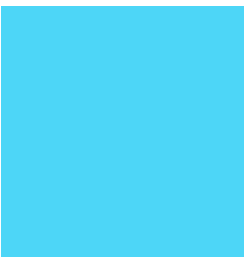
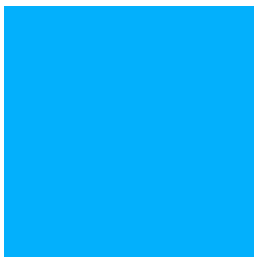
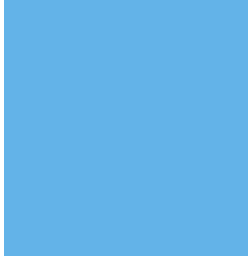
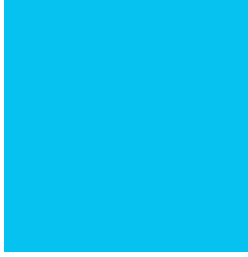
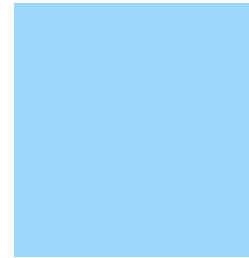
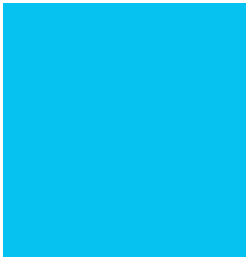


PALM BEACH MPO

CONGESTION

MANAGEMENT PROCESS



OCT 2016
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EXECUTIVE SUMMARY

Congestion in the transportation system is an issue that plagues urban communities, and is one of the most consistently cited issues of concern in citizen surveys. Time unnecessarily spent waiting for traffic signals to clear, or for buses to arrive, is frustrating to many citizens. Communities that seek to attract businesses often cite good transportation systems as a selling point in their promotion of good local quality of life. While Palm Beach County does not suffer the levels of congestion that are experienced in other communities, it is important to keep an eye on travel trends and congestion levels for two reasons:

- › Transportation is a very costly public infrastructure, and early corrective measures to reverse adverse trends lessens the fiscal impacts, and
- › Because of the size of the infrastructure, it is easy to lose sight of slow deterioration. Quantitative measures can identify if progress is being made towards system goals at a pace that is satisfactory to the community.

This report complies with the Federally-mandated procedures in 23 CFR 450.320a & b, which requires that all modes of transportation be addressed. It follows a 2011 “guideline report” published by the Federal Highway Administration (FHWA) that lays out a sequential process: define the study boundary, establish regional goals and measurable objectives, collect data, identify and analyze problem areas, generate and assess strategies, implement mitigation measures, and evaluate the outcome. This report was created with the help of various Palm Beach MPO stakeholders and data resources, including Palm Beach County Engineering, the Florida Department of Transportation, local municipalities, PalmTran, and Tri-Rail.

This edition of the report is one of the first of its kind so, while trends are not readily apparent yet, solutions to existing deficiencies are discussed. As subsequent updates to this report are undertaken, valuable trends analyses will

follow. The report card on the following page summarizes the various measures that the CMP tracks and relates to Table 01. Section 6 of the report discusses implementation of solutions, making use of a project ranking/prioritization procedure that transcends modes of travel. Appropriate project development phases of financially feasible mitigation measures should be included in the Long Range Transportation Plan (LRTP), the MPO Priority Project List, and the Transportation Improvement Program (TIP), as appropriate.

Measurement of transportation performance trends on a large-scale basis is challenging, and conditions may vary up or down from year to year, so immediate trend observations may not be accurate this early in the life of the congestion management program. However, of the 27 measures, early indications are that progress is being made in 14 measurement areas, no measureable change in six (yet), and that ground has been lost in seven. In some of the measures where ground was lost, such as park-n-ride spaces, the decline may be a result of formalizing the measurement procedure in this update. Others, such as decreasing the percentage of truck routes that are congested or reducing the number of congested intersections will likely be difficult to achieve since creation of transportation system capacity lags the rate at which travel is growing. For the “alternate” modes of travel measures, continued coordinated development of the alternate modes system is likely to show benefits over time.

This report provides policy-makers with a periodic review of local transportation conditions to support identification of trends in congestion so that solutions to congestion issues can be advanced.

Specific potential projects for improvement are identified in the report. In many cases the initial steps of advancing involve undertaking additional study to establish priorities and develop specifics of implementation, while others could advance into design and implementation sooner. There is a need, addressable as MPO transportation planning moves forward, to consider the financial and practical ability of MPO funding sources to achieve the stated goals and to assess the magnitude of the needs and integrate their costs into the County-wide transportation budget.

PALM BEACH MPO

CONGESTION MANAGEMENT PROCESS

2016 ANNUAL REPORT CARD

INDICATORS

PROGRESSED

NEEDS IMPROVEMENT

NO CHANGE

2040 LRTP GOALS & OBJECTIVES

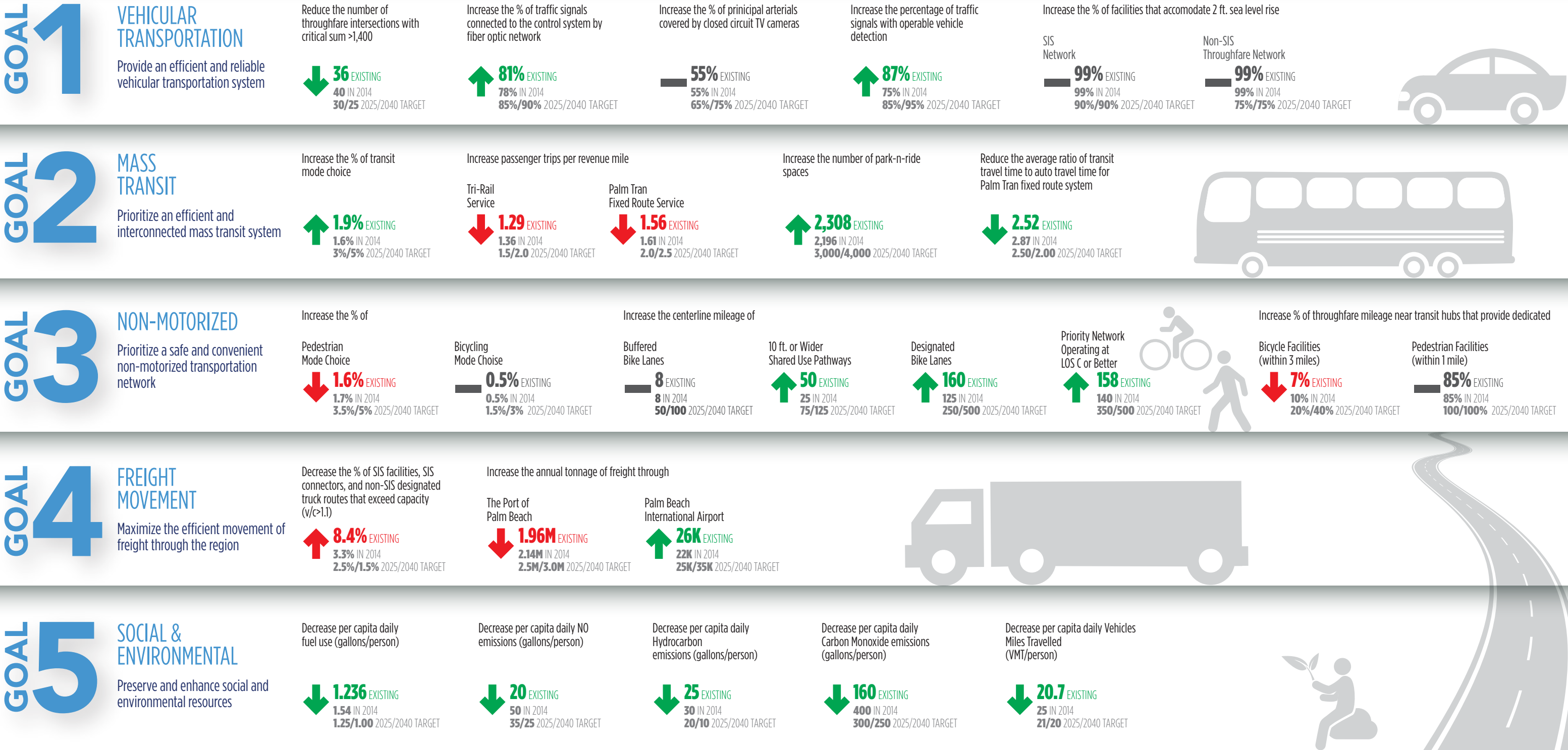


TABLE 01

PALM BEACH MPO DIRECTIONS 2040 LRTP GOALS & OBJECTIVES

	OBJECTIVE	DESCRIPTION	2014 VALUE	2016 VALUE	2025 VALUE	2040 VALUE
Goal 1: Provide an efficient and reliable vehicular transportation system						
1	1.1	Reduce the number of thoroughfare intersections with critical sum > 1400	40	36	30	25
	1.2	Increase the percentage of traffic signals connected to the central control system by fiber optic network	78%	81%	85%	90%
	1.3	Increase the percentage of principal arterials covered by closed circuit TV cameras	55%	55%	65%	75%
	1.4	Increase the percentage of traffic signals with operable vehicle detection	75%	87%	85%	95%
	1.5	Increase the percentage of facilities that accommodate two feet sea level rise For the SIS network For the non-SIS thoroughfare network	99% 99%	99%+ 99%	90% 75%	90% 75%
Goal 2: Prioritize an efficient and interconnected mass transit system						
2	2.1	Increase the percentage of transit commuter mode choice	1.6%	1.9%	3%	5%
	2.2	Increase passenger trips per revenue mile For Tri-Rail service For Palm Tran fixed route service	1.36 1.61	1.29 1.56	1.5 2.0	2.0 2.5
	2.3	Increase the number of park-n-ride spaces	2,196	2,014	3,000	4,000
	2.4	Reduce the average ratio of transit travel time to auto travel time for Palm Tran fixed route system	2.87	2.52	2.5	2.00
Goal 3: Prioritize a safe and convenient non-motorized transportation network						
3	3.1	Increase the percentage of Pedestrian commuter mode choice Bicycling commuter mode choice	1.7% 0.5%	1.6% 0.5%	3.5% 1.5%	5% 3%
	3.2	Increase centerline mileage of Buffered bike lanes 10-ft or wider shared use pathways Designated bike lanes Priority bike network operating at LOS C or better	8 25 125 140	8 50 160 158	50 75 250 350	100 125 500 500
	3.3	Increase percentage of thoroughfare mileage near transit hubs That provides dedicated bicycle facilities (within 3 miles) That provides dedicated pedestrian facilities (within 1 mile)	10% 85%	7% 85%	20% 100%	40% 100%
Goal 4: Maximize the efficient movement of freight through the region						
4	4.1	Decrease the percentage of SIS facilities, SIS connectors, and non-SIS designated truck routes that exceed capacity (v/c > 1.1)	3.3%	8.4%	2.5%	1.5%
	4.2	Increase the annual tonnage of freight through The Port of Palm Beach Palm Beach International Airport	2.14M 22K	1.96M 24K	2.5M 25K	3.0M 35K
Goal 5: Preserve and Enhance Social and Environmental Resources						
5	5.1	Decrease per capita daily fuel use (gallons/person)	1.54	1.24	1.25	1.00
	5.2	Decrease per capita daily NOx emissions (grams/person)	50	20	35	25
	5.3	Decrease per capita daily Hydrocarbon emissions (grams/person)	30	25	20	10
	5.4	Decrease per capita daily Carbon Monoxide emissions (grams/person)	400	160	300	250
	5.5	Decrease per capita daily Vehicles Miles Travelled (VMT/person)	25	20.7	21	20

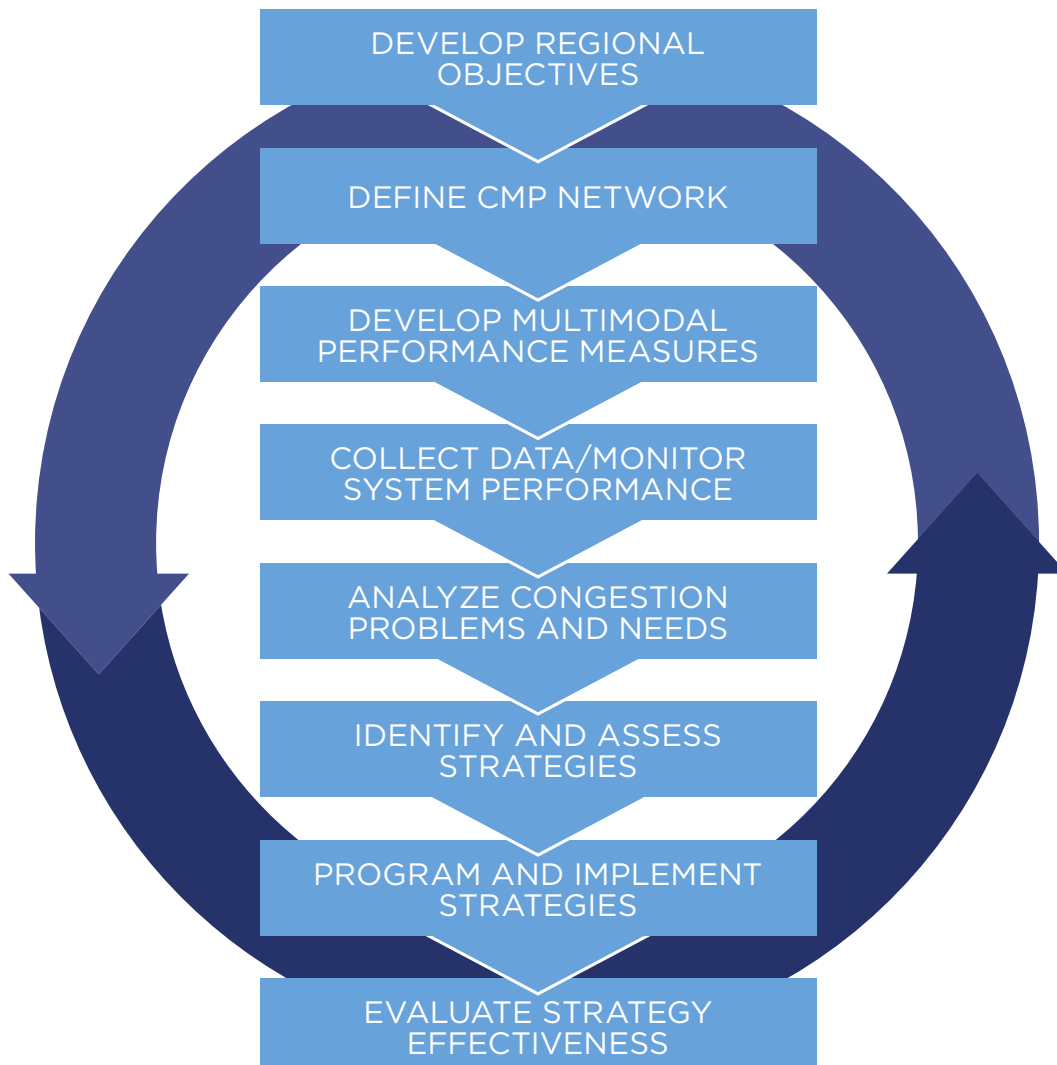
		DESCRIPTION	STRATEGY
Goal 1: Provide an efficient and reliable vehicular transportation system			
1	1.1	Reduce the number of thoroughfare intersections with critical sum > 1400	Conceptual schematic diagrams of the 36 potential improvements and a summary of all 400 intersection capacity analyses are included in Appendix C. Upon review by local agency staff, those locations judged to be in greatest need of improvement should be advanced for further study to refine the solution and feasibility of improvement.
	1.2	Increase the percentage of traffic signals connected to the central control system by fiber optic network	To address measures 1.2 and 1.3, an update to Palm Beach County's Intelligent Transportation Systems Master Plan should be undertaken to establish the next logical expansion of the ATMS.
	1.3	Increase the percentage of principal arterials covered by closed circuit TV cameras	
	1.4	Increase the percentage of traffic signals with operable vehicle detection	The MPO currently has a Local Initiative prioritized project with design funding in the TIP in year 2018. Once construction funds are programmed, this project will move the MPO closer to achieving its target.
	1.5	Increase the percentage of facilities that accommodate two feet sea level rise For the SIS network For the non-SIS thoroughfare network	In regard to the identified road segments the MPO suggests each responsible agency incorporate an engineering solution which will
Goal 2: Prioritize an efficient and interconnected mass transit system			
2	2.1	Increase the percentage of transit commuter mode choice	Fund identified LRTP and TDP projects.
	2.2	Increase passenger trips per revenue mile For Tri-Rail service For Palm Tran fixed route service	Funding TDP recommendations and system enhancements.
	2.3	Increase the number of park-n-ride spaces	Fund future TDP recommended Park-n-ride lots.
	2.4	Reduce the average ratio of transit travel time to auto travel time for Palm Tran fixed route system	A TDP, in progress for PalmTran, will identify appropriate strategies to make bus transit service more efficient.
Goal 3: Prioritize a safe and convenient non-motorized transportation network			
3	3.1	Increase the percentage of Pedestrian commuter mode choice Bicycling commuter mode choice	Fund sidewalks and bicycle facilities through Transportation Alternatives (TA) and Local Initiative (LI) programs.
	3.2	Increase centerline mileage of Buffered bike lanes 10-ft or wider shared use pathways Designated bike lanes Priority bike network operating at LOS C or better	Fund sidewalks and bicycle facilities through Transportation Alternatives (TA) and Local Initiative (LI) programs.
	3.3	Increase percentage of thoroughfare mileage near transit hubs That provides dedicated bicycle facilities (within 3 miles) That provides dedicated pedestrian facilities (within 1 mile)	Fund sidewalks and bicycle facilities through Transportation Alternatives (TA) and Local Initiative (LI) programs.
Goal 4: Maximize the efficient movement of freight through the region			
4	4.1	Decrease the percentage of SIS facilities, SIS connectors, and non-SIS designated truck routes that exceed capacity (v/c > 1.1)	A solution strategy would be to implement capacity-increasing improvements such as intersection lane additions or capacity increases where possible, and according higher priorities to such improvements that fall on the SIS and non-SIS truck routes.
	4.2	Increase the annual tonnage of freight through The Port of Palm Beach Palm Beach International Airport	While the MPO does not directly participate in attracting freight movement through Palm Beach County's ports, the MPO can influence the identification and assignment of higher priorities to improvements to land-side access roads to minimize congestion, as discussed above in Section 4.1.
Goal 5: Preserve and Enhance Social and Environmental Resources			
5	5.1	Decrease per capita daily fuel use (gallons/person)	Methods to decrease fuel consumption per capita would include: <ul style="list-style-type: none"> > Continue to improve service provided by alternative modes > Support CAFÉ standards and alternative energy vehicles (electric/hydrogen) > Improve mix of land uses to bring homes and needs/employment closer (density and diversity of land uses) > Reduce congestion/delay/idle-time through intersection, roadway, and ITS/signal timing improvements
	5.2	Decrease per capita daily NOx emissions (grams/person)	Research capital funding of air quality stations in Palm Beach County; reduce VMT and promote alternatives modes of transportation.
	5.3	Decrease per capita daily Hydrocarbon emissions (grams/person)	
	5.4	Decrease per capita daily Carbon Monoxide emissions (grams/person)	
	5.5	Decrease per capita daily Vehicles Miles Travelled (VMT/person)	Three strategic options to reduce motor fuel consumption that can be funded by MPO programs are: <ul style="list-style-type: none"> > Shift travel to alternate modes by improving the quality of service provided for those modes. > Shorten necessary trips by promoting higher densities and diversity of land uses, > Reduce the need for trip-making through improved communications and goods and service delivery technologies.

SECTION 1: INTRODUCTION

A Congestion Management Process, or CMP, involves routinely monitoring all modes of travel and activity on the transportation network and managing the system's performance by identifying and advancing effective solutions, or improvements, that mitigate the adverse impacts of congestion. The majority of congestion occurs when demand exceeds the capacity of a transportation facility, resulting in significant increases in user travel time. Congestion also arises due to non-recurring events, such as accidents, adverse weather, work zone activity, and special events. The goal of the CMP is to maintain acceptable levels of congestion through the implementation of agreed upon mitigation solutions.

According to federal legislation (23 CFR 450.320a & b), MPOs that reside in Transportation Management Areas (TMAs), which are urban areas that have a population of at least 200,000, "shall address congestion management through a process that provides for safe and effective integrated management and operation of the multimodal transportation system." Figure 01 outlines the 8-step process of the CMP as recommended by FHWA.

