master Plan Update

Mitchell Hammock Road and Lockwood Boulevard



August 2017



City of Oviedo

Year 2025 Transportation Master Plan Update

Prepared for:

City of Oviedo
Public Works Department
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August 2017

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1. Introduction

The 2025 Oviedo Transportation Master Plan, approved in 2009, provided a long range transportation strategy to meet future multi-modal needs of the City. The plan included new roadway capacity, network connections, bicycle and pedestrian projects, transit and transportation system management projects packaged in five year program increments. The City has successfully implemented many of the Master Plan recommendations and has continued to grow with new residential and commercial development projects particularly within the Downtown Core and Oviedo on the Park. The Master Plan requires periodic updates to respond to changing opportunities and economic conditions. While the previous plan placed emphasis on establishing a long range vision for the City, the proposed update focuses on near term mobility strategies and improvements that will be used in the development and refinement of transportation capital improvements within the Downtown Core and along Lockwood Boulevard over the next ten years.

Building from the 2009 Plan, a baseline list of projects was identified by reviewing the unfunded projects from the current plan and merging these with the planned and programmed projects from partner agencies (Seminole County, FDOT District 5, LYNX, and MetroPlan Orlando). Partner agency priorities are included on the baseline list to ensure consistency with the region's initiatives.

1.1. Identification of New Projects

The primary purpose of this update is to identify short-term vehicle mobility projects along Mitchell Hammock Road and Lockwood Boulevard to proactively address the impending traffic congestion anticipated to be created by Oviedo on the Park at full build out. Unofficially referred to as the "New Downtown", the mixed-use development is anticipated to generate around 20,000 trips per day with primary access on Mitchell Hammock Road. It officially broke ground in 2013 with the construction of some apartments and a quick serve restaurant.

In addition to the vehicle mobility projects along Mitchell Hammock Road and Lockwood Boulevard, the identification of new projects also includes planning level / connection type roadway projects around the City as well as projects to address other modes of transportation such as bicycle / pedestrian traffic.

2. Existing Condition Analysis

The study area, and transportation network, for the City of Oviedo Transportation Master Plan Update remained consistent with the 2009 Plan. This update includes an updated analysis of the existing roadway conditions within the study area for the purpose of analyzing existing conditions to determine the current operating conditions of the transportation network. This effort identifies those facilities in need of more immediate improvement and are reported based on the P.M. peak hour level of service (LOS) for roadway segments.

As part of the updated existing conditions analysis, committed capacity improvements from partner agencies were added to the existing roadway network prior to conducting the analysis. Committed improvements are defined as having funding identified within the next three years from the current (existing conditions) year. Two improvements were incorporated into the existing conditions roadway analysis as summarized in Table 2.1.

Table 2.1 - Committed Capacity Improvements

Roadway	Description	Year	Agency
SR 434 from Smith St. to W. Franklin St.	Widening, sidewalks, bike lanes	2017	Seminole County #00205202
SR 434 from Smith St. to Franklin St.	Add lanes and reconstruct	2016	FDOT Ph. 1 widening

2.1. Traffic Data Collection

No original data was collected as part of this update. The existing conditions analysis used available roadway traffic counts from Seminole County (2014) and the Florida Department of Transportation (2013).

2.2. Existing Level of Service (LOS) Analysis

Existing roadway level of service (LOS) was analyzed using the City's Transportation Concurrency Matrix Spreadsheet (TCMS), updated traffic counts provided by Seminole County and the FDOT, and updated committed project trips provided by the City. Level of service is a qualitative measure of operational conditions of a transportation facility in terms of travel time, speed, delay, freedom to maneuver within traffic stream, comfort, convenience, safety, etc. as perceived by motorists. Levels of service are given letter designations from A to F, with LOS A representing optimal free-flow conditions and LOS F representing forced-flow or breakdown conditions.

The City of Oviedo has adopted LOS standards for roadways within its jurisdiction. These standards, adopted as part of the 2010 Comprehensive Plan, are the measure of the minimum acceptable operating conditions for the roadways in the City. The adopted LOS standards were also used as the minimum acceptable conditions for roadways in this analysis. Where the minimum standard could not be achieved, the roadway was deemed deficient and flagged for potential improvements.

The peak-hour, peak-direction capacity service volumes used in the existing LOS analysis are based upon the capacities developed for the City's TCMS. No additional segments outside of the City's TCMS were analyzed for this update of the Transportation Master Plan.

Data was obtained from the annual Seminole County traffic counts (2014) and the results are reported in Table 2.2. Table 2.2 summarizes the existing LOS of 42 roadway segments within the study area along with their adopted LOS standard. Peak-hour, peak-direction volumes on study area roadway segments have been compared to the capacities associated with the adopted LOS standards in the adopted 2010 Comprehensive Plan in order to find their current level of service. Table 2.2 shows that most of the existing roadway segments are operating within acceptable standards. The following roadway segments were found to be deficient:

- CR 419 between Reed Road and Lockwood Boulevard
- SR 434 between Magnolia Street and SR 417
- McCulloch Road between Lockwood Boulevard and Old Lockwood Boulevard

Although McCulloch Road is not located within the City limits, it will still have an impact on future development within the area.

Table 2.2 - Existing Roadway Level of Service

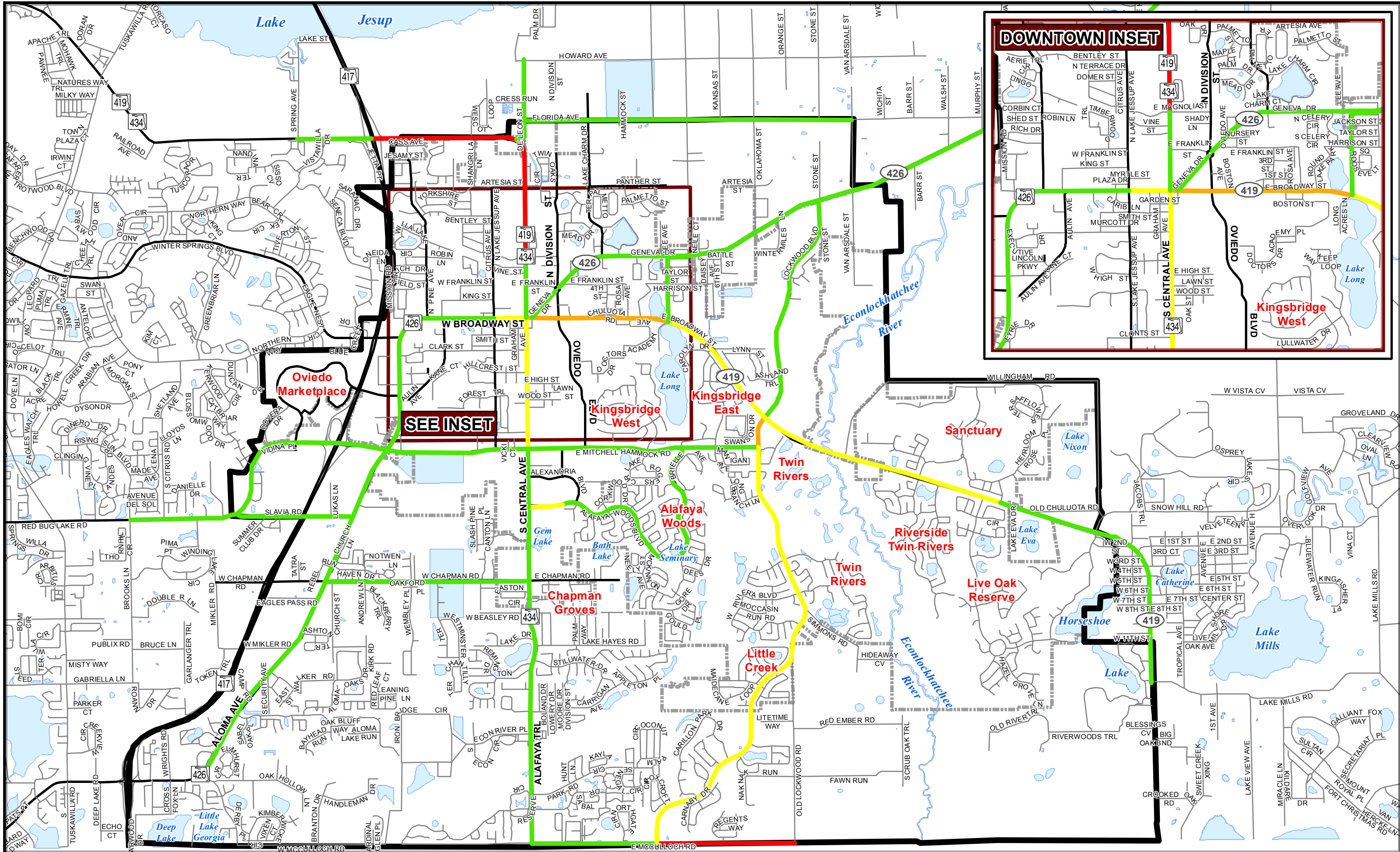
Roadway / Segment	Jurisdiction	Number of Lanes	Adopted LOS	Peak Hour Peak Dir. Capacity	2014 E+C Conditions	
					PM Peak Hour Peak Direction	LOS
Alafaya Woods Blvd.						
Between Central Ave (SR 434) & Alexandria Blvd	Oviedo	4	D	1,630	854	D
Between Alexandria Blvd & Mitchell Hammock Rd	Oviedo	4	D	1,630	423	C
W Broadway St (SR 426)						
Between Dean Rd & Chapman Rd	FDOT	4	D	2,000	1,517	C
Between Chapman Rd & Mitchell Hammock Rd	FDOT	4	E	2,300	1,378	C
Between Mitchell Hammock Rd & Pine Ave	FDOT	4	E	2,300	1,203	C
Between Pine Ave & Lake Jessup Ave	FDOT	2	E	1,012	866	C
Between Lake Jessup Ave & Central Ave (SR 434)	FDOT	2	E	1,040	771	D
E Broadway St (CR 419)						
Between Central Ave (SR 434) & Reed Rd	Sem. Co.	2	E	1,040	1,012	E
Between Reed Rd & Lockwood Blvd	Sem. Co.	2	E	1,012	986	D
Between Lockwood Blvd & Madrin Orange Way	Sem. Co.	4	D	2,000	1,971	D
Between Madrin Orange Way & Snow Hill Rd	Sem. Co.	4	D	2,000	1,237	C
Between Snow Hill Rd & Lake Mills Rd	Sem. Co.	2	D	880	661	C
Central Ave (SR 434)						
Between McCulloch Rd & Chapman Rd	FDOT	6	D	3,020	2,586	C
Between Chapman Rd & Alafaya Woods Blvd	FDOT	6	E	3,473	2,324	C
Between Alafaya Woods Blvd & Mitchell Hammock Rd	FDOT	6	E	3,473	1,998	C
Between Mitchell Hammock Rd & W Broadway St (SR 426)	FDOT	2	E	1,040	667	D
Between W Broadway St (SR 426) & Magnolia St	FDOT	2	E	1,144	1,019	C
Between Magnolia St & SR 417	FDOT	2	E	1,012	1,448	F
Between SR 417 & Spring Ave	FDOT	4	E	2,300	1,247	C

Table 2.2 – Existing Roadway Level of Service (continued)

Roadway / Segment	Jurisdiction	Number of Lanes	Adopted LOS	Peak Hour Peak Dir. Capacity	2014 E+C Conditions	
					PM Peak Hour Peak Direction	LOS
Chapman Rd						
Between W Broadway St (SR 426) & Oak Circle	Sem. Co.	4	D	2,000	1,312	C
Between Oak Circle & Central Ave (SR 434)	Sem. Co.	4	D	2,000	1,261	C
DeLeon St						
Between Florida Ave & Howard Ave	Oviedo	2	D	675	75	C
Florida Ave						
Between DeLeon St & Oklahoma Ave	Sem. Co.	2	D	792	197	C
Between Okalohoma Ave & Van Arsdale St	Sem. Co.	2	D	792	130	C
Geneva Rd (CR 426)						
Between E Broadway St (CR 419) & Reed Rd	Sem. Co.	2	E	880	508	C
Between Reed Rd & Old Mims Rd	Sem. Co.	2	E	880	531	C
Lockwood Blvd						
Between McCulloch Rd & Oviedo City Limits	Sem. Co.	4	E	1,700	1,301	D
Between Oviedo City Limits & Mitchell Hammock Rd	Oviedo	4	E	1,700	1,211	D
Between Mitchell Hammock Rd & E Broadway St (CR 419)	Oviedo	4	E	1,700	1,670	E
Between E Broadway St (CR 419) & Geneva Rd (CR 426)	Oviedo	2	E	880	571	C
McCulloch Rd						
Between SR 434 & Lockwood Blvd	Sem. Co.	4	D	2,000	1,507	C
Between Lockwood Blvd & Old Lockwood Blvd	Sem. Co.	2	D	880	1,277	F
Mitchell Hammock Rd						
Between W Broadway St (SR 426) & Lake Jessup Ave	Oviedo	4	E	2,600	1,964	C
Between Lake Jessup Ave & Oviedo Blvd	Oviedo	4	E	2,600	1,901	C
Between Oviedo Blvd & Lockwood Blvd	Oviedo	4	E	2,600	1,697	C
Oviedo Blvd						
Between Geneva Rd (CR 426) & E Broadway St (CR 419)	Oviedo	2	E	720	0	-
Between E Broadway St (CR 419) & Mitchell Hammock Rd	Oviedo	2	E	720	0	-
Red Bug Lake Rd						
Between Rising Sun Blvd & Slavia Rd	Sem. Co.	6	D	3,020	1,804	C
Between Slavia Rd & SR 417	Sem. Co.	6	D	3,020	1,513	C
Between SR 417 & W Broadway St (SR 426)	Sem. Co.	6	E	3,473	2,298	C
Reed Rd						
Between E Broadway St (CR 419) & Geneva Rd (CR 426)	Oviedo	2	D	750	143	C
Slavia Rd						
Between Red Bug Lake Rd & SR 426	Sem. Co.	2	D	792	721	C

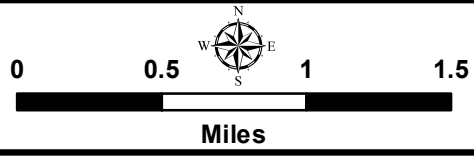
LOS Source: 2014 City of Oviedo Transportation Concurrency Management System

The results of the existing roadway LOS analysis are summarized in Figure 2.1.



Legend

- Minor Road
- Major Road
- Ovidio City Limits
- Water Bodies
- LOS C
- LOS D
- LOS E
- LOS F



**2014 City of Ovidio
Transportation Master Plan Update**

**Figure 2.1 - Existing
Level of Service**

2.3. Planned and Programmed Improvements

In addition to identifying existing deficiencies, it is also important to identify any improvements currently being planned for the study area roadways. Future improvements are typically put into two categories, planned improvements and programmed improvements. Planned improvements are typically defined as those which are expected to be construction within a 6 to 20 year timeframe. Programmed improvements are those that are typically funded for construction in the five year FDOT work program or within a local jurisdictions' five year Transportation Improvement Program (TIP). For this update, planned and programmed roadway improvements within the City of Oviedo study area were identified from:

- FDOT Five-Year Work Program
- Seminole County
- Metroplan Orlando

Twenty three projects were identified as either planned or programmed within the study area. Tables 2.3 and 2.4 summarize the planned and programmed improvements that were identified within the study area, respectively.

Table 2.3 - Programmed Improvements

Roadway	Description	Year	Agency
CR 419 at Lockwood Blvd.	Intersection improvement to add triple NB right turn lane (study)	2017	Seminole County #00192018
SR 426 – Ph. 2 from Pine Ave. to Avenue B	Add lanes and reconstruction	2020	Seminole County #00205202 Metroplan Orlando priority FDOT (2019)
SR 426 from Pine Ave. to Lockwood Blvd.	Widening, sidewalks, bike lanes	2017	Seminole County #00205202
SR 434 from Smith St. to Franklin St.	Add lanes and reconstruct	2017	FDOT Ph. 1 widening
SR 434 from Mitchell Hammock Rd. to Alexandria Blvd.	Add traffic signals	2017	FDOT

Table 2.4 - Planned Improvements

Roadway	Description	Year	Agency
SR 434 from SR 417 to SR 426	Add bicycle lanes	2030	Metroplan Orlando
Mitchell Hammock Rd. from Lockwood Blvd. to CR 419	New 4 lane roadway extension	2015	Metroplan Orlando
Lockwood Blvd. from CR 419 to CR 426	Widen to 4 lanes divided	2015	Metroplan Orlando
Mitchell Hammock Rd. from SR 434 to Lockwood Blvd.	Widen to 6 lanes divided	2020	Metroplan Orlando
SR 426 from Pine Ave. to SR 434	Widen to 4 lanes divided	2025	Metroplan Orlando
SR 426 from SR 434 to CR 426	Widen to 4 lanes divided	2025	Metroplan Orlando
SR 434 from SR 417 to DeLeon St.	Widen to 4 lanes divided	2030	Metroplan Orlando
SR 434 from DeLeon St. to SR 426	Widen to 4 lanes divided	2030	Metroplan Orlando
Sunrail from existing service north of Oviedo to Poinciana area (Osceola County)	Extension of service through Orange and Seminole Counties	2015	Metroplan Orlando
LYNX Transit Development Plan	Developments to Link 100, Link 101, and CR 429/Red Bug Rd. connector	2036	Metroplan Orlando
CR 419 from Avenue B to west of Lockwood Blvd.	Widen to 4 lanes divided	2020	Metroplan Orlando
SR 434 from Mitchell Hammock Rd. to SR 417	Widen to 4 lanes divided	2025	Metroplan Orlando
Slavia Rd. from Red Bug Lake Rd. to SR 426	Widen to 4 lanes divided	2040	Metroplan Orlando

Note: MetroPlan Orlando is the metropolitan planning organization for Orange, Osceola, and Seminole Counties.

2.4. Near Term Operational Improvements

In addition to the planned and programmed improvements presented in the previous section, near term operational improvements have been developed based on known deficiencies at intersections within the City. Near term operational improvements are projects that have been identified based on collected data, rather than forecasted data. Table 2.5 summarizes the improvements considered.

Table 2.5 - Near Term Operational Improvements

Intersection / Roadway	Description
SR 434 at Mitchell Hammock Rd.	Construct a NB right turn lane and/or yield lane
SR 434 at Mitchell Hammock Rd.	Adjust NB movement median to improve left turn radius for WB left from Mitchell Hammock Rd.
Mitchell Hammock Rd. at Alafaya Woods Blvd.	Construct EB right turn lane or paved shoulder
Mitchell Hammock Rd. at Alafaya Woods Blvd.	Extend WB left turn lane
Mitchell Hammock Rd. from Eastbridge Dr. to Henson Ct.	New traffic signal and traffic calming strategies on Eastbridge Dr.
Mitchell Hammock Rd. at Lockwood Blvd.	Adjust intersection geometry on west approach
Mitchell Hammock Rd. at SR 434	Construct 2 nd WB left turn lane

SR 434 at Mitchell Hammock Road frequently experiences delays during peak times of the day. Strategies to increase capacity and operational efficiency were identified based on observations. These included reducing access points, where practical, within the immediate intersection area and preserving the through movement. An improvement to the westbound left turn movement turning radius was identified from observations of vehicles braking to finish the movement. Adjusting the northbound median further back from the intersection would allow the westbound left turning vehicles to make a smoother turn.

Since the 2009 Transportation Master Plan, three traffic signals have been added on Mitchell Hammock Road at the intersections of Alafaya Woods Boulevard, Lake Rogers Boulevard, and City Plaza Way. Traffic signals are currently being designed at the intersections of S. Lake Jessup Avenue and Eastbridge Drive. Seminole County is looking at adaptive signal options to help increase the roadway capacity along Mitchell Hammock Road. Due to crash history at the intersection of Mitchell Hammock Road and Eastbridge Drive, it is recommended that traffic calming also be considered along Eastbridge Drive to assist drivers in approaching Mitchell Hammock Road.

At the Mitchell Hammock Road and Alafaya Woods Boulevard intersection, traffic queues in the eastbound direction during a portion of the afternoon because of vehicles parking on the side of Mitchell Hammock Road to pick children up from Stenstrom Elementary School, which is located on the southwest quadrant of the intersection. The eastbound right turn lane from the 2009 Transportation Master Plan was reconsidered to mitigate this problem, however, drainage and right-of-way impacts pose a significant cost and traffic making this right turn to the elementary school will still remain queued within the turn lane (a temporary daily occurrence). The city is working with the Seminole County School Board to look at improvements to correct this issue. Improvements may include that the westbound left turn lane be extended for the same traffic issue caused by the afternoon pickup at the elementary school (extensive queuing).

Largely caused by southbound trucks turning right to go west on Mitchell Hammock Road, the west approach median curbing has been damaged. Adjusting the intersection geometry to improve turning conditions will help address the issue.

2.5. Bicycle and Pedestrian Facilities

Bicycling and walking as healthy modes of transportation, or as purely recreational activities, provide positive benefits in many areas including personal health, the health of the environment, reduced traffic congestion, improved quality of life, and the increased economic vitality of communities that have emphasized bicycle and pedestrian mobility. In a growing number of communities, bicycling and walking are considered as indicators of a community’s livability – a factor that has a profound impact on attracting businesses and workers. In cities and towns where people can regularly be seen out bicycling and walking, there is a sense that these are safe and friendly places to live and visit.

The 2009 Transportation Master Plan included a bicycle and pedestrian plan for the purpose of providing transportation choices in the City of Oviedo by encouraging and implementing complete streets. “Complete streets” are streets that accommodate travel by all modes and provide choices to the people that live, work, and travel on them. A network of complete streets improves the safety, convenience, efficiency, and accessibility of the transportation system for all users. Pedestrians and bicyclists feel comfortable using complete streets.

Since the original plan was completed, the City has constructed several new sidewalks, bike lanes and trails. This update of the Transportation Master Plan included a field review of the existing bicycle and pedestrian facilities within the Downtown Core in order to update the sidewalk and bicycle lane inventory. This information was used to identify system gaps and potential improvements which are discussed in Section 3. Figures 2.2 and 2.3 show the updated inventories.

2.6. Existing Transit Service

Transit service in Oviedo is provided by LYNX. The local fixed route (Link 434) currently operates six days a week (Monday – Saturday) between the University of Central Florida (UCF) Superstop and the Seminole State Altamonte Campus through Oviedo with daily service characteristics shown in Table 2.6. No planned projects were identified as part of this Transportation Master Plan Update. The information is provided to ensure consistency with LYNX.