FIGURE 01 **CONGESTION MANAGEMENT
PROCESS 8-STEP FLOW-CHART**



If performance falls short of the regional goals and objectives, then the process is re-evaluated to consider the need for additional funding, adjusting goals, and/or identifying alternative or adjusted mitigation strategies. Otherwise, the CMP is showing evidence of effectiveness, and stability. Such an iterative process is characteristic of the '3C' (Continuing, Comprehensive, and Cooperative) transportation planning process required of Metropolitan Planning Organizations (MPOs) under the Federal-Aid Highway Act of 1962.

Prior to instituting an on-going performance-monitoring and mitigation-driven system, the MPO was only required to produce planning-level (i.e., Long Range Transportation Plans, or LRTP), and investment allocation (i.e., Transportation Improvement Program, or TIP) documents. What these two documents fail to capture, however, is an on-going, continuous monitoring process of the transportation network at the level of operations to ensure the established regional goals and objectives are in fact being achieved at the person-trip level. The CMP makes up for this shortfall by ensuring not only that the performance targets are being achieved, but that they maintain this status over time by creating an iterative and robust process that evaluates and implements congestion-mitigation strategies dynamically.

Each of the eight steps of the CMP is stated in general form, allowing for the flexibility of the respective MPO to define their own objectives, performance measures, targets, and mitigation strategies. This is to be expected since the CMP is context sensitive and that each MPO is independent and unique in nature with respect to (among others) population and network infrastructure, socioeconomic characteristics, geography, and political structure.

A unique feature to this new version of the 8-step CMP is the added feedback mechanism after the final step, resulting in a repeat of step 1 and the assurance of an on-going, continuous process. Such an analytical and iterative framework is what makes the 8-step CMP a dynamic process, as opposed to a static system. In the early 1990's the CMP was originally called CMS, or Congestion Management System, and was produced in a fashion that would reflect a combination of the LRTP and TIP, but without any form of on-going monitoring of the performance of the system and would essentially be treated as a static document. By converting the system to a process, the CMP has become a more influential planning tool that can be utilized by MPOs to ensure their LRTPs and TIPs are being fully executed.

The subsequent Sections will cover in further detail each of the eight steps of the CMP with respect to the Palm Beach Metropolitan Planning Organization (PBMPO), including established performance measures and desired targets, existing data collection programs, project prioritization selection process, evaluation, and implementation, and recommended future steps to help further the evolution and development of the CMP. A summary with final conclusions will also be provided that will summarize the lessons learned by the Palm Beach MPO and what future steps are recommended in order to help improve the overall congestion management process.

SECTION 2: DEFINE THE CMP NETWORK

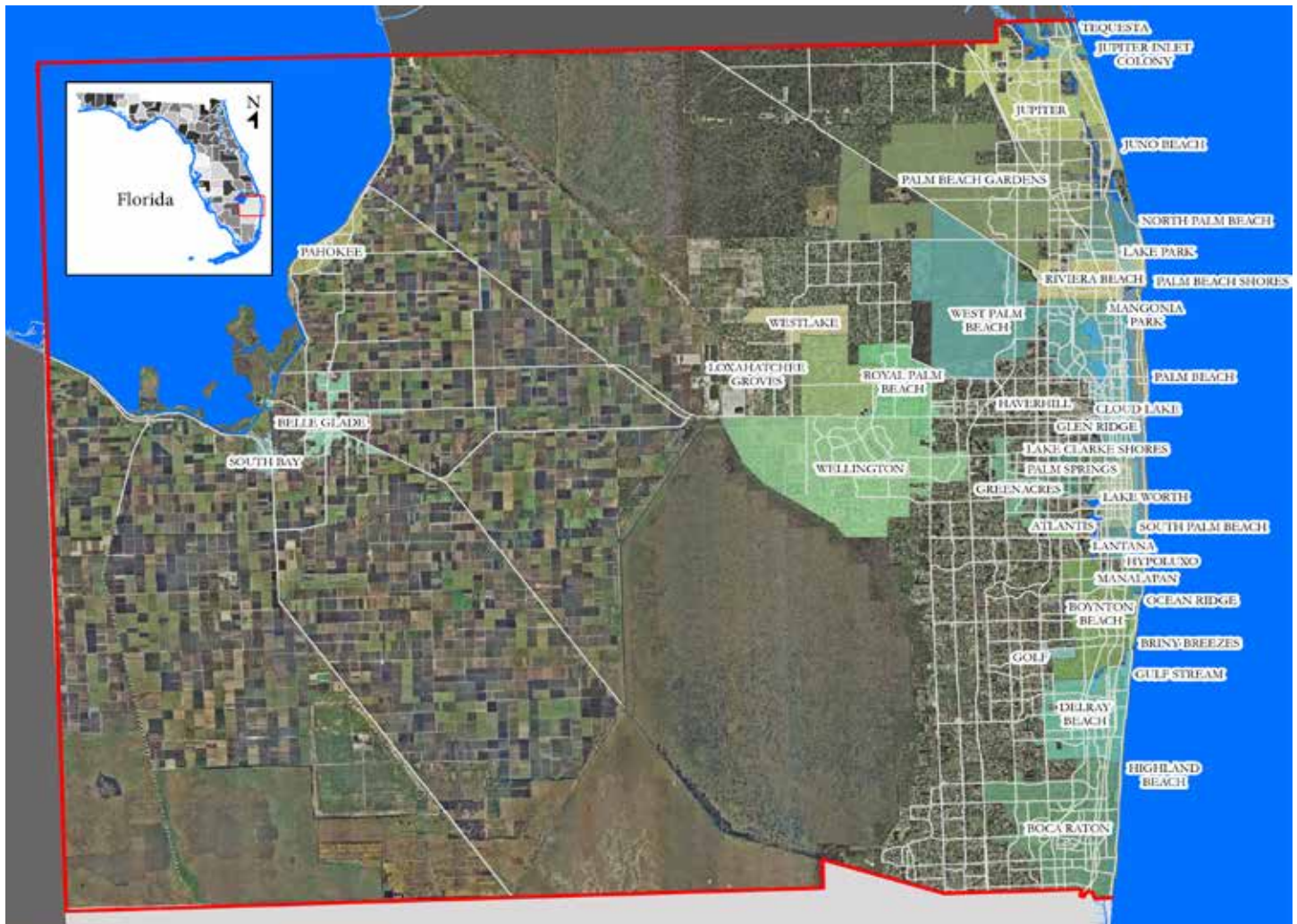
The second step of the CMP is to define the study area, or boundary, that will encompass the entire scope of analysis. This is typically done at the county level, as opposed to the city level, and would encompass all modes of the transportation network. Figure 02 displays the study area (outlined in red) for the Palm Beach MPO CMP. The total area (land and water) of Palm Beach County is approximately 2,400 square miles, making it the second largest county in the state of Florida.

Palm Beach County's population is expected to grow by 26 percent from 2015 to 2040, and Vehicle Miles Travelled by 34 percent, annual growth rates of 0.93 and 1.24 percent per year, respectively, according to the Southeast (Florida) Regional (Transportation) Planning Model (SERPM).

ROADS

Palm Beach County's transportation network includes a dense array of freeways, arterials, collector non-motorized facilities, airports, a deep-water seaport, and extensive rail facilities serving passenger and freight purposes. The system includes 4,650 lane-miles of major roads (excluding local streets, 600 limited access, 3,340 arterial, and 710 collector, see Appendix A for 2014 Federal Functional Classification map) which carries 29.7 million vehicle-miles of travel per day. The major corridors include I-95, the longest north-south interstate in the country stretching 1,925 miles along the US eastern coastline, Florida's Turnpike, a limited access toll facility that provides auto and truck

FIGURE 02 **CMP STUDY AREA**



drivers with an alternate, parallel route to I-95. Major east-west arterial roads include: Beeline Highway, Southern Boulevard, Indiantown Road, Northlake Blvd, Okeechobee Blvd, Lake Worth Road, Atlantic Avenue, and Glades Road. Figure 03 and Figure 04 chart the distribution of roadways designated on the 2014 Federal Functional Classification map by responsible agency and municipality (local roads only), respectively.

TRANSIT

The two major transit operators in the county are PalmTran (Bus), with a fleet of 192 buses operating 35 fixed routes and averaging approximately 36,000 riders per weekday, and Tri-Rail (commuter train) who has 18 stations along 71 miles of track with a ridership of approximately 14,800 per weekday. Figure 05 and Figure 06 provide system maps of the PalmTran and Tri-Rail operators. Other smaller operators include local municipal shuttle and trolley services.

FIGURE 03 2014 FEDERAL ARTERIAL AND COLLECTOR ROAD CENTERLINE MILE DISTRIBUTION

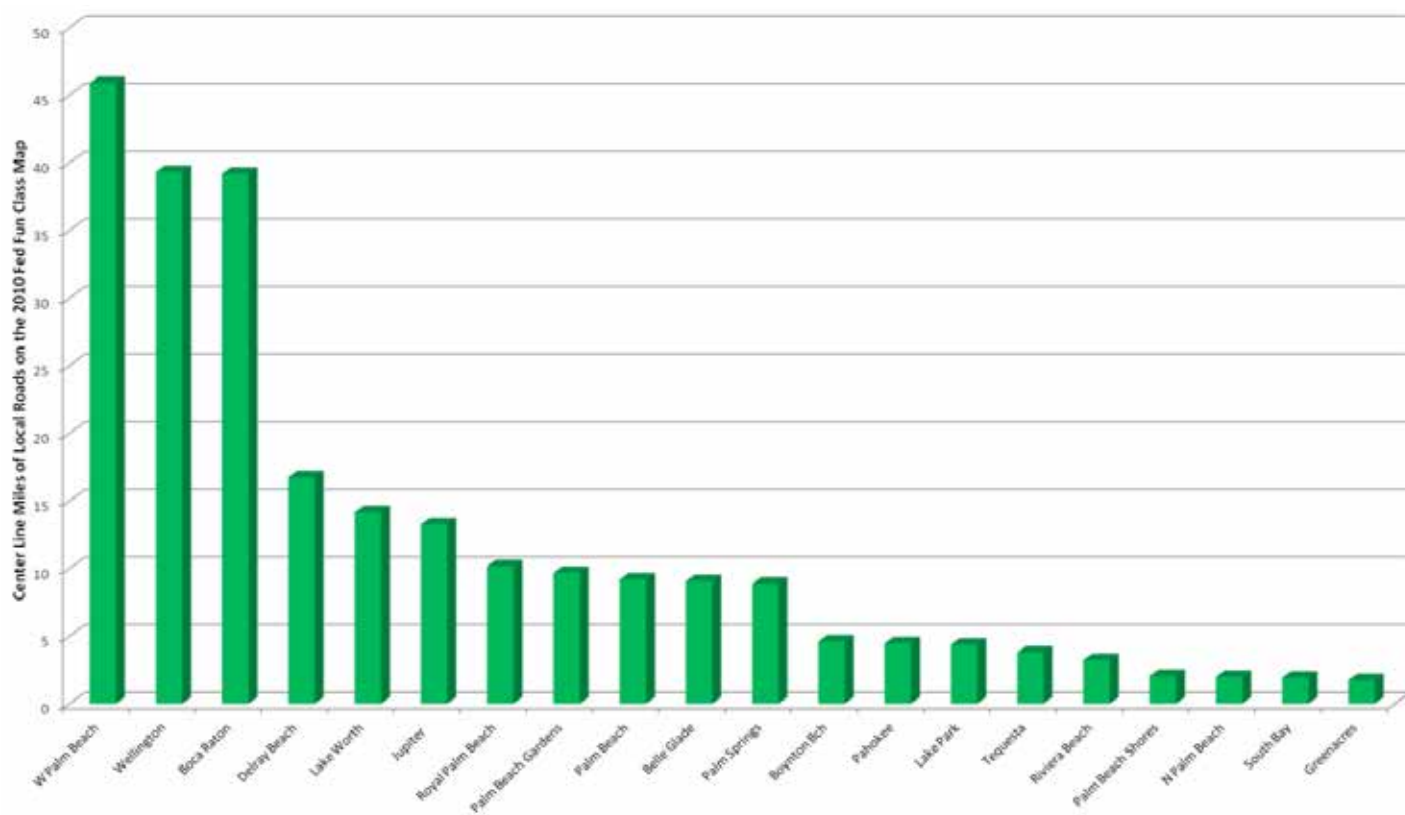


FIGURE 04 2014 MUNICIPAL ROAD CENTERLINE MILES ON FEDERAL FUNCTIONAL CLASSIFICATION SYSTEM

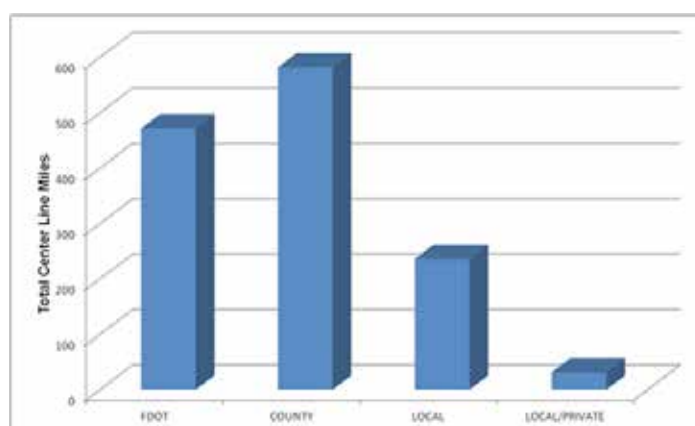


FIGURE 05 **PALM TRAN BUS ROUTE SYSTEM MAP**

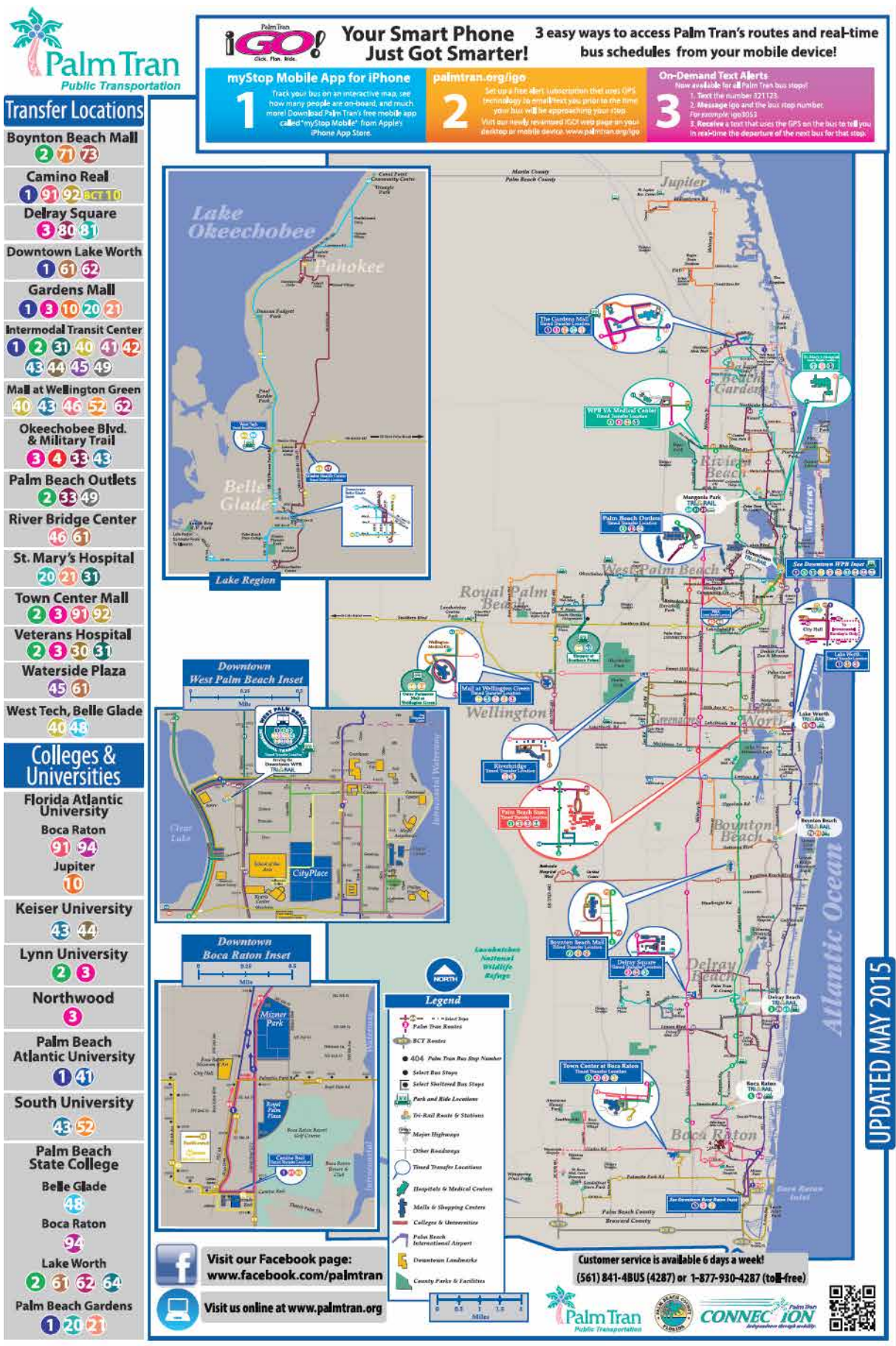


FIGURE 06 TRI-RAIL SYSTEM MAP



NON-MOTORIZED

Bike lanes and other non-motorized facilities, including greenways, are also prevalent throughout the County. A map illustrating the extent of on-road bicycle facilities is provided in Figure 07.

Sidewalks are an important component of the non-motorized network. At the time of publication, sidewalk data was not complete, but will be used in future iterations of the report.

FIGURE 07 **PALM BEACH COUNTY ON-ROAD BICYCLE FACILITIES MAP**



SECTION 3: DEVELOP REGIONAL GOALS, OBJECTIVES & PERFORMANCE MEASURES

After defining the CMP network, the next step of the CMP is to establish and define the region's desired transportation goals and associated objectives; and in turn, performance measures to be met. The goals are comprised of generalized statements that are traditionally transportation-specific and would ideally address a particular mode of transport (e.g., goals in terms of automobile versus transit). The objectives on the other hand are more specific and measurable in nature. Each objective is also tied to a goal to maintain consistency, and is stated in a manner that is regional in scale.

The Palm Beach MPO preceded the formal unveiling of the region's goals and objectives by first establishing a set of Values that were used to develop the long range plan. Table 03 provides the Values of the Palm Beach MPO's 2040 LRTP. In parallel with the state and federal transportation administrations, the first value of the Palm Beach MPO is to improve the safety and security of the transportation system, followed by maintaining and utilizing the existing system to its maximum potential and design-life.

The values range across all modes, users, and geographic- and economic-type areas of the Palm Beach County region. Value #3: "Implement Transportation Systems Management and Operations (TSM&O) and Transportation Demand Management (TDM) strategies to maximize efficiency of existing system before expanding." foreshadows the efforts of developing and maintaining a CMP since TSM&O and TDM strategies are critical components of the overall Congestion Management Process. The Values provide a framework for the Palm Beach MPO to work from when generating the goals and objectives for the CMP.

TABLE 03 **PALM BEACH MPO DIRECTIONS 2040 LONG RANGE TRANSPORTATION PLAN VALUES**

1	Improve the safety and security of the transportation system for all users.
2	Fund maintenance and rehabilitation of existing infrastructure before expanding.
3	Implement Transportation Systems Management and Operations (TSM&O) and Transportation Demand Management (TDM) strategies to maximize efficiency of existing system before expanding.
4	Maximize benefits of existing transportation revenues.
5	Provide multimodal access to areas with low income and/or traditionally under served populations.
6	Support context-sensitive implementation of complete street principles in or near identified redevelopment areas or urban centers.
7	Support economic growth and development through projects consistent with local comprehensive plans and with minimal environmental impacts.
8	Promote regionally significant facilities and coordination of projects crossing jurisdictional boundaries to facilitate effective movement of people and goods.
9	Prioritize non-motorized facilities at all transit hubs, interchanges, bridges, and railroad crossings.
10	Invest in efficient, convenient and attractive mass transit system.

Table 04 outlines the desired goals and objectives for the Palm Beach MPO's Directions 2040 Long Range Transportation Plan and are derived from the Values shown in Table 03. Each of the five goals has been partitioned by mode: Vehicular, Public Transit, Non-Motorized, and Freight (with a final category that includes Energy and Environmentally-driven goals). Each goal also has assigned to it a set of objectives, or performance measures, which will be used to measure the effectiveness of the MPO's long range plan and associated cost feasible projects.

The objectives were explicitly defined in a manner that ensures the MPO's ability to measure and quantify each performance metric, including base year conditions, and desired target values for future horizon years. Further discussion of these performance measures will be provided in subsequent Sections given they are a separate step in the CMP process. Note that the goals, objectives, and values (or GOVs) of the LRTP are used as the GOVs for the CMP, ensuring both consistency and continuity between the MPO's long range planning efforts and its near-term congestion management process. Performance measures in addition to those shown on Table 04 may be added to the CMP, given the time-scale of several of the objectives.

Following identification of goals and objectives is the selection of the appropriate Performance Measures (PMs) that will be utilized to assess the functionality and operation of the transportation system. According to MAP-21, "...MPOs shall develop long-range transportation plans and transportation improvement programs through a performance-driven, outcome-based approach to planning," 23 USC Section 134(c) (1). The regional values and goals of the Palm Beach MPO were introduced in Table 03 to set a foundation for the PMs through means of the objectives shown in Table 04. Each one of the five goals shown in the table has been assigned specific, measurable, agreed-upon, realistic, and time-bound (SMART) objectives. For the purposes of the CMP, and with respect to the aforementioned MAP-21 guidelines, these objectives will be used as a proxy for PMs of the transportation system, in addition to other measures that will be discussed in the subsequent sections.

3.1 LONG RANGE TRANSPORTATION PLAN OBJECTIVES AND TARGETS

There are a total of 27 PMs shown on Table 04, each one presented as goal- and mode-specific. Partnered with the Performance Measures are a set of target values, including the 2014 base year value. The "2016 Value" column is the condition measured in 2016, and addresses the data gathering process of this report. These measures are early indicators with respect to future desired outcomes. The 2025 target serves as a midway check-point between the base year and horizon year. By providing midpoint target values, the MPO could make adjustments to policy decisions in certain areas that are showing poor performance with respect to the established objectives.

TABLE 04 PALM BEACH MPO DIRECTIONS 2040 LRTP GOALS & OBJECTIVES

	OBJECTIVE	DESCRIPTION	2014 VALUE	2016 VALUE	2025 VALUE	2040 VALUE
Goal 1: Provide an efficient and reliable vehicular transportation system						
1	1.1	Reduce the number of thoroughfare intersections with critical sum > 1400	40	36	30	25
	1.2	Increase the percentage of traffic signals connected to the central control system by fiber optic network	78%	81%	85%	90%
	1.3	Increase the percentage of principal arterials covered by closed circuit TV cameras	55%	55%	65%	75%
	1.4	Increase the percentage of traffic signals with operable vehicle detection	75%	87%	85%	95%
	1.5	Increase the percentage of facilities that accommodate two feet sea level rise For the SIS network For the non-SIS thoroughfare network	99% 99%	99%+ 99%	90% 75%	90% 75%
Goal 2: Prioritize an efficient and interconnected mass transit system						
2	2.1	Increase the percentage of transit commuter mode choice	1.6%	1.9%	3%	5%
	2.2	Increase passenger trips per revenue mile For Tri-Rail service For Palm Tran fixed route service	1.36 1.61	1.29 1.56	1.5 2.0	2.0 2.5
	2.3	Increase the number of park-n-ride spaces	2,196	2,014	3,000	4,000
	2.4	Reduce the average ratio of transit travel time to auto travel time for Palm Tran fixed route system	2.87	2.52	2.5	2.00
Goal 3: Prioritize a safe and convenient non-motorized transportation network						
3	3.1	Increase the percentage of Pedestrian commuter mode choice Bicycling commuter mode choice	1.7% 0.5%	1.6% 0.5%	3.5% 1.5%	5% 3%
	3.2	Increase centerline mileage of Buffered bike lanes 10-ft or wider shared use pathways Designated bike lanes Priority bike network operating at LOS C or better	8 25 125 140	8 50 160 158	50 75 250 350	100 125 500 500
	3.3	Increase percentage of thoroughfare mileage near transit hubs That provides dedicated bicycle facilities (within 3 miles) That provides dedicated pedestrian facilities (within 1 mile)	10% 85%	7% 85%	20% 100%	40% 100%
Goal 4: Maximize the efficient movement of freight through the region						
4	4.1	Decrease the percentage of SIS facilities, SIS connectors, and non-SIS designated truck routes that exceed capacity (v/c > 1.1)	3.3%	8.4%	2.5%	1.5%
	4.2	Increase the annual tonnage of freight through The Port of Palm Beach Palm Beach International Airport	2.14M 22K	1.96M 24K	2.5M 25K	3.0M 35K
Goal 5: Preserve and Enhance Social and Environmental Resources						
5	5.1	Decrease per capita daily fuel use (gallons/person)	1.54	1.24	1.25	1.00
	5.2	Decrease per capita daily NOx emissions (grams/person)	50	20	35	25
	5.3	Decrease per capita daily Hydrocarbon emissions (grams/person)	30	25	20	10
	5.4	Decrease per capita daily Carbon Monoxide emissions (grams/person)	400	160	300	250
	5.5	Decrease per capita daily Vehicles Miles Travelled (VMT/person)	25	20.7	21	20

SECTION 4: DATA COLLECTION, ANALYSIS, AND RECOMMENDATIONS

An important aspect of establishing the performance measures is to be sure the needed data is collected consistently by responsible agencies, that subsequent preparers of this report know exactly where the data resides and how to convert the data to measures for consistency of reporting, and that the data itself represents the desired measure. This Section, and its associated appendices, summarizes the data sources and analysis procedures.

The following sections describe in further detail the variables quantified for each respective transportation mode, starting with the mode exhibiting the highest share of travel throughout Palm Beach County: Vehicular Travel.

1. VEHICULAR PERFORMANCE MEASURES

1.1 REDUCE THE NUMBER OF THOROUGHFARE INTERSECTIONS WITH CRITICAL SUM > 1,400

To measure how congested an intersection is you must analyze the sum of critical movement volumes at a signalized intersection. The higher the value, the greater the congestion, with a sum of 1,400 being near the limit of capacity. The level of congestion at signalized intersections is a good measure to monitor because urban roadway operations are largely controlled by the operation of signalized intersections.

Using peak-hour turning movement counts provided by the County's traffic division, the critical movement sum for 400 of approximately 1,175 signalized locations was calculated using the FHWA's Critical Movement Analysis (CMA) methodology. The methodology is summarized in Appendix B. The premise of the CMA is to determine the sum of the per-lane volumes that conflict with each other at an intersection.

A listing of the intersections with current critical movement sums greater than 1,400 is provided in Table 05, which also includes a notation if the intersection is included in a roadway lane-addition project in the cost-feasible transportation plan and an indication of a potential improvement to restore the sum of critical movements to less than 1,400, if possible. Three of the 36 intersections are located on roads scheduled for improvement in the first ten years of the adopted cost-feasible transportation plan.

Mitigation Strategy

Conceptual schematic diagrams of the 36 potential improvements and a summary of all 400 intersection capacity analyses are included in Appendix C. Upon review by local agency staff, those locations judged to be in greatest need of improvement should be advanced for further study to refine the solution and feasibility of improvement.

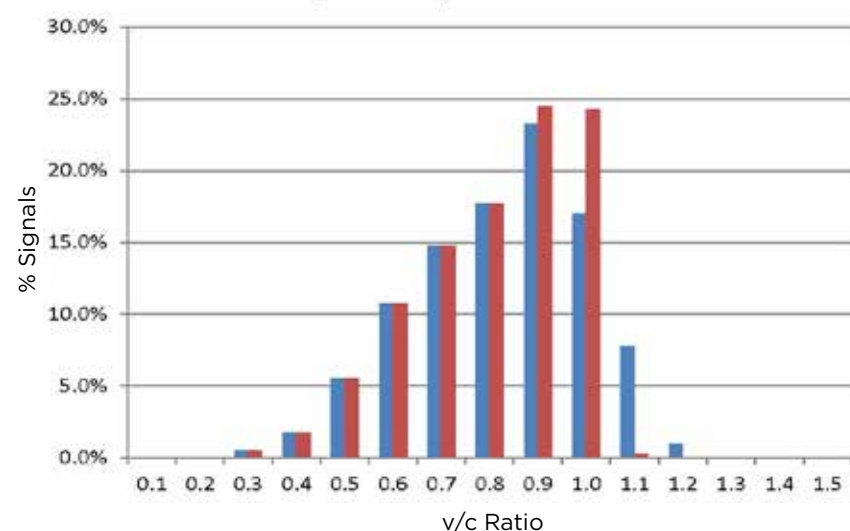
The 2040 Long-Range Transportation Plan includes a \$954 million budget from 2020 through 2040 for "Local Initiatives" projects, which could be used to fund improvements identified for the measure.

Figure 08 shows the distribution of CMA results, using the critical sum divided by 1,400 as a volume-to-capacity (v/c) ratio, and the weighted average value as a single measure of overall conditions, for intersections using data collected in 2012 through 2016. These counts indicate that 36 locations have critical sums over 1,400, and the 400 intersections have an average volume-to-capacity ratio (weighted by the volume of traffic using the intersections) of 0.827. While the figure and accompanying table shows the 36 intersections with critical sums over 1,400 today (v/c ratios greater than 1.0), another 171 intersections are indicated as operating in the range from 0.80 to 1.00. At an annual traffic growth rate of 1.24 percent per year, over the coming 15 years, they will also exceed the 1,400 limit. Analysis of potential "cures" to reduce the critical sums to less than 1,400 indicate that many of the 36 intersections will need further improvements within the coming 15-year timeframe. The implication is that capacity-adding improvements will be required at more than 11 intersections per year over the coming 15 years.

TABLE 05 SUMMARY OF POTENTIAL INTERSECTION IMPROVEMENTS

Signal ID	Intersection	TMC Year	Max CMS	Added Lanes:												Max CMS	Total Lanes:											
				EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR		EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
58005	Clint Moore Rd at Lyons Rd	2016	1,460								1					1,265							2					
27127	Community Dr at Military Tr	2016	1,400									1				1,361								1				
33500	Forest Hill Bl at Congress Ave	2015	1,438									1				1,368								1				
33475	Forest Hill Bl at Kirk Rd	2015	1,400											1	-1	1,287										2		
33405	Forest Hill Bl at Lyons Rd	2015	1,438								1					1,192							2					
33450	Forest Hill at Military Tr	2016	1,532												1	1,399									2		1	
62635	Glades Rd at Airport Rd/NW 15th Ave	2013	1,513						1					1		1,346						3				2		
62510	Glades Rd at Fl Turnpike	2016	1,492	1												1,335	3											
4750	Indiantown Rd at Alt A1A/SR 811	2016	1,440							1						1,281							2					
4660	Indiantown Rd at Central Bl	2016	1,408								1					1,332							2					
37001	Lake Worth at SR 7	2016	1,465	1								1				1,380	3								1			
40150	Lantana Rd at High Ridge Rd	2015	1,539									1	1			1,379								1	2			
55160	Linton Bl at Federal Hwy/US 1	2016	1,466					1								1,369					3							
55075	Linton Bl at Military Tr	2015	1,499				1								1	1,372				3							1	
17380	Northlake Bl at Alt A1A/SR 811	2016	1,443	1												1,169	2											
17290	Northlake Bl at Beeline HWY	2015	1,523					1								1,289					3							
27728	Okeechobee Bl at Benoist Farms Rd/WPB FS #7	2015	1,430								1					1,397							2					
27750	Okeechobee Bl at Jog Rd	2015	1,495							1						1,395							3					
27850	Okeechobee Bl at Military Tr	2016	1,483							1			1			1,399							3			3		
27885	Okeechobee Bl at Palm Beach Lakes Bl	2016	1,481													1,481												
26020	Palm Beach Lakes Bl at Robbins Dr	2015	1,559	1												1,344	4											
64021	Palmetto Park Rd at Lyons Rd	2016	1,460										1			1,397									3			
64050	Palmetto Park Rd at Powerline Rd	2016	1,645	1	1									1		1,390	3	4								3		
14300	PGA Bl at Fla Turnpike/Fairway Dr	2016	1,412				1									1,277				2								
14450	PGA Bl at Prosperity Farms Rd	2016	1,401										1			1,353									3			
30735	Southern Bl at Forest Hill/Crestwood Bl	2016	1,454				1									1,305				3								
30860	Southern Bl at Kirk Rd	2016	1,409				1									1,399				3								
30790	Southern Bl at Lyons Rd/Sansbury Way	2016	1,511				1						1	1		1,397				2					3	2		
34500	Stribling Way at SR 7	2016	1,413				1									1,321				2								
67410	SW 18th St Lyons Rd	2016	1,575				1			1						1,368				3			2					
67530	SW 18th St at Military Tr	2015	1,536	1				1			1			1		1,193	2				2		3			3		
67500	SW 18th St at Powerline Rd	2016	1,489											1		1,374										3		
53043	W Atlantic Ave at Fl Turnpike/Tranquility	2016	1,459						1							1,350					1							
47575	Woolbright Rd at Seacrest Bl	2015	1,414			1										1,142			1									
59000	Yamato Rd at Lyons Rd	2016	1,574	1												1,320	3											
300024	Yamato Rd at Military Tr	2014	1,507				1			1						1,396				3			3					

FIGURE 08 DISTRIBUTION OF CRITICAL MOVEMENT ANALYSIS RESULTS



V/C Ratio (<=to)	Existing		Improved	
	Count	%	Count	%
0.10	0	0.0%	0	0.0%
0.20	0	0.0%	0	0.0%
0.30	2	0.5%	2	0.5%
0.40	7	1.8%	7	1.8%
0.50	22	5.5%	22	5.5%
0.60	43	10.8%	43	10.8%
0.70	59	14.8%	59	14.8%
0.80	71	17.8%	71	17.8%
0.90	93	23.3%	98	24.5%
1.00	68	17.8%	97	24.3%
1.10	31	7.8%	1	0.3%
1.20	4	1.0%	0	0.0%
1.30	0	0.0%	0	0.0%
1.40	0	0.0%	0	0.0%
1.50	0	0.0%	0	0.0%
Count	400		400	
Number w/CMS > 1,400:		Existing	Improved	
		36	1	
Weighted Average V/C:		0.827	0.814	

While it will be desirable to keep congestion as low as practicable in upcoming years, it will not be possible to keep all intersections operating at good levels of service -- as both the social and economic costs of continuing to widen roads is not affordable. In several of the intersection improvement cases studied for this CMP update, the ability to widen roadways (e.g. six or eight through lanes) and the number of auxiliary turn lanes (three lefts and two rights) are at their practical limits.

Grade-separation with significant impacts on surrounding properties, or development of parallel corridors would be the next step of roadway improvement. In addition, since the rate of funding to add capacity lags the rate of growth in travel, roadway congestion levels will increase in the future. Thus, shifts in travel to modes with greater capacity (e.g. express bus or rail) and redevelopment at increased land use densities to reduce per capita travel demand are the longer-term solutions to mobility. This intersection congestion monitoring exercise remains valuable, however, to minimize roadway congestion where effective opportunities exist.

1.2 INCREASE THE PERCENTAGE OF TRAFFIC SIGNALS CONNECTED TO THE CENTRAL CONTROL SYSTEM BY FIBER-OPTIC NETWORK.

Fiber-optic communications from remote traffic signals to a central control system allows the maintaining agency to respond more readily to congestion. Fiber-optic communications allows video observations of an intersection and for county staff to modify traffic signal timings or for emergency-response vehicles to respond more quickly and better-equipped to incidents that cause congestion. At the end of 2015, there were 1,175 traffic signals in Palm Beach County, 952 of them (81 percent) were connected to the County or City traffic control centers by fiber-optic communication lines. To achieve the goal of 85 percent connected by 2025, an additional 47 signals need to be connected.

1.3 INCREASE THE PERCENTAGE OF PRINCIPAL ARTERIALS COVERED BY CLOSED-CIRCUIT TV CAMERAS

The purpose of being able to monitor traffic flow through closed-circuit television (CCTV) is to be able to identify the specific cause of non-recurring congestion and allow corrective measures to be implemented from the remote traffic control center, or for emergency-response to be deployed more quickly with a better understanding of the cause of the congestion. At the end of 2015, 229 of the 416 centerline miles (55 percent) of major roads in Palm Beach County were monitored via 141 CCTV's. At this rate of coverage, an additional 26 cameras need to be installed to meet the 2025 goal of 270 miles (65 percent) coverage.

Mitigation Strategy

To address measures 1.2 and 1.3, an update to Palm Beach County's Intelligent Transportation Systems Master Plan should be undertaken to establish the next logical expansion of the Adaptive Traffic Management System (ATMS).

1.4 INCREASE THE PERCENTAGE OF TRAFFIC SIGNALS WITH OPERABLE VEHICLE DETECTION

Vehicle detection at traffic signals enable a signal controller to reduce congestion by responding to varying traffic volumes on each movement. Detectors are most commonly wire loops cut into the pavement, video cameras, or infrared heat detectors, and the traffic signal controller must have the capability of accepting their communications.

Some traffic signals in Palm Beach County and its municipalities are not capable of having vehicle detection due to “legacy” equipment, and others do not have working detection as a result of inadequate maintenance capability. In Palm Beach County, the number of intersections having non-functioning detection due to maintenance issues is 158 (13%). Additional capital funding to modernize traffic signals and additional maintenance funding to improve agency ability to respond to broken or non-functioning equipment is needed.

Mitigation Strategy

The MPO currently has a Local Initiative prioritized project with design funding in the TIP in year 2018. Once construction funds are programmed, this project will move the MPO closer to achieving its target.

1.5 INCREASE THE PERCENTAGE OF FACILITIES THAT ACCOMMODATE TWO FEET SEA LEVEL RISE:

- › FOR THE STRATEGIC INTERMODAL SYSTEM (SIS) NETWORK
- › FOR THE NON-SIS THOROUGHFARE NETWORK

Global warming threatens to flood the road network in coastal areas. The effects of sea-level rise on transportation facilities have been estimated by the Southeast Florida Regional Climate Change Compact (“Climate Change Study”), and this analysis is used for this assessment. A two-foot rise in sea level has been estimated by the Climate Change Study to submerge 1.42 miles of major roadway in Palm Beach County, as follows:

ROAD SEGMENT	JURISDICTION
S Ocean Blvd/SR-A1A from Lantana-Manalapan border to E Ocean Ave	Florida DOT
Bradley Place from Flagler Memorial Bridge to Dunbar Rd	City of Palm Beach
Flagler Dr from 7th St to 9th St	City of Palm Beach/ Palm Beach County
Flagler Dr from LA Kirksey St to Lakeside Ct	City of Palm Beach/ Palm Beach County
Cocoanut Row from Worth Ave to Brazilian Ave	City of Palm Beach

No SIS facilities are compromised.

Currently, none of these potentially affected roads are scheduled for improvement in the cost-feasible LRTP, so to reduce the number of “at-risk” miles of road, additional funds must be allocated for this purpose.

Solutions proposed in the Climate Change Study to eliminate the flooding risk include either raising the elevation of the road, or building a dike system.

Mitigation Strategy

In regard to the identified road segments the MPO suggests each responsible agency incorporate an engineering solution which will accomodate a two-foot sea level rise.