Table 2.6 - Link 434 Characteristics




Route Characteristics	Weekday	Saturday
Service Hours	5:30 am – 9:31 pm	5:30 am – 9:37 pm
Peak Frequency (min)	60	60
Midday Frequency (min)	60	60
Evening Frequency (min)	60	60
One-way Trips	16	16

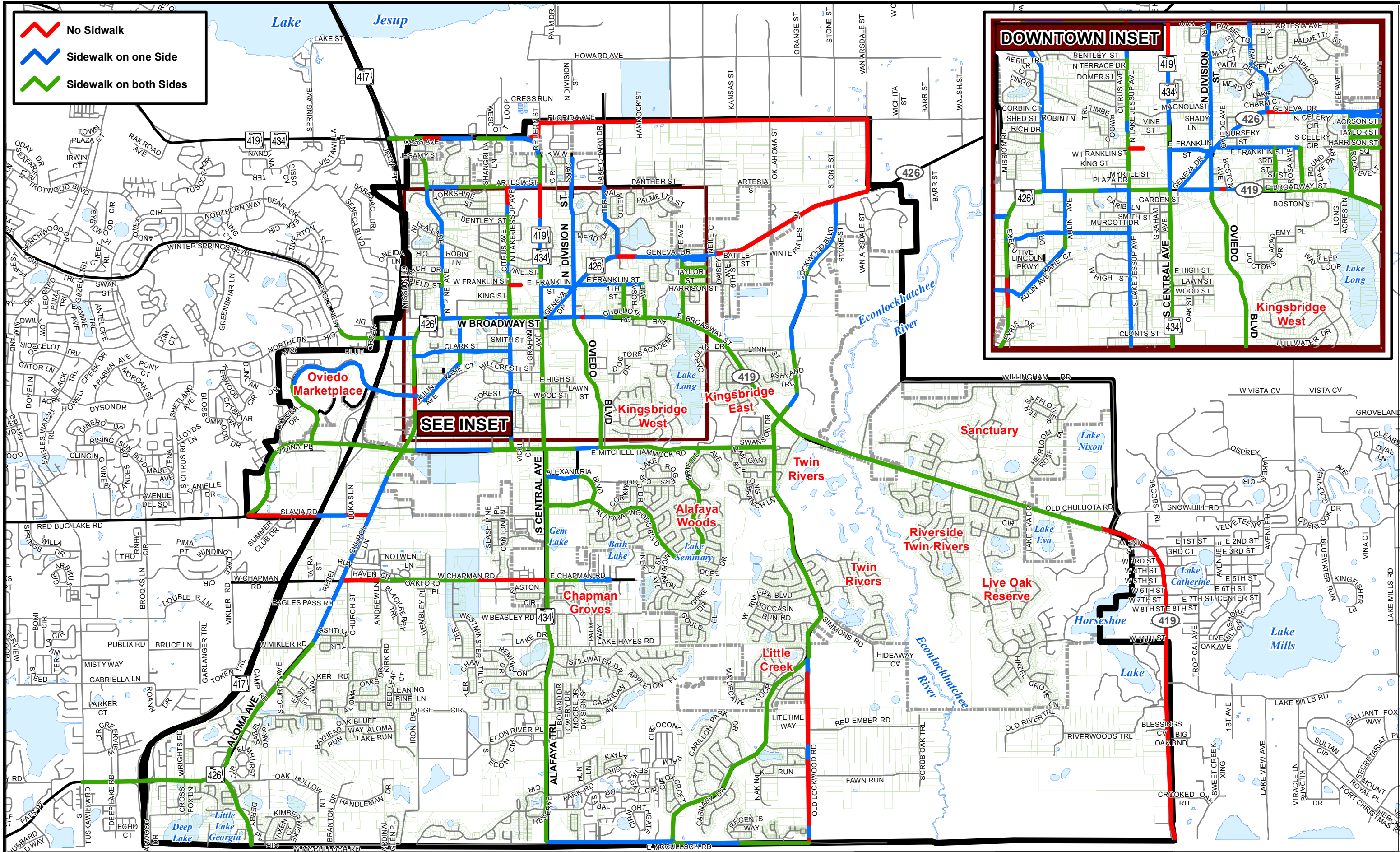
Source: LYNX Routes and Schedules, 2016

LYNX also provides NeighborLink 622 within the City to serve Seminole State College Oviedo. NeighborLink is a flex-service made available to residents living in less-populated areas. The service operates weekdays and Saturdays from 6:20 am to 7:30 pm. An update map of the Oviedo transit service is provided in Figure 2.4.







2.7. Summary of Existing Roadway Conditions

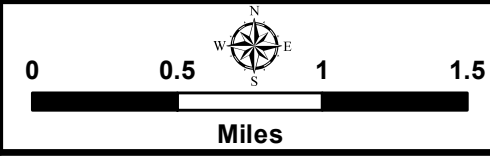
The analysis of existing conditions identified that most of the City's roadways are currently operating at acceptable levels of service, as shown in Table 2.2. Section 2.4 contains several recommendations for improving operational conditions at several intersections known to have issues.

-  No Sidewalk
-  Sidewalk on one Side
-  Sidewalk on both Sides



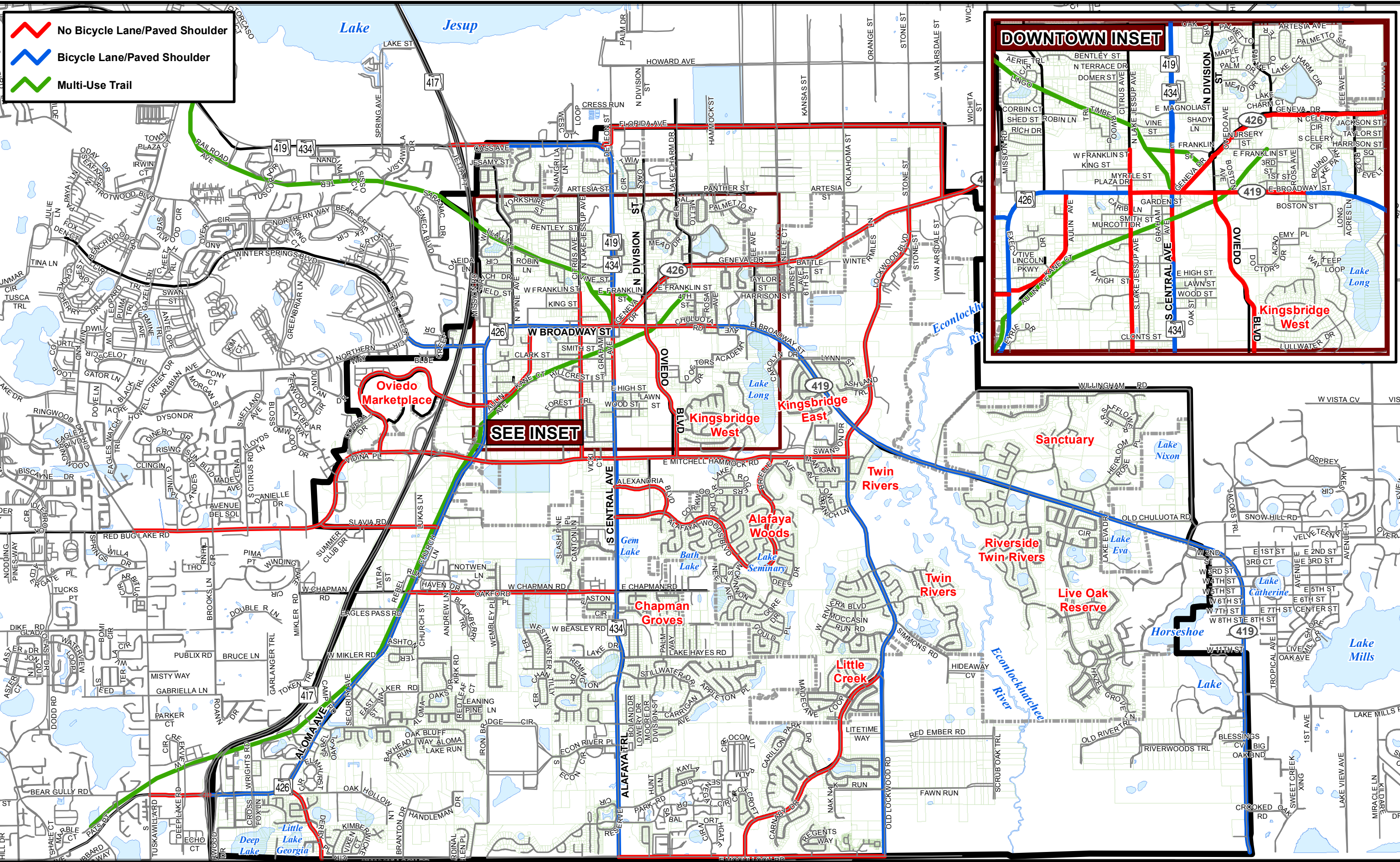
Legend

-  Minor Road
-  Major Road
-  Parcel Boundary
-  Study Area
-  Ovidio City Limits
-  Water Bodies



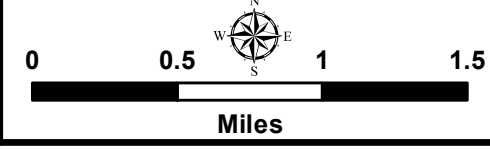
**2014 City of Ovidio
Transportation Master Plan Update**

**Figure 2.2 - Existing
Sidewalk Inventory for
Main Roadways**



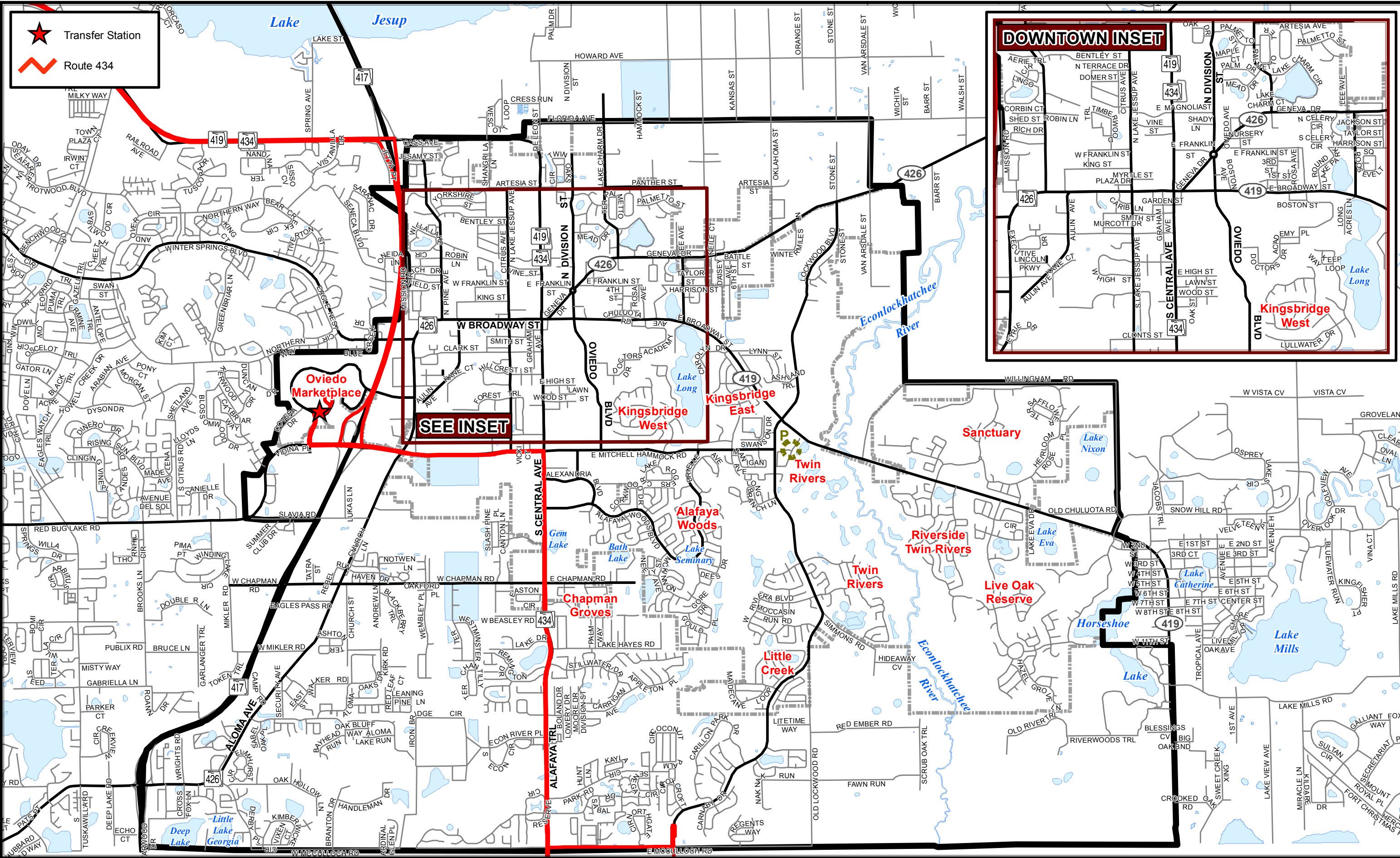
Legend



- Minor Road
- Major Road
- Parcel Boundary
- Study Area
- Oviedo City Limits
- Water Bodies



2014 City of Oviedo
Transportation Master Plan Update

Figure 2.3 - Existing Bicycle Inventory








 Transfer Station
 Route 434


DOWNTOWN INSET

SEE INSET



Legend

-  Minor Road
-  Major Road
-  Water Bodies
-  Study Area
-  Oviedo City Limits


 0 0.5 1 1.5
 Miles

2014 City of Oviedo
Transportation Master Plan Update

Figure 2.4 - Existing
Transit Routes

3. Recommended Projects

The 2009 Transportation Master Plan developed project priorities that were presented in project packages. Following the completion of the 2009 plan, the City used the priority project list in three ways:

- Commit City funds to construct projects
- Direct development applicants on required projects to address concurrency
- Document long term desired projects for the City

This Transportation Master Plan Update reorganized the recommended project reporting based on how the City utilized the previous plan recommendations. Using the 2009 Plan projects as a base, projects were either removed from the project list or added based on the updated existing conditions reported in this update. Projects were then sorted into the following categories:

- Project Package 1: Operational Improvements
- Project Package 2: Developer Driven Projects
- Project Package 3: Programmed Projects
- Project Package 4: Long-term Improvements
- Project Package 5: Partner Planned Improvements
- Project Package 6: Regional Projects
- Project Package 7: Transit (ANNUAL COSTS)
- Project Package 8: Bicycle and Pedestrian Projects

3.1. Cost Estimates

Project construction cost estimates were developed in two ways for this planning level analysis:

- Detailed construction cost estimates for 10 projects selected by the Oviedo Public Works staff
- General construction cost estimates for remaining projects, where applicable

For both approaches, costs were developed using the September 2014 – August 2015 FDOT Area 8 Unit Costs provided online, custom estimates for signal construction, and additional resources where applicable. It should be noted that the cost estimates do not include right-of-way, ponds, utilities, and relocation estimate due to the number of unknown variables at this planning stage. A construction contingency estimate of 20% of the sub total is included to account for unknown costs such as damaged or defective materials as well as potential fluctuation in pay item costs and any other unforeseen project costs. Although not part of the estimated construction cost, design fees and CEI fees are estimated on the attached cost estimates at 15% and 10% of the construction estimate, respectively.

Detailed construction costs accounted for details that would need to be factored into the construction cost estimate. For example, if a roadway widening project included turn lanes within its limits, the construction cost estimate considered the need to address this detail. General planning construction cost estimates were calculated using a template. For example, constructing a new two-lane roadway

multiplied the estimated length by a unit cost of length. This general application did not look for where turn lanes might be constructed as part of the new facility.

Project costs are reported with the projects summarized in the following sections. The FDOT cost estimate documentation, including data sources, assumptions, and exclusions, is included in Attachment A.

3.2. Project Package 1: Operational Improvements

As mentioned previously, near term operational improvements were developed based on known deficiencies within the City. The projects summarized in Table 3.1 should be among the highest priority of projects for future unallocated transportation improvements funds and, in some cases, can be impact fee eligible. The projects identified in the following table include a map number and description that relates to the Transportation Master Plan Update Project Map in the Summary Report (poster sized map). This map is also included at the end of this report as Figure 3.1.

Table 3.1 - Project Package 1: Operational Improvements

Type	Purpose	ID	Location	Description	Construction Cost Estimate
TSM	CP	SW-1	SR 434 at Mitchell Hammock Rd.	Construct a NB right turn lane and/or yield lane (requires construction of project SW-1 first)	\$140,000
TSM	S	SW-2	SR 434 at Mitchell Hammock Rd.	Adjust NB movement median to improve left turn radius for WB left from Mitchell Hammock Rd.	--- ¹
TSM	CP	SE-6	Mitchell Hammock Rd. at Alafaya Woods Blvd.	Construct EB right turn lane or paved shoulder	\$105,000
TSM	CP	SE-13	Mitchell Hammock Rd. at Alafaya Woods Blvd.	Extend WB left turn lane	\$44,000
TSM	S	SE-20	Mitchell Hammock Rd. from Eastbridge Dr. to Henson Ct.	New traffic signal and traffic calming strategies on Eastbridge Dr.	\$400,000
TSM	S	SE-21	Mitchell Hammock Rd. at Lockwood Blvd.	Adjust intersection geometry on west approach	\$24,000*
TSM	CP	SW-5	Mitchell Hammock Rd. at SR 434	Construct 2 nd SB left turn lane	\$500,000

BP- Bicycle-Pedestrian; **CL-** Connection; **CN-** Calming; **CP-** Capacity; **EXT-** Extension; **M-** Maintenance; **RI-** Roadway Improvement; **S-** Safety; **T-** Transit; **TSM-** Transportation System Management

* Identifies a more detailed construction cost estimate.

¹ Requires additional study to determine estimate.

Note: Construction cost estimate does not include estimated cost of right-of-way, ponds, utilities, and relocation due to the number of unknown variables at the planning phase.

3.3. Project Package 2: Developer Driven Projects

These recommended projects are associated with future development or redevelopment and not the full responsibility of the City. These development driven projects are not prioritized but should be undertaken as future development and redevelopment occurs. Since the funding sources to be used for these development driven projects may be separate than those identified for bike/pedestrian, transit and roadway projects (for example, impact fees have not been traditionally used for bike/pedestrian or City of Oviedo

transit projects), they have been summarized in Table 3.2 and include a map number and description that relates to the Transportation Master Plan Update Project Map in the Summary Report (poster sized map). This map is also included at the end of this report as Figure 3.1.

Table 3.2 - Project Package 2: Developer Driven Projects

Type	Purpose	ID	Location	Description	Construction Cost Estimate
EXT	CL	SW-4	S. Lake Jessup Ave. Ext. from SR 434 to S. Lake Jessup Ave	Connect to new Alexandria Blvd. / SR 434 traffic signal	\$1,210,000
EXT	CP	SE-2	Oviedo Blvd. from Mitchell Hammock Rd. to Alexandria Blvd.	Extend roadway south	\$1,190,000
TSM	CP	SE-3	Mitchell Hammock Rd. at Clara Lee Evans Way	Construct WB right turn lane	\$71,000*
EXT	CP	NW-9	SR 417/Winter Springs Blvd. Interchange	Half interchange to/from North	\$7,290,000*
EXT	CP	SE-5	Oviedo Blvd. from Shopping Complex to Oviedo Blvd.	New connection from Baldwin Fairchild shopping complex to Oviedo Blvd. on north side	\$278,000
TSM	S	SE-22	Clara Lee Evans Way at Alexandria Blvd.	Install traffic signal (requires construction of project SE-2 first)	\$330,000
EXT	CP	EXT-4	Shangri La Ln. Connection from Shangri La Ln. to Calypso Way	Extend roadway south	\$600,000
BP	CN	SE-4	Mitchell Hammock Rd. at Oviedo Blvd.	Extend sidewalk from SB Oviedo Blvd. to WB Mitchell Hammock Rd.; Relocate crosswalk on EB approach	\$73,000

BP- Bicycle-Pedestrian; **CL-** Connection; **CN-** Calming; **CP-** Capacity; **EXT-** Extension; **M-** Maintenance; **RI-** Roadway Improvement; **S-** Safety; **T-** Transit; **TSM-** Transportation System Management

* Identifies a more detailed construction cost estimate.

Note: Construction cost estimate does not include estimated cost of right-of-way, ponds, utilities, and relocation due to the number of unknown variables at the planning phase.

3.4. Project Package 3: Programmed Projects

The programmed improvements summarized in Table 3.3 are from Seminole County and FDOT. They are included as part of this Transportation Master Plan Update to ensure consistency with partner agency investments.

Table 3.3 - Project Package 3: Programmed Projects

Type	Purpose	ID	Location	Description	Year	Agency
TSM	M	NE-9	CR 419 from CR 426 to Twin Rivers Blvd. West	Resurfacing	2017	Seminole County
TSM	S	NE-1	CR 419 at Lockwood Blvd.	Intersection improvement, add triple NB right turn lane (study)	2017	Seminole County
RI	CP	NW-12	SR 426 - Ph. 2 from Pine Ave. to Avenue B	Add lanes and reconstruction (FDOT Phase II)	2021	Seminole County
BP	CP	NW-10	SR 426 from Pine Ave. to Lockwood Blvd.	Widening, sidewalks, bike lanes (FDOT Phase II & III)	2021	Seminole County
RI	CP	SW-10	SR 434 from Smith St. to Franklin St.	Add lanes and reconstruct (FDOT Phase I)	2017	FDOT
TSM	S	SW-9	SR 434 from Mitchell Hammock Rd. to Alexandria Blvd.	Add traffic signals	2017	FDOT

BP- Bicycle-Pedestrian; CL- Connection; CN- Calming; CP- Capacity; EXT- Extension; M- Maintenance; RI- Roadway Improvement; S- Safety; T- Transit; TSM- Transportation System Management

3.5. Project Package 4: Long-term Improvements

There are a number of projects the City desires to construct once funding and conditions permit. Table 3.4 summarizes projects that are carried over and not constructed from the 2009 Transportation Master Plan, projects from the City’s adopted 2010 Comprehensive Plan, and new long-term projects identified based on current conditions and development trends in the City. The purpose of including the projects in this Transportation Master Plan Update is to provide historical documentation of support for these projects.

Table 3.4 - Project Package 4: Long-term Improvements

Type	Purpose	ID	Location	Description	Construction Cost Estimate
RI	CP	SE-1	Mitchell Hammock Rd. from SR 434 to Lockwood Blvd.	Widen to 6LD	\$4,180,000
T	CP	TRN-3	Commuter/rideshare lots at Oviedo Mall & Lockwood Village	Lot amenity, signage, lighting, hardscape	--- ¹
CN	CP	SE-10	Chapman Rd. Ext. from Lake Gregg Cove to Ragsdale Rd.	New 2 lane over existing use	\$220,000
CN	CL	SE-11	McKinnon Ave. traffic calming from Gould Pl. to Ragsdale Rd.	Traffic calming	\$40,000*
CN	CL	SE-12	McKinnon Ave. traffic calming from Ragsdale Rd. to Alafaya Woods Blvd.	Traffic calming	\$30,000*
CN	CP	NW-2	Franklin St. Ext. from Lake Jessup Ave. to SR 434	2 lane in existing R/W (west side) (requires construction of NE-6 first)	\$450,000
CN	CP	SE-7	Hamilton Dr. Ext. from Oviedo Blvd. to Doctors Dr.	New 2 Lane over existing use	\$370,000

Table 3.4 - Project Package 4: Long-term Improvements (continued)

Type	Purpose	ID	Location	Description	Construction Cost Estimate
CN	CL	SE-9	Doctors Dr./Academy Ave. traffic calming from south terminus to CR 419	Traffic calming (requires construction of SE-7 first)	\$33,500*
TSM	CP	SE-14	Lockwood Blvd. at Riveria Blvd.	Construct roundabout	\$1,120,000*
TSM	S	SE-15	Lockwood Blvd./Old Lockwood Roundabout	Intersection improvement (roundabout) (requires construction of EXT-1 first)	\$1,020,000*
TSM	S	SE-16	Lockwood Blvd. at Old Lockwood Blvd.	Traffic signal	\$330,000*
RI	CP	SW-6	SR 434 (Central Ave.) from Smith St. to Mitchell Hammock Rd.	Widen 4L/4LD (55% Oviedo)	\$4,010,000
CN	CP	NE-4	Division St. Ext. from existing termini to Florida Ave.	2 lane in existing R/W (requires construction of NE-7 first)	\$725,000
CN	CP	NE-8	Artesia St. from Orange Ave. to Division St.	2 lane in existing R/W (requires construction of NE-7 first)	\$343,000
CN	CP	NE-3	Artesia St. reconstruction from Division St. to Lake Charm Dr.	Reconstruct existing 2 lane	\$660,000
CN	CP	NE-2	Franklin St. Ext. - Ph. 2 from Stephen Ave. to Reed Ave.	2 lane in existing R/W	\$362,000*
CN	CP	NW-1	Florida Ave. Ext. from SR 434 to DeLeon St.	New 2 lane over existing use (requires construction of NE-7 first)	\$506,000
CN	CP	NW-7	Palm Dr. from Pine Ave. to SR 434	Reconstruct (requires construction of NE-7 first)	\$410,000
CN	CL	NW-5	New Castle Ln. remove barrier from W. Artesia St. to Mactavendash Dr.	Remove barricade (requires construction of NW-7 first)	--- ¹
CN	CL	NW-3	Lake Jessup Ave. traffic calming from SR 426 to W. Artesia St.	Traffic calming (requires construction of NW-7 first)	\$90,000*
CN	CL	NW-4	W. Artesia St. traffic calming from Pine Ave. to SR 434	Traffic calming (requires construction of NW-7 first)	\$80,000*
CN	CL	NW-6	Pine Ave. traffic calming from SR 426 to Palm Dr.	Traffic calming (requires construction of NW-7 first)	\$110,000*
CN	CP	NW-8	Chapel St. realignment from Mission Rd. to Pine Ave.	New 2 lane over existing use (requires construction of NW-9 first)	\$710,000

BP- Bicycle-Pedestrian; **CL-** Connection; **CN-** Calming; **CP-** Capacity; **EXT-** Extension; **M-** Maintenance; **RI-** Roadway Improvement; **S-** Safety; **T-** Transit; **TSM-** Transportation System Management

* Identifies a more detailed construction cost estimate.

¹ Requires additional study to determine estimate.

Note: Construction cost estimate does not include estimated cost of right-of-way, ponds, utilities, and relocation due to the number of unknown variables at the planning phase.

3.6. Project Package 5: Partner Planned Improvements

Similar to Project Package 3, the Partner Planned Improvements summarized in Table 3.5 are included as part of this Transportation Master Plan Update to ensure consistency with partner agency investments.

Table 3.5 - Project Package 5: Partner (Metropolitan Orlando) Planned Improvements

Type	Purpose	ID	Location	Description	Construction Cost Estimate
BP	CN	NW-11	SR 434 from SR 417 to SR 426	Add bicycle trail	--- ¹
EXT	CP	SE-18	Mitchell Hammock Rd. from Lockwood Blvd. to CR 419	Road extension (4 new lanes)	\$1,410,000
RI	CP	NE-10	Lockwood Blvd. from CR 419 to CR 426	Widen to 4LD	\$8,860,000
RI	CP	SE-1	Mitchell Hammock Rd. from SR 434 to Lockwood Blvd.	Widen to 6LD	\$4,180,000
RI	CP	NW-12	SR 426 from Pine Ave. to SR 434	Widen to 4LD	\$4,570,000
RI	CP	NE-6	SR 426 from SR 434 to CR 426	Widen to 4LD	\$590,000
RI	CP	NE-7A	SR 434 from SR 417 to DeLeon St.	Widen to 4LD	\$5,180,000
RI	CP	NE-7B	SR 434 from DeLeon St. to SR 426	Widen to 4LD	\$7,190,000
T	CP	**	Sunrail from existing service north of Oviedo to Poinciana area (Osceola Cty.)	Extension of service through Orange and Seminole Counties	N/A
T	CP	**	LYNX Transit Development Plan	Developments to Link 100, Link 101, and CR 429/Red Bug Connector	N/A
TSM	CP	NE-12	CR 419 from Avenue B to west of Lockwood Blvd.	Widen to 4LD	--- ¹
RI	CP	NE-7C	SR 434 from Mitchell Hammock Rd. to SR 417	Widen to 4LD	\$15,610,000

BP- Bicycle-Pedestrian; **CL-** Connection; **CN-** Calming; **CP-** Capacity; **EXT-** Extension; **M-** Maintenance; **RI-** Roadway Improvement; **S-** Safety; **T-** Transit; **TSM-** Transportation System Management

¹ Requires additional study to determine estimate.

** No ID number assigned.

Note: Construction cost estimate does not include estimated cost of right-of-way, ponds, utilities, and relocation due to the number of unknown variables at the planning phase.

3.7. Project Package 6: Regional Projects

Similar to Project Package 5, the Regional Projects summarized in Table 3.6 are included as part of this Transportation Master Plan Update to ensure knowledge of partner agency investments regardless of City support in favor of the project. These projects are not located within the City’s boundary but are likely to have an impact on the traffic patterns within and through the City if constructed.

Table 3.6 - Project Package 6: Regional Projects

Type	Purpose	ID	Location	Description	Construction Cost Estimate
BP	CP	SW-8	Dean Rd. from SR 426 to Orange County Line	Widening, sidewalks, bike lanes	--- ¹
BP	S	SE-17	Snow Hill Rd. from CR 419/Snow Hill Rd. to Walker Elementary School	Sidewalks	\$223,000
RI	S	SE-23	Snow Hill Rd. from Jacob's Trail to CR 426	Widen shoulders, improve drainage, and resurfacing	--- ¹
RI	CP	NW-13	SR 417 from Orange/ Seminole Co. Line to SR 434	Widen to 6LD toll road	\$5,160,000
EXT	CP	EXT-1	McCulloch Rd. Ext. from Native Dancer Ln. to CR 419	New 2 lane roadway	\$8,940,000
EXT	CP	EXT-2	SR 408 Ext. from Woodbury Rd. to w/o SR 520	4 lane toll road	--- ¹
EXT	CP	EXT-3	SR 417 6/8 laning from Aloma Ave. to SR 434	6/8 lane toll road	--- ¹
RI	CP	NW-14	SR 417 from Orange/ Seminole Co. Line to Aloma Ave.	Widen to 6LD toll road	--- ¹
RI	CP	SW-11	Slavia Rd. from Red Bug Lake Rd. to SR 426	Widen to 4LD	\$5,800,000

BP- Bicycle-Pedestrian; CL- Connection; CN- Calming; CP- Capacity; EXT- Extension; M- Maintenance; RI- Roadway Improvement; S- Safety; T- Transit; TSM- Transportation System Management

1 Requires additional study to determine estimate.

Note: Construction cost estimate does not include estimated cost of right-of-way, ponds, utilities, and relocation due to the number of unknown variables at the planning phase.

3.8. Project Package 7: Transit (ANNUAL COSTS)

The City of Oviedo is currently served by one transit route (Link 434) that provides access between UCF, the Oviedo Marketplace, the 419/426 corridor, and Seminole State Altamonte Campus. For various reasons, this route consistently ranks among the lowest performing routes in the entire LYNX transit system. The performance of the current route should not discourage the City from embracing transit as a means for providing improved mobility for citizens within the City. One of the major underlying reasons for the poor transit performance is due to the long headways, or time periods between buses along the route, the orientation of the route, and the low-density development pattern along much of the route despite the fact that it serves major destinations such as UCF and the Oviedo Marketplace.

The plan recommends adding three local circulator services to encourage multimodal transportation options. This endeavor is in line with the City's adopted 2010 Comprehensive Plan and would likely encourage development and economic growth within the City. As presented in the 2009 Transportation Master Plan, funding for the circulator would be provided via the CRA or through an assessment mechanism that is placed on new development and redevelopment within the CRA. Benefit assessments are typical means for providing capital and operating expenditures for circulator systems in downtowns.

Table 3.7 - Project Package 7: Transit (ANNUAL COSTS)

Type	Purpose	ID	Location	Description	Construction Cost Estimate
T	CP	TRN-1	City run local circulator (weekend/event service) from City Hall to Old Downtown	10-yr annualized vehicles, shelters, O&RM	N/A
		**	(weekday + weekend service) from City Hall to Old Downtown	10-yr annualized vehicles, shelters, O&M	N/A
T	CP	TRN-2	Alafaya Tr. Premium transit corridor from OIA to Oviedo	BRT/Fixed guideway transit	N/A

BP- Bicycle-Pedestrian; CL- Connection; CN- Calming; CP- Capacity; EXT- Extension; M- Maintenance; RI- Roadway Improvement; S- Safety; T- Transit; TSM- Transportation System Management

*** No ID number assigned.*

3.9. Project Package 8: Bicycle and Pedestrian Projects

The Centennial Parks and Trails Master Plan sets the blueprint for future pedestrian and bike transportation corridors throughout the City of Oviedo including off-street and on-street systems. This Transportation Master Plan Update includes the 2009 Plan bicycle and pedestrian projects as well as new projects identified based on the gaps identified in Figures 2.2 and 2.3.

Table 3.8 - Project Package 8: Bicycle and Pedestrian Projects

Type	Purpose	ID	Location	Description	Construction Cost Estimate
BP	CN	SE-8	Kingsbridge Dr. connection from Oviedo Blvd. to Kingsbridge Dr.	Pedestrian/Trail connection	\$32,000
BP	CN	**	Oviedo bike lanes	Paint transition color where RTL crossed bike lane	--- ¹
BP	CP	NE-11	E. Harrison St. Ext. - Ph. 1 from Stephen Ave. to Reed Ave.	Pedestrian trail connection	Included in NE-2 Estimate
BP	CP	SE-19	OOTP Trail	Designate trail loop around OOTP	N/A

BP- Bicycle-Pedestrian; CL- Connection; CN- Calming; CP- Capacity; EXT- Extension; M- Maintenance; RI- Roadway Improvement; S- Safety; T- Transit; TSM- Transportation System Management

1 Requires additional study to determine estimate.

Note: Construction cost estimate does not include estimated cost of right-of-way, ponds, utilities, and relocation due to the number of unknown variables at the planning phase.

**City of Oviedo Transportation Master Plan Projects
Priority Project Groupings**

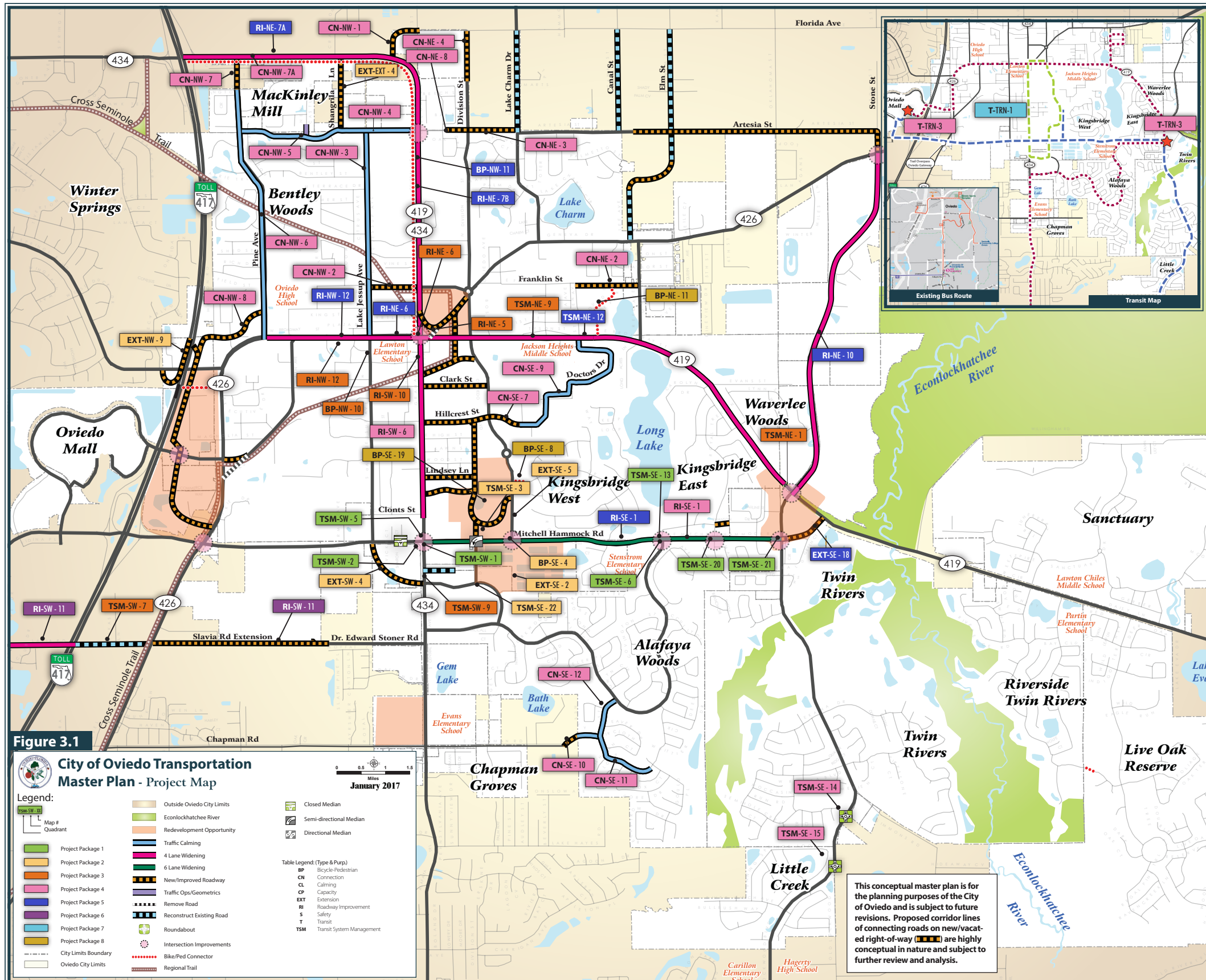


Figure 3.1

City of Oviedo Transportation Master Plan - Project Map
January 2017

Legend:

- Map # Quadrant
- Project Package 1 (Green)
- Project Package 2 (Orange)
- Project Package 3 (Blue)
- Project Package 4 (Pink)
- Project Package 5 (Purple)
- Project Package 6 (Light Blue)
- Project Package 7 (Light Green)
- Project Package 8 (Yellow)
- City Limits Boundary
- Oviedo City Limits
- Outside Oviedo City Limits
- Econlockhatchee River
- Redevelopment Opportunity
- Traffic Calming
- 4 Lane Widening
- 6 Lane Widening
- New/Improved Roadway
- Traffic Ops/Geometrics
- Remove Road
- Reconstruct Existing Road
- Roundabout
- Intersection Improvements
- Bike/Ped Connector
- Regional Trail
- Closed Median
- Semi-directional Median
- Directional Median

Table Legend: (Type & Purp)

- BP Bicycle-Pedestrian
- CN Connection
- CL Calming
- CP Capacity
- EXT Extension
- RI Roadway Improvement
- S Safety
- T Transit
- TSM Transit System Management

This conceptual master plan is for the planning purposes of the City of Oviedo and is subject to future revisions. Proposed corridor lines of connecting roads on new/vacated right-of-way (---) are highly conceptual in nature and subject to further review and analysis.

Project Package 1: Operational Improvements					
Type	Purpose	Map #	Location	Description	Predecessor
TSM	CP	SW-1	SR 434 from 250' S. of Mitchell Hammock Rd to Mitchell Hammock Rd	Construct NB RTL and/or yield lane	-
TSM	S	SW-2	SR 434 at Mitchell Hammock Rd	Adjust intersection geometry	SW-1
TSM	CP	SE-6	Mitchell Hammock Rd from 380' W of Alafaya Woods Blvd to Alafaya Woods Blvd	Construct EB RTL or paved shoulder	-
TSM	CP	SE-13	Mitchell Hammock Rd from 420' E of Alafaya Woods Blvd to Alafaya Woods Blvd	Extend WB LTL	-
TSM	S	SE-20	Mitchell Hammock Rd from Eastbridge Dr. to Henson Ct.	New signal and traffic calming strategies on Eastbridge	-
TSM	S	SE-21	Mitchell Hammock Rd at Lockwood Blvd	Adjust intersection geometry on west approach	-
TSM	CP	SW-5	Mitchell Hammock Rd at SR 434	Construct 2nd WB LT Lane	SW-4

Project Package 2: Developer Driven Projects					
Type	Purpose	Map #	Location	Description	Predecessor
EXT	CL	SW-4	S. Lake Jessup Ave. Ext. from SR 434 to Lake Jessup Ave	Connection to new Alexandria Blvd / SR 434 traffic signal	-
EXT	CP	SE-2	Oviedo Blvd. from Mitchell Hammock Rd to Alexandria Blvd	Extend roadway south	-
TSM	CP	SE-3	Mitchell Hammock Rd. at Clara Lee Evans Way	Construct WB right turn lane	-
EXT	CP	NW-9	SR 417/Winter Springs Blvd. Interchange from SR Off-ramp to NW on-ramp	Half interchange to/from North	-
EXT	CP	SE-5	Oviedo Blvd. from Shopping Complex to Oviedo Blvd	New connection from Baldwin Fairchild shopping complex to Oviedo Blvd on north side	-
TSM	S	SE-22	Clara Lee Evans Way at Alexandria Blvd	Install traffic signal	SE-2
EXT	CP	EXT-4	Shangri La Lane Connection from Shangri La Lane to Calypso Way	Extend roadway north	-
BP	CI	SE-4	Mitchell Hammock Rd. at Oviedo Blvd	Extend sidewalk from SB Oviedo Blvd to WB Mitchell Hammock Rd; Relocate crosswalk on EB approach	-

Project Package 3: Programmed Projects					
Type	Purpose	Map #	Location	Description	Year
TSM	S	NE-1	CR 419 from CR 419 to Lockwood Blvd.	Intersection improvement, add triple NB RTL (study)	2015
TSM	M	SW-7	Slavia Rd. from Red Bug Lake Rd. to SR 426	Resurfacing	2014
RI	CP	NE-6	SR 426 from Central Ave. (SR 434) to Broadway St. (CR 419)	Intersection Reconstruction	2016
RI	CP	NE-5	SR 426 from Station St. to New SR 426 alignment	SR 426 intersection close/remove	2016
RI	CP	NW-12	SR 426 - Ph. 2 from Pine Ave. to Avenue B	Add lanes and reconstruction (FDOT Phase II)	2021
BP	CP	NW-10	SR 426 from Pine Ave. to Lockwood Blvd.	Widening, sidewalks, bike lanes (FDOT Phase II & III)	2021
BP	CP	SW-10	SR 434 from Smith St. to Franklin St.	Add lanes and reconstruct (FDOT Phase II)	2016
TSM	S	SW-9	SR 434 from Mitchell Hammock Rd. to Alexandria Blvd	Add traffic signals	2017

Project Package 4: Long-term improvements					
Type	Purpose	Map #	Location	Description	Predecessor
RI	CP	SE-1	Mitchell Hammock Rd. from SR 434 to Lockwood Blvd	Widen to 6 LD	-
T	CP	TRN-3	Commuter/Ride Share lots at Oviedo Mall & Lockwood Village	Lot amenity, signage, lighting, hardscape	-
CN	CP	SE-10	Chapman Rd. Ext. from Lake Gregg Cove to Ragsdale Rd.	New 2 lane over existing use	-
CN	CL	SE-11	McKinnon Ave. traffic calming from Gould Pl. to Ragsdale Rd.	Traffic calming	-
CN	CP	SE-12	McKinnon Ave. traffic calming from Ragsdale Rd. to Alafaya Woods Blvd	Traffic Calming	-
CN	CP	NW-2	Franklin St./Ext. From Lake Jessup Ave. to Central Ave. (SR 434)	2 lane in existing R/W (west side)	NE-6
CN	CP	SE-7	Hamilton Dr. Ext. from Oviedo Blvd. to Doctors Dr.	New 2 lane over existing Use	-
CN	CL	SE-9	Doctors Dr. /Academy Ave. Traffic Calming from south terminus to CR 419	Traffic calming	SE-7
TSM	CP	SE-14	Lockwood Blvd. at Rivera Blvd.	Construct Roundabout	-
TSM	S	SE-15	Lockwood Blvd./Old Lockwood Roundabout from Lockwood Blvd. to Old Lockwood Rd.	Intersection improvement (roundabout)	EXT-1
TSM	S	SE-16	Lockwood Blvd./Old Lockwood Signal	-	-
RI	CP	SW-6	SR 434 Central Ave. from Smith St. to Mitchell Hammock Rd.	Widen 4L/4 LD (55% Oviedo)	-
CN	CP	NE-4	Division St. Ext. from Existing terminus to Florida Ave.	2 lane in existing R/W	NE-7
CN	CP	NE-8	Artesia St. from Orange Ave. to Division St.	2 lane in existing R/W	NE-7
CN	CP	NE-3	Artesia St. Reconstruction from Division St. to Lake Charm Dr.	Reconstruct existing 2 lane	-
CN	CP	NE-2	Franklin St. Ext. Ph.2 from Stephen Ave. to Reed Ave.	2 lane in existing R/W	-
CN	CP	NW-1	Florida Ave. Ext. from SR 434 to DeLeon St.	New 2 lane over existing use	NE-7
CN	CP	NW-7	Palm Dr. reconstruction from Pine Ave. to SR 434	-	NE-7
CN	CL	NW-5	New Castle Ln. remove barrier from W. Artesia St. to Mactavendash Dr	Remove barricade	NW-7
CN	CL	NW-3	Lake Jessup Ave. traffic calming from Broadway St. (SR 426) to W. Artesia St.	Traffic calming	NW-7
CN	CL	NW-4	W. Artesia St. traffic calming from Pine Ave. to Central Ave (SR 434)	Traffic calming	NW-7
CN	CL	NW-6	Pine Ave. traffic calming from SR 426 to Palm Dr.	Traffic calming	NW-7
CN	CP	NW-8	Chapel St. realignment from Mission Rd. to Pine Ave.	New 2 lane over existing use	NW-9