2. PUBLIC TRANSPORTATION MEASURES

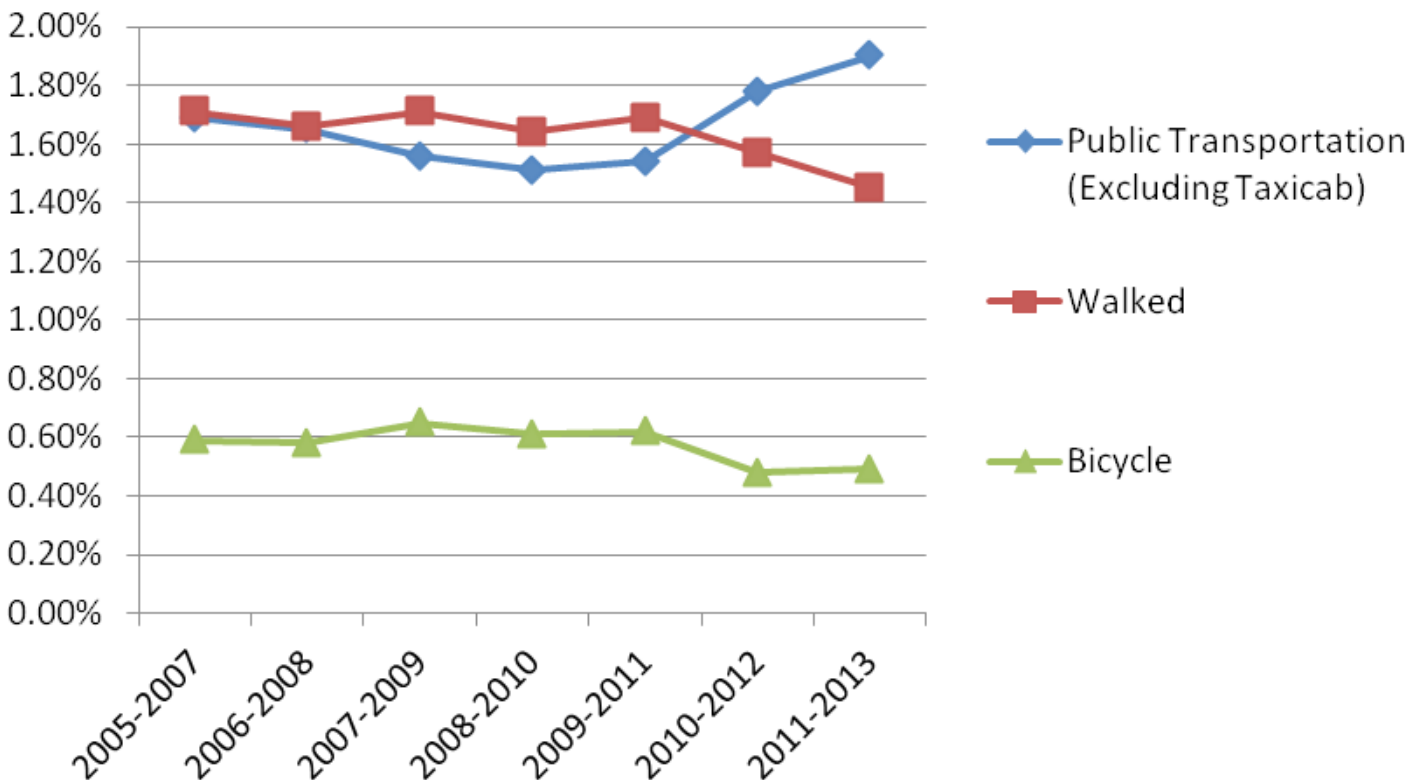
2.1 INCREASE THE PERCENTAGE OF TRANSIT COMMUTER MODE-CHOICE.

Public transit ridership, as a percentage of commute trips, is used as the primary measure for this objective. This percentage is monitored by the American Community Survey (<http://www.census.gov/programs-surveys/acs/about.html>), which is a continuously on-going survey effort undertaken by the U.S. Census Bureau. The three-year average value is used for this measure. Figure 09 shows the mode share of work trips made by public transit (blue), walking (red), and bicycle (green) in Palm Beach County from the 3-year data from the 2015-2013 American Community Survey (ACS), Table B08301. Data from 2013 (reported in 2015) indicates an increase in transit usage of 1.9 percent, up from 1.5 percent in 2010.

Transit is most effective at serving the work trip, and the increase in transit ridership is likely attributed to continuing maturation of the Tri-Rail system. With continued coordination between Palm Tran bus service and the Tri-Rail system, and encouragement of higher-density land uses in the vicinity of Tri-Rail stations, will encourage more utilization of public transportation services.

Similarly to measure 2.1, increasing the passenger trips per revenue-mile is a matter of making transit service more competitive with the alternatives. The competition includes cost, travel time, convenience, comfort, and safety in all phases of the transit trip – from the front door to the transit stop/station, parking, the environment for waiting for a transit vehicle at the stop/station, the “line-haul”, and the travel from the destination stop/station to the final destination. All of these elements are considered in periodic updates to the Transit Development Plan. Improving frequency and coverage of service, land use shifts, improved convenience, more competitive travel times, and managing

FIGURE 09 **PALM BEACH COUNTY COMMUTE MODE CHOICE**



Source: U.S. Census. 2015. American Community Survey. 3 Year Data : 2005-2013 Means of Transportation to Work (Table B08301)

parking at the destination-end of the transit trip are common strategies for increasing the attractiveness of transit travel. Other social factors, such as increasing costs of operating personal vehicles, over which agencies have little control, also influence transit ridership.

Plans are in progress for developing the Tri-Rail “Coastal Link”, a second major north-south commuter rail corridor in southeast Florida, with goals of service initiation prior to 2025. Projects that are currently underway to make transit usage more convenient and competitive include transit signal priority and implementing a universal fare card system.

The currently adopted LRTP for Palm Beach County proposes improvements to the bus system network involving increasing geographic coverage, increasing the frequency of service, and improving the quality of service through coordination between Tri-Rail and Palm Tran.

Mitigation Strategy

Fund identified LRTP and TDP projects.

2.2 INCREASE PASSENGER TRIPS PER REVENUE MILE:

- FOR TRI-RAIL SERVICE
- FOR PALMTRAN FIXED ROUTE SERVICE

Increased ridership per revenue mile is a second measure indicative of public transportation use. This measure differs from the mode-choice measure above because it relates to economic efficiency. Fleet-miles and ridership are reported annually to the Federal Transit Administration (FTA) by each local transit agency. The measure is calculated from reported data as the Unlinked Passenger Trips / Total Actual Revenue Miles. The Tri-Rail system reports 1.29 passenger trips per revenue-mile, and Palm Tran 1.56.

Mitigation Strategy

Funding TDP recommendations and system enhancements.

2.3 INCREASE THE NUMBER OF PARK-N-RIDE SPACES

Park-n-ride spaces improve the convenience of transit travel and car-pooling, making it more convenient for commuters to drive a car or bike to a transit stop/station, park, then ride a bus or train. Since public transportation stops and stations are the primary location for park-n-ride lots, and since transit funding inevitably involves federal and state funding, the inventory of park-n-ride spaces maintained by the Florida DOT’s district public transportation office is drawn upon for this report. The current inventory of spaces is 2,014. Table 06 summarizes the current inventory of park-n-ride facilities in Palm Beach County.

Park-n-ride lots are developed as a part of the public transportation system, and funding for park-n-ride spaces is included in the cost-feasible plan. Transit Development Plans (TDP’s) are in progress for both PalmTran and SFRTA, and these studies will identify the need for and location of additional park-n-ride facilities.

Mitigation Strategy

Fund future TDP recommended Park-n-ride lots.

TABLE 06 PALM BEACH COUNTY 2015 PARK-N-RIDE INVENTORY

Site ID	Page Number	Facility Name	2015 Spring Inventory		
			Park-and-Ride Spaces	Occupied Spaces	Percent Occupied
PALM BEACH COUNTY					
10	51	Boca Raton Tri-Rail Station	172	90	52%
11	56	Congress Avenue Park-and-Ride	100	0	0%
12	61	Delray Beach Tri-Rail/Amtrak Station	129	120	93%
13	66	Boynton Beach Tri-Rail Station	336	191	57%
14	71	Lake Worth Tri-Rail Station	318	162	51%
15	76	Lake Worth Road and Turnpike Mile Post 93 Park-and-Ride	76	33	43%
16	81	West Palm Beach Tri-Rail/Amtrak Station	280	151	54%
17	86	Magnolia Park Tri-Rail Station	273	149	55%
18	91	PGA Boulevard Turnpike Mile Post 109 park-and-Ride	44	12	27%
19	96	Indiantown Road and Turnpike Mile Post 116 Park-and-Ride	38	20	53%
24	121	West Palm Beach Park-and-Ride	46	8	17%
27	136	Wellington Park-and-Ride	138	2	1%
30	151	Oakton Commons Park-and-Ride	34	17	50%
31	156	Indiantown Road and Central Boulevard Park-and-Ride	30	9	30%
PALM BEACH COUNTY TOTALS			2,014	964	48%

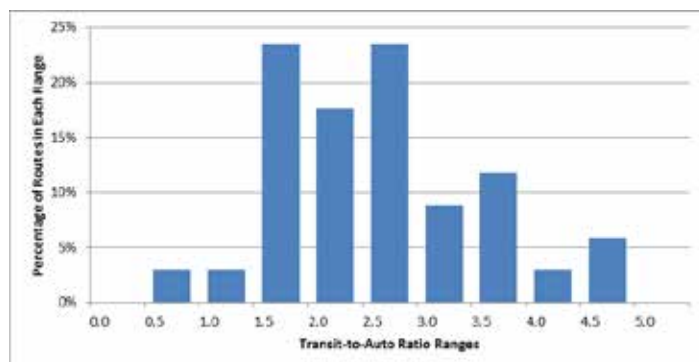
2.4 REDUCE THE AVERAGE RATIO OF TRANSIT TRAVEL TIME TO AUTO TRAVEL TIME FOR PALMTRAN FIXED ROUTE SYSTEM

This measure compares the competitiveness of public transportation with the privately owned vehicle. To make transit an attractive alternative to the private auto and encourage motorists to switch to transit for their commutes, the Palm Beach MPO has set goals to reduce the ratio of transit-to-auto travel time to 2.50 by 2025 and to 2.00 by 2040.

This measure compares the travel time from one end of a transit route to the route end, as measured by the bus schedule (for buses) to the travel time during the a.m. and p.m. peak period as determined using Google Map directions (for autos).

During the PM peak period of a weekday in May 2016, the in-vehicle transit travel time across Palm Tran's routes is about 2.52 times the auto travel time. The distribution of ratios across routes shows that 29 percent of the bus routes are meeting the 2040 goal of 2.0 or less, and an additional 47 percent are meeting the 2025 goal of 2 or less. Figure 10 presents the distribution of transit-to-auto travel time ratios, and the individual route comparisons are provided in Appendix D.

FIGURE 10 DISTRIBUTION OF TRANSIT-TO-AUTO TRAVEL TIME RATIOS



To meet the 2025 goal (2.5), the average transit-to-auto travel time ratio must be reduced by only one percent. To achieve the 2040 goal (2.0), the ratio must be further reduced by twenty percent. The strategies summarized below seek to reduce transit travel time with minimal or no impact to automobile travel time.

Transit Network Optimization >> Optimizing the transit network can create substantial travel time and operating savings at a fraction of the cost of building new transit infrastructure. It can also set the stage for micro-level transit treatments that can further add to the efficiency of the network.

A common first step in transit network optimization is to simplify existing routes (National Association of City Transportation Officials, 2016):

- › Direct, simple routes are easy to use and save time compared with circuitous routes.
- › Transit routes that have evolved in a piecemeal fashion over decades can be simplified to create more frequent and direct service.
- › Reducing the number of turns, especially through complex intersections, eliminates a large source of transit delay.
- › Simplifying routes can create opportunities for other transit treatments, including exclusive lanes and transit signal priority.

Exclusive Lanes >> Giving transit vehicles exclusive lanes can significantly decrease transit travel times, but may impact automobile travel times on congested corridors. Transit lanes are a portion of the street designated by signs and markings for the preferential or exclusive use of transit vehicles, sometimes permitting limited use by other vehicles. Transit lanes are not physically separated from other traffic, unlike on-street transit-ways.

Transit Signal Priority (TSP) >> TSP is a general term for a set of operational improvements to reduce transit delay at traffic signals by holding green lights longer or shortening red lights. TSP may be implemented at individual intersections or across corridors or entire street systems.

Queue Jumps >> queue jumps enable transit vehicles to bypass long queues at signalized intersections. An intersection with a queue jump provides an additional travel lane, which can be transit-only or shared, on the approach to the signal.

Bus Bulb-Outs >> are curb extensions that allow buses to stop and board passengers without ever leaving the travel lane. Bus bulbs help buses move faster and more reliably by decreasing the amount of time lost when merging in and out of traffic.

Fare Pre-Payment >> Fare collection and boarding can be time consuming, accounting for half to a third of vehicle revenue time. Strategies that streamline fare collection and allow for multi-door boarding can dramatically speed up passenger boarding time, reducing dwell time and total run-time.

Mitigation Strategy

A TDP, in progress for PalmTran, will identify appropriate strategies to make bus transit service more efficient.

3. BICYCLE AND PEDESTRIAN MEASURES

3.1 INCREASE THE PERCENTAGE OF:

- › **PEDESTRIAN COMMUTER MODE CHOICE**
- › **BICYCLING COMMUTER MODE CHOICE**

As discussed under measure 2.1, the percentage of trips to work by mode, including bicycle and walking, is monitored by the American Community Survey (<http://www.census.gov/programs-surveys/acs/about.html>). The three-year average value is used for this measure. Figure 09 shows the mode share of work trips made by walking (red), and bicycle (green) in Palm Beach County from the 3-year data from the 2015-2013 American Community Survey (ACS), Table B08301.

Where walking and bicycling is a viable option for travel, making provision for these modes is the best action for further increases in mode-share. Walking trips typically are less than one mile, and rarely more than two, while bicycling trips are usually less than five miles and rarely more than ten. Thus, assigning priority to providing facilities, or bringing existing facilities to standards, at locations within these distances that have higher trip-end densities and higher potential for traffic conflicts would be appropriate.

Mitigation Strategy

Fund sidewalks and bicycle facilities through Transportation Alternatives (TA) and Local Initiative (LI) programs.

3.2 INCREASE CENTERLINE MILEAGE OF:

- › **BUFFERED BIKE LANES**
- › **10-FT OR WIDER SHARED USE PATHWAYS**
- › **DESIGNATED BIKE LANES**
- › **PRIORITY BIKE NETWORK OPERATING AT LOS C OR BETTER**

Providing suitable facilities for bicycle and pedestrian travel facilitates and encourages use of these modes. A bicycle facility master plan was undertaken by the Palm Beach MPO in 2010, and an inventory of bicycle facilities and the level of service provided by the bicycle facilities at that time was prepared. The database continues to be maintained by MPO staff, and was updated for this report to reflect roadway lane-addition improvements and 2015 AADT data. A goal of 725 miles of bicycle facilities by 2040 has been set, with 156 miles existing today. Thus, the needs are substantial. At an assumed cost of \$200,000 per mile, a funding commitment of \$113 million is needed over the coming 24 years, and a rate of construction of 24 miles per year.

Mitigation Strategy

Fund sidewalks and bicycle facilities through Transportation Alternatives (TA) and Local Initiative (LI) programs.

3.3 INCREASE PERCENTAGE OF THOROUGHFARE MILEAGE NEAR TRANSIT HUBS:

- › THAT PROVIDES DEDICATED BICYCLE FACILITIES (WITHIN 3 MILES)
- › THAT PROVIDES DEDICATED PEDESTRIAN FACILITIES (WITHIN 1 MILE)

This measure indicates the extent to which non-automobile travel is facilitated by providing safe and convenient access for walk and bike travel to public transportation hubs. Palm Beach County's thoroughfare network is dominated with auto-oriented design; however, because these corridors and hubs are the most economically active, they are often the best places to provide facilities which promote active transportation. The benefits of providing dedicated bicycle and pedestrian facilities include having a safer space to walk or ride in, perhaps illuminated, and are reasonably unaffected by puddles or flooding.

The transit hubs were identified by MPO staff and include Tri-Rail stations, bus transit transfer stations, and several shopping centers. Geographic Information System inventories of the existing bicycle facilities and sidewalks maintained by MPO staff were used for this analysis and the results indicate substantial needed facilities. The measures identify the proportion of major roads within the typical "trip-shed" for bicycle and pedestrian travel to the transit centers that have such facilities.

Within the 3-mile "catchment area" for dedicated bicycle facilities 126 miles of 418 miles (23%) of roadway do not have bike lanes, and within the 1-mile catchment area for sidewalks, there are 7 miles of 104 miles (7%) of roadways that do not have any sidewalks and an additional 20 miles (19%) that have sidewalks only on one side. 77 miles (74%) have sidewalks on both sides. These measures exclude freeway ramps and interstate facilities, which would not have such facilities. Maps in Appendices E and F, respectively, identify the locations where bicycle and pedestrian facilities are missing in the vicinity of transit hubs.

Mitigation Strategy

Fund sidewalks and bicycle facilities through Transportation Alternatives (TA) and Local Initiative (LI) programs.

4. FREIGHT MOVEMENT MEASURES

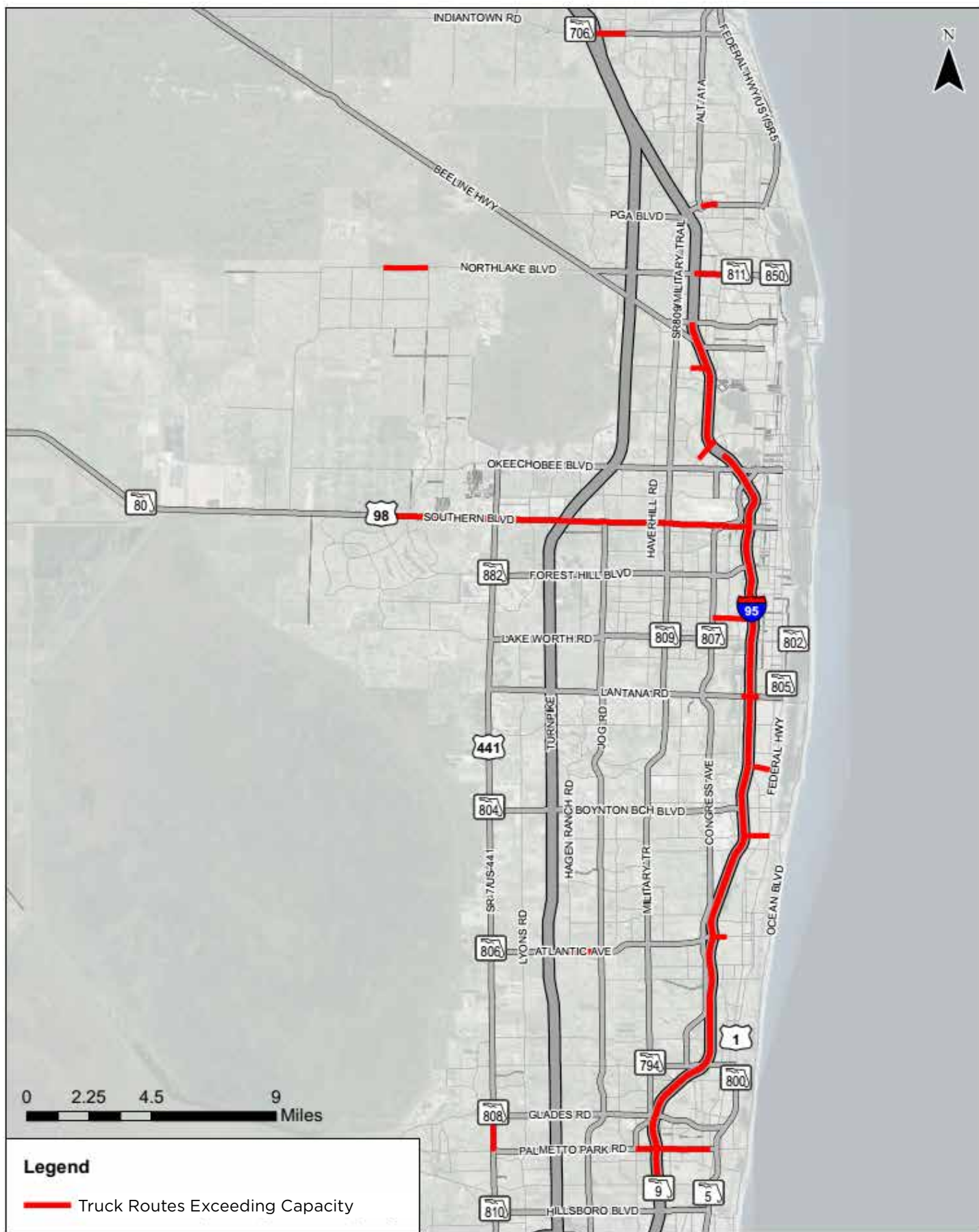
4.1 DECREASE THE PERCENTAGE OF SIS FACILITIES, SIS CONNECTORS, AND NON-SIS DESIGNATED TRUCK ROUTES THAT EXCEED CAPACITY ($V/C > 1.1$)

Trucks that move goods and materials are a critical component of economic vitality and cost-efficiency, so it is a good investment to minimize congestion on designated truck routes. The measure makes use of the traffic counts recorded annually by the Florida DOT and Palm Beach County on major roads and a roadway inventory database maintained by MPO staff that indicates number of lanes and capacity of the major roads. For this report, the number of lanes indicated in the inventory were updated to reflect recently improved roads (MPO website—"Recent Major Projects"), and the daily traffic volumes on roads were updated to 2015 values from Palm Beach County Traffic Engineering Division's "Counts4Web" database. Using a volume/capacity ratio of 1.1 identifies the more significantly congested roadways in the network. Figure 11 illustrates the locations of these truck route segments, totaling 17.3 miles.

Mitigation Strategy

A solution strategy would be to implement capacity-increasing improvements such as intersection lane additions or capacity increases where possible, and according higher priorities to such improvements that fall on the SIS and non-SIS truck routes.