Project Package 5: Partner Planned Improvements					
Type	Purpose	Map #	Location	Description	Need by
BP	CI	NW-11	SR 434 from SR 417 to SR 426	Add bicycle trail	2030
EXT	CP	SE-18	Mitchell Hammock Rd. from Lockwood Blvd. to CR 419	Road extension (4 new lanes)	2015
RI	CP	NE-10	Lockwood Blvd. from CR 419 to CR 426	Widen to 4LD	2015
RI	CP	SE-1	Mitchell Hammock Rd. from SR 434 to Lockwood Blvd.	Widen to 6LD	2020
RI	CP	NW-12	SR 426 from Pine Ave. to SR 434	Widen to 4LD	2021
RI	CP	NE-6	SR 426 from SR 434 to CR 426	Widen to 4LD	2025
RI	CP	NE-7A	SR 434 from SR 417 to DeLeon St.	Widen to 4LD	2030
RI	CP	NE-7B	SR 434 from DeLeon St. to SR 426	Widen to 4LD	2030
T	CP	**	Sunrail from Existing service N. of Oviedo to Poinciana area (Osceola Cty).	Extension of Service through Orange and Seminole Counties	2015
T	CP	**	LYNX Transit Development Plan	Developments to Link 100, Link 101, and CR 429/Red Bug Connector	2036
TSM	CP	NE-12	CR 419/Broadway St) from Avenue B to W. of SR 520	Widen to 4LD	2020
RI	CP	NE-7C	SR 434 Central Ave. from Mitchell Hammock Rd. to SR 417	Widen to 4LD	2025

Project Package 6: Regional Projects					
Type	Purpose	Map #	Location	Description	Year
BP	CP	SW-8	Dean Rd. from SR 426 to Orange County Line	Widening, sidewalks, bike lanes	2017
BP	S	SE-17	Snow Hill Rd. from Snow Hill Rd. to Walker Elementary School	Sidewalks	2014
RI	S	SE-23	Snow Hill Rd. from Jacob's Trail to CR 426	Widen shoulders, improve drainage, and resurfacing	2016
RI	CP	NE-13	SR 417 from Orange/Seminole County line to SR 434	Widen to 6LD	2015
EXT	CP	EXT-1	McCulloch Rd. Ext. from Native Dance Ln. to CR 419	New 2L roadway	N/A
EXT	CP	EXT-2	SR 408 Ext. from Woodbury Rd. to W. of SR 520	4L Toll Road	N/A
EXT	CP	EXT-3	SR 417/6/8 laning from Aloma Ave. to SR 434	6/8 lane toll road	N/A
RI	CP	NW-14	SR 417 from Orange/Seminole Co. Line to Aloma Ave.	Widen to 6LD	2020
RI	CP	SW-11	Slavia Rd. from Red Bug Lake Rd. to SR 426	Widen to 4LD	2040

Project Package 7: Transit (Annual Costs)					
Type	Purpose	Map #	Location	Description	Predecessor
T	CP	TRN-1	City run local circulator (weekend/event service) from City Hall to Old Downtown	10-yr annualized vehicles, shelters, O&RM	-
		**	(weekdays+ weekend service) from City Hall to Old Downtown	10-yr annualized vehicles, shelters, O&RM	-
T	CP	TRN-2	Alafaya Tr. Premium transit corridor from OIA to Oviedo	BRT/ Fixed guideway transit	-

Project Package 8: Bicycle and Pedestrian Projects					
Type	Purpose	Map #	Location	Description	Predecessor
BP	CI	SE-8	Kingsbridge Dr. Connection from Oviedo Blvd. to Kingsbridge Dr.	Pedestrian/Trail Connection	-
BP	CI	**	Oviedo Bike Lanes	Paint transition color where RTL crossed bike lane	-
BP	CP	NE-11	E. Harrison St. Ext. Ph.1 from Stephen Ave. to Reed Ave.	Pedestrian/Trail Connection	-
BP	CP	SE-19	OOTP Trail	Designate trail loop around OOTP	-

Appendix: Construction Cost Estimates

Engineer's Opinion of Probable Construction Cost

SW-1 SR 434 (250' S. of Mitchell Hammock Rd. to Mitchell Hammock Rd.)

Add Turn Lanes/ Lengthen (Right Lane)

Winter 2016

Fiscal Year 2016

ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL COST
101- 1	MOBILIZATION	1	LS	\$15,000.00	\$15,000.00
102-1	MAINTENANCE OF TRAFFIC	1	LS	\$10,000.00	\$10,000.00
104-20	EROSION CONTROL	1	LS	\$1,000.00	\$1,000.00
110-1-2	CLEARING & GRUBBING	0.33	AC	\$20,000.00	\$7,000.00
120-6	EMBANKMENT	535	CY	\$5.00	\$3,000.00
160-4	TYPE B STABILIZATION	932	SY	\$5.00	\$5,000.00
285-707	OPTIONAL BASE,BASE GROUP 06	733	SY	\$20.00	\$15,000.00
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	61	TN	\$100.00	\$7,000.00
337-7-42	FRICITION COURSE FC-9.5, PG 76-22, PMA (TRAF C)	81	TN	\$180.00	\$15,000.00
520-1-10	CURB AND GUTTER TYPE F	550	LF	\$17.00	\$10,000.00
522-1	CONCRETE SIDEWALK, 4" THICK	306	SY	\$35.00	\$11,000.00
570-1	SODDING	428	SY	\$5.00	\$3,000.00
0710-11-170	PAINTED PAVT MARK,STD,WHITE, ARROWS	4	EA	\$30.00	\$200.00
	TRAFFIC STRIPE (6" WHITE AND YELLOW)	1,100	LF	\$1.00	\$2,000.00
	DRAINAGE IMPROVEMENTS (PIPE & INLETS)	550	LF	\$18.30	\$11,000.00
Length of Project (ft.)		SUB- TOTAL			\$116,000.00
550		CONTINGENCY (20%)			\$24,000.00
Pavement Depth (in.)		DESIGN FEES (15%)			\$21,000.00
1.5		CEI FEES (10%)			\$16,000.00
TOTAL ESTIMATED CONSTRUCTION COST (2016) :					\$140,000.00

ESTIMATE BASIS AND ASSUMPTIONS:

- Construction cost is equal to the sum of sub-total and contingency. Design fees and CEI fees subject to change.
 - The mobilization costs are based on 15% of the construction cost
 - Embankment to 1 ft depth
 - No R/W Impact
 - No specialized landscaping (beyond sodding)
 - Utility relocations by others
 - 1.5" depth superpave
 - 1" depth friction course
 - 4' bike lane
 - No R/W, Pond, Utility, Relocation Costs are included in Cost Estimate
- SOURCE: Unit Costs per FDOT (Area 8) averages (09/2014 - 08/2015)

Engineer's Opinion of Probable Construction Cost

SE-6 Mitchell Hammock Rd. (380' W of Alafaya Woods Blvd. to Mitchell Hammock Rd.)

Add Turn Lanes/ Lengthen (Right Lane)

Winter 2016

Fiscal Year 2016

ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL COST
101-1	MOBILIZATION	1	LS	\$11,000.00	\$11,000.00
102-1	MAINTENANCE OF TRAFFIC	1	LS	\$6,000.00	\$6,000.00
104-20	EROSION CONTROL	1	LS	\$1,000.00	\$1,000.00
110-1-2	CLEARING & GRUBBING	0.23	AC	\$20,000.00	\$5,000.00
120-6	EMBANKMENT	366	CY	\$15.00	\$6,000.00
160-4	TYPE B STABILIZATION	591	SY	\$5.00	\$3,000.00
285-707	OPTIONAL BASE,BASE GROUP 06	507	SY	\$20.00	\$11,000.00
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	42	TN	\$100.00	\$5,000.00
337-7-42	FRICTION COURSE FC-9.5, PG 76-22, PMA (TRAF C)	28	TN	\$180.00	\$6,000.00
520-1-10	CURB AND GUTTER TYPE F	380	LF	\$17.00	\$7,000.00
522-1	CONCRETE SIDEWALK, 4" THICK	211	SY	\$30.00	\$7,000.00
570-1	SODDING	296	SY	\$5.00	\$2,000.00
0710-11-170	PAINTED PAVT MARK,STD,WHITE, ARROWS	4	EA	\$30.00	\$200.00
	TRAFFIC STRIPE (6" WHITE AND YELLOW)	760	LF	\$1.00	\$800.00
	DRAINAGE IMPROVEMENTS (PIPE & INLETS)	760	LF	\$20.00	\$16,000.00
Length of Project (ft.)		SUB- TOTAL			\$87,000.00
380		CONTINGENCY (20%)			\$18,000.00
Superpave Depth (in.)		DESIGN FEES (15%)			\$16,000.00
1.5		CEI FEES (10%)			\$12,000.00
FC Depth (in.)					
1		TOTAL ESTIMATED CONSTRUCTION COST (2016) :			\$105,000.00

ESTIMATE BASIS AND ASSUMPTIONS:

- Construction cost is equal to the sum of sub-total and contingency. Design fees and CEI fees subject to change.
 - The mobilization costs are based on 15% of the construction cost
 - Embankment to 1 ft depth
 - No R/W Impact
 - Utility relocations by others
 - 1.5" depth superpave
 - 1" depth friction course
 - No R/W, Pond, Utility, Relocation Costs are included in Cost Estimate
- SOURCE: Unit Costs per FDOT (Area 8) averages (09/2014 - 08/2015)

Engineer's Opinion of Probable Construction Cost

SE-13 Mitchell Hammock Rd. (420' E of Alafaya Woods Blvd. to Alafaya Woods Blvd.)

Add Turn Lanes/ Lengthen (Left turn)

ITEM NO.	ITEM DESCRIPTION	Winter 2016			Fiscal Year 2016	
		QUANTITY	UNIT	UNIT PRICE	TOTAL COST	
101-1	MOBILIZATION	1	LS	\$5,000.00	\$5,000.00	
102-1	MAINTENANCE OF TRAFFIC	1	LS	\$3,000.00	\$3,000.00	
104-20	EROSION CONTROL	1	LS	\$1,000.00	\$1,000.00	
110-1-2	CLEARING & GRUBBING	0.08	AC	\$20,000.00	\$2,000.00	
120-6	EMBANKMENT	132	CY	\$5.00	\$1,000.00	
160-4	TYPE B STABILIZATION	327	SY	\$5.00	\$2,000.00	
285-707	OPTIONAL BASE,BASE GROUP 06	280	SY	\$20.00	\$6,000.00	
327-70-1	MILLING, 1"	280	SY	\$2.50	\$1,000.00	
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	23	TN	\$100.00	\$3,000.00	
337-7-42	FRICTION COURSE FC-9.5, PG 76-22, PMA (TRAF C)	31	TN	\$180.00	\$6,000.00	
520-1-10	CURB AND GUTTER TYPE F	210	LF	\$17.00	\$4,000.00	
570-1	SODDING	70	SY	\$5.00	\$1,000.00	
0710-11-170	PAINTED PAVT MARK,STD,WHITE, ARROWS	4	EA	\$30.00	\$200.00	
	TRAFFIC STRIPE (6" WHITE AND YELLOW)	420	LF	\$1.00	\$420.00	
Length of Project (ft.)		SUB- TOTAL			\$36,000.00	
	210	CONTINGENCY (20%)			\$8,000.00	
Superpave Depth (in.)		DESIGN FEES (15%)			\$7,000.00	
	1.5	CEI FEES (10%)			\$5,000.00	
FC Depth (in.)						
	1	TOTAL ESTIMATED CONSTRUCTION COST (2016) :			\$44,000.00	

ESTIMATE BASIS AND ASSUMPTIONS:

- Construction cost is equal to the sum of sub-total and contingency. Design fees and CEI fees subject to change.
 - The mobilization costs are based on 15% of the construction cost
 - Embankment to 1 ft depth
 - No specialized landscaping (beyond sodding)
 - Utility relocations by others
 - 1.5" depth superpave
 - 1" depth friction course
 - No R/W, Pond, Utility, Relocation Costs are included in Cost Estimate
- SOURCE: Unit Costs per FDOT (Area 8) averages (09/2014 - 08/2015)

Engineer's Opinion of Probable Cost

SE-20 Mitchell Hammock Road (Eastbridge Dr. to Henson Ct.)
Traffic Calming/Intersection Traffic Signalization
Winter 2016

Fiscal Year 2016

ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL COST
101- 1	MOBILIZATION	1	LS	\$44,000.00	\$44,000.00
102- 1	MAINTENANCE OF TRAFFIC	1	LS	\$38,000.00	\$38,000.00
	INTERSECTION TRAFFIC SIGNAL*	1	EA	\$250,000.00	\$250,000.00
SUB- TOTAL					\$332,000.00
CONTINGENCY (20%)					\$67,000.00
DESIGN FEES (15%)					\$60,000.00
CEI FEES (10%)					\$46,000.00
TOTAL ESTIMATED CONSTRUCTION COST (2016) :					\$400,000.00

ESTIMATE BASIS AND ASSUMPTIONS:

- No R/W, Pond, Utility, Relocation Costs are included in Cost Estimate
- Estimate does not include utility relocation costs.
- The mobilization costs are based on 15% of the construction cost
- Speed humps/ speed tables placed at 450' spacing
- No specialized landscaping (beyond sodding)
- Utility relocations by others

*Based on HDR signal estimate August 2016

SOURCE: Unit Costs per FDOT (Area 8) averages (09/2014 - 08/2015)

Engineer's Opinion of Probable Construction Cost

SE-21 (Mitchell Hammock Rd. and Lockwood Blvd.)

Curb Reconstruction

Winter 2016

Fiscal Year 2016

ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL COST
101-1	MOBILIZATION	1	LS	\$5,000.00	\$5,000.00
102-1	MAINTENANCE OF TRAFFIC	1	LS	\$2,000.00	\$2,000.00
110-1-2	CLEARING & GRUBBING	0.01	AC	\$20,000.00	\$300.00
120-6	EMBANKMENT	20	CY	\$5.00	\$200.00
160-4	TYPE B STABILIZATION	38	SY	\$5.00	\$200.00
285-707	OPTIONAL BASE,BASE GROUP 06	36	SY	\$20.00	\$800.00
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	3	TN	\$100.00	\$300.00
337-7-42	FRICTION COURSE FC-9.5, PG 76-22, PMA (TRAF C)	2	TN	\$180.00	\$400.00
520-1-10	CURB AND GUTTER TYPE F	155	LF	\$17.00	\$2,700.00
522-1	CONCRETE SIDEWALK, 4" THICK	6	SY	\$35.00	\$200.00
570-1	SODDING	21	SY	\$5.00	\$200.00
	TRAFFIC STRIPE (6" WHITE AND YELLOW)	200	LF	\$1.00	\$200.00
	DRAINAGE IMPROVEMENTS (PIPE & INLETS)	1	LS	\$4,690.00	\$4,700.00
	PEDESTRIAN SIGNAL	1	LS	\$2,000.00	\$2,000.00
	SUB- TOTAL				\$19,200.00
	CONTINGENCY (20%)				\$3,900.00
Superpave Depth (in.)	DESIGN FEES (15%)				\$3,500.00
1.5	CEI FEES (10%)				\$2,700.00
FC Depth (in.)					
1					
	TOTAL ESTIMATED CONSTRUCTION COST (2016) :				\$24,000.00

ESTIMATE BASIS AND ASSUMPTIONS:

- Construction cost is equal to the sum of sub-total and contingency. Design fees and CEI fees subject to change.
- The mobilization costs are based on 15% of the construction cost
- Embankment to 1 ft depth (R/W to R/W)
- No specialized landscaping (beyond sodding)
- Utility relocations by others
- 1.5" depth superpave
- 1" depth friction course
- No R/W, Pond, Utility, Relocation Costs are included in Cost Estimate

SOURCE: Unit Costs per FDOT (Area 8) averages (09/2014 - 08/2015)

Engineer's Opinion of Probable Construction Cost

SW-5 Mitchell Hammock Rd. at SR 434
 Add Turn Lanes/ Lengthen (Left turn)

ITEM NO.	ITEM DESCRIPTION	Winter 2016		Fiscal Year 2016	
		QUANTITY	UNIT	UNIT PRICE	TOTAL COST
101-1	MOBILIZATION	1	LS	\$44,000.00	\$44,000.00
102-1	MAINTENANCE OF TRAFFIC	1	LS	\$30,000.00	\$30,000.00
104-20	EROSION CONTROL	1	LS	\$2,160.00	\$3,000.00
110-1-2	CLEARING & GRUBBING	0.56	AC	\$20,000.00	\$18,000.00
120-6	EMBANKMENT	907	CY	\$5.00	\$7,000.00
160-4	TYPE B STABILIZATION	2,240	SY	\$5.00	\$12,000.00
285-707	OPTIONAL BASE,BASE GROUP 06	1,920	SY	\$20.00	\$39,000.00
327-70-1	MILLING, 1"	1,920	SY	\$2.50	\$11,000.00
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	158	TN	\$100.00	\$16,000.00
337-7-42	FRICTION COURSE FC-9.5, PG 76-22, PMA (TRAF C)	211	TN	\$180.00	\$61,000.00
520-1-10	CURB AND GUTTER TYPE F	1,440	LF	\$17.00	\$25,000.00
522-1	CONCRETE SIDEWALK, 4' THICK	800	SY	\$35.00	\$28,000.00
570-1	SODDING	480	SY	\$5.00	\$6,000.00
0710-11-170	PAINTED PAVT MARK,STD,WHITE, ARROWS	4	EA	\$30.00	\$300.00
	TRAFFIC STRIPE (6" WHITE AND YELLOW)	2,880	LF	\$1.00	\$8,000.00
	DRAINAGE IMPROVEMENTS (PIPE & INLETS)	1,440	LF	\$18.30	\$27,000.00
	SIGNAL POLE REPLACEMENT	1	EA	\$75,000.00	\$75,000.00
Length of Project (ft.)		SUB- TOTAL		\$411,000.00	
	1,440	CONTINGENCY (20%)		\$83,000.00	
Superpave Depth (in.)		DESIGN FEES (15%)		\$75,000.00	
	1.5	CEI FEES (10%)		\$57,000.00	
FC Depth (in.)					
	1				
TOTAL ESTIMATED CONSTRUCTION COST (2016) :				\$500,000.00	

ESTIMATE BASIS AND ASSUMPTIONS:

- Construction cost is equal to the sum of sub-total and contingency. Design fees and CEI fees subject to change.
 - The mobilization costs are based on 15% of the construction cost
 - Embankment to 1 ft depth
 - No specialized landscaping (beyond sodding)
 - Utility relocations by others
 - 1.5" depth superpave
 - 1" depth friction course
 - No R/W, Pond, Utility, Relocation Costs are included in Cost Estimate
- SOURCE: Unit Costs per FDOT (Area 8) averages (09/2014 - 08/2015)

Engineer's Opinion of Probable Cost

SW-4 S. Lake Jessup Ave. Extension (SR 434 to S. Lake Jessup Ave)

New 2 Lane Road

Winter 2016

Fiscal Year 2016

ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL COST
101- 1	MOBILIZATION	1	LS	\$131,000.00	\$131,000.00
102- 1	MAINTENANCE OF TRAFFIC	1	LS	\$114,000.00	\$114,000.00
104- 20	EROSION CONTROL	1	LS	\$3,675.00	\$4,000.00
110-1-2	CLEARING & GRUBBING	2.81	AC	\$20,000.00	\$57,000.00
120-6	EMBANKMENT	4,537	CY	\$5.00	\$23,000.00
160-4	TYPE B STABILIZATION	7,622	SY	\$5.00	\$39,000.00
285-706	OPTIONAL BASE,BASE GROUP 06	6,533	SY	\$20.00	\$131,000.00
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	539	TN	\$100.00	\$54,000.00
337-7-42	FRICTION COURSE FC-9.5, PG 76-22, PMA (TRAF C)	359	TN	\$180.00	\$65,000.00
520-1-10	CURB AND GUTTER TYPE F	4,900	LF	\$17.00	\$84,000.00
522-1	CONCRETE SIDEWALK, 4" THICK	1,361	SY	\$35.00	\$48,000.00
570- 1	SODDING	4,628	SY	\$5.00	\$24,000.00
	TRAFFIC STRIPE (6" WHITE AND YELLOW)	7,350	LF	\$1.00	\$8,000.00
	DRAINAGE IMPROVEMENTS (PIPE & INLETS)	2,450	LF	\$90.00	\$220,500.00
Length of Project (ft.)		SUB- TOTAL			\$1,003,000.00
2,450					
Superpave Depth (in.)		CONTINGENCY (20%)			\$201,000.00
1.5		DESIGN FEES (15%)			\$181,000.00
FC Depth (in.)		CEI FEES (10%)			\$208,000.00
1					
	TOTAL ESTIMATED CONSTRUCTION COST (2016) :				\$1,210,000.00

ESTIMATE BASIS AND ASSUMPTIONS:

- The mobilization costs are based on 15% of the construction cost
 - Embankment to 1 ft depth (R/W to R/W)
 - Assume section width of 50' for limits of construction
 - No specialized landscaping (beyond sodding)
 - Utility relocations by others
 - 1.5" depth superpave
 - 1" depth friction course
 - No R/W, Pond, Utility, Relocation Costs are included in Cost Estimate
- SOURCE: Unit Costs per FDOT (Area 8) averages (09/2014 - 08/2015)

Engineer's Opinion of Probable Construction Cost

SE-2 Oviedo Blvd (Mitchell Hammock Rd. to Alexandria Blvd.)