FIGURE 11 **CONGESTED TRUCK ROUTE SEGMENTS**



4.2 INCREASE THE ANNUAL TONNAGE OF FREIGHT THROUGH

- › THE PORT OF PALM BEACH
- › PALM BEACH INTERNATIONAL AIRPORT

Annual tonnage of freight provides an indication of the utilization of the freight facilities and the importance of access to the airport and port. This data is reported monthly in publications of the Palm Beach County Department of Airports (“Traffic Report”) and Port of Palm Beach District (“Cumulative All Cargo Tonnage” report).

The Port of Palm Beach attracts approximately 1.96 million tonnage of freight into the county. Additionally, the Palm Beach International Airport brings in approximately 25,800 tons of freight into Palm Beach County.

Mitigation Strategy

While the MPO does not directly participate in attracting freight movement through Palm Beach County’s ports, the MPO can influence the identification and assignment of higher priorities to improvements to land-side access roads to minimize congestion, as discussed above in Section 4.1.

5. SOCIAL AND ENVIRONMENTAL RESOURCE MEASURES

5.1 DECREASE PER CAPITA DAILY FUEL USE (GALLONS/PERSON)

The State of Florida Department of Revenue collects information regarding the number of gallons of motor vehicle fuel sold in each county for the purposes of distributing motor fuel tax revenues. In addition, the Florida Bureau of Economic and Business Research annually publishes County population estimates. These two sources of data are combined to create this measure. Table 07 summarizes fuel use per capita in Palm Beach County since the 1981, and shows increases in the ‘80’s, ‘90’s, and early 2000’s, then decreases during the “great recession” of 2008 through 2014, and has recently shown an increase in 2015.

Mitigation Strategy

Methods to decrease fuel consumption per capita would include:

- › Continue to improve service provided by alternative modes
- › Support CAFÉ standards and alternative energy vehicles (electric/hydrogen)
- › Improve mix of land uses to bring homes and needs/employment closer (density and diversity of land uses)
- › Reduce congestion/delay/idle-time through intersection, roadway, and ITS/signal timing improvements

TABLE 07

HISTORICAL FUEL USE

Year	Population	Daily Gallons Motor Fuel + Diesel	Gallons/ Capital/ Day	Fleet Fuel Efficiency (mpg)	Estimated Dailt VMT	VMT/ Capital/ Day
1981	618,370	734,256	1.187	14.53	10,668,736	17.3
1986	753,724	886,215	1.176	14.29	12,664,014	16.8
1991	887,893	1,183,332	1.333	17.15	20,294,359	21.7
2001	1,156,550	1,458,168	1.261	19.34	28,200,976	24.4
2006	1,291,426	1,743,233	1.350	19.90	34,690,332	26.9
2007	1,302,451	1,704,616	1.309	20.51	34,961,665	26.8
2008	1,307,784	1,631,692	1.248	20.96	34,200,263	26.2
2009	1,312,016	1,572,630	1.199	20.69	32,537,710	24.8
2010	1,320,134	1,568,190	1.188	21.03	32,979,029	25.0
2011	1,325,758	1,571,356	1.185	20.71	32,542,776	24.5
2012	1,335,415	1,579,429	1.183	20.70	32,694,183	24.5
2013	1,345,652	1,582,012	1.176	20.57	32,541,990	24.2
2014	1,360,238	1,629,694	1.198	20.36	33,172,466	24.4
2015	1,378,417	1,703,591	1.236	20.70	35,264,337	25.6

Sources: Florida Office of Economic and Demographic Research, Florida Department of Revenue, and Federal Highway Administration

http://edr.state.fl.us/Content/population-demographics/data/CountyPopulation_2015.pdf
<http://dor.myflorida.com/taxes/pages/distributions.aspx>
<http://www.fhwa.dot.gov/policyinformation/index.cfm>
<http://google.com/publicdata/explore?ds=gb66iodhisaab>

Estimated value, data not yet available.

Most of the above strategies involving enhancement of alternative mode systems are discussed in the sections above regarding those alternative modes. Not specifically addressed are: providing electric vehicle recharging features to strengthen public perception that electric vehicles are here to stay, encouraging shorter trip lengths by advocating for land development regulations that promote and incentivize more dense urban forms of development, such as geographically varied impact fees and easier development approvals in core areas.

Some improvements to make the transportation system more fuel-efficient by reducing congestion fall within the MPO's influence; however, current funding levels suggest increased roadway congestion is inevitable. A balance must be found between funding roadway improvements and improvements to alternative modes of transportation.

5.2 DECREASE PER CAPITA DAILY NOX EMISSIONS (GRAMS/PERSON)**5.3 DECREASE PER CAPITA DAILY HYDROCARBON EMISSIONS (GRAMS/PERSON)****5.4 DECREASE PER CAPITA DAILY CARBON MONOXIDE EMISSIONS (GRAMS/PERSON)**

Oxides of nitrogen and hydrocarbons are precursors to the formation of Ozone in the atmosphere. Carbon monoxide is unhealthy for humans. These are common emissions of the internal combustion engine, and are more cost-effectively managed through engine technology and vehicle design, rather than through implementation of transportation system improvements. That said, increased levels of congestion do contribute to unnecessary fuel consumption and thus increased emissions.

The measures adopted by the MPO are generated by the computer models used by the MPO for urban transportation systems planning, and thus the measures are based on planning assumptions and theoretical models. The MPO desires to move toward direct measurement of air quality conditions, such as making use of air quality monitoring stations maintained by Palm Beach County and reported on the Florida Department of Environmental Protection monitors for oxides of nitrogen and ozone concentrations. One such station is located in Lantana Nature Preserve. Standard reports include the top ten days of ozone concentrations, and oxides of nitrogen concentrations each year. A specific measure that could be used is the computation of the fourth-highest 8-hour average reading for the past three years. If this value exceeds 75 parts per billion (ppb), the Federal standard would be exceeded, triggering mandatory actions to improve air quality. The current three-year average is not available, as the station did not measure ozone concentrations in 2014 or 2013. The 2015 value was 62 ppb.

Mitigation Strategy

Research capital funding of air quality stations in Palm Beach County; reduce VMT and promote alternatives modes of transportation.

5.5 DECREASE PER CAPITA DAILY VEHICLE MILES TRAVELLED (VMT/PERSON)

The fuel consumption per capita measure from measure 5.1 was multiplied by the average fleet fuel efficiency (miles per gallon), obtaining fleet fuel efficiency measures from the Federal Highway Administration. Historical data of this measure is also summarized in Table 07, and indicates that travel per capita increased in the late 20th century, but remained relatively stable during the “great recession” of the early 21st century. Of interest to note also is that fleet fuel efficiency improved in the late 20th century, but has not significantly improved in the early 21st. New corporate average fuel economy standards and the introduction of electric vehicles into the fleet should cause this number to increase in upcoming years.

Mitigation Strategy

Three strategic options to reduce motor fuel consumption that can be funded by MPO programs are:

- › Shift travel to alternate modes by improving the quality of service provided for those modes.
- › Shorten necessary trips by promoting higher densities and diversity of land uses,
- › Reduce the need for trip-making through improved communications and goods and service delivery technologies.

SECTION 5: EVALUATION OF ALTERNATIVE SOLUTIONS

The next step, and perhaps the most challenging step in terms of project advancement, is the evaluation of potential solutions. These solutions include capital investments, operational improvements, and policy initiatives aimed toward demand management. Further, adequate funding is not available to address all needs, so a procedure that balances the allocation of resources to needs and chooses the set of improvements that best supports the goals of the community is needed.

The Palm Beach MPO created a Priority Scoring Procedure to allocate funding for the Local Initiatives funding program that reflects the 10 values presented earlier in Section 3. Table 08 shows the point distribution (100 point scale) of the 10 Values, or categories, and is based on a number of criteria that are specific, measurable, agreed-upon, realistic, and time-bound (SMART). This scoring procedure was established collaboratively by MPO staff and the advisory committees and is able to be modified on an annual basis before the MPO's application cycle begins..

TABLE 08

PALM BEACH MPO 2015 LOCAL INITIATIVES PROJECTS SCORING CRITERIA

L RTP ID	L RTP Category	Crietria	Value	Scoring	Max
1&6	Safety, Security and Complete Streets	Project improves non-motorized safety by providing:	buffered bike lanes - 4*	8	15
			10'+ shared-use pathways - 3*	5	
			designated bike lanes - 2*	4	
			new sidewalks - 1*	2	
		Project improves safety and convenience for users (project must demonstrate)		5	5
		Project improves performance of hurricane evacuation route		3	
Project mitigates impacts of sea level rise		2			
2	Maintenance	Project improves infrastructure in unacceptable condition with widespread advanced signs of deterioration; potential imminent failure		7	10
		Project improves infrastructure in poor condition and mostly below standard, approaching the end of its service life, exhibiting significant deterioration and of strong risk of failure		5	
		Project improves non-motorized and/or transit infrastructure or improves transit service level		3	
3	TSM&O / TDM	Non-capacity project implements TSM strategies		7	10
		Non-capacity project implements TDM strategies		3	
		Capacity project improves Thoroughfare intersection(s) where critical sum > 1400		5	
		Capacity project expands fiber optic traffic signal network		3	
		Capacity project expands CCTV camera coverage area on principal arterials		2	
4	Maximize MPO Funds	Local Implementation via Local Area Participation(LAP) Agreement or FTA Flex		5	5
		FDOT Implementation on State Highway System with Local Funding for design		3	
		FDOT Implementation with Local Funding for design		1	
5	Equity	Median HH income within 1 mile of project vs PBC median income (\$52,806)	<60%	10	10
			60 - <80%	7	
			80% - <100%	3	
		Traditionally underserved population percentage within 1 mile of project	>80%	5	5
			>60 - 80%	4	
			>40% - 60%	3	
			>20% - 40%	2	
			5-20%	1	
7a	Local Support	Project is endorsed by members of benefit area (HOA, POA, petition, etc.)		5	10
7b	Environmental	Project will have positive environmental impacts (project must demonstrate)		5	
8	Regional Freight	Project improves capacity on congested SIS facility/connector or non-SIS truck route	v/c > 1.2	5	5
			v/c > 1.1	3	
			v/c > 1	2	
		Project improves efficient movement of freight in region		5	5
9	Non-motorized Connectors	Project improves non-motorized facilities at an interchange, bridge, or railroad crossing		6	10
		Project improves non-motorized connectivity to facilities on PBC Thoroughfare Map within 2 miles of a transit hub		4	
10	Efficient Transit	Project improves service at a transit hub		6	10
		Project reduces transit travel time between transit hubs		4	
					100

Note: Non-motorized Point System

*Multiply length (up to 2 miles) by factor shown in value column

SECTION 6: IMPLEMENTATION

After evaluating all proposed transportation improvement projects and assigning each a respective score that reflects the 10 Values of the MPO, the projects are ranked and listed in order of priority. The list of priority projects are broken into three categories based on scale and implementation cost: Major Highway, Transit and Freight Projects, the Local Initiatives Program (for non-regionally significant projects), and the Transportation Alternatives Program for smaller non-motorized projects. These lists act as a vehicle for guiding the MPO staff and Board in terms of which areas in the network require significant attention. Flexibility in the selection process allows for any unforeseen engineering, right-of-way, construction, environmental, or stakeholder conflicts. These three lists are compiled into one Priority Projects document and submitted to the Florida Department of Transportation (FDOT) for funding in the Five-Year Draft Tentative Work Program. The MPO and FDOT collaboratively work together to include as many projects as possible into the final Work Program given the funding availability and project constraints.

The higher-ranking, financially feasible projects are then included in the MPO's 5-year Transportation Improvement Program (TIP). This process is repeated on an annual basis and is the platform through which congestion management solutions are fully evaluated and implemented.

SECTION 7: FEEDBACK

Feedback is the direct act of taking output produced from a sequential process, such as the CMP, and reverting back to the initial step of the procedure to ensure consistency (or convergence). If the output does not match the input, then the model is considered "inconsistent", and the process must therefore be repeated until convergence (or equilibrium) is achieved. This test for consistency adds an iterative feature to the overall CMP, resulting in a framework that is dynamic, as opposed to a static system. Recall, the initial step of the CMP was to establish a set of goals and objectives with respect to the region's transportation system, leading to a selected set of improvement projects that were formulized to meet the region's travel demand needs, and thus achieve the desired goals and objectives that were initially defined at the onset.

The final step of the CMP will be to feedback to the initial step of the process and ensure the goals and objectives of the Palm Beach MPO are in fact being achieved (and sustained over time). Feedback is achieved in the Congestion Management Process on a recurring three-year cycle of updates to the transportation system performance measures through the CMP. Table 04 lists the overall goals of the Palm Beach MPO's transportation planning efforts, including their associated objectives that are specific and measurable. The annual calculation of performance measures allows for measurement of progress toward the establish targets once projects selected from the list of priorities have been completely implemented. This feedback mechanism is a critical component of the CMP; the outcome will direct future policy refinements, updated target values, and/or funding decisions.

SECTION 8: CONCLUSIONS

The CMP has evolved from what was originally called the Congestion Management System to a more systematic, continuous process that includes a feedback mechanism for ensuring consistency between the established goals and objectives and the alternative improvement projects that are selected to meet the desired goals. The current version of the CMP can now be classified as an analytical process that takes a large problem of managing congestion and breaks it into smaller units that can be computationally evaluated and addressed.

Recall, the congestion management process comprises of the following eight steps:

1. Establish regional goals and objectives;
2. Define the study area boundary and CMP network;
3. Develop multimodal performance measures;
4. Collect the necessary data;
5. Analyze the data, calculate the performance measures, and identify areas in need of improvement;
6. Evaluate feasible solutions and/or improvements;
7. Implement the agreed-upon projects from the list of priorities; and
8. Feedback to Step 1 to ensure goals and objectives are being achieved (and sustained).

The project prioritization process described earlier in Section 6 includes a variety of transportation projects, including capital expansion, infrastructure reconstruction, increased service, and safety and operation improvements. The Palm Beach MPO's philosophy has adapted to today's planning climate where road widening projects are no longer the only viable solutions considered for addressing traffic congestion. Widening projects tend to carry the highest price tag given the amount of resources that are required to add a general purpose lane in each direction of travel, including right of way acquisition, engineering design, environmental studies, purchasing of materials, and final construction. These types of projects tend to be in reaction to an instantaneous increase in demand of a certain facility (say due to a recent development), as opposed to proactively shaping travel behavior and addressing demand before it exceeds capacity.

History has shown that investments in infrastructure expansion projects have not kept pace with user demand, population growth, or improvements in vehicle and operation control technologies. Investments in modes other than single-occupant-vehicle transport facilities on the other hand, such as public transit and bicycle and pedestrian infrastructure, will offer travelers other feasible alternatives of travel and will indirectly result in a positive impact on network travel times by removing vehicles from the traffic stream.

The CMP is a perfect example of the 3C process: Continuing, Comprehensive, and Cooperative. The 8-step framework is an on-going (Continuing) process that will be implemented on an annual basis as new traffic information is collected, especially with the assistance of emerging data retrieval technologies and monitoring systems. The management and evaluation of network congestion encompasses all modes of travel throughout the entire County (Comprehensive) with the assistance of numerous agencies, including all 39 municipalities, the county traffic division, the Florida Department of Transportation, and the Port of Palm Beach (Cooperative).

The end goal of the Congestion Management Process is to “take back” that capacity that is lost to congestion by bottlenecks, accidents, incidents, road construction, weather, and traffic control delay. According to the FHWA, non-recurring congestion (such as accidents) account for nearly 25% of travel time delay, which is currently being addressed by the Florida Department of Transportation through enhanced roadway safety measures and the creation of the Traffic Incident Management Program. Future work will look into further incorporating performance measures related to safety into the congestion management process, as well as additional measures with respect to freight and socioeconomic data. The Palm Beach MPO will also analyze the DOT’s definition of network “Reliability” and how this performance measure can be inserted into the next version of the CMP. Also, a newly formed committee called the TSM+O (Transportation Systems Management and Operations) subcommittee of SEFTC is another example of how the Southeast Florida MPOs are addressing congestion management practices from a regional perspective by bringing together traffic operations and transportation planning divisions.

Moving forward, the framework of the CMP will continue to be evaluated in order to identify areas of improvement. For example, as technology evolves (e.g., Intelligent Transportation Systems, or ITS) and transportation data becomes more readily accessible (e.g., telecommunications), the performance measures may be redefined in order to adapt to emerging state-of-the-art practices. Also, draft policies by the MPO are currently underway involving a comprehensive analysis of potential hazardous walking conditions to school, and guidelines on Complete Streets design and funding prioritization that can then be added to the CMP.

Following are the summarized Mitigation Strategies this report recommends.

MITIGATION STRATEGIES

1.1 REDUCE THE NUMBER OF THOROUGHFARE INTERSECTIONS WITH CRITICAL SUM > 1,400

Conceptual schematic diagrams of the 36 potential improvements and a summary of all 400 intersection capacity analyses are included in Appendix C. Upon review by local agency staff, those locations judged to be in greatest need of improvement should be advanced for further study to refine the solution and feasibility of improvement.

1.2 INCREASE THE PERCENTAGE OF TRAFFIC SIGNALS CONNECTED TO THE CENTRAL CONTROL SYSTEM BY FIBER-OPTIC NETWORK.

1.3 INCREASE THE PERCENTAGE OF PRINCIPAL ARTERIALS COVERED BY CLOSED-CIRCUIT TV CAMERAS

To address measures 1.2 and 1.3, an update to Palm Beach County’s Intelligent Transportation Systems Master Plan should be undertaken to establish the next logical expansion of the ATMS.

1.4 INCREASE THE PERCENTAGE OF TRAFFIC SIGNALS WITH OPERABLE VEHICLE DETECTION

The MPO currently has a Local Initiative prioritized project with design funding in the TIP in year 2018. Once construction funds are programmed, this project will move the MPO closer to achieving its target.

1.5 INCREASE THE PERCENTAGE OF FACILITIES THAT ACCOMMODATE TWO FEET SEA LEVEL RISE:

- › FOR THE SIS NETWORK
- › FOR THE NON-SIS THOROUGHFARE NETWORK

In regard to the identified road segments the MPO suggests each responsible agency incorporate an engineering solution which will accommodate a two-foot sea level rise.

2.1 INCREASE THE PERCENTAGE OF TRANSIT COMMUTER MODE-CHOICE.

Fund identified LRTP and TDP projects.

2.2 INCREASE PASSENGER TRIPS PER REVENUE MILE:

- › FOR TRI-RAIL SERVICE
- › FOR PALMTRAN FIXED ROUTE SERVICE

Funding TDP recommendations and system enhancements.

2.3 INCREASE THE NUMBER OF PARK-N-RIDE SPACES

Fund future TDP recommended Park-n-ride lots.

2.4 REDUCE THE AVERAGE RATIO OF TRANSIT TRAVEL TIME TO AUTO TRAVEL TIME FOR PALMTRAN FIXED ROUTE SYSTEM

A TDP, in progress for PalmTran, will identify appropriate strategies to make bus transit service more efficient.

3.1 INCREASE THE PERCENTAGE OF:

- › PEDESTRIAN COMMUTER MODE CHOICE
- › BICYCLING COMMUTER MODE CHOICE

Fund sidewalks and bicycle facilities through Transportation Alternatives (TA) and Local Initiative (LI) programs.

3.2 INCREASE CENTERLINE MILEAGE OF:

- › BUFFERED BIKE LANES
- › 10-FT OR WIDER SHARED USE PATHWAYS
- › DESIGNATED BIKE LANES
- › PRIORITY BIKE NETWORK OPERATING AT LOS C OR BETTER

Fund sidewalks and bicycle facilities through Transportation Alternatives (TA) and Local Initiative (LI) programs.

3.3 INCREASE PERCENTAGE OF THOROUGHFARE MILEAGE NEAR TRANSIT HUBS:

- › THAT PROVIDES DEDICATED BICYCLE FACILITIES (WITHIN 3 MILES)
- › THAT PROVIDES DEDICATED PEDESTRIAN FACILITIES (WITHIN 1 MILE)

Fund sidewalks and bicycle facilities through Transportation Alternatives (TA) and Local Initiative (LI) programs.

4.1 DECREASE THE PERCENTAGE OF SIS FACILITIES, SIS CONNECTORS, AND NON-SIS DESIGNATED TRUCK ROUTES THAT EXCEED CAPACITY (V/C > 1.1)

A solution strategy would be to implement capacity-increasing improvements such as intersection lane additions or capacity increases where possible, and according higher priorities to such improvements that fall on the SIS and non-SIS truck routes.

4.2 INCREASE THE ANNUAL TONNAGE OF FREIGHT THROUGH

- › **THE PORT OF PALM BEACH**
- › **PALM BEACH INTERNATIONAL AIRPORT**

While the MPO does not directly participate in attracting freight movement through Palm Beach County's ports, the MPO can influence the identification and assignment of higher priorities to improvements to land-side access roads to minimize congestion, as discussed above in Section 4.1.