New 4 Lane Road

Winter 2016

Fiscal Year 2016

ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL COST
101-1	MOBILIZATION	1	LS	\$129,000.00	\$129,000.00
102-1	MAINTENANCE OF TRAFFIC	1	LS	\$112,000.00	\$112,000.00
104-20	EROSION CONTROL	1	LS	\$2,250.00	\$2,000.00
110-1-2	CLEARING & GRUBBING	3.65	AC	\$20,000.00	\$74,000.00
120-6	EMBANKMENT	5,889	CY	\$5.00	\$30,000.00
160-4	TYPE B STABILIZATION	10,667	SY	\$5.00	\$53,000.00
285-706	OPTIONAL BASE,BASE GROUP 06	9,333	SY	\$20.00	\$187,000.00
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	770	TN	\$100.00	\$77,000.00
337-7-42	FRICITION COURSE FC-9.5, PG 76-22, PMA (TRAF C)	513	TN	\$2.50	2,000.00
520-1-10	CURB AND GUTTER TYPE F	3,000	LF	\$17.00	\$51,000.00
520-1-7	CURB AND GUTTER TYPE E	3,000	LF	\$14.00	\$42,000.00
522-1	CONCRETE SIDEWALK, 4" THICK	1,667	SY	\$35.00	\$59,000.00
570-1	SODDING	5,333	SY	\$5.00	\$27,000.00
	TRAFFIC STRIPE (6" WHITE AND YELLOW)	12,000	LF	\$1.00	\$12,000.00
	DRAINAGE IMPROVEMENTS (PIPE & INLETS)	1,500	LF	\$90.00	\$135,000.00
Length of Project (ft.)		SUB- TOTAL			\$992,000.00
1,500					
Superpave Depth (in.)		CONTINGENCY (20%)			\$198,000.00
1.5		DESIGN FEES (15%)			\$179,000.00
Friction Course Depth (in.)		CEI FEES (10%)			\$137,000.00
1					
	TOTAL ESTIMATED CONSTRUCTION COST (2016) :				\$1,190,000.00

ESTIMATE BASIS AND ASSUMPTIONS:

- Construction cost is equal to the sum of sub-total and contingency. Design fees and CEI fees subject to change.
 - The mobilization costs are based on 15% of the construction cost
 - Embankment to 1 ft depth (R/W to R/W)
 - No specialized landscaping (beyond sodding)
 - Utility relocations by others
 - 1.5" depth superpave
 - 1" depth friction course
 - 4' bike lane
 - No R/W, Pond, Utility, Relocation Costs are included in Cost Estimate
- SOURCE: Unit Costs per FDOT (Area 8) averages (09/2014 - 08/2015)

Engineer's Opinion of Probable Construction Cost

SE-3 Mitchell Hammock Rd. (Mitchell Hammock Rd. to City Plaza Way)

Add Turn Lanes/ Lengthen (Right Lane)

Winter 2016

Fiscal Year 2016

ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL COST
101-1	MOBILIZATION	1	LS	\$8,000.00	\$8,000.00
102-1	MAINTENANCE OF TRAFFIC	1	LS	\$5,000.00	\$5,000.00
104-20	EROSION CONTROL	1	LS	\$1,000.00	\$1,000.00
110-1-2	CLEARING & GRUBBING	0.17	AC	\$20,000.00	\$4,000.00
120-6	EMBANKMENT	279	CY	\$5.00	\$2,000.00
160-4	TYPE B STABILIZATION	451	SY	\$5.00	\$3,000.00
285-707	OPTIONAL BASE,BASE GROUP 06	387	SY	\$20.00	\$8,000.00
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	32	TN	\$100.00	\$4,000.00
337-7-42	FRICTION COURSE FC-9.5, PG 76-22, PMA (TRAF C)	21	TN	\$180.00	\$4,000.00
520-1-10	CURB AND GUTTER TYPE F	290	LF	\$17.00	\$5,000.00
522-1	CONCRETE SIDEWALK, 4" THICK	161	SY	\$35.00	\$6,000.00
570- 1	SODDING	226	SY	\$5.00	\$2,000.00
0710-11-170	PAINTED PAVT MARK,STD,WHITE, ARROWS	4	EA	\$30.00	\$200.00
	TRAFFIC STRIPE (6" WHITE AND YELLOW)	580	LF	\$1.00	\$600.00
	DRAINAGE IMPROVEMENTS (PIPE & INLETS)	290	LF	\$20.00	\$6,000.00
Length of Project (ft.)		SUB- TOTAL			\$59,000.00
290		CONTINGENCY (20%)			\$12,000.00
Superpave Depth (in.)		DESIGN FEES (15%)			\$11,000.00
1.5		CEI FEES (10%)			\$8,000.00
FC Depth (in.)					
1		TOTAL ESTIMATED CONSTRUCTION COST (2016) :			\$71,000.00

ESTIMATE BASIS AND ASSUMPTIONS:

- Construction cost is equal to the sum of sub-total and contingency. Design fees and CEI fees subject to change.
 - The mobilization costs are based on 15% of the construction cost
 - Embankment to 1 ft depth
 - No specialized landscaping (beyond sodding)
 - Utility relocations by others
 - 1.5" depth superpave
 - 1" depth friction course
 - No R/W, Pond, Utility, Relocation Costs are included in Cost Estimate
- SOURCE: Unit Costs per FDOT (Area 8) averages (09/2014 - 08/2015)

Engineer's Opinion of Probable Construction Cost

NW-9 SR-417 / Winter Springs Blvd. Interchange

Interchange
Winter 2016

Fiscal Year 2016

ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL COST
101-1	MOBILIZATION	1	LS	\$792,000.00	\$792,000.00
102-1	MAINTENANCE OF TRAFFIC	1	LS	\$689,000.00	\$689,000.00
104-20	EROSION CONTROL	1	LS	\$8,460.00	\$9,000.00
110-1-2	CLEARING & GRUBBING	4	AC	\$20,000.00	\$88,000.00
120-6	EMBANKMENT	21,230	CY	\$5.00	\$107,000.00
160-4	TYPE B STABILIZATION	16,240	SY	\$5.00	\$82,000.00
285-707	OPTIONAL BASE,BASE GROUP 06	14,190	SY	\$20.00	\$284,000.00
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	1,180	TN	\$100.00	\$118,000.00
337-7-42	FRICTION COURSE FC-9.5, PG 76-22, PMA (TRAF C)	790.00	TN	\$180.00	\$143,000.00
521-7-1	CONC TRAF RAIL BARRIER, RET WALL SYS/SND	3,600	LF	\$440.00	\$1,584,000.00
548-12	RET WALL SYSTEM, PERM, EX BARRIER	72,000	SF	\$25.00	\$1,800,000.00
570-1	SODDING	7,040	SY	\$5.00	\$36,000.00
0710-11-170	PAINTED PAVT MARK,STD,WHITE, ARROWS	10	EA	\$30.00	\$300.00
	TRAFFIC STRIPE (6" WHITE AND YELLOW)	11,280	LF	\$1.00	\$12,000.00
	DRAINAGE IMPROVEMENTS (PIPE & INLETS)	3,600	LF	\$90.00	\$324,000.00
Length of Project (ft.)			SUB- TOTAL		\$6,069,000.00
5,640			CONTINGENCY (20%)		\$1,214,000.00
Superpave Depth (in)			DESIGN FEES (15%)		\$1,093,000.00
1.5			CEI FEES (10%)		\$838,000.00
FC Depth (in.)					
1					
			TOTAL ESTIMATED CONSTRUCTION COST (2016) :		\$7,290,000.00

ESTIMATE BASIS AND ASSUMPTIONS:

- Construction cost is equal to the sum of sub-total and contingency. Design fees and CEI fees subject to change.
 - The mobilization costs are based on 15% of the construction cost
 - Embankment to 3 ft depth (R/W to R/W)
 - No specialized landscaping (beyond sodding)
 - 1.5" depth superpave
 - 1" depth friction course
 - Does not include the cost of a toll plaza
 - Utility relocation by others
 - No R/W, Pond, Utility, Relocation Costs are included in Cost Estimate
- SOURCE: Unit Costs per FDOT (Area 8) averages (09/2014 - 08/2015)

Engineer's Opinion of Probable Construction Cost

SE-5 Oviedo Blvd. (Baldwin Fairchild shopping complex to Oviedo Blvd.)

New 2 Lane Road

Winter 2016

Fiscal Year 2016

ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL COST
101-1	MOBILIZATION	1	LS	\$30,000.00	\$30,000.00
102-1	MAINTENANCE OF TRAFFIC	1	LS	\$26,000.00	\$26,000.00
104-20	EROSION CONTROL	1	LS	\$1,000.00	\$1,000.00
110-1-2	CLEARING & GRUBBING	0.63	AC	\$20,000.00	\$13,000.00
120-6	EMBANKMENT	1,019	CY	\$5.00	\$6,000.00
160-4	TYPE B STABILIZATION	1,711	SY	\$5.00	\$9,000.00
285-706	OPTIONAL BASE, BASE GROUP 06	1,467	SY	\$20.00	\$30,000.00
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	121	TN	\$100.00	\$13,000.00
337-7-42	FRICTION COURSE FC-9.5, PG 76-22, PMA (TRAF C)	81	TN	\$180.00	\$15,000.00
520-1-10	CONCRETE CURB & GUTTER TYPE F	1,100	LF	\$17.00	\$19,000.00
522-1	CONCRETE SIDEWALK, 4" THICK	306	SY	\$35.00	\$11,000.00
570-1	SODDING	1,039	SY	\$5.00	\$6,000.00
	TRAFFIC STRIPE (6" WHITE AND YELLOW)	1,650	LF	\$1.00	\$2,000.00
	DRAINAGE IMPROVEMENTS (PIPE & INLETS)	550	LF	\$90.00	\$50,000.00
Length of Project (ft.)		SUB- TOTAL			\$231,000.00
550					
Superpave Depth (in)		CONTINGENCY (20%)			\$47,000.00
1.5		DESIGN FEES (15%)			\$42,000.00
Frcition Course Depth (in)		CEI FEES (10%)			\$32,000.00
1					
TOTAL ESTIMATED CONSTRUCTION COST (2016) :					\$278,000.00

ESTIMATE BASIS AND ASSUMPTIONS:

- Construction cost is equal to the sum of sub-total and contingency. Design fees and CEI fees subject to change.
 - The mobilization costs are based on 15% of the construction cost
 - Embankment to 1 ft depth (R/W to R/W)
 - No specialized landscaping (beyond sodding)
 - Utility relocations by others
 - Assume section width of 50' for limits of construction
 - 1.5" depth superpave
 - 1" depth friction course
 - No R/W, Pond, Utility, Relocation Costs are included in Cost Estimate
- SOURCE: Unit Costs per FDOT (Area 8) averages (09/2014 - 08/2015)

Engineer's Opinion of Probable Cost

SE-22 Clara Lee Evans Way at Alexandria Boulevard
 Traffic Calming/Intersection Traffic Signalization
 Winter 2016

Fiscal Year 2016

ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL COST
101- 1	MOBILIZATION	1	LS	\$36,000.00	\$36,000.00
102- 1	MAINTENANCE OF TRAFFIC	1	LS	\$31,000.00	\$31,000.00
	INTERSECTION TRAFFIC SIGNAL*	1	EA	\$205,000.00	\$205,000.00
SUB- TOTAL					\$272,000.00
CONTINGENCY (20%)					\$55,000.00
DESIGN FEES (15%)					\$50,000.00
CEI FEES (10%)					\$38,000.00
TOTAL ESTIMATED CONSTRUCTION COST (2016) :					\$330,000.00

ESTIMATE BASIS AND ASSUMPTIONS:

- No R/W, Pond, Utility, Relocation Costs are included in Cost Estimate
- Estimate does not include utility relocation costs.
- The mobilization costs are based on 15% of the construction cost
- Speed humps/ speed tables placed at 450' spacing
- No specialized landscaping (beyond sodding)
- Utility relocations by others

*Based on HDR signal estimate August 2016

SOURCE: Unit Costs per FDOT (Area 8) averages (09/2014 - 08/2015)

Engineer's Opinion of Probable Construction Cost

EXT-4 Shangri La Lane Connection (Shangri La Ln. to Calypso Way)
 New 2 Lane Road
 Winter 2016

Fiscal Year 2016

ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL COST
101-1	MOBILIZATION	1	LS	\$65,000.00	\$65,000.00
102-1	MAINTENANCE OF TRAFFIC	1	LS	\$56,000.00	\$56,000.00
104-20	EROSION CONTROL	1	LS	\$1,725.00	\$2,000.00
110-1-2	CLEARING & GRUBBING	1.32	AC	\$20,000.00	\$27,000.00
120-6	EMBANKMENT	2,130	CY	\$5.00	\$11,000.00
160-4	TYPE B STABILIZATION	3,578	SY	\$5.00	\$18,000.00
285-706	OPTIONAL BASE, BASE GROUP 06	3,067	SY	\$20.00	\$62,000.00
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	253	TN	\$100.00	\$26,000.00
337-7-42	FRICTION COURSE FC-9.5, PG 76-22, PMA (TRAF C)	169	TN	\$180.00	\$31,000.00
520-1-10	CONCRETE CURB & GUTTER TYPE F	2,300	LF	\$17.00	\$40,000.00
522-1	CONCRETE SIDEWALK, 4" THICK	1,278	SY	\$35.00	\$45,000.00
570-1	SODDING	1,533	SY	\$5.00	\$8,000.00
	TRAFFIC STRIPE (6" WHITE AND YELLOW)	3,450	LF	\$1.00	\$4,000.00
	DRAINAGE IMPROVEMENTS (PIPE & INLETS)	1,150	LF	\$90.00	\$104,000.00
	Length of Project (ft.)			SUB- TOTAL	\$499,000.00
	1,150				
	Superpave Depth (in)			CONTINGENCY (20%)	\$100,000.00
	1.5			DESIGN FEES (15%)	\$90,000.00
	Frcition Course Depth (in)			CEI FEES (10%)	\$69,000.00
	1				
				TOTAL ESTIMATED CONSTRUCTION COST (2016) :	\$600,000.00

ESTIMATE BASIS AND ASSUMPTIONS:

- Construction cost is equal to the sum of sub-total and contingency. Design fees and CEI fees subject to change.
 - The mobilization costs are based on 15% of the construction cost
 - Embankment to 1 ft depth (R/W to R/W)
 - Assume section width of 50' for limits of construction
 - No specialized landscaping (beyond sodding)
 - Utility relocations by others
 - 1.5" depth superpave
 - 1" depth friction course
 - No R/W, Pond, Utility, Relocation Costs are included in Cost Estimate
- SOURCE: Unit Costs per FDOT (Area 8) averages (09/2014 - 08/2015)

Engineer's Opinion of Probable Construction Cost

SE-4 Mitchell Hammock Rd. (Oviedo Blvd. to WB Mitchell Hammock Rd.)

Sidewalk
Winter 2016

Fiscal Year 2016

ITEM NO.	ITEM DESCRIPTION	TOTAL		Fiscal Year 2016	
		QUANTITY	UNIT	UNIT PRICE	TOTAL COST
101-1	MOBILIZATION	1	LS	\$8,000.00	\$8,000.00
102-1	MAINTENANCE OF TRAFFIC	1	LS	\$7,000.00	\$7,000.00
104-20	EROSION CONTROL	1	LS	\$1,650.00	\$2,000.00
110-1-1	CLEARING & GRUBBING	0.30	AC	\$20,000.00	\$7,000.00
120-6	EMBANKMENT	489	CY	\$5.00	\$3,000.00
522-1	CONCRETE SIDEWALK, 4" THICK	611	SY	\$35.00	\$22,000.00
570-1	SODDING	856	SY	\$5.00	\$5,000.00
	SIGNING & PAVEMENT MARKING	1	LS	\$5,000.00	\$5,000.00
	RELOCATE CROSSWALK	1	LS	\$4,000.00	\$4,000.00
Length of Project (ft.)		SUB- TOTAL		\$63,000.00	
	1,100				
		CONTINGENCY (15%)		\$10,000.00	
		DESIGN FEES (15%)		\$11,000.00	
		CEI FEES (10%)		\$8,000.00	
TOTAL ESTIMATED CONSTRUCTION COST (2016) :				\$73,000.00	

ESTIMATE BASIS AND ASSUMPTIONS:

- Construction cost is equal to the sum of sub-total and contingency. Design fees and CEI fees subject to change.
 - The mobilization costs are based on 15% of the construction cost
 - Embankment to 1 ft depth (Limits of Construction)
 - No specialized landscaping (beyond sodding)
 - Utility relocations by others
 - No R/W, Pond, Utility, Relocation Costs are included in Cost Estimate
- SOURCE: Unit Costs per FDOT (Area 8) averages (09/2014 - 08/2015)

Engineer's Opinion of Probable Cost

SE-1 Mitchell Hammock Rd. (From: SR 434 To: Lockwood Blvd)
 Widening 4 to 6 Lanes

ITEM NO.	ITEM DESCRIPTION	Winter 2016		Fiscal Year 2016	
		QUANTITY	UNIT	UNIT PRICE	TOTAL COST
101- 1	MOBILIZATION	1	LS	\$454,000.00	\$454,000.00
102- 1	MAINTENANCE OF TRAFFIC	1	LS	\$392,000.00	\$392,000.00
104- 20	EROSION CONTROL	1	LS	\$27,900.00	\$27,900.00
110-1-1	CLEARING & GRUBBING	7.79	AC	\$20,000.00	\$156,000.00
120-6	EMBANKMENT	12,572	CY	\$5.00	\$63,000.00
160-4	TYPE B STABILIZATION	39,783	SY	\$5.00	\$199,000.00
285-706	OPTIONAL BASE,BASE GROUP 06	33,067	SY	\$20.00	\$661,000.00
327-70-1	Milling 1"	49,600	SY	\$2.50	\$124,000.00
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	2,728	TN	\$100.00	\$273,000.00
337-7-42	FRICITION COURSE FC-9.5, PG 76-22, PMA (TRAF C)	4,546	TN	\$180.00	\$818,000.00
520-1-10	CURB AND GUTTER TYPE E	18,600	LF	\$14.00	\$260,000.00
	TRAFFIC STRIPE (6" WHITE AND YELLOW)	55,800	LF	\$1.00	\$56,000.00
Length of Project (ft.)		SUB- TOTAL			\$3,484,000.00
9,300					
Pavement Depth (in.)		CONTINGENCY (20%)			\$697,000.00
1.5		DESIGN FEES (15%)			\$627,000.00
Friction Course (in.)		CEI FEES (10%)			\$481,000.00
1					
	TOTAL ESTIMATED CONSTRUCTION COST (2016) :				\$4,180,000.00

ESTIMATE BASIS AND ASSUMPTIONS:

- The mobilization costs are based on 15% of the construction cost
 - Embankment to 1 ft depth
 - No specialized landscaping (beyond sodding)
 - Utility relocations by others
 - 1.5" depth superpave
 - 1" depth friction course
 - 7' bike lane
 - No R/W, Pond, Utility, Relocation Costs are included in Cost Estimate
 - Inside Widening
- SOURCE: Unit Costs per FDOT (Area 8) averages (09/2014 - 08/2015)

Engineer's Opinion of Probable Cost

SE-10 Chapman Rd. Ext. (From:Lake Gregg Cove To:Ragsdale Rd.)

New 2 Lane Road

Fall 2015

Fiscal Year 2015

ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL COST
101- 1	MOBILIZATION	1	LS	\$24,000.00	\$24,000.00
102- 1	MAINTENANCE OF TRAFFIC	1	LS	\$21,000.00	\$21,000.00
104- 20	EROSION CONTROL	1	LS	\$1,000.00	\$1,000.00
110-1-2	CLEARING & GRUBBING	0.5	AC	\$20,000.00	\$11,000.00
120-6	EMBANKMENT	833.3	CY	\$5.00	\$5,000.00
160-4	TYPE B STABILIZATION	1,300	SY	\$5.00	\$7,000.00
285-706	OPTIONAL BASE,BASE GROUP 06	1,200	SY	\$20.00	\$24,000.00
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	99	TN	\$100.00	\$10,000.00
337-7-42	FRICITION COURSE FC-9.5, PG 76-22, PMA (TRAF C)	66	TN	\$180.00	12,000.00
522-1	CONCRETE SIDEWALK, 4" THICK	500	SY	\$35.00	\$18,000.00
570- 1	SODDING	800	SY	\$5.00	\$4,000.00
	TRAFFIC STRIPE (6" WHITE AND YELLOW)	1,350	LF	\$1.00	\$2,000.00
	DRAINAGE IMPROVEMENTS (PIPE & INLETS)	450	LF	\$90.00	\$41,000.00

Length of Project (ft.)	SUB- TOTAL	\$180,000.00
450		
Pavement Depth (in.)	CONTINGENCY (20%)	\$36,000.00
1.5	DESIGN FEES (15%)	\$33,000.00
	CEI FEES (10%)	\$25,000.00

TOTAL ESTIMATED CONSTRUCTION COST (2015) :	\$220,000.00
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ESTIMATE BASIS AND ASSUMPTIONS:

- The mobilization costs are based on 15% of the construction cost
 - Embankment to 1 ft depth
 - No specialized landscaping (beyond sodding)
 - Utility relocations by others
 - 1.5" depth superpave
 - 1" depth friction course
 - No R/W, Pond, Utility, Relocation Costs are included in Cost Estimate
- SOURCE: Unit Costs per FDOT (Area 8) averages (09/2014 - 08/2015)

Engineer's Opinion of Probable Construction Cost

SE-11 McKinnon Ave. Traffic Calming (Gould Pl. to Ragsdale Rd.)

Traffic Calming

Winter 2016

Fiscal Year 2016

ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL COST
101-1	MOBILIZATION	1	LS	\$5,000.00	\$5,000.00
102-1	MAINTENANCE OF TRAFFIC	1	LS	\$5,000.00	\$5,000.00
	SPEED HUMP	5	EA	\$3,500.00	\$17,500.00
	SPEED TABLE	-	EA	\$4,400.00	\$0.00
	RAISED CROSSWALK	-	EA	\$4,400.00	\$0.00

Length of Project	SUB- TOTAL	\$27,500.00
2,000		
	CONTINGENCY (20%)	\$6,000.00
	DESIGN FEES (15%)	\$6,000.00
	CEI FEES (10%)	\$4,000.00
TOTAL ESTIMATED CONSTRUCTION COST (2016) :		\$40,000.00

ESTIMATE BASIS AND ASSUMPTIONS:

- Construction cost is equal to the sum of sub-total and contingency. Design fees and CEI fees subject to change.
- No R/W, Pond, Utility, Relocation Costs are included in Cost Estimate
- Estimate does not include utility relocation costs.
- The mobilization costs are based on 15% of the construction cost
- Speed humps/ speed tables placed at 450' spacing
- No specialized landscaping (beyond sodding)
- Utility relocations by others

SOURCE: Unit Costs per FDOT (Area 8) averages (09/2014 - 08/2015)

Engineer's Opinion of Probable Construction Cost

SE-12 McKinnon Ave. Traffic Calming (Ragsdale Rd. to Alafaya Woods Blvd.)