5.1 DECREASE PER CAPITA DAILY FUEL USE (GALLONS/PERSON)

Methods to decrease fuel consumption per capita would include:

- › Continue to improve service provided by alternative modes
- › Support CAFÉ standards and alternative energy vehicles (electric/hydrogen)
- › Improve mix of land uses to bring homes and needs/employment closer (density and diversity of land uses)
- › Reduce congestion/delay/idle-time through intersection, roadway, and ITS/signal timing improvements

5.2 DECREASE PER CAPITA DAILY NOX EMISSIONS (GRAMS/PERSON)

5.3 DECREASE PER CAPITA DAILY HYDROCARBON EMISSIONS (GRAMS/PERSON)

5.4 DECREASE PER CAPITA DAILY CARBON MONOXIDE EMISSIONS (GRAMS/PERSON)

Research capital funding of air quality stations in Palm Beach County; reduce VMT and promote alternative modes of transportation.

5.5 DECREASE PER CAPITA DAILY VEHICLE MILES TRAVELLED (VMT/PERSON)

Three strategic options to reduce motor fuel consumption that can be funded by MPO programs are:

- › Shift travel to alternate modes by improving the quality of service provided for those modes.
- › Shorten necessary trips by promoting higher densities and diversity of land uses,
- › Reduce the need for trip-making through improved communications and goods and service delivery technologies.

APPENDICES

APPENDIX A

2010 FEDERAL FUNCTIONAL CLASSIFICATION MAP

2010 FEDERAL FUNCTIONAL CLASSIFICATION AND URBAN AREA BOUNDARIES MAP

PALM BEACH COUNTY

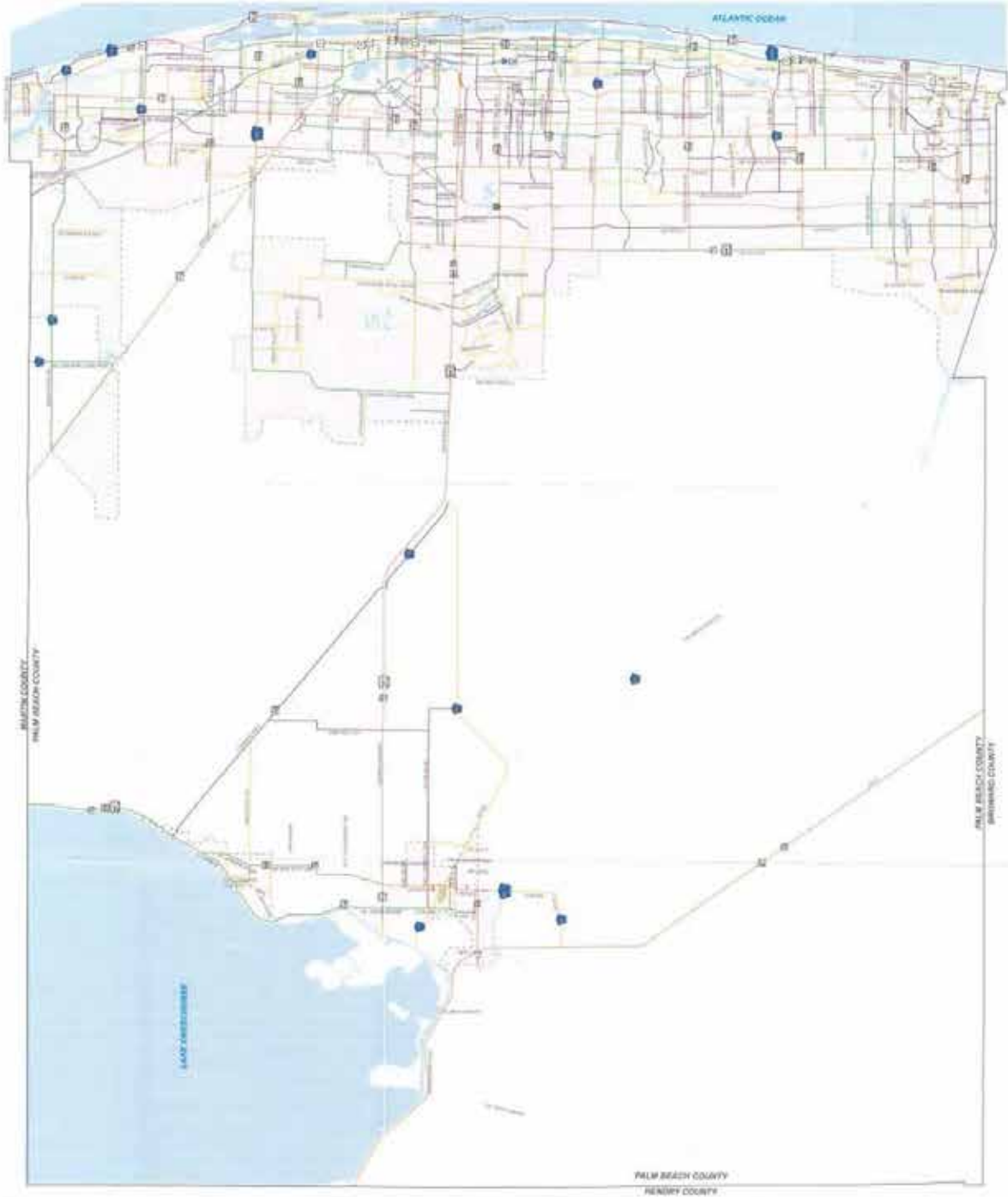
2010 Federal Highway Administration (FHWA)
 Adjusted Urban Area
 Also include adjacent towns, cities, and villages



- Principal Arterial (Bypass/Interchange)
- Interstate
- Other Freeways & Expressways
- Other Principal Arterial
- Minor Arterial (Bypass/Interchange)
- Minor Arterial (Frontage Road)
- Minor Arterial - Paved Road
- Collector (Bypass/Interchange)
- Minor Collector
- Local (Bypass/Interchange)
- Local
- 2010 FHWA Adjusted Urban Boundary
- County Boundaries



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APPENDIX B

INTERSECTION CAPACITY ANALYSIS

Intersection Capacity Analysis

Procedure

The *Critical Sum* is calculated as follows:

$$EB/WB = \text{maximum of } \left[\frac{(EB_{thru} + EB_{right})}{N_{lanes}} + \frac{(WB_{left})}{N_{lanes}} \right] \text{ or } \left[\frac{(WB_{thru} + WB_{right})}{N_{lanes}} + \frac{(EB_{left})}{N_{lanes}} \right] \quad (1)$$

$$NB/SB = \text{maximum of } \left[\frac{(NB_{thru} + NB_{right})}{N_{lanes}} + \frac{(SB_{left})}{N_{lanes}} \right] \text{ or } \left[\frac{(SB_{thru} + SB_{right})}{N_{lanes}} + \frac{(NB_{left})}{N_{lanes}} \right] \quad (2)$$

$$\textbf{Critical Sum} = \text{Max}[EB/WB] + \text{Max}[NB/SB] \quad (3)$$

Where;

EB = Eastbound direction of travel, *WB* = Westbound direction of travel,

NB = Northbound direction of travel, *SB* = Southbound direction of travel, &

N = Number of lanes in direction of travel

Steps to update countywide CMA Calculation

1	Copy latest Palm Beach County TurnCount.mdb Access database from N:\TRAFFIC\DATA SECTION\COUNTS (Note - database file may have a date in the name) to S:\DATA\Traffic Counts\[YEAR]
2	Open database and open query entitled "Current CMA" in design view
3	Update criteria for COUNT_YEAR field to only produce records for the most recent 3 years (e.g. for counts in 2013 thru 2015, criteria is ">2012")
4	Select all records and copy to the Excel spreadsheet named "Get Latest Turn Counts.xls" tab "TMC Data". This database may have duplicate counts for the same intersection for a given year, so you'll need to sort and select the latest count for each intersection, or average multiple counts if there is more than one count at a location. In addition, for intersection ID 43870, there are actually two intersections -- one on either side of the Florida Turnpike, so you'll need to assign a separate temporary ID to each location. To find the latest count year for each signal, we created a character string of the Signal ID plus the year of count on the TMC Data layer, copied this and sorted from high to low, then created a "0/1" flag that assigned a value of 1 if that record was the first of each unique ID (therefore having the highest year number) and zero if not. Be sure in this step that you get all of the rows of the imported data. Set the column with the "0/1" flag to values, and sort on the "0/1" flag from high to low and with Signal ID as the second level in the sort. Separate the signal ID and the year value out from the character string, and copy the ID and the year to columns Copy the unique Signal ID's to column B of the "Most Recent Only" tab, which then updates columns G through AL to retrieve the a.m. and p.m. peak hour TMC's. Note that this layer also gets the a.m. and p.m. peak hour TMC's onto the same row, and changes the nomenclature used in the TurnCount.mdb database of "NAL" (north approach left) to "SL" (southbound left).
5	Copy the range of a.m. and p.m. peak hour TMC's from the "Most Recent Only" layer and "Paste Special" <u>as values</u> into the Objective 1.1 Analysis.xls spreadsheet "TMC" layer.
6	Tab to the KAI CMS layer. This layer computes the Critical Sums and allows development of solutions. Intersections are ordered in alphabetical order, on the East-West then North-South street name convention to make them easier to find in printed reports. The layer pulls the appropriated TMC's into the appropriate row, then computes the a.m. and the p.m. critical movement sum. Note that signals having split-phases must be so-denoted in columns AY (for existing) and CD (for improved) conditions. If the east-west direction is split-phased code "S-EW", if north-south then "S-NS", and if both directions then "S-B".
7	Check to be sure existing intersection geometry in columns AM through AX is correct. The maximum of a.m. or p.m. critical sums are reported in column BJ.
8	You can use a filter at the top of column BJ to see only those intersections with CMS greater than 1,400.
9	You can add lanes to restore the critical sum to less than 1,400 in columns BR through CC. Note, these are the added lanes, the spreadsheet will total the existing lanes plus the lanes you indicate here.
10	The "SummaryKAI" layer provides a summary of the number of intersections at various levels of congestion and a weighted v:c ratio.
11	Confirm correct TMC's and lane geometry with County Traffic division. Correct in the County's Access database and this spreadsheet as needed.
12	For each intersection where CMS > 1400, review traffic count and calculated CMS against previous year values for the same time period (AM or PM) to confirm trend
13	If no trend exists, request Traffic Division to perform a new peak hour traffic count at the intersection to confirm
14	Update TMC's for any intersections where demand data was determined to be an anomaly
15	Report number of intersections in updated CMP report as new value for Objective 1.1
16	For each intersection where the CMS > 1400, filter the records and report Signal_ID, Location, Date, lane additions, and Adjusted_CS columns to new tab entitled "Potential Projects".
17	Check locations where CMS>1,400 against MPO LRTP Cost-Feasible Plan to see if an improvement is scheduled/planned that would cure the issue, and so denote on a summary table.
18	Create a column entitled "Potential operational improvements" and identify operational improvements that could be implemented to mitigate congestion (e.g. improved vehicle detection, installation of adaptive signal system, improved timing, etc.)

Segment ID	Interchange	1C	1D	1E	1F	1G	1H	1I	1J	1K	1L	1M	1N	1O	1P	1Q	1R	1S	1T	1U	1V	1W	1X	1Y	1Z	2A	2B	2C	2D	2E	2F	2G	2H	2I	2J	2K	2L	2M	2N	2O	2P	2Q	2R	2S	2T	2U	2V	2W	2X	2Y	2Z	3A	3B	3C	3D	3E	3F	3G	3H	3I	3J	3K	3L	3M	3N	3O	3P	3Q	3R	3S	3T	3U	3V	3W	3X	3Y	3Z	4A	4B	4C	4D	4E	4F	4G	4H	4I	4J	4K	4L	4M	4N	4O	4P	4Q	4R	4S	4T	4U	4V	4W	4X	4Y	4Z	5A	5B	5C	5D	5E	5F	5G	5H	5I	5J	5K	5L	5M	5N	5O	5P	5Q	5R	5S	5T	5U	5V	5W	5X	5Y	5Z	6A	6B	6C	6D	6E	6F	6G	6H	6I	6J	6K	6L	6M	6N	6O	6P	6Q	6R	6S	6T	6U	6V	6W	6X	6Y	6Z	7A	7B	7C	7D	7E	7F	7G	7H	7I	7J	7K	7L	7M	7N	7O	7P	7Q	7R	7S	7T	7U	7V	7W	7X	7Y	7Z	8A	8B	8C	8D	8E	8F	8G	8H	8I	8J	8K	8L	8M	8N	8O	8P	8Q	8R	8S	8T	8U	8V	8W	8X	8Y	8Z	9A	9B	9C	9D	9E	9F	9G	9H	9I	9J	9K	9L	9M	9N	9O	9P	9Q	9R	9S	9T	9U	9V	9W	9X	9Y	9Z	10A	10B	10C	10D	10E	10F	10G	10H	10I	10J	10K	10L	10M	10N	10O	10P	10Q	10R	10S	10T	10U	10V	10W	10X	10Y	10Z	11A	11B	11C	11D	11E	11F	11G	11H	11I	11J	11K	11L	11M	11N	11O	11P	11Q	11R	11S	11T	11U	11V	11W	11X	11Y	11Z	12A	12B	12C	12D	12E	12F	12G	12H	12I	12J	12K	12L	12M	12N	12O	12P	12Q	12R	12S	12T	12U	12V	12W	12X	12Y	12Z	13A	13B	13C	13D	13E	13F	13G	13H	13I	13J	13K	13L	13M	13N	13O	13P	13Q	13R	13S	13T	13U	13V	13W	13X	13Y	13Z	14A	14B	14C	14D	14E	14F	14G	14H	14I	14J	14K	14L	14M	14N	14O	14P	14Q	14R	14S	14T	14U	14V	14W	14X	14Y	14Z	15A	15B	15C	15D	15E	15F	15G	15H	15I	15J	15K	15L	15M	15N	15O	15P	15Q	15R	15S	15T	15U	15V	15W	15X	15Y	15Z	16A	16B	16C	16D	16E	16F	16G	16H	16I	16J	16K	16L	16M	16N	16O	16P	16Q	16R	16S	16T	16U	16V	16W	16X	16Y	16Z	17A	17B	17C	17D	17E	17F	17G	17H	17I	17J	17K	17L	17M	17N	17O	17P	17Q	17R	17S	17T	17U	17V	17W	17X	17Y	17Z	18A	18B	18C	18D	18E	18F	18G	18H	18I	18J	18K	18L	18M	18N	18O	18P	18Q	18R	18S	18T	18U	18V	18W	18X	18Y	18Z	19A	19B	19C	19D	19E	19F	19G	19H	19I	19J	19K	19L	19M	19N	19O	19P	19Q	19R	19S	19T	19U	19V	19W	19X	19Y	19Z	20A	20B	20C	20D	20E	20F	20G	20H	20I	20J	20K	20L	20M	20N	20O	20P	20Q	20R	20S	20T	20U	20V	20W	20X	20Y	20Z	21A	21B	21C	21D	21E	21F	21G	21H	21I	21J	21K	21L	21M	21N	21O	21P	21Q	21R	21S	21T	21U	21V	21W	21X	21Y	21Z	22A	22B	22C	22D	22E	22F	22G	22H	22I	22J	22K	22L	22M	22N	22O	22P	22Q	22R	22S	22T	22U	22V	22W	22X	22Y	22Z	23A	23B	23C	23D	23E	23F	23G	23H	23I	23J	23K	23L	23M	23N	23O	23P	23Q	23R	23S	23T	23U	23V	23W	23X	23Y	23Z	24A	24B	24C	24D	24E	24F	24G	24H	24I	24J	24K	24L	24M	24N	24O	24P	24Q	24R	24S	24T	24U	24V	24W	24X	24Y	24Z	25A	25B	25C	25D	25E	25F	25G	25H	25I	25J	25K	25L	25M	25N	25O	25P	25Q	25R	25S	25T	25U	25V	25W	25X	25Y	25Z	26A	26B	26C	26D	26E	26F	26G	26H	26I	26J	26K	26L	26M	26N	26O	26P	26Q	26R	26S	26T	26U	26V	26W	26X	26Y	26Z	27A	27B	27C	27D	27E	27F	27G	27H	27I	27J	27K	27L	27M	27N	27O	27P	27Q	27R	27S	27T	27U	27V	27W	27X	27Y	27Z	28A	28B	28C	28D	28E	28F	28G	28H	28I	28J	28K	28L	28M	28N	28O	28P	28Q	28R	28S	28T	28U	28V	28W	28X	28Y	28Z	29A	29B	29C	29D	29E	29F	29G	29H	29I	29J	29K	29L	29M	29N	29O	29P	29Q	29R	29S	29T	29U	29V	29W	29X	29Y	29Z	30A	30B	30C	30D	30E	30F	30G	30H	30I	30J	30K	30L	30M	30N	30O	30P	30Q	30R	30S	30T	30U	30V	30W	30X	30Y	30Z	31A	31B	31C	31D	31E	31F	31G	31H	31I	31J	31K	31L	31M	31N	31O	31P	31Q	31R	31S	31T	31U	31V	31W	31X	31Y	31Z	32A	32B	32C	32D	32E	32F	32G	32H	32I	32J	32K	32L	32M	32N	32O	32P	32Q	32R	32S	32T	32U	32V	32W	32X	32Y	32Z	33A	33B	33C	33D	33E	33F	33G	33H	33I	33J	33K	33L	33M	33N	33O	33P	33Q	33R	33S	33T	33U	33V	33W	33X	33Y	33Z	34A	34B	34C	34D	34E	34F	34G	34H	34I	34J	34K	34L	34M	34N	34O	34P	34Q	34R	34S	34T	34U	34V	34W	34X	34Y	34Z	35A	35B	35C	35D	35E	35F	35G	35H	35I	35J	35K	35L	35M	35N	35O	35P	35Q	35R	35S	35T	35U	35V	35W	35X	35Y	35Z	36A	36B	36C	36D	36E	36F	36G	36H	36I	36J	36K	36L	36M	36N	36O	36P	36Q	36R	36S	36T	36U	36V	36W	36X	36Y	36Z	37A	37B	37C	37D	37E	37F	37G	37H	37I	37J	37K	37L	37M	37N	37O	37P	37Q	37R	37S	37T	37U	37V	37W	37X	37Y	37Z	38A	38B	38C	38D	38E	38F	38G	38H	38I	38J	38K	38L	38M	38N	38O	38P	38Q	38R	38S	38T	38U	38V	38W	38X	38Y	38Z	39A	39B	39C	39D	39E	39F	39G	39H	39I	39J	39K	39L	39M	39N	39O	39P	39Q	39R	39S	39T	39U	39V	39W	39X	39Y	39Z	40A	40B	40C	40D	40E	40F	40G	40H	40I	40J	40K	40L	40M	40N	40O	40P	40Q	40R	40S	40T	40U	40V	40W	40X	40Y	40Z	41A	41B	41C	41D	41E	41F	41G	41H	41I	41J	41K	41L	41M	41N	41O	41P	41Q	41R	41S	41T	41U	41V	41W	41X	41Y	41Z	42A	42B	42C	42D	42E	42F	42G	42H	42I	42J	42K	42L	42M	42N	42O	42P	42Q	42R	42S	42T	42U	42V	42W	42X	42Y	42Z	43A	43B	43C	43D	43E	43F	43G	43H	43I	43J	43K	43L	43M	43N	43O	43P	43Q	43R	43S	43T	43U	43V	43W	43X	43Y	43Z	44A	44B	44C	44D	44E	44F	44G	44H	44I	44J	44K	44L	44M	44N	44O	44P	44Q	44R	44S	44T	44U	44V	44W	44X	44Y	44Z	45A	45B	45C	45D	45E	45F	45G	45H	45I	45J	45K	45L	45M	45N	45O	45P	45Q	45R	45S	45T	45U	45V	45W	45X	45Y	45Z	46A	46B	46C	46D	46E	46F	46G	46H	46I	46J	46K	46L	46M	46N	46O	46P	46Q	46R	46S	46T	46U	46V	46W	46X	46Y	46Z	47A	47B	47C	47D	47E	47F	47G	47H	47I	47J	47K	47L	47M	47N	47O	47P	47Q	47R	47S	47T	47U	47V	47W	47X	47Y	47Z	48A	48B	48C	48D	48E	48F	48G	48H	48I	48J	48K	48L	48M	48N	48O	48P	48Q	48R	48S	48T	48U	48V	48W	48X	48Y	48Z	49A	49B	49C	49D	49E	49F	49G	49H	49I	49J	49K	49L	49M	49N	49O	49P	49Q	49R	49S	49T	49U	49V	49W	49X	49Y	49Z	50A	50B	50C	50D	50E	50F	50G	50H	50I	50J	50K	50L	50M	50N	50O	50P	50Q	50R	50S	50T	50U	50V	50W	50X	50Y	50Z	51A	51B	51C	51D	51E	51F	5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Symbol	Company 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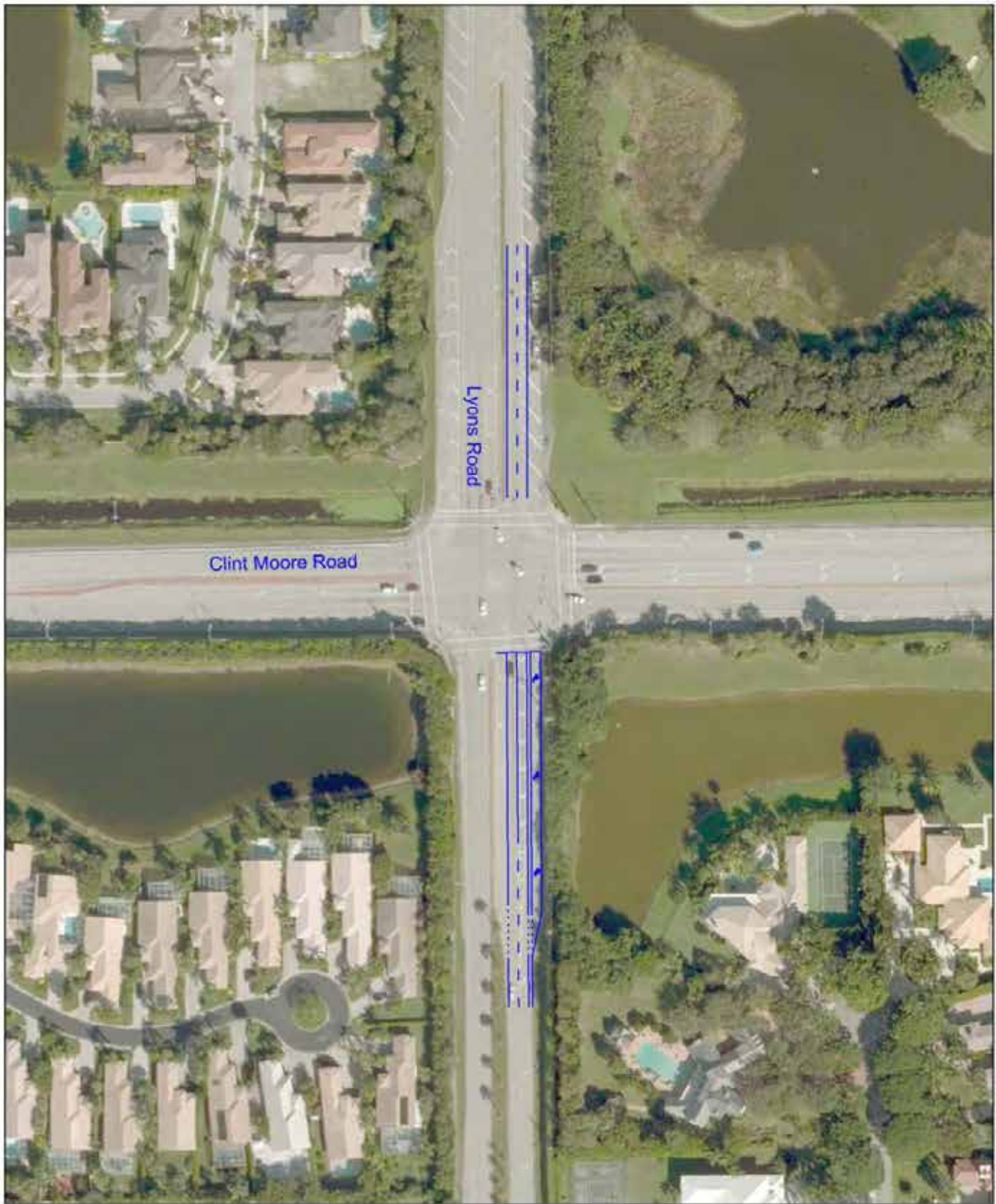
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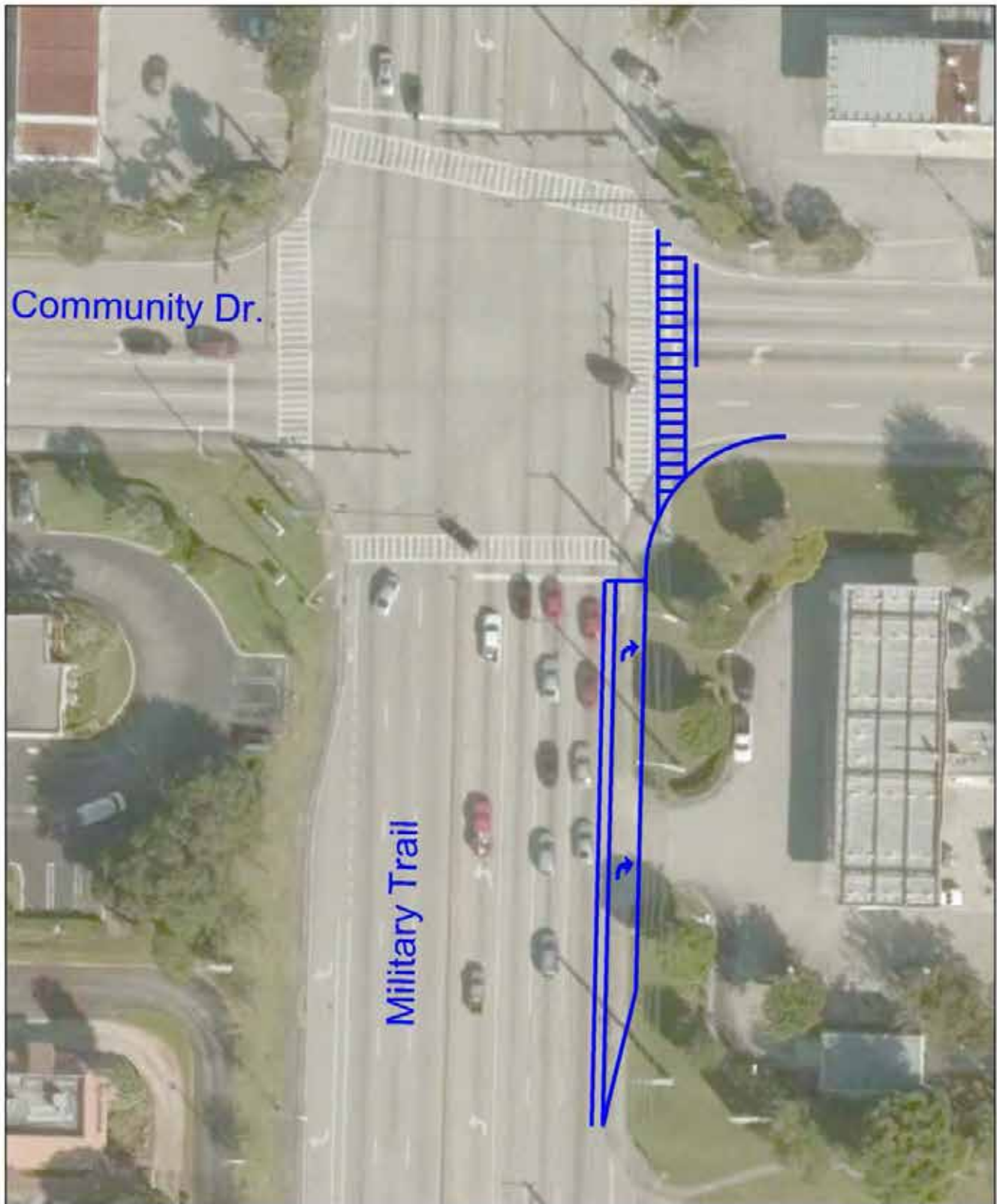
POTENTIAL INTERSECTION IMPROVEMENT SCHEMATIC ILLUSTRATIONS