**Traffic Calming
Winter 2016**

Fiscal Year 2016

ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL COST
101-1	MOBILIZATION	1	LS	\$5,000.00	\$5,000.00
102-1	MAINTENANCE OF TRAFFIC	1	LS	\$5,000.00	\$5,000.00
	SPEED HUMP	3	EA	\$3,500.00	\$10,500.00
	SPEED TABLE	-	EA	\$4,400.00	\$0.00
	RAISED CROSSWALK	-	EA	\$4,400.00	\$0.00

Length of Project	SUB- TOTAL	\$20,500.00
1,050	CONTINGENCY (20%)	\$5,000.00
	DESIGN FEES (15%)	\$4,000.00
	CEI FEES (10%)	\$3,000.00
TOTAL ESTIMATED CONSTRUCTION COST (2016) :		\$30,000.00

ESTIMATE BASIS AND ASSUMPTIONS:

- Construction cost is equal to the sum of sub-total and contingency. Design fees and CEI fees subject to change.
- No R/W, Pond, Utility, Relocation Costs are included in Cost Estimate
- Estimate does not include utility relocation costs.
- The mobilization costs are based on 15% of the construction cost
- Speed humps/ speed tables placed at 450' spacing
- No specialized landscaping (beyond sodding)
- Utility relocations by others

SOURCE: Unit Costs per FDOT (Area 8) averages (09/2014 - 08/2015)

Engineer's Opinion of Probable Cost

NW-2 Franklin St. Ext. (From: Lake Jessup Ave. To:Central Ave)

New 2 Lane Road

Winter 2016

Fiscal Year 2015

ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL COST
101- 1	MOBILIZATION	1	LS	\$49,000.00	\$49,000.00
102- 1	MAINTENANCE OF TRAFFIC	1	LS	\$42,000.00	\$42,000.00
104- 20	EROSION CONTROL	1	LS	\$1,350.00	\$2,000.00
110-1-2	CLEARING & GRUBBING	1.0	AC	\$20,000.00	\$21,000.00
120-6	EMBANKMENT	1,667.0	CY	\$5.00	\$9,000.00
160-4	TYPE B STABILIZATION	2,800	SY	\$5.00	\$14,000.00
285-706	OPTIONAL BASE,BASE GROUP 06	2,400	SY	\$20.00	\$48,000.00
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	198	TN	\$100.00	\$20,000.00
337-7-42	FRICITION COURSE FC-9.5, PG 76-22, PMA (TRAF C)	132.00	TN	\$180.00	24,000.00
520-1-10	CURB AND GUTTER TYPE F	1,800	LF	\$17.00	\$31,000.00
522-1	CONCRETE SIDEWALK, 4" THICK	500.00	SY	\$35.00	18,000.00
570- 1	SODDING	1,700	SY	\$5.00	\$9,000.00
	TRAFFIC STRIPE (6" WHITE AND YELLOW)	2,700.00	LF	\$1.00	3,000.00
	Drainage Improvements (Pipe & Inlets)	900	LF	\$90.00	\$81,000.00
Length of Project (ft.)		SUB- TOTAL			\$371,000.00
900					
Pavement Depth (in.)		CONTINGENCY (20%)			\$74,000.00
1.5		DESIGN FEES (15%)			\$67,000.00
		CEI FEES (10%)			\$51,000.00
TOTAL ESTIMATED CONSTRUCTION COST (2015) :					\$450,000.00

ESTIMATE BASIS AND ASSUMPTIONS:

- Estimate does not include utility relocation costs.
- The mobilization costs are based on 15% of the construction cost
- Embankment to 1 ft depth
- No R/W Impact
- No specialized landscaping (beyond sodding)
- Utility relocations by others
- 1.5" depth superpave
- 1" depth friction course

SOURCE: Unit Costs per FDOT (Area 8) averages (09/2014 - 08/2015)

Engineer's Opinion of Probable Cost

SE-7 Hamilton Dr. Ext. (From:Oviedo Blvd. To:Hamilton Ave.)

New 2 Lane Road

ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	Fiscal Year 2015		
				UNIT PRICE	TOTAL COST	
101- 1	MOBILIZATION	1	LS	\$40,000.00	\$40,000.00	
102- 1	MAINTENANCE OF TRAFFIC	1	LS	\$34,000.00	\$34,000.00	
104- 20	EROSION CONTROL	1	LS	\$1,125.00	\$2,000.00	
110-1-2	CLEARING & GRUBBING	0.87	AC	\$20,000.00	\$18,000.00	
120-6	EMBANKMENT	1,389	CY	\$5.00	\$7,000.00	
160-4	TYPE B STABILIZATION	2,167	SY	\$5.00	\$11,000.00	
285-706	OPTIONAL BASE,BASE GROUP 06	2,000	SY	\$20.00	\$40,000.00	
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	165	TN	\$100.00	\$17,000.00	
337-7-42	FRICTION COURSE FC-9.5, PG 76-22, PMA (TRAF C)	110	TN	\$180.00	20,000.00	
522-1	CONCRETE SIDEWALK, 4" THICK	833	SY	\$35.00	\$30,000.00	
570- 1	SODDING	2,167	SY	\$5.00	\$11,000.00	
	TRAFFIC STRIPE (6" WHITE AND YELLOW)	2,250	LF	\$1.00	\$3,000.00	
	DRAINAGE IMPROVEMENTS (PIPE & INLETS)	750	LF	\$90.00	\$68,000.00	
Length of Project(ft.)					SUB- TOTAL	\$301,000.00
	750					
Pavement Depth (in.)					CONTINGENCY (20%)	\$61,000.00
	1.5				DESIGN FEES (15%)	\$55,000.00
					CEI FEES (10%)	\$42,000.00
TOTAL ESTIMATED CONSTRUCTION COST (2015) :						\$370,000.00

ESTIMATE BASIS AND ASSUMPTIONS:

- The mobilization costs are based on 15% of the construction cost
 - Embankment to 1 ft depth
 - No specialized landscaping (beyond sodding)
 - Utility relocations by others
 - 1.5" depth superpave
 - 1" depth friction course
 - No R/W, Pond, Utility, Relocation Costs are included in Cost Estimate
- SOURCE: Unit Costs per FDOT (Area 8) averages (09/2014 - 08/2015)

Engineer's Opinion of Probable Construction Cost

SE-9 Doctors Dr. (Oviedo Blvd. to SR 419)
Traffic Calming
Winter 2016

Fiscal Year 2016

ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL COST
101-1	MOBILIZATION	1	LS	\$5,000.00	\$5,000.00
102-1	MAINTENANCE OF TRAFFIC	1	LS	\$5,000.00	\$5,000.00
	SPEED HUMP	5	EA	\$3,500.00	\$17,500.00
	SPEED TABLE	-	EA	\$4,400.00	\$0.00
	RAISED CROSSWALK	-	EA	\$4,400.00	\$0.00

Length of Project	SUB- TOTAL	\$27,500.00
2,150	CONTINGENCY (20%)	\$6,000.00
	DESIGN FEES (15%)	\$6,000.00
	CEI FEES (10%)	\$4,000.00
TOTAL ESTIMATED CONSTRUCTION COST (2016) :		\$33,500.00

ESTIMATE BASIS AND ASSUMPTIONS:

- Construction cost is equal to the sum of sub-total and contingency. Design fees and CEI fees subject to change.
- Estimate does not include utility relocation costs.
- The mobilization costs are based on 15% of the construction cost
- Speed humps/ speed tables placed at 450' spacing
- No R/W Impact
- No specialized landscaping (beyond sodding)
- Utility relocations by others

SOURCE: Unit Costs per FDOT (Area 8) averages (09/2014 - 08/2015)

Engineer's Opinion of Probable Construction Cost

SE-14 Construct Roundabout at Lockwood Blvd. and Riviera Blvd.
 Roundabout Construction

ITEM NO.	ITEM DESCRIPTION	Winter 2016		Fiscal Year 2016	
		QUANTITY	UNIT	UNIT PRICE	TOTAL COST
101-1	MOBILIZATION	1	LS	\$122,000.00	\$122,000.00
102-1	MAINTENANCE OF TRAFFIC	1	LS	\$106,000.00	\$106,000.00
104-20	EROSION CONTROL	1	LS	\$1,000.00	\$1,000.00
110-1-1	CLEARING & GRUBBING	2.06	AC	\$20,000.00	\$42,000.00
120-6	EMBANKMENT	3,330	CY	\$5.00	\$17,000.00
160-4	TYPE B STABILIZATION	7,020	SY	\$5.00	\$36,000.00
285-706	OPTIONAL BASE, BASE GROUP 06	6,210	SY	\$20.00	\$125,000.00
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	620	TN	\$100.00	\$62,000.00
337-7-42	FRICTION COURSE FC-9.5, PG 76-22, PMA (TRAF C)	350	TN	\$180.00	\$63,000.00
350-30-13	CONC PAVT FOR ROUNDABOUT APRON, 12" THICK	460	SY	\$160.00	\$74,000.00
520-1-7	CURB AND GUTTER	3,140	LF	\$20.00	\$63,000.00
522-1	CONCRETE SIDEWALK, 4" THICK	1,050	SY	\$35.00	\$37,000.00
570-1	SODDING	2,120	SY	\$5.00	\$11,000.00
	TRAFFIC STRIPE (6" WHITE AND YELLOW)	5,250	LF	\$1.00	\$6,000.00
	Drainage Improvements (Pipe & Inlets)	1,850	LF	\$90.00	\$167,000.00
SUB- TOTAL					\$932,000.00
CONTINGENCY (20%)					\$187,000.00
DESIGN FEES (15%)					\$168,000.00
CEI FEES (10%)					\$129,000.00
TOTAL ESTIMATED CONSTRUCTION COST (2016) :					\$1,120,000.00

ESTIMATE BASIS AND ASSUMPTIONS:

- Construction cost is equal to the sum of sub-total and contingency. Design fees and CEI fees subject to change.
- No R/W, Pond, Utility, Relocation Costs are included in Cost Estimate
- The mobilization costs are based on 15% of the construction cost
- Embankment to 1 ft depth (Limits of Construction)
- No specialized landscaping (beyond sodding)
- Utility relocations by others
- 1.5" depth superpave
- 1" depth friction course
- 4" depth superpave under concrete apron

SOURCE: Unit Costs per FDOT (Area 8) averages (09/2014 - 08/2015)

Engineer's Opinion of Probable Construction Cost

SE-15 Construct Roundabout at Lockwood Blvd. and Old Lockwood Blvd.
 Roundabout Construction

ITEM NO.	ITEM DESCRIPTION	Winter 2016		Fiscal Year 2016	
		QUANTITY	UNIT	UNIT PRICE	TOTAL COST
101-1	MOBILIZATION	1	LS	\$110,000.00	\$110,000.00
102-1	MAINTENANCE OF TRAFFIC	1	LS	\$96,000.00	\$96,000.00
104-20	EROSION CONTROL	1	LS	\$1,000.00	\$1,000.00
110-1-1	CLEARING & GRUBBING	1.87	AC	\$20,000.00	\$38,000.00
120-6	EMBANKMENT	3,020	CY	\$5.00	\$16,000.00
160-4	TYPE B STABILIZATION	6,320	SY	\$5.00	\$32,000.00
285-706	OPTIONAL BASE, BASE GROUP 06	5,570	SY	\$20.00	\$112,000.00
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	560	TN	\$100.00	\$56,000.00
337-7-42	FRICTION COURSE FC-9.5, PG 76-22, PMA (TRAF C)	310	TN	\$180.00	\$56,000.00
350-30-13	CONC PAVT FOR ROUNDABOUT APRON, 12" THICK	460	SY	\$160.00	\$74,000.00
520-1-7	CURB AND GUTTER	2,690	LF	\$20.00	\$54,000.00
522-1	CONCRETE SIDEWALK, 4" THICK	930	SY	\$35.00	\$33,000.00
570-1	SODDING	1,980	SY	\$5.00	\$10,000.00
	TRAFFIC STRIPE (6" WHITE AND YELLOW)	4,690	LF	\$1.00	\$5,000.00
	Drainage Improvements (Pipe & Inlets)	1,650	LF	\$90.00	\$149,000.00
SUB- TOTAL					\$842,000.00
CONTINGENCY (20%)					\$169,000.00
DESIGN FEES (15%)					\$152,000.00
CEI FEES (10%)					\$117,000.00
TOTAL ESTIMATED CONSTRUCTION COST (2016) :					\$1,020,000.00

ESTIMATE BASIS AND ASSUMPTIONS:

- Construction cost is equal to the sum of sub-total and contingency. Design fees and CEI fees subject to change.
- No R/W, Pond, Utility, Relocation Costs are included in Cost Estimate
- The mobilization costs are based on 15% of the construction cost
- Embankment to 1 ft depth (Limits of Construction)
- No specialized landscaping (beyond sodding)
- Utility relocations by others
- 1.5" depth superpave
- 1" depth friction course
- 4" depth superpave under concrete apron

SOURCE: Unit Costs per FDOT (Area 8) averages (09/2014 - 08/2015)

Engineer's Opinion of Probable Cost

SE-16 Lockwood Blvd. at Old Lockwood Blvd.
 Traffic Calming/Intersection Traffic Signalization
 Winter 2016

Fiscal Year 2016

ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL COST
101- 1	MOBILIZATION	1	LS	\$36,000.00	\$36,000.00
102- 1	MAINTENANCE OF TRAFFIC	1	LS	\$31,000.00	\$31,000.00
	INTERSECTION TRAFFIC SIGNAL*	1	EA	\$205,000.00	\$205,000.00
SUB- TOTAL					\$272,000.00
CONTINGENCY (20%)					\$55,000.00
DESIGN FEES (15%)					\$50,000.00
CEI FEES (10%)					\$38,000.00
TOTAL ESTIMATED CONSTRUCTION COST (2016) :					\$330,000.00

ESTIMATE BASIS AND ASSUMPTIONS:

- No R/W, Pond, Utility, Relocation Costs are included in Cost Estimate
- Estimate does not include utility relocation costs.
- The mobilization costs are based on 15% of the construction cost
- Speed humps/ speed tables placed at 450' spacing
- No specialized landscaping (beyond sodding)
- Utility relocations by others

*Based on HDR signal estimate August 2016

SOURCE: Unit Costs per FDOT (Area 8) averages (09/2014 - 08/2015)

Engineer's Opinion of Probable Construction Cost

SW-6 SR 434 (Central Ave.)(Smith St. to Mitchell Hammock Rd.)
 Widening to 4 Lanes

ITEM NO.	ITEM DESCRIPTION	Winter 2016		Fiscal Year 2016	
		QUANTITY	UNIT	UNIT PRICE	TOTAL COST
101-1	MOBILIZATION	1	LS	\$436,000.00	\$436,000.00
102-1	MAINTENANCE OF TRAFFIC	1	LS	\$378,000.00	\$378,000.00
104-20	EROSION CONTROL	1	LS	\$7,050.00	\$8,000.00
110-1-1	CLEARING & GRUBBING	8.85	AC	\$20,000.00	\$177,000.00
120-6	EMBANKMENT	14,274	CY	\$5.00	\$72,000.00
160-4	TYPE B STABILIZATION	19,508	SY	\$5.00	\$98,000.00
285-706	OPTIONAL BASE,BASE GROUP 06	15,778	SY	\$20.00	\$316,000.00
327-70-1	Milling 1"	16,200	SY	\$2.50	\$41,000.00
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	1,702	TN	\$100.00	\$171,000.00
337-7-42	FRICITION COURSE FC-9.5, PG 76-22, PMA (TRAF C)	1,759	TN	\$180.00	\$317,000.00
520-1-10	CURB AND GUTTER TYPE E	7,300	LF	\$14.00	\$103,000.00
520-1-10	CURB AND GUTTER TYPE F	7,900	LF	\$17.00	\$135,000.00
522-1	CONCRETE SIDEWALK, 4" THICK	4,389	SY	\$35.00	\$154,000.00
570-1	SODDING	12,242	SY	\$5.00	\$62,000.00
	TRAFFIC STRIPE (6" WHITE AND YELLOW)	28,950	LF	\$1.00	\$29,000.00
	DRAINAGE IMPROVEMENTS (PIPE & INLETS)	9,400	LF	\$90.00	\$846,000.00
Length of Project (ft.)		SUB- TOTAL			\$3,343,000.00
4,700					
Superpave Depth (in.)		CONTINGENCY (20%)			\$669,000.00
1.5		DESIGN FEES (15%)			\$602,000.00
FC Depth (in.)		CEI FEES (10%)			\$692,000.00
1					
TOTAL ESTIMATED CONSTRUCTION COST (2016) :					\$4,010,000.00

ESTIMATE BASIS AND ASSUMPTIONS:

- Construction cost is equal to the sum of sub-total and contingency. Design fees and CEI fees subject to change.
 - The mobilization costs are based on 15% of the construction cost
 - Embankment to 1 ft depth
 - No specialized landscaping (beyond sodding)
 - Utility relocations by others
 - 1.5" depth superpave
 - 1" depth friction course
 - 4' bike lane
 - No R/W, Pond, Utility, Relocation Costs are included in Cost Estimate
- SOURCE: Unit Costs per FDOT (Area 8) averages (09/2014 - 08/2015)

Engineer's Opinion of Probable Construction Cost

NE-4 Division St Ext to Florida Ave.
 New 2 Lane Road
 Winter 2016

ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	Fiscal Year 2016	
				UNIT PRICE	TOTAL COST
101-1	MOBILIZATION	1	LS	\$79,000.00	\$79,000.00
102-1	MAINTENANCE OF TRAFFIC	1	LS	\$68,000.00	\$68,000.00
104-20	EROSION CONTROL	1	LS	\$2,100.00	\$2,000.00
110-1-2	CLEARING & GRUBBING	1.61	AC	\$20,000.00	\$33,000.00
120-6	EMBANKMENT	2,593	CY	\$5.00	\$13,000.00
160-4	TYPE B STABILIZATION	4,356	SY	\$5.00	\$22,000.00
285-706	OPTIONAL BASE,BASE GROUP 06	3,733	SY	\$20.00	\$75,000.00
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	308	TN	\$100.00	\$31,000.00
337-7-42	FRICTION COURSE FC-9.5, PG 76-22, PMA (TRAF C)	205	TN	\$180.00	\$37,000.00
520-1-10	CONCRETE CURB & GUTTER TYPE F	2,800	LF	\$17.00	\$48,000.00
522-1	CONCRETE SIDEWALK, 4" THICK	1,556	SY	\$35.00	\$55,000.00
570-1	SODDING	1,867	SY	\$5.00	\$10,000.00
	TRAFFIC STRIPE (6" WHITE AND YELLOW)	4,200	LF	\$1.00	\$5,000.00
	DRAINAGE IMPROVEMENTS (PIPE & INLETS)	1,400	LF	\$90.00	\$126,000.00
	Length of Project (ft.)		SUB- TOTAL		\$604,000.00
	1,400				
	Superpave Depth (in)		CONTINGENCY (20%)		\$121,000.00
	1.5		DESIGN FEES (15%)		\$109,000.00
	Frcition Course Depth (in)		CEI FEES (10%)		\$83,000.00
	1				
	TOTAL ESTIMATED CONSTRUCTION COST (2016) :				\$725,000.00

ESTIMATE BASIS AND ASSUMPTIONS:

- Construction cost is equal to the sum of sub-total and contingency. Design fees and CEI fees subject to change.
 - The mobilization costs are based on 15% of the construction cost
 - Embankment to 1 ft depth (R/W to R/W)
 - No specialized landscaping (beyond sodding)
 - Assume section width of 50' for limits of construction
 - Utility relocations by others
 - 1.5" depth superpave
 - 1" depth friction course
 - No R/W, Pond, Utility, Relocation Costs are included in Cost Estimate
- SOURCE: Unit Costs per FDOT (Area 8) averages (09/2014 - 08/2015)

Engineer's Opinion of Probable Construction Cost

NE-8 Artesia St. Ext (Orange Ave. to Division St.)

New 2 Lane Road

Winter 2016

Fiscal Year 2016

ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL COST
101-1	MOBILIZATION	1	LS	\$37,000.00	\$37,000.00
102-1	MAINTENANCE OF TRAFFIC	1	LS	\$32,000.00	\$32,000.00
104-20	EROSION CONTROL	1	LS	\$1,000.00	\$1,000.00
110-1-2	CLEARING & GRUBBING	0.75	AC	\$20,000.00	\$15,000.00
120-6	EMBANKMENT	1,204	CY	\$5.00	\$7,000.00
160-4	TYPE B STABILIZATION	2,022	SY	\$5.00	\$11,000.00
285-706	OPTIONAL BASE,BASE GROUP 06	1,733	SY	\$20.00	\$35,000.00
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	143	TN	\$100.00	\$15,000.00
337-7-42	FRICTION COURSE FC-9.5, PG 76-22, PMA (TRAF C)	95	TN	\$180.00	\$18,000.00
520-1-10	CONCRETE CURB & GUTTER TYPE F	1,300	LF	\$17.00	\$23,000.00
522-1	CONCRETE SIDEWALK, 4" THICK	722	SY	\$35.00	\$26,000.00
570-1	SODDING	867	SY	\$5.00	\$5,000.00
	TRAFFIC STRIPE (6" WHITE AND YELLOW)	1,950	LF	\$1.00	\$2,000.00
	DRAINAGE IMPROVEMENTS (PIPE & INLETS)	650	LF	\$90.00	\$59,000.00
	Length of Project (ft.)			SUB- TOTAL	\$286,000.00
	650				
	Superpave Depth (in)			CONTINGENCY (20%)	\$57,000.00
	1.5			DESIGN FEES (15%)	\$51,000.00
	Frcition Course Depth (in)			CEI FEES (10%)	\$39,000.00
	1				
	TOTAL ESTIMATED CONSTRUCTION COST (2016) :				\$343,000.00

ESTIMATE BASIS AND ASSUMPTIONS:

- Construction cost is equal to the sum of sub-total and contingency. Design fees and CEI fees subject to change.
 - The mobilization costs are based on 15% of the construction cost
 - Embankment to 1 ft depth (R/W to R/W)
 - No R/W Impact
 - Assume section width of 50' for limits of construction
 - No specialized landscaping (beyond sodding)
 - Utility relocations by others
 - 1.5" depth superpave
 - 1" depth friction course
 - No R/W, Pond, Utility, Relocation Costs are included in Cost Estimate
- SOURCE: Unit Costs per FDOT (Area 8) averages (09/2014 - 08/2015)

Engineer's Opinion of Probable Cost

NE-3 Artesia Street (Division St. to Lake Charm Dr.)