SCALE
0 75 150

**58005 Clint Moore Rd @ Lyons Rd
Boca Raton, FL**

**FIGURE
01**

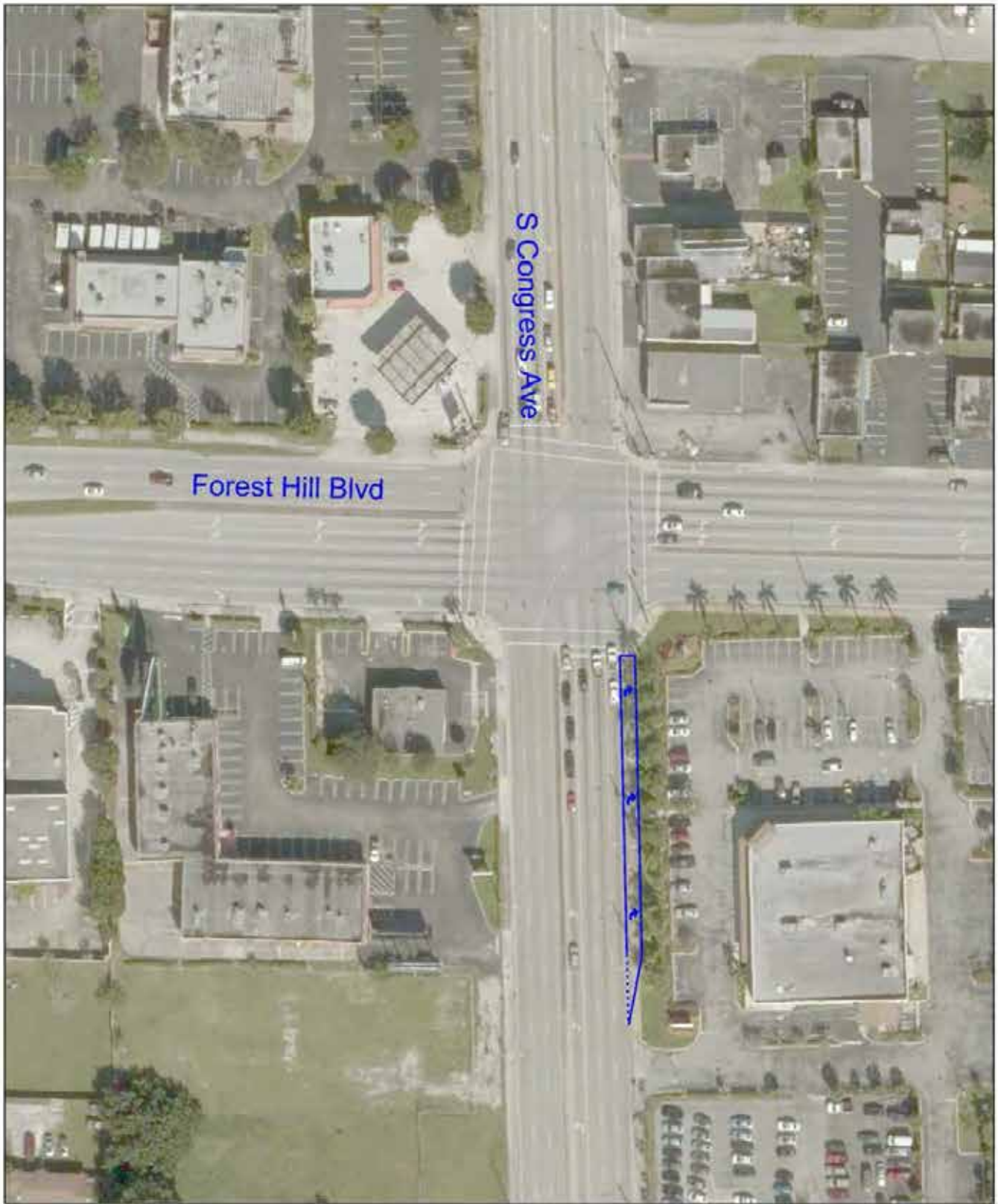


SCALE
0 25 50

**27127 Community Dr @ Military Tr
West Palm Beach, FL**

**FIGURE
02**

C:\AECAD\Drawings\AEC\Public\27127\27127 Community Dr @ Military Tr.dwg Jun 15, 2016 1:05pm jgony Layout Tools 2



SCALE
0 50 100

**33500 Forest Hill Bl @ Congress Ave
Palm Springs, FL**

**FIGURE
03**

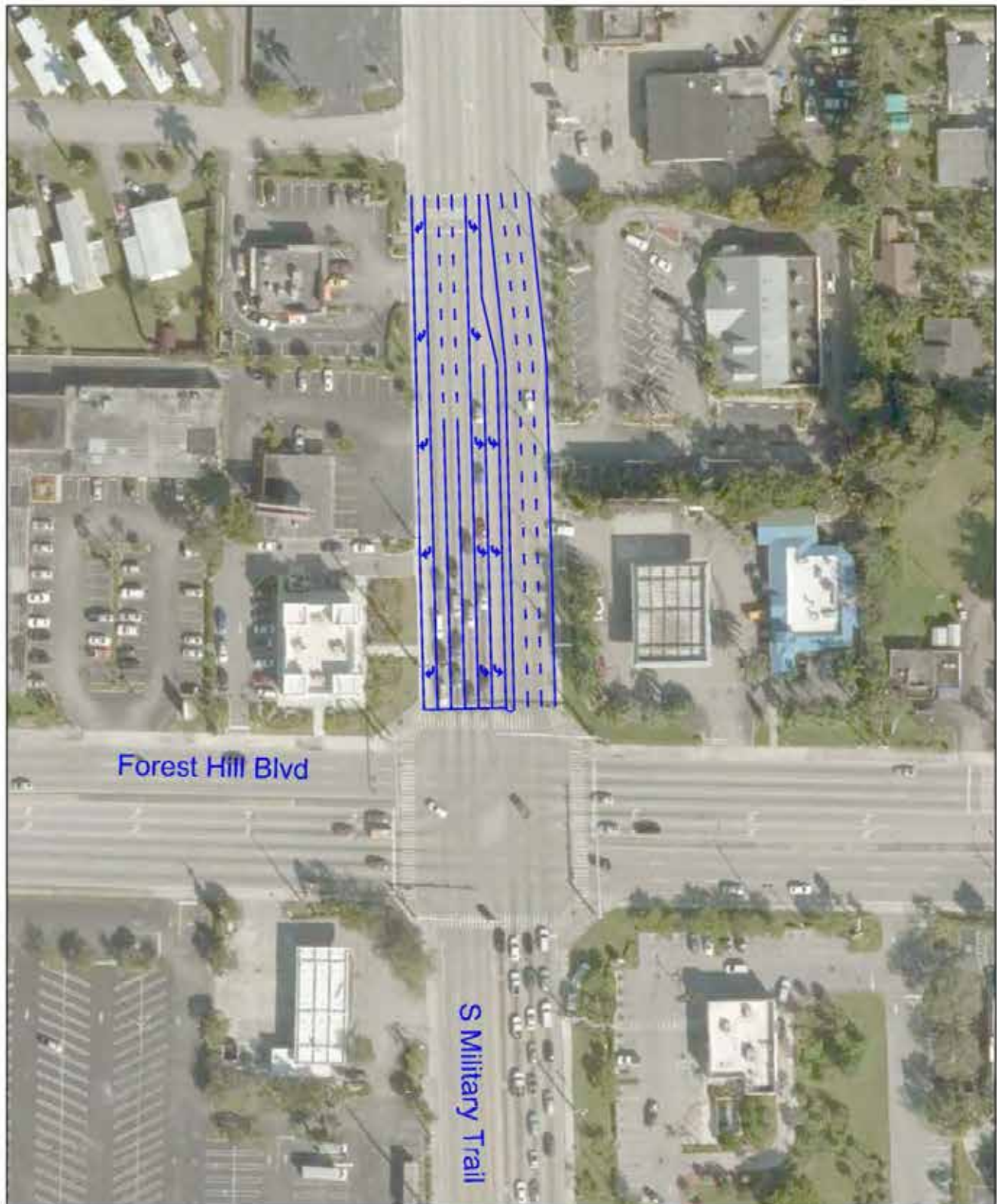


SCALE
0 75 150

**33405 Forest Hill Bl @ Lyons Rd
Wellington, FL**

**FIGURE
04**

C:\ACAD\Temp\AcPublish\11352\11352 Palm Beach MPO - Lower Addition - Concepts - JMS.dwg Jun 15, 2016 - 1:06pm - jsherry Layout Tab 4