New 2 Lane Road

Winter 2016

Fiscal Year 2016

ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL COST
101- 1	MOBILIZATION	1	LS	\$71,000.00	\$71,000.00
102- 1	MAINTENANCE OF TRAFFIC	1	LS	\$62,000.00	\$62,000.00
104- 20	EROSION CONTROL	1	LS	\$1,980.00	\$2,000.00
110-1-2	CLEARING & GRUBBING	1.52	AC	\$20,000.00	\$31,000.00
120-6	EMBANKMENT	2,444	CY	\$5.00	\$13,000.00
160-4	TYPE B STABILIZATION	4,107	SY	\$5.00	\$21,000.00
285-706	OPTIONAL BASE,BASE GROUP 06	3,520	SY	\$20.00	\$71,000.00
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	290	TN	\$100.00	\$30,000.00
337-7-42	FRICTION COURSE FC-9.5, PG 76-22, PMA (TRAF C)	194	TN	\$180.00	\$35,000.00
520-1-10	CURB AND GUTTER TYPE F	2,640	LF	\$17.00	\$45,000.00
522-1	CONCRETE SIDEWALK, 4" THICK	733	SY	\$35.00	\$26,000.00
570- 1	SODDING	2,493	SY	\$5.00	\$13,000.00
	TRAFFIC STRIPE (6" WHITE AND YELLOW)	3,960	LF	\$1.00	\$4,000.00
	DRAINAGE IMPROVEMENTS (PIPE & INLETS)	1,320	LF	\$90.00	\$118,800.00
Length of Project (ft.)		SUB- TOTAL			\$543,000.00
1,320					
Superpave Depth (in.)		CONTINGENCY (20%)			\$109,000.00
1.5		DESIGN FEES (15%)			\$98,000.00
FC Depth (in.)		CEI FEES (10%)			\$113,000.00
1		TOTAL ESTIMATED CONSTRUCTION COST (2016) :			\$660,000.00

ESTIMATE BASIS AND ASSUMPTIONS:

- The mobilization costs are based on 15% of the construction cost
 - Embankment to 1 ft depth (R/W to R/W)
 - Assume section width of 50' for limits of construction
 - No specialized landscaping (beyond sodding)
 - Utility relocations by others
 - 1.5" depth superpave
 - 1" depth friction course
 - No R/W, Pond, Utility, Relocation Costs are included in Cost Estimate
- SOURCE: Unit Costs per FDOT (Area 8) averages (09/2014 - 08/2015)

Engineer's Opinion of Probable Construction Cost

NE-2 Franklin Ave. Extension (Stephen Ave. to Reed Ave.)
New 2 Lane Road
 Winter 2016

Fiscal Year 2016

ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL COST
101-1	MOBILIZATION	1	LS	\$39,000.00	\$39,000.00
102-1	MAINTENANCE OF TRAFFIC	1	LS	\$34,000.00	\$34,000.00
104-20	EROSION CONTROL	1	LS	\$1,650.00	\$2,000.00
110-1-2	CLEARING & GRUBBING	1.26	AC	\$20,000.00	\$25,000.00
120-6	EMBANKMENT	2,037	CY	\$5.00	\$10,000.00
160-4	TYPE B STABILIZATION	3,911	SY	\$5.00	\$20,000.00
285-706	OPTIONAL BASE, BASE GROUP 06	2,933	SY	\$20.00	\$59,000.00
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	242	TN	\$100.00	\$25,000.00
337-7-42	FRICTION COURSE FC-9.5, PG 76-22, PMA (TRAF C)	161	TN	\$180.00	\$30,000.00
522-1	CONCRETE SIDEWALK, 4" THICK	1,222	SY	\$35.00	\$43,000.00
570-1	SODDING	1,956	SY	\$5.00	\$10,000.00
	TRAFFIC STRIPE (6" WHITE AND YELLOW)	3300	LF	\$1.00	\$4,000.00
	DRAINAGE IMPROVEMENTS (PIPE & INLETS)	-	LF	\$90.00	-

Length of Project (ft.)	SUB- TOTAL	\$301,000.00
1,100		
Superpave Depth (in)	CONTINGENCY (20%)	\$61,000.00
1.5	DESIGN FEES (15%)	\$54,000.00
Frcition Course Depth (in)	CEI FEES (10%)	\$42,000.00
1		
	TOTAL ESTIMATED CONSTRUCTION COST (2016) :	\$362,000.00

ESTIMATE BASIS AND ASSUMPTIONS:

- Construction cost is equal to the sum of sub-total and contingency. Design fees and CEI fees subject to change.
 - The mobilization costs are based on 15% of the construction cost
 - Embankment to 1 ft depth (R/W to R/W)
 - No specialized landscaping (beyond sodding)
 - Assume section width of 50' for limits of construction
 - Utility relocations by others
 - 1.5" depth superpave
 - 1" depth friction course
 - No R/W, Pond, Utility, Relocation Costs are included in Cost Estimate
- SOURCE: Unit Costs per FDOT (Area 8) averages (09/2014 - 08/2015)

Engineer's Opinion of Probable Construction Cost

NW-1 Florida Ave. Extension (DeLeon St. to SR 434)

New 2 Lane Road

Winter 2016

Fiscal Year 2016

ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL COST
101-1	MOBILIZATION	1	LS	\$55,000.00	\$55,000.00
102-1	MAINTENANCE OF TRAFFIC	1	LS	\$47,000.00	\$47,000.00
104-20	EROSION CONTROL	1	LS	\$2,775.00	\$3,000.00
110-1-2	CLEARING & GRUBBING	2.12	AC	\$20,000.00	\$43,000.00
120-6	EMBANKMENT	3,426	CY	\$5.00	\$18,000.00
160-4	TYPE B STABILIZATION	6,578	SY	\$5.00	\$33,000.00
285-706	OPTIONAL BASE,BASE GROUP 06	4,933	SY	\$20.00	\$99,000.00
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	407	TN	\$100.00	\$41,000.00
337-7-42	FRICTION COURSE FC-9.5, PG 76-22, PMA (TRAF C)	271	TN	\$180.00	\$49,000.00
570-1	SODDING	5,344	SY	\$5.00	\$27,000.00
	TRAFFIC STRIPE (6" WHITE AND YELLOW)	5,550	LF	\$1.00	\$6,000.00
	DRAINAGE IMPROVEMENTS (PIPE & INLETS)	-	LF	\$90.00	\$0.00
Length of Project (ft.)		SUB- TOTAL			\$421,000.00
1,850					
Superpave Depth (in)		CONTINGENCY (20%)			\$85,000.00
1.5		DESIGN FEES (15%)			\$76,000.00
Frcition Course Depth (in)		CEI FEES (10%)			\$58,000.00
1					
TOTAL ESTIMATED CONSTRUCTION COST (2016) :					\$506,000.00

ESTIMATE BASIS AND ASSUMPTIONS:

- Construction cost is equal to the sum of sub-total and contingency. Design fees and CEI fees subject to change.
 - The mobilization costs are based on 15% of the construction cost
 - Embankment to 1 ft depth (R/W to R/W)
 - No R/W Impact
 - No specialized landscaping (beyond sodding)
 - Utility relocations by others
 - Assume section width of 50' for limits of construction
 - 1.5" depth superpave
 - 1" depth friction course
 - No R/W, Pond, Utility, Relocation Costs are included in Cost Estimate
- SOURCE: Unit Costs per FDOT (Area 8) averages (09/2014 - 08/2015)

Engineer's Opinion of Probable Cost

NW-7 Palm Drive (Pine Ave. to SR 434)
 Reconstruct 2 Lane Road

Winter 2016

Fiscal Year 2016

ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL COST
101- 1	MOBILIZATION	1	LS	\$44,000.00	\$44,000.00
102- 1	MAINTENANCE OF TRAFFIC	1	LS	\$38,000.00	\$38,000.00
104- 20	EROSION CONTROL	1	LS	\$1,200.00	\$2,000.00
110-1-2	CLEARING & GRUBBING	0.92	AC	\$20,000.00	\$19,000.00
120-6	EMBANKMENT	1,481	CY	\$5.00	\$8,000.00
160-4	TYPE B STABILIZATION	2,489	SY	\$5.00	\$13,000.00
285-706	OPTIONAL BASE,BASE GROUP 06	2,133	SY	\$20.00	\$43,000.00
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	176	TN	\$100.00	\$18,000.00
337-7-42	FRICION COURSE FC-9.5, PG 76-22, PMA (TRAF C)	117	TN	\$180.00	\$22,000.00
520-1-10	CURB AND GUTTER TYPE F	1,600	LF	\$17.00	\$28,000.00
522-1	CONCRETE SIDEWALK, 4" THICK	444	SY	\$35.00	\$16,000.00
570- 1	SODDING	1,511	SY	\$5.00	\$8,000.00
	TRAFFIC STRIPE (6" WHITE AND YELLOW)	2,400	LF	\$1.00	\$3,000.00
	DRAINAGE IMPROVEMENTS (PIPE & INLETS)	800	LF	\$90.00	\$72,000.00
Length of Project (ft.)		SUB- TOTAL			\$334,000.00
800					
Superpave Depth (in.)		CONTINGENCY (20%)			\$67,000.00
1.5		DESIGN FEES (15%)			\$61,000.00
FC Depth (in.)		CEI FEES (10%)			\$70,000.00
1		TOTAL ESTIMATED CONSTRUCTION COST (2016) :			\$410,000.00

ESTIMATE BASIS AND ASSUMPTIONS:

- The mobilization costs are based on 15% of the construction cost
 - Embankment to 1 ft depth (R/W to R/W)
 - Assume section width of 50' for limits of construction
 - No specialized landscaping (beyond sodding)
 - Utility relocations by others
 - 1.5" depth superpave
 - 1" depth friction course
 - No R/W, Pond, Utility, Relocation Costs are included in Cost Estimate
- SOURCE: Unit Costs per FDOT (Area 8) averages (09/2014 - 08/2015)

Engineer's Opinion of Probable Construction Cost

NW-3 Lake Jessup Ave. Traffic Calming (Broadway St. to Artesia St.)

Traffic Calming

Winter 2016

Fiscal Year 2016

ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL COST
101- 1	MOBILIZATION	1	LS	\$10,000.00	\$10,000.00
102- 1	MAINTENANCE OF TRAFFIC	1	LS	\$8,000.00	\$8,000.00
	SPEED HUMP	-	EA	\$3,500.00	\$0.00
	SPEED TABLE	12	EA	\$4,400.00	\$52,800.00
	RAISED CROSSWALK	-	EA	\$4,400.00	\$0.00

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Length of Project	SUB- TOTAL	\$70,800.00
5,300	CONTINGENCY (20%)	\$15,000.00
	DESIGN FEES (15%)	\$13,000.00
	CEI FEES (10%)	\$10,000.00
TOTAL ESTIMATED CONSTRUCTION COST (2016) :		\$90,000.00

ESTIMATE BASIS AND ASSUMPTIONS:

- Construction cost is equal to the sum of sub-total and contingency. Design fees and CEI fees subject to change.
- No R/W, Pond, Utility, Relocation Costs are included in Cost Estimate
- Estimate does not include utility relocation costs.
- The mobilization costs are based on 15% of the construction cost
- Speed humps/ speed tables placed at 450' spacing
- No specialized landscaping (beyond sodding)
- Utility relocations by others

SOURCE: Unit Costs per FDOT (Area 8) averages (09/2014 - 08/2015)

Engineer's Opinion of Probable Construction Cost

NW-4 W. Artesia St. Traffic Calming (Pine Ave. to Central Ave.)

Traffic Calming

Winter 2016

Fiscal Year 2016

ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL COST
101- 1	MOBILIZATION	1	LS	\$9,000.00	\$9,000.00
102- 1	MAINTENANCE OF TRAFFIC	1	LS	\$8,000.00	\$8,000.00
	SPEED HUMP	-	EA	\$3,500.00	\$0.00
	SPEED TABLE	11	EA	\$4,400.00	\$48,400.00
	RAISED CROSSWALK	-	EA	\$4,400.00	\$0.00

Length of Project	SUB- TOTAL	\$65,400.00
4,700	CONTINGENCY (20%)	\$14,000.00
	DESIGN FEES (15%)	\$12,000.00
	CEI FEES (10%)	\$10,000.00
TOTAL ESTIMATED CONSTRUCTION COST (2016) :		\$80,000.00

ESTIMATE BASIS AND ASSUMPTIONS:

- Construction cost is equal to the sum of sub-total and contingency. Design fees and CEI fees subject to change.
- No R/W, Pond, Utility, Relocation Costs are included in Cost Estimate
- Estimate does not include utility relocation costs.
- The mobilization costs are based on 15% of the construction cost
- Speed humps/ speed tables placed at 450' spacing
- No specialized landscaping (beyond sodding)
- Utility relocations by others

SOURCE: Unit Costs per FDOT (Area 8) averages (09/2014 - 08/2015)

Engineer's Opinion of Probable Construction Cost

NW-6 Pine Ave. Traffic Calming (SR 426 to Palm Dr.)
Traffic Calming
Winter 2016

Fiscal Year 2016

ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL COST
101- 1	MOBILIZATION	1	LS	\$12,000.00	\$12,000.00
102- 1	MAINTENANCE OF TRAFFIC	1	LS	\$10,000.00	\$10,000.00
	SPEED HUMP	-	EA	\$3,500.00	\$0.00
	SPEED TABLE	-	EA	\$4,400.00	\$0.00
	RAISED CROSSWALK	15	EA	\$4,400.00	\$66,000.00

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Length of Project	SUB- TOTAL	\$88,000.00
7,500		
	CONTINGENCY (20%)	\$18,000.00
No. Crosswalks	DESIGN FEES (15%)	\$16,000.00
15	CEI FEES (10%)	\$13,000.00
TOTAL ESTIMATED CONSTRUCTION COST (2016) :		\$110,000.00

ESTIMATE BASIS AND ASSUMPTIONS:

- Construction cost is equal to the sum of sub-total and contingency. Design fees and CEI fees subject to change.
- No R/W, Pond, Utility, Relocation Costs are included in Cost Estimate
- Estimate does not include utility relocation costs.
- The mobilization costs are based on 15% of the construction cost
- Speed humps/ speed tables placed at 450' spacing
- No specialized landscaping (beyond sodding)
- Utility relocations by others

SOURCE: Unit Costs per FDOT (Area 8) averages (09/2014 - 08/2015)

Engineer's Opinion of Probable Cost

NW-8 Chapel St. Realignment (Mission Rd. to Pine Ave.)
New 2 Lane Road over Existing Use

ITEM NO.	ITEM DESCRIPTION	Winter 2016		Fiscal Year 2016	
		QUANTITY	UNIT	UNIT PRICE	TOTAL COST
101- 1	MOBILIZATION	1	LS	\$77,000.00	\$77,000.00
102- 1	MAINTENANCE OF TRAFFIC	1	LS	\$66,000.00	\$66,000.00
104- 20	EROSION CONTROL	1	LS	\$2,130.00	\$3,000.00
110-1-2	CLEARING & GRUBBING	1.63	AC	\$20,000.00	\$33,000.00
120-6	EMBANKMENT	2,630	CY	\$5.00	\$14,000.00
160-4	TYPE B STABILIZATION	4,418	SY	\$5.00	\$23,000.00
285-706	OPTIONAL BASE,BASE GROUP 06	3,787	SY	\$20.00	\$76,000.00
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	312	TN	\$100.00	\$32,000.00
337-7-42	FRICTION COURSE FC-9.5, PG 76-22, PMA (TRAF C)	208	TN	\$180.00	\$38,000.00
520-1-10	CURB AND GUTTER TYPE F	2,840	LF	\$17.00	\$49,000.00
522-1	CONCRETE SIDEWALK, 4" THICK	789	SY	\$35.00	\$28,000.00
570- 1	SODDING	2,682	SY	\$5.00	\$14,000.00
	TRAFFIC STRIPE (6" WHITE AND YELLOW)	4,260	LF	\$1.00	\$5,000.00
	DRAINAGE IMPROVEMENTS (PIPE & INLETS)	1,420	LF	\$90.00	\$127,800.00
Length of Project (ft.)		SUB- TOTAL			\$586,000.00
1,420					
Superpave Depth (in.)		CONTINGENCY (20%)			\$118,000.00
1.5		DESIGN FEES (15%)			\$106,000.00
FC Depth (in.)		CEI FEES (10%)			\$122,000.00
1		TOTAL ESTIMATED CONSTRUCTION COST (2016) :			\$710,000.00

ESTIMATE BASIS AND ASSUMPTIONS:

- The mobilization costs are based on 15% of the construction cost
 - Embankment to 1 ft depth (R/W to R/W)
 - Assume section width of 50' for limits of construction
 - No specialized landscaping (beyond sodding)
 - Utility relocations by others
 - 1.5" depth superpave
 - 1" depth friction course
 - No R/W, Pond, Utility, Relocation Costs are included in Cost Estimate
- SOURCE: Unit Costs per FDOT (Area 8) averages (09/2014 - 08/2015)

Engineer's Opinion of Probable Construction Cost

SE-18 Mitchell Hammock Rd. (Lockwood Blvd. to CR 419)
New 4 Lane Road
Winter 2016

Fiscal Year 2016

ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL COST
101-1	MOBILIZATION	1	LS	\$120,000.00	\$120,000.00
102-1	MAINTENANCE OF TRAFFIC	1	LS	\$104,000.00	\$104,000.00
104- 20	EROSION CONTROL	1	LS	\$2,100.00	\$2,000.00
110-1-2	CLEARING & GRUBBING	3.41	AC	\$20,000.00	\$68,000.00
120-6	EMBANKMENT	5,496	CY	\$5.00	\$28,000.00
160-4	TYPE B STABILIZATION	9,956	SY	\$5.00	\$50,000.00
285-706	OPTIONAL BASE,BASE GROUP 06	8,711	SY	\$20.00	\$175,000.00
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	719	TN	\$100.00	\$72,000.00
337-7-42	FRICTION COURSE FC-9.5, PG 76-22, PMA (TRAF C)	479	TN	\$2.50	2,000.00
520-1-10	CURB AND GUTTER TYPE F	2,800	LF	\$17.00	\$48,000.00
520-1-7	CURB AND GUTTER TYPE E	2,800	LF	\$14.00	\$40,000.00
522-1	CONCRETE SIDEWALK, 4" THICK	1,556	SY	\$35.00	\$55,000.00
570-1	SODDING	4,978	SY	\$5.00	\$25,000.00
	TRAFFIC STRIPE (6" WHITE AND YELLOW)	5,600	LF	\$1.00	\$6,000.00
	DRAINAGE IMPROVEMENTS (PIPE & INLETS)	1,400	LF	\$90.00	\$126,000.00
	INTERSECTION TRAFFIC SIGNAL*	1	EA	\$250,000.00	\$250,000.00
Length of Project (ft.)	SUB- TOTAL				\$1,171,000.00
1,400					
Superpave Depth (in.)	CONTINGENCY (20%)				\$234,000.00
1.5	DESIGN FEES (15%)				\$211,000.00
Pavement Depth (in.)	CEI FEES (10%)				\$162,000.00
1					
	TOTAL ESTIMATED CONSTRUCTION COST (2016) :				\$1,410,000.00

ESTIMATE BASIS AND ASSUMPTIONS:

- Construction cost is equal to the sum of sub-total and contingency. Design fees and CEI fees subject to change.
- The mobilization costs are based on 15% of the construction cost
- Embankment to 1 ft depth (R/W to R/W)
- No specialized landscaping (beyond sodding)
- Utility relocations by others
- 1.5" depth superpave
- 1" depth friction course
- 4' bike lane
- No R/W, Pond, Utility, Relocation Costs are included in Cost Estimate
- *Based on HDR signal estimate August 2016

SOURCE: Unit Costs per FDOT (Area 8) averages (09/2014 - 08/2015)

Engineer's Opinion of Probable Construction Cost

NE-10 Lockwood Blvd. (CR419 to CR 426)
Widening to 4 Lanes

ITEM NO.	ITEM DESCRIPTION	Winter 2016		Fiscal Year 2016	
		QUANTITY	UNIT	UNIT PRICE	TOTAL COST
101-1	MOBILIZATION	1	LS	\$923,000.00	\$923,000.00
102-1	MAINTENANCE OF TRAFFIC	1	LS	\$801,000.00	\$801,000.00
104-20	EROSION CONTROL	1	LS	\$14,250.00	\$15,000.00
110-1-1	CLEARING & GRUBBING	17.88	AC	\$20,000.00	\$358,000.00
120-6	EMBANKMENT	28,852	CY	\$5.00	\$145,000.00
160-4	TYPE B STABILIZATION	44,544	SY	\$5.00	\$223,000.00
285-706	OPTIONAL BASE, BASE GROUP 06	36,044	SY	\$20.00	\$721,000.00
327-70-1	Milling 1"	28,000	SY	\$2.50	\$70,000.00
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	3,883	TN	\$100.00	\$389,000.00
337-7-42	FRICTION COURSE FC-9.5, PG 76-22, PMA (TRAF C)	3,522	TN	\$180.00	\$635,000.00
520-1-10	CURB AND GUTTER TYPE E	16,600	LF	\$14.00	\$233,000.00
520-1-10	CURB AND GUTTER TYPE F	18,000	LF	\$17.00	\$306,000.00
522-1	CONCRETE SIDEWALK, 4" THICK	10,000	SY	\$35.00	\$350,000.00
570-1	SODDING	27,806	SY	\$5.00	\$140,000.00
	TRAFFIC STRIPE (6" WHITE AND YELLOW)	59,750	LF	\$1.00	\$60,000.00
	DRAINAGE IMPROVEMENTS (PIPE & INLETS)	19,000	LF	\$90.00	\$1,710,000.00
	NEW TRAFFIC SIGNAL	1	EA	\$300,000.00	\$300,000.00
Length of Project (ft.)		SUB- TOTAL			\$7,379,000.00
9,500					
Superpave Depth (in.)		CONTINGENCY (20%)			\$1,476,000.00
1.5		DESIGN FEES (15%)			\$1,328,000.00
FC Depth (in.)		CEI FEES (10%)			\$1,018,000.00
1					
TOTAL ESTIMATED CONSTRUCTION COST (2016) :					\$8,860,000.00

ESTIMATE BASIS AND ASSUMPTIONS:

- Construction cost is equal to the sum of sub-total and contingency. Design fees and CEI fees subject to change.
- The mobilization costs are based on 15% of the construction cost
- Embankment to 1 ft depth

- No specialized landscaping (beyond sodding)
- Utility relocations by others
- 1.5" depth superpave
- 1" depth friction course
- 4' bike lane

- No R/W, Pond, Utility, Relocation Costs are included in Cost Estimate
SOURCE: Unit Costs per FDOT (Area 8) averages (09/2014 - 08/2015)

Engineer's Opinion of Probable Construction Cost

NW-12 SR 426 (Pine Ave. to SR 434)
 Widening to 4 Lanes

ITEM NO.	ITEM DESCRIPTION	Winter 2016		Fiscal Year 2016	
		QUANTITY	UNIT	UNIT PRICE	TOTAL COST
101-1	MOBILIZATION	1	LS	\$379,000.00	\$379,000.00
102-1	MAINTENANCE OF TRAFFIC	1	LS	\$329,000.00	\$329,000.00
104-20	EROSION CONTROL	1	LS	\$6,000.00	\$6,000.00
110-1-1	CLEARING & GRUBBING	7.53	AC	\$20,000.00	\$151,000.00
120-6	EMBANKMENT	12,148	CY	\$5.00	\$61,000.00
160-4	TYPE B STABILIZATION	18,844	SY	\$5.00	\$95,000.00
285-706	OPTIONAL BASE,BASE GROUP 06	12,400	SY	\$20.00	\$248,000.00
327-70-1	Milling 1"	12,444	SY	\$2.50	\$32,000.00
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	1,527	TN	\$100.00	\$153,000.00
337-7-42	FRICITION COURSE FC-9.5, PG 76-22, PMA (TRAF C)	1,366	TN	\$180.00	\$246,000.00
520-1-7	CURB AND GUTTER TYPE E	7,400	LF	\$14.00	\$104,000.00
520-1-10	CURB AND GUTTER TYPE F	8,000	LF	\$17.00	\$136,000.00
522-1	CONCRETE SIDEWALK, 4" THICK	4,444	SY	\$35.00	\$156,000.00
570-1	SODDING	12,417	SY	\$5.00	\$63,000.00
	TRAFFIC STRIPE (6" WHITE AND YELLOW)	24,750	LF	\$1.00	\$25,000.00
	DRAINAGE IMPROVEMENTS (PIPE & INLETS)	8,000	LF	\$90.00	\$720,000.00
	NEW TRAFFIC SIGNAL	3	EA	\$300,000.00	\$900,000.00
Length of Project (ft.)		SUB- TOTAL			\$3,804,000.00
4,000					
Superpave Depth (in.)		CONTINGENCY (20%)			\$761,000.00
1.5		DESIGN FEES (15%)			\$685,000.00
FC Depth (in.)		CEI FEES (10%)			\$525,000.00
1					
TOTAL ESTIMATED CONSTRUCTION COST (2016) :					\$4,570,000.00

ESTIMATE BASIS AND ASSUMPTIONS:

- Construction cost is equal to the sum of sub-total and contingency. Design fees and CEI fees subject to change.
 - The mobilization costs are based on 15% of the construction cost
 - Embankment to 1 ft depth

 - No specialized landscaping (beyond sodding)
 - Utility relocations by others
 - 1.5" depth superpave
 - 1" depth friction course
 - 4' bike lane
 - No R/W, Pond, Utility, Relocation Costs are included in Cost Estimate
- SOURCE: Unit Costs per FDOT (Area 8) averages (09/2014 - 08/2015)

Engineer's Opinion of Probable Construction Cost

NE-6 SR 426 (SR 434 to CR 426)
 Widening to 4 Lanes

ITEM NO.	ITEM DESCRIPTION	Winter 2016		Fiscal Year 2016		
		QUANTITY	UNIT	UNIT PRICE	TOTAL COST	
101-1	MOBILIZATION	1	LS	\$24,000.00	\$24,000.00	
102-1	MAINTENANCE OF TRAFFIC	1	LS	\$21,000.00	\$21,000.00	
104-20	EROSION CONTROL	1	LS	\$1,000.00	\$1,000.00	
110-1-1	CLEARING & GRUBBING	0.45	AC	\$20,000.00	\$10,000.00	
120-6	EMBANKMENT	729	CY	\$5.00	\$4,000.00	
160-4	TYPE B STABILIZATION	973	SY	\$5.00	\$5,000.00	
285-706	OPTIONAL BASE, BASE GROUP 06	747	SY	\$20.00	\$15,000.00	
327-70-1	Milling 1"	747	SY	\$2.50	\$2,000.00	
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	92	TN	\$100.00	\$10,000.00	
337-7-42	FRICTION COURSE FC-9.5, PG 76-22, PMA (TRAF C)	82	TN	\$180.00	\$15,000.00	
520-1-10	CURB AND GUTTER TYPE E	480	LF	\$14.00	\$7,000.00	
520-1-10	CURB AND GUTTER TYPE F	480	LF	\$17.00	\$9,000.00	
522-1	CONCRETE SIDEWALK, 4" THICK	267	SY	\$35.00	\$10,000.00	
570-1	SODDING	840	SY	\$5.00	\$5,000.00	
	TRAFFIC STRIPE (6" WHITE AND YELLOW)	1,440	LF	\$1.00	\$2,000.00	
	DRAINAGE IMPROVEMENTS (PIPE & INLETS)	480	LF	\$90.00	\$44,000.00	
	NEW TRAFFIC SIGNAL	1	EA	\$300,000.00	\$300,000.00	
Length of Project (ft.)		SUB- TOTAL				\$484,000.00
240						
Superpave Depth (in.)		CONTINGENCY (20%)				\$97,000.00
1.5		DESIGN FEES (15%)				\$87,000.00
FC Depth (in.)		CEI FEES (10%)				\$134,000.00
1						
TOTAL ESTIMATED CONSTRUCTION COST (2016) :						\$590,000.00

ESTIMATE BASIS AND ASSUMPTIONS:

- Construction cost is equal to the sum of sub-total and contingency. Design fees and CEI fees subject to change.
- The mobilization costs are based on 15% of the construction cost
- Embankment to 1 ft depth

- No specialized landscaping (beyond sodding)
- Utility relocations by others
- 1.5" depth superpave
- 1" depth friction course
- 4' bike lane

- No R/W, Pond, Utility, Relocation Costs are included in Cost Estimate
 SOURCE: Unit Costs per FDOT (Area 8) averages (09/2014 - 08/2015)

Engineer's Opinion of Probable Construction Cost

NE-7A SR 434 (SR 417 to DeLeon St.)
 Widening to 4 Lanes

ITEM NO.	ITEM DESCRIPTION	Winter 2016		Fiscal Year 2016		
		QUANTITY	UNIT	UNIT PRICE	TOTAL COST	
101-1	MOBILIZATION	1	LS	\$563,000.00	\$563,000.00	
102-1	MAINTENANCE OF TRAFFIC	1	LS	\$488,000.00	\$488,000.00	
104-20	EROSION CONTROL	1	LS	\$9,000.00	\$9,000.00	
110-1-1	CLEARING & GRUBBING	11.29	AC	\$20,000.00	\$226,000.00	
120-6	EMBANKMENT	18,222	CY	\$5.00	\$92,000.00	
160-4	TYPE B STABILIZATION	26,071	SY	\$5.00	\$131,000.00	
285-706	OPTIONAL BASE, BASE GROUP 06	21,084	SY	\$20.00	\$422,000.00	
327-70-1	Milling 1"	17,920	SY	\$2.50	\$45,000.00	
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	2,275	TN	\$100.00	\$228,000.00	
337-7-42	FRICTION COURSE FC-9.5, PG 76-22, PMA (TRAF C)	2,145	TN	\$180.00	\$387,000.00	
520-1-10	CURB AND GUTTER TYPE E	9,760	LF	\$14.00	\$137,000.00	
520-1-10	CURB AND GUTTER TYPE F	10,560	LF	\$17.00	\$180,000.00	
522-1	CONCRETE SIDEWALK, 4" THICK	5,867	SY	\$35.00	\$206,000.00	
570-1	SODDING	16,369	SY	\$5.00	\$82,000.00	
	TRAFFIC STRIPE (6" WHITE AND YELLOW)	37,000	LF	\$1.00	\$37,000.00	
	DRAINAGE IMPROVEMENTS (PIPE & INLETS)	12,000	LF	\$90.00	\$1,080,000.00	
Length of Project (ft.)			SUB- TOTAL			\$4,313,000.00
6,000						
Superpave Depth (in.)			CONTINGENCY (20%)			\$863,000.00
1.5			DESIGN FEES (15%)			\$776,000.00
FC Depth (in.)			CEI FEES (10%)			\$1,190,000.00
1						
TOTAL ESTIMATED CONSTRUCTION COST (2016) :						\$5,180,000.00

ESTIMATE BASIS AND ASSUMPTIONS:

- Construction cost is equal to the sum of sub-total and contingency. Design fees and CEI fees subject to change.
- The mobilization costs are based on 15% of the construction cost
- Embankment to 1 ft depth

- No specialized landscaping (beyond sodding)
- Utility relocations by others
- 1.5" depth superpave
- 1" depth friction course
- 4' bike lane

- No R/W, Pond, Utility, Relocation Costs are included in Cost Estimate
 SOURCE: Unit Costs per FDOT (Area 8) averages (09/2014 - 08/2015)

Engineer's Opinion of Probable Construction Cost

NE-7B SR 434 (DeLeon St. to SR 426)
Widening to 4 Lanes

ITEM NO.	ITEM DESCRIPTION	Winter 2016		Fiscal Year 2016	
		QUANTITY	UNIT	UNIT PRICE	TOTAL COST
101-1	MOBILIZATION	1	LS	\$664,000.00	\$664,000.00
102-1	MAINTENANCE OF TRAFFIC	1	LS	\$576,000.00	\$576,000.00
104-20	EROSION CONTROL	1	LS	\$10,125.00	\$11,000.00
110-1-1	CLEARING & GRUBBING	12.71	AC	\$20,000.00	\$255,000.00
120-6	EMBANKMENT	20,500	CY	\$5.00	\$103,000.00
160-4	TYPE B STABILIZATION	33,264	SY	\$5.00	\$167,000.00
285-706	OPTIONAL BASE, BASE GROUP 06	26,889	SY	\$20.00	\$538,000.00
327-70-1	Milling 1"	19,667	SY	\$2.50	\$50,000.00
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	2,904	TN	\$100.00	\$291,000.00
337-7-42	FRICITION COURSE FC-9.5, PG 76-22, PMA (TRAF C)	2,469	TN	\$180.00	\$445,000.00
520-1-10	CURB AND GUTTER TYPE E	12,500	LF	\$14.00	\$175,000.00
520-1-10	CURB AND GUTTER TYPE F	13,500	LF	\$17.00	\$230,000.00
522-1	CONCRETE SIDEWALK, 4" THICK	7,500	SY	\$30.00	\$225,000.00
570-1	SODDING	20,986	SY	\$5.00	\$105,000.00
	TRAFFIC STRIPE (6" WHITE AND YELLOW)	41,750	LF	\$1.00	\$42,000.00
	DRAINAGE IMPROVEMENTS (PIPE & INLETS)	13,500	LF	\$90.00	\$1,215,000.00
	NEW TRAFFIC SIGNAL	3	EA	\$300,000.00	\$900,000.00
Length of Project (ft.)	SUB- TOTAL				\$5,992,000.00
6,750					
Superpave Depth (in.)	CONTINGENCY (20%)				\$1,198,000.00
1.5	DESIGN FEES (15%)				\$1,079,000.00
FC Depth (in.)	CEI FEES (10%)				\$1,654,000.00
1					
	TOTAL ESTIMATED CONSTRUCTION COST (2016) :				\$7,190,000.00

ESTIMATE BASIS AND ASSUMPTIONS:

- Construction cost is equal to the sum of sub-total and contingency. Design fees and CEI fees subject to change.
 - The mobilization costs are based on 15% of the construction cost
 - Embankment to 1 ft depth

 - No specialized landscaping (beyond sodding)
 - Utility relocations by others
 - 1.5" depth superpave
 - 1" depth friction course
 - 4' bike lane
 - No R/W, Pond, Utility, Relocation Costs are included in Cost Estimate
- SOURCE: Unit Costs per FDOT (Area 8) averages (09/2014 - 08/2015)

Engineer's Opinion of Probable Construction Cost

NE-7C SR 434 (Central Ave.) (Mitchell Hammock Rd. to SR 417)
 Widening to 4 Lanes

ITEM NO.	ITEM DESCRIPTION	Winter 2016		Fiscal Year 2016		
		QUANTITY	UNIT	UNIT PRICE	TOTAL COST	
101-1	MOBILIZATION	1	LS	\$1,149,000.00	\$1,149,000.00	
102-1	MAINTENANCE OF TRAFFIC	1	LS	\$870,000.00	\$870,000.00	
104-20	EROSION CONTROL	1	LS	\$27,450.00	\$28,000.00	
110-1-1	CLEARING & GRUBBING	34.45	AC	\$20,000.00	\$689,000.00	
120-6	EMBANKMENT	55,578	CY	\$5.00	\$278,000.00	
160-4	TYPE B STABILIZATION	83,246	SY	\$5.00	\$417,000.00	
285-706	OPTIONAL BASE, BASE GROUP 06	67,351	SY	\$20.00	\$1,348,000.00	
327-70-1	Milling 1"	55,987	SY	\$2.50	\$140,000.00	
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	7,259	TN	\$100.00	\$726,000.00	
337-7-42	FRICTION COURSE FC-9.5, PG 76-22, PMA (TRAF C)	6,784	TN	\$180.00	\$1,222,000.00	
520-1-10	CURB AND GUTTER TYPE E	31,060	LF	\$14.00	\$435,000.00	
520-1-10	CURB AND GUTTER TYPE F	33,660	LF	\$17.00	\$573,000.00	
522-1	CONCRETE SIDEWALK, 4" THICK	18,700	SY	\$30.00	\$561,000.00	
570-1	SODDING	52,044	SY	\$5.00	\$261,000.00	
	TRAFFIC STRIPE (6" WHITE AND YELLOW)	113,050	LF	\$1.00	\$114,000.00	
	DRAINAGE IMPROVEMENTS (PIPE & INLETS)	36,600	LF	\$90.00	\$3,294,000.00	
	NEW TRAFFIC SIGNAL	3	EA	\$300,000.00	\$900,000.00	
Length of Project (ft.)		SUB- TOTAL			\$13,005,000.00	
18,300						
Superpave Depth (in.)		CONTINGENCY (20%)			\$2,601,000.00	
1.5		DESIGN FEES (15%)			\$2,341,000.00	
FC Depth (in.)		CEI FEES (10%)			\$3,589,000.00	
1						
TOTAL ESTIMATED CONSTRUCTION COST (2016) :					\$15,610,000.00	

ESTIMATE BASIS AND ASSUMPTIONS:

- Construction cost is equal to the sum of sub-total and contingency. Design fees and CEI fees subject to change.
- The mobilization costs are based on 15% of the construction cost
- Embankment to 1 ft depth

- No specialized landscaping (beyond sodding)
- Utility relocations by others
- 1.5" depth superpave
- 1" depth friction course
- 4' bike lane

- No R/W, Pond, Utility, Relocation Costs are included in Cost Estimate
 SOURCE: Unit Costs per FDOT (Area 8) averages (09/2014 - 08/2015)

Engineer's Opinion of Probable Construction Cost

SE-17 Snow Hill Rd. (CR 419 to Walker Elementary School)
Sidewalk
 10/9/2015

ITEM NO.	ITEM DESCRIPTION	TOTAL		Fiscal Year	
		QUANTITY	UNIT	UNIT PRICE	TOTAL COST
101-1	MOBILIZATION	1	LS	\$25,000.00	\$25,000.00
102-1	MAINTENANCE OF TRAFFIC	1	LS	\$21,000.00	\$21,000.00
104-20	EROSION CONTROL	1	LS	\$4,800.00	\$5,000.00
110-1-1	CLEARING & GRUBBING	0.40	AC	\$20,000.00	\$7,000.00
120-1	REGULAR EXCAVATION	593	CY	\$5.00	\$3,000.00
120-6	EMBANKMENT	593	CY	\$5.00	\$3,000.00
520-1-10	CURB AND GUTTER TYPE F	3,200	LF	\$17.00	\$54,000.00
522-1	CONCRETE SIDEWALK, 4" THICK	1,778	SY	\$35.00	\$62,000.00
570-1	SODDING	1,778	SY	\$5.00	\$9,000.00
	SIGNING & PAVEMENT MARKING	1	LS	\$5,000.00	\$5,000.00
Length of Project (ft.)		SUB- TOTAL		\$194,000.00	
	3,200				
		CONTINGENCY (15%)		\$29,000.00	
		DESIGN FEES (15%)		\$33,000.00	
		CEI FEES (10%)		\$26,000.00	
TOTAL ESTIMATED CONSTRUCTION COST (2016) :				\$223,000.00	

ESTIMATE BASIS AND ASSUMPTIONS:

- Construction cost is equal to the sum of sub-total and contingency. Design fees and CEI fees subject to change.
 - The mobilization costs are based on 15% of the construction cost
 - Embankment to 1 ft depth (Limits of Construction)
 - No specialized landscaping (beyond sodding)
 - Utility relocations by others
 - No R/W, Pond, Utility, Relocation Costs are included in Cost Estimate
- SOURCE: Unit Costs per FDOT (Area 8) averages (09/2014 - 08/2015)

Engineer's Opinion of Probable Cost

NW-13 SR 417 (Orange/Seminole Co. Line to SR 434)
 Widening 4 to 6 Lanes

ITEM NO.	ITEM DESCRIPTION	10/9/2015		Fiscal Year 2015	
		QUANTITY	UNIT	UNIT PRICE	TOTAL COST
101-1	MOBILIZATION	1	LS	\$561,000.00	\$561,000.00
102-1	MAINTENANCE OF TRAFFIC	1	LS	\$484,000.00	\$484,000.00
104-20	EROSION CONTROL	1	LS	\$24,900.00	\$24,900.00
110-1-1	CLEARING & GRUBBING	11.53	AC	\$20,000.00	\$231,000.00
120-6	EMBANKMENT	18,598	CY	\$5.00	\$93,000.00
160-4	TYPE B STABILIZATION	35,506	SY	\$5.00	\$178,000.00
285-706	OPTIONAL BASE, BASE GROUP 06	29,511	SY	\$20.00	\$590,000.00
327-70-1	Milling 1"	44,267	SY	\$2.50	\$111,000.00
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	2,435	TN	\$100.00	\$243,000.00
337-7-42	FRICITION COURSE FC-9.5, PG 76-22, PMA (TRAF C)	4,058	TN	\$180.00	\$730,000.00
520-1-10	CURB AND GUTTER TYPE F	16,600	LF	\$17.00	\$282,000.00
522-1	CONCRETE SIDEWALK, 4" THICK	9,222	SY	\$35.00	\$323,000.00
570-1	SODDING	12,911	SY	\$5.00	\$65,000.00
	TRAFFIC STRIPE (6" WHITE AND YELLOW)	49,800	LF	\$1.00	\$50,000.00
	DRAINAGE IMPROVEMENTS (PIPE & INLETS)	16,600	LF	\$20.00	\$332,000.00
Length of Project (ft.)		SUB- TOTAL		\$4,298,000.00	
	8,300				
Number of Lanes		CONTINGENCY (20%)		\$860,000.00	
	2	DESIGN FEES (15%)		\$774,000.00	
Pavement Depth (in.)		CEI FEES (10%)		\$593,000.00	
	1.5				
TOTAL ESTIMATED CONSTRUCTION COST (2015) :				\$5,160,000.00	

ESTIMATE BASIS AND ASSUMPTIONS:

- Construction cost is equal to the sum of sub-total and contingency. Design fees and CEI fees subject to change.
 - The mobilization costs are based on 15% of the construction cost
 - Embankment to 1 ft depth
 - No specialized landscaping (beyond sodding)
 - Utility relocations by others
 - 1.5" depth superpave
 - 1" depth friction course
 - 4' bike lane
 - No R/W, Pond, Utility, Relocation Costs are included in Cost Estimate
- SOURCE: Unit Costs per FDOT (Area 8) averages (09/2014 - 08/2015)

Engineer's Opinion of Probable Construction Cost

EXT-1 McCulloch Rd. Extension (Native Dancer Ln. to SR 419)

New 2 Lane Road

Winter 2016

Fiscal Year 2016

ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL COST
101-1	MOBILIZATION	1	LS	\$636,000.00	\$636,000.00
102-1	MAINTENANCE OF TRAFFIC	1	LS	\$551,000.00	\$551,000.00
104-20	EROSION CONTROL	1	LS	\$17,100.00	\$17,000.00
110-1-2	CLEARING & GRUBBING	13.09	AC	\$20,000.00	\$262,000.00
120-6	EMBANKMENT	21,111	CY	\$5.00	\$106,000.00
160-4	TYPE B STABILIZATION	35,467	SY	\$5.00	\$178,000.00
285-706	OPTIONAL BASE, BASE GROUP 06	30,400	SY	\$20.00	\$608,000.00
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	2,508	TN	\$100.00	\$251,000.00
337-7-42	FRICTION COURSE FC-9.5, PG 76-22, PMA (TRAF C)	1,672	TN	\$180.00	\$301,000.00
520-1-10	CONCRETE CURB & GUTTER, TYPE F	22,800	LF	\$17.00	\$388,000.00
522-1	CONCRETE SIDEWALK, 4" THICK	12,667	SY	\$35.00	\$444,000.00
570-1	SODDING	15,200	SY	\$5.00	\$76,000.00
	TRAFFIC STRIPE (6" WHITE AND YELLOW)	34,200	LF	\$1.00	\$35,000.00
	DRAINAGE IMPROVEMENTS (PIPE & INLETS)	11,400	LF	\$90.00	\$1,026,000.00
	BRIDGE CONSTRUCTION	17,100	SF	\$150.00	\$2,565,000.00
	Length of Project (ft.)			SUB- TOTAL	\$7,444,000.00
	11,400				
	Superpave Depth (in)			CONTINGENCY (20%)	\$1,489,000.00
	1.5			DESIGN FEES (15%)	\$1,340,000.00
	Frcition Course Depth (in)			CEI FEES (10%)	\$1,027,000.00
	1				
				TOTAL ESTIMATED CONSTRUCTION COST (2016) :	\$8,940,000.00

ESTIMATE BASIS AND ASSUMPTIONS:

- Construction cost is equal to the sum of sub-total and contingency. Design fees and CEI fees subject to change.
 - The mobilization costs are based on 15% of the construction cost
 - Embankment to 1 ft depth (R/W to R/W)
 - Assume section width of 50' for limits of construction
 - No specialized landscaping (beyond sodding)
 - Utility relocations by others
 - 1.5" depth superpave
 - 1" depth friction course
 - No R/W, Pond, Utility, Relocation Costs are included in Cost Estimate
 - Bridge costs based on <http://www.dot.state.fl.us/planning/policy/costs/Bridges.pdf>
- SOURCE: Unit Costs per FDOT (Area 8) averages (09/2014 - 08/2015)

Engineer's Opinion of Probable Construction Cost

SW-11 Slavia Rd. (Red Bug Lake Rd. to SR 426)
 Widening to 4 Lanes

ITEM NO.	ITEM DESCRIPTION	Winter 2016		Fiscal Year 2016	
		QUANTITY	UNIT	UNIT PRICE	TOTAL COST
101-1	MOBILIZATION	1	LS	\$479,000.00	\$479,000.00
102-1	MAINTENANCE OF TRAFFIC	1	LS	\$415,000.00	\$415,000.00
104-20	EROSION CONTROL	1	LS	\$7,200.00	\$8,000.00
110-1-1	CLEARING & GRUBBING	9.04	AC	\$20,000.00	\$181,000.00
120-6	EMBANKMENT	14,578	CY	\$5.00	\$73,000.00
160-4	TYPE B STABILIZATION	23,911	SY	\$5.00	\$120,000.00
285-706	OPTIONAL BASE, BASE GROUP 06	19,378	SY	\$20.00	\$388,000.00
327-70-1	Milling 1"	14,133	SY	\$2.50	\$36,000.00
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	2,080	TN	\$100.00	\$208,000.00
337-7-42	FRICTION COURSE FC-9.5, PG 76-22, PMA (TRAF C)	1,770	TN	\$180.00	\$319,000.00
520-1-10	CURB AND GUTTER TYPE E	8,800	LF	\$14.00	\$124,000.00
520-1-10	CURB AND GUTTER TYPE F	9,600	LF	\$17.00	\$164,000.00
522-1	CONCRETE SIDEWALK, 4" THICK	5,333	SY	\$35.00	\$187,000.00
570-1	SODDING	14,689	SY	\$5.00	\$74,000.00
	TRAFFIC STRIPE (6" WHITE AND YELLOW)	29,800	LF	\$1.00	\$30,000.00
	DRAINAGE IMPROVEMENTS (PIPE & INLETS)	9,600	LF	\$90.00	\$864,000.00
	BRIDGE CONSTRUCTION	7,750	SF	\$150.00	\$1,163,000.00
Length of Project (ft.)		SUB- TOTAL			\$4,833,000.00
4,800					
Superpave Depth (in.)		CONTINGENCY (20%)			\$967,000.00
1.5		DESIGN FEES (15%)			\$870,000.00
FC Depth (in.)		CEI FEES (10%)			\$1,334,000.00
1					
TOTAL ESTIMATED CONSTRUCTION COST (2016) :					\$5,800,000.00

ESTIMATE BASIS AND ASSUMPTIONS:

- THIS DOES NOT INCLUDE THE RECONSTRUCTION OF 417 BRIDGE OVER SLAVIA ROAD.
 - Construction cost is equal to the sum of sub-total and contingency. Design fees and CEI fees subject to change.
 - The mobilization costs are based on 15% of the construction cost
 - Embankment to 1 ft depth

 - No specialized landscaping (beyond sodding)
 - Utility relocations by others
 - 1.5" depth superpave
 - 1" depth friction course
 - 4' bike lane
 - No R/W, Pond, Utility, Relocation Costs are included in Cost Estimate
- SOURCE: Unit Costs per FDOT (Area 8) averages (09/2014 - 08/2015)