Forest Hill Blvd

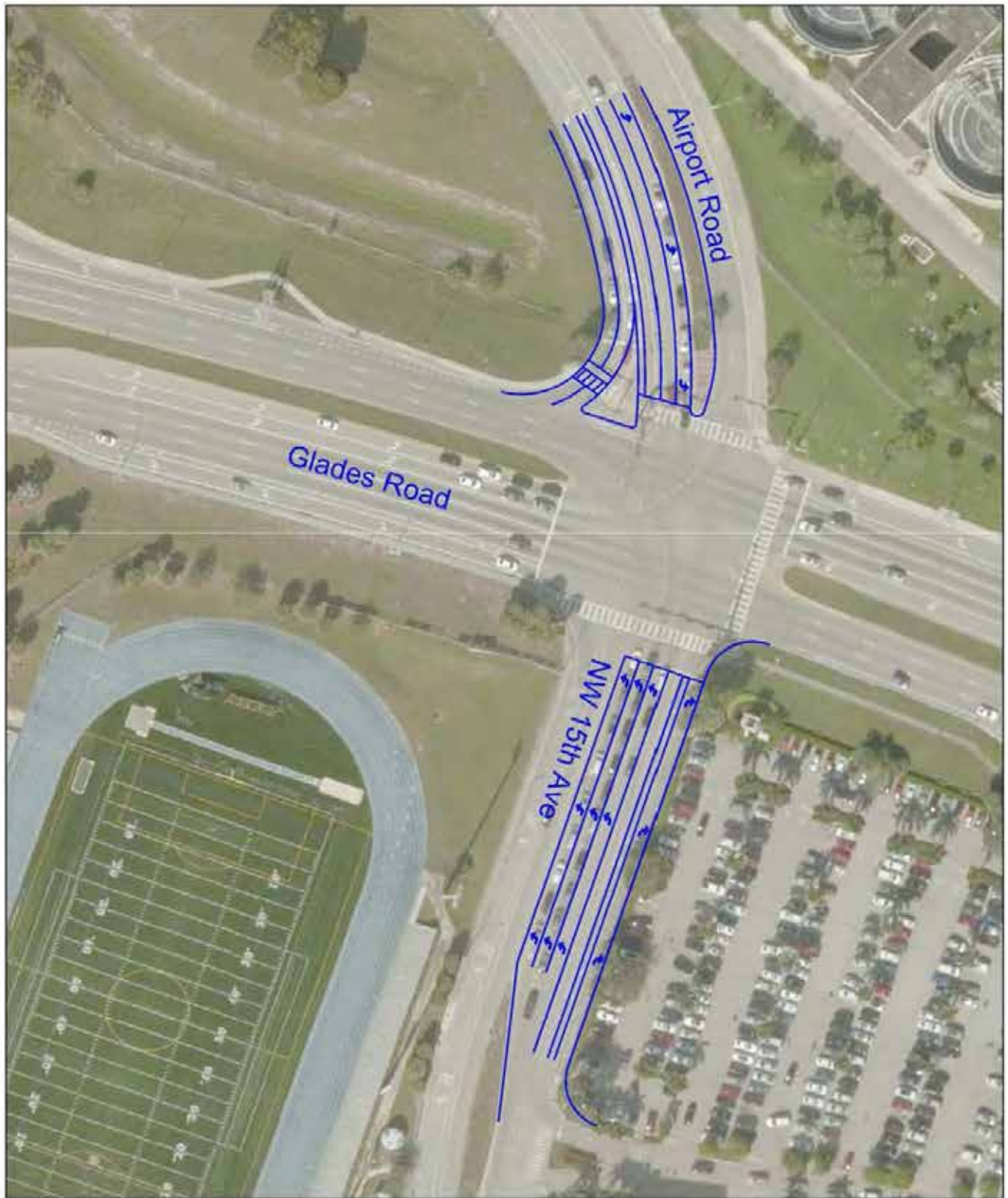
S Military Trail



SCALE
0 50 100

**33450 Forest Hill Bl @ Military Tr
West Palm Beach, FL**

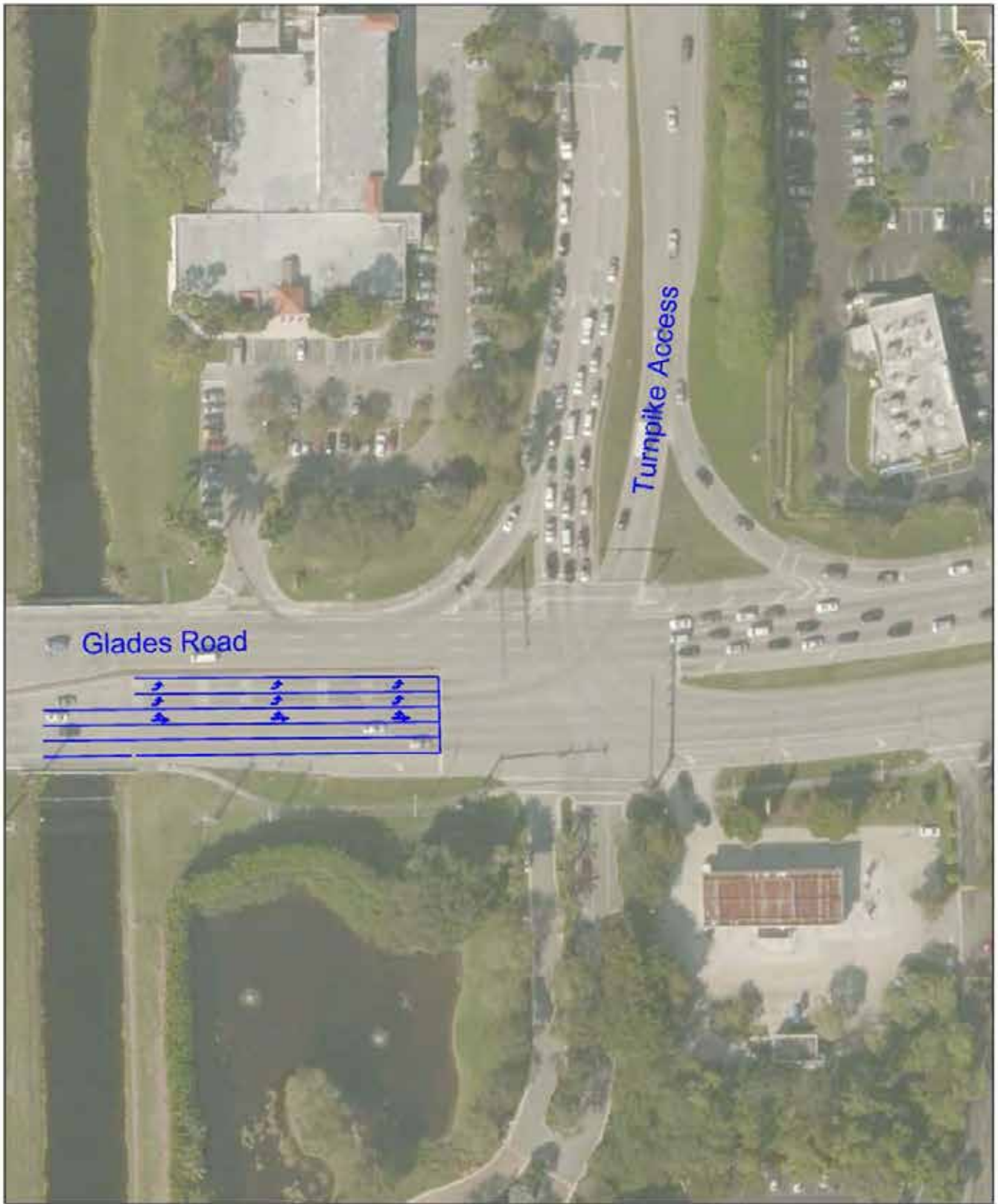
**FIGURE
05**



SCALE
0 50 100

**62635 Glades Rd @ Airport Rd/NW 15th Ave
Boca Raton, FL**

**FIGURE
06**



SCALE
0 50 100

**62510 Glades Rd @ Fl Turnpike
Boca Ranton, Fl**

**FIGURE
07**



SCALE
0 50 100

4750 Indiatown Rd @ Alt A1A/SR 811
Jupiter, FL

FIGURE
08

C:\Users\Tennis\Public\111501 Palm Beach MPO - Lane Addition Improvements_111501.dwg Jun 15, 2016 - 1:06pm - jplivney L: nptstf08 8




**4660 Indiatown Rd @ Central Bl
Jupiter, Fl**

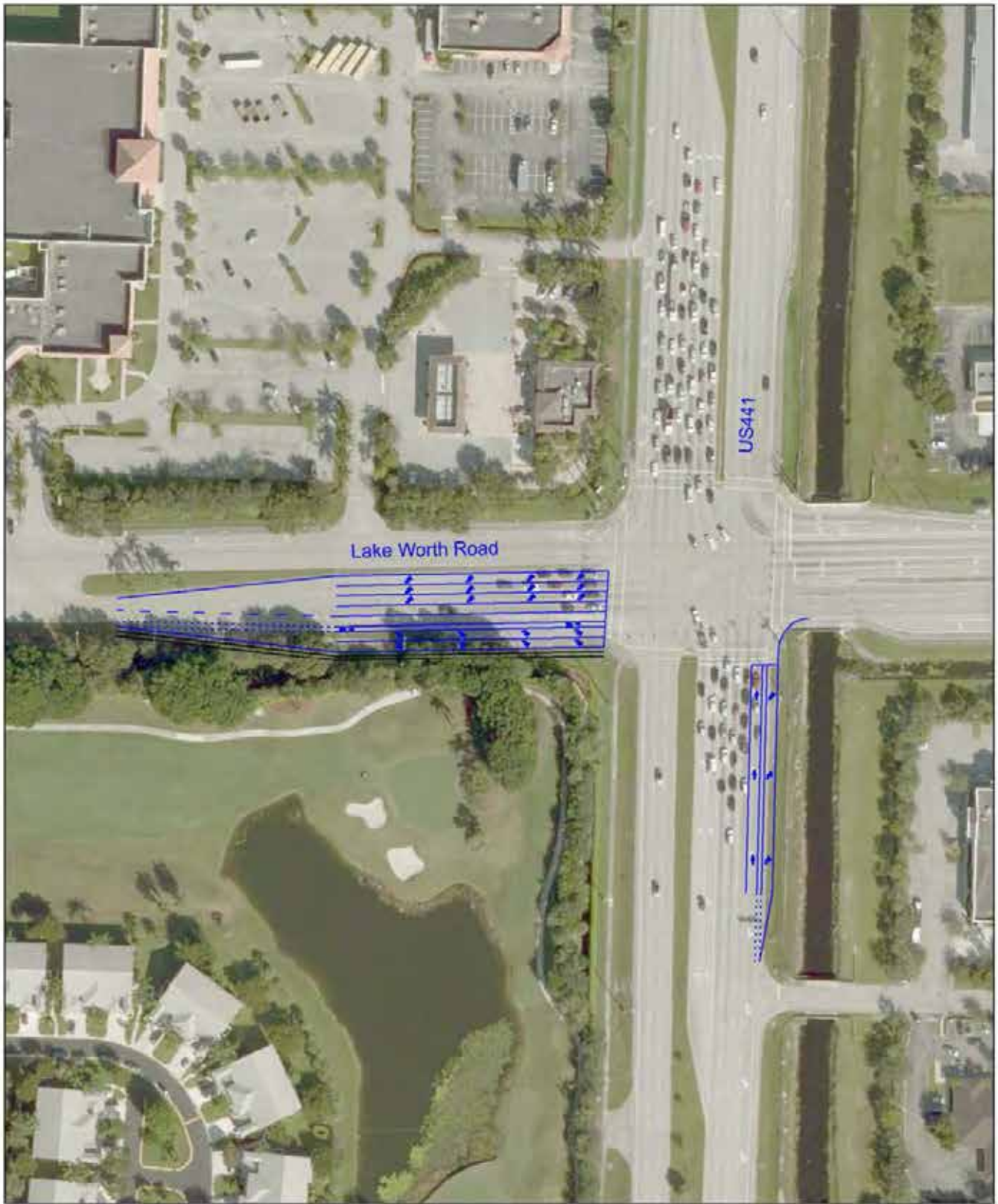
FIGURE
09



SCALE



0 75 150

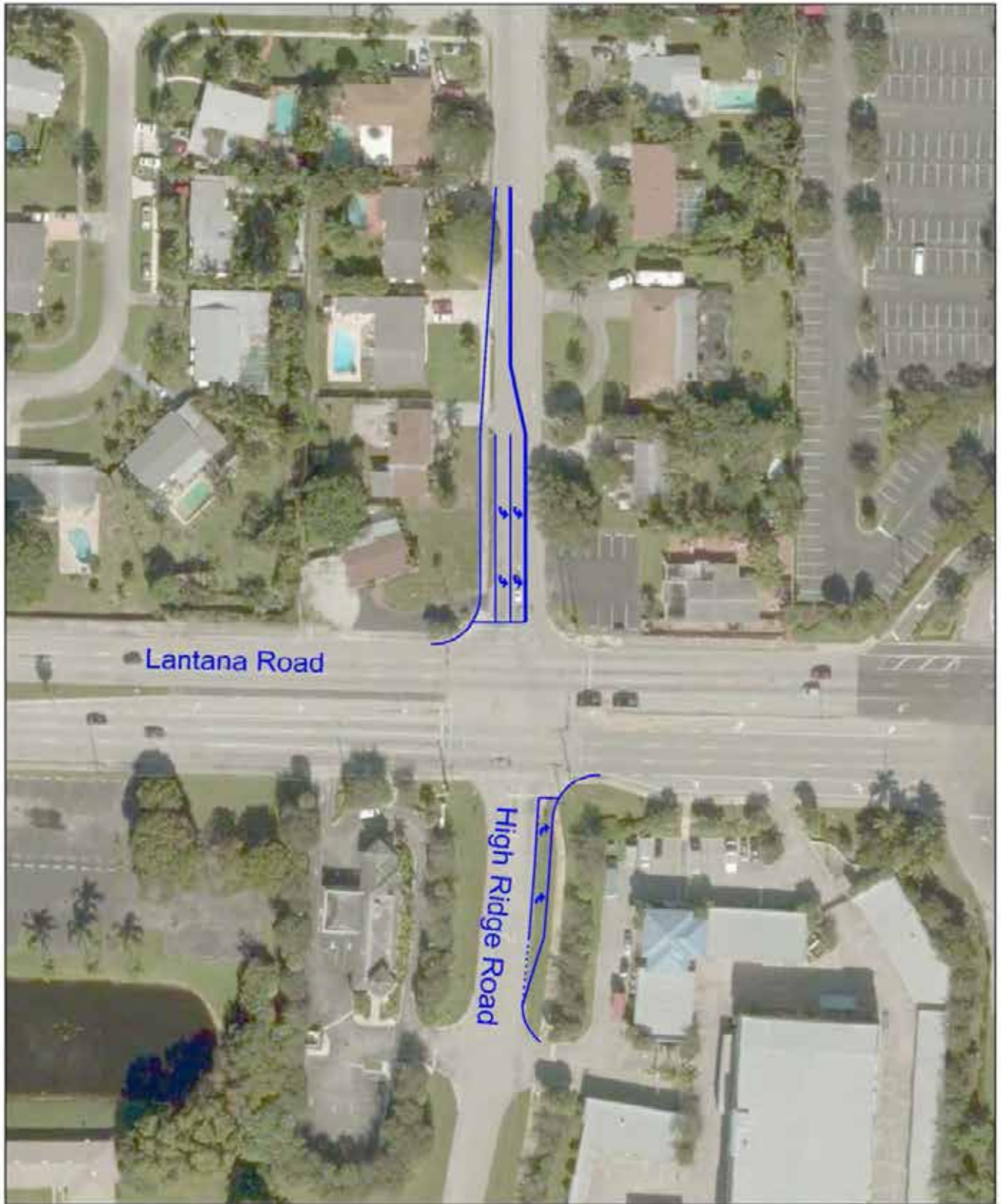


SCALE
0 75 150

**37001 Lake Worth Rd @ SR 7
Lake Worth, FL**

**FIGURE
10**

C:\ACAD\Temp\Public\117592\Palm Beach MPO - Lower Add'l plan concepts_JDK.dwg Jun 15, 2016 - 1:07pm - jgvery 1 of 10 page 20



SCALE
0 50 100

**40150 Lantana Rd @ High Ridge Rd
Lake Worth, FL**

**FIGURE
11**


C:\ACAD\Trevino\p1\ch11\11.15\2\palm beach MPO - Lane Addition - concept.dwg Jun 15, 2016 - 1:07pm - jberry / Layout Tab: 11



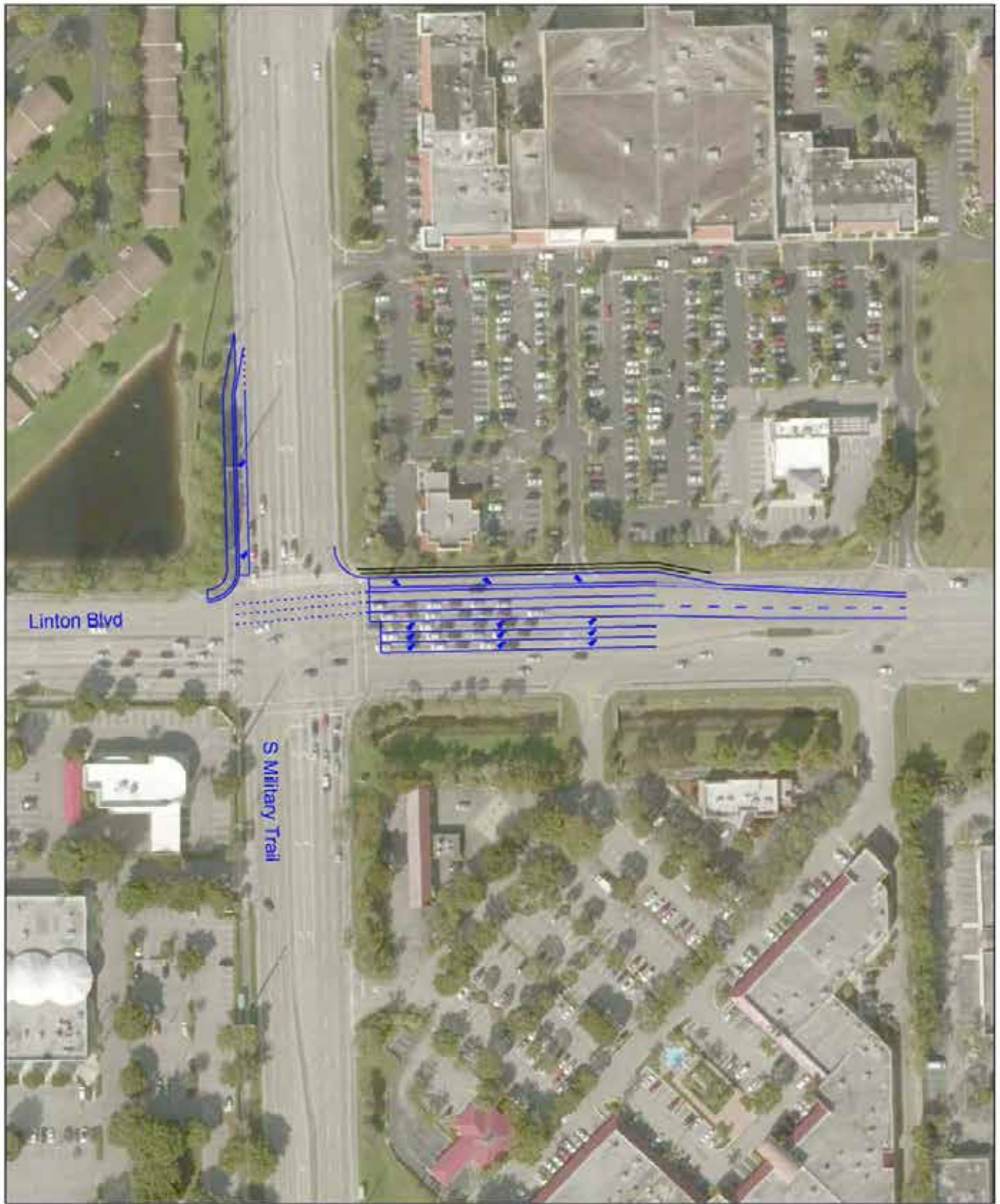
**55160 Linton Bl @ Federal Hwy/US 1
Delray Beach, Fl**

FIGURE
12

SCALE



0 75 150



Linton Blvd

S Military Trail



SCALE
0 75 150

**55075 Linton Bl @ Military Tr
Delray Beach, FL**

**FIGURE
13**

C:\ACAD\Temp\AcPublish\11352 (Palm Beach MPO) - Lower Addition\concepts_005.dwg Jun 15, 2016 - 1:08pm - jsherry Layout Tab 23




**17380 Northlake Bl @ Alt A1A/SR 811
West Palm Beach, FL**

FIGURE
14



SCALE



0 75 150



SCALE
0 75 150

**17290 Northlake Bl @ Beeline Hwy
Palm Beach Gardens, FL**

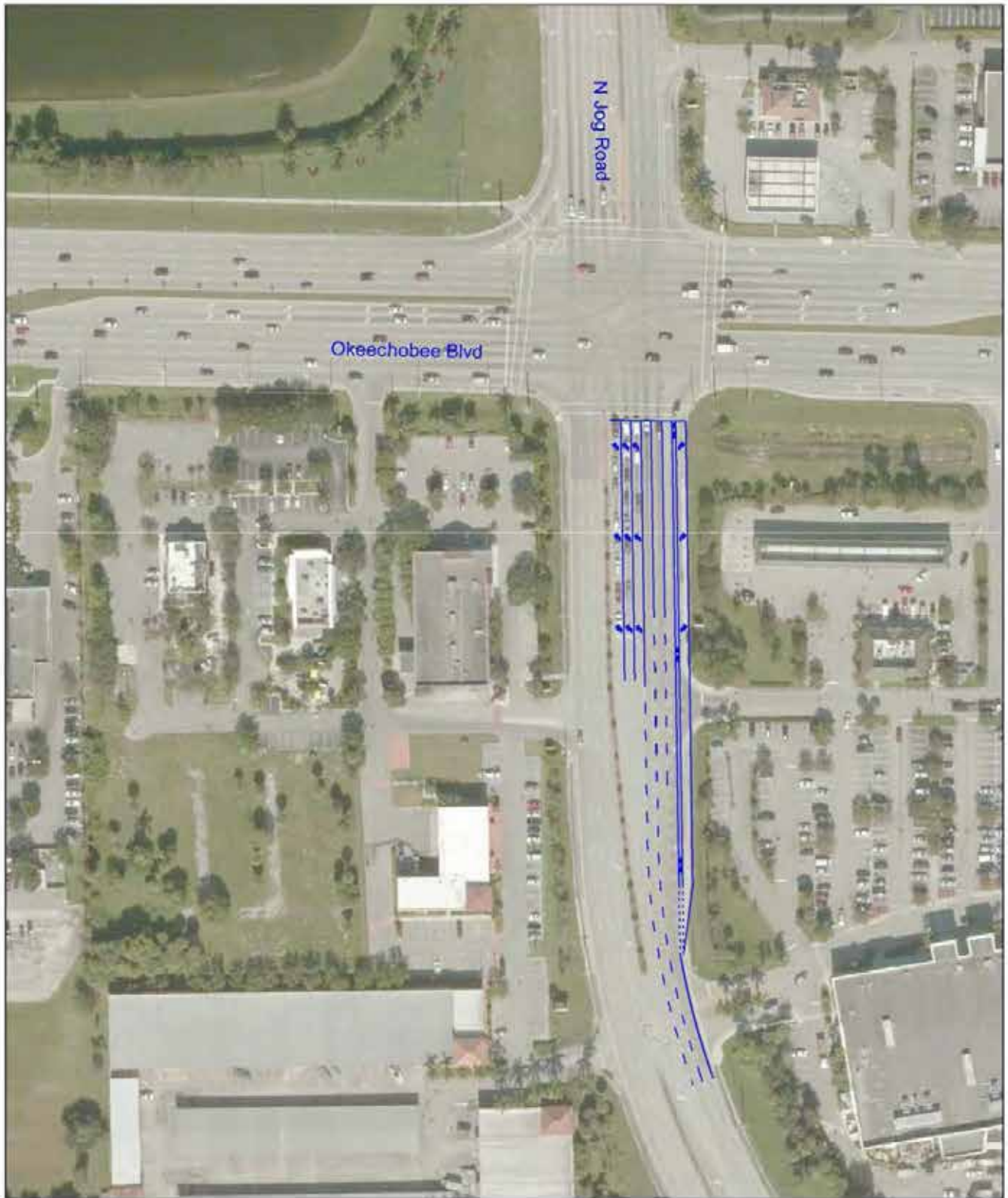
**FIGURE
15**



SCALE
0 50 100

**27728 Okeechobee Bl @ Benoist Farms Rd
West Palm Beach, FL**

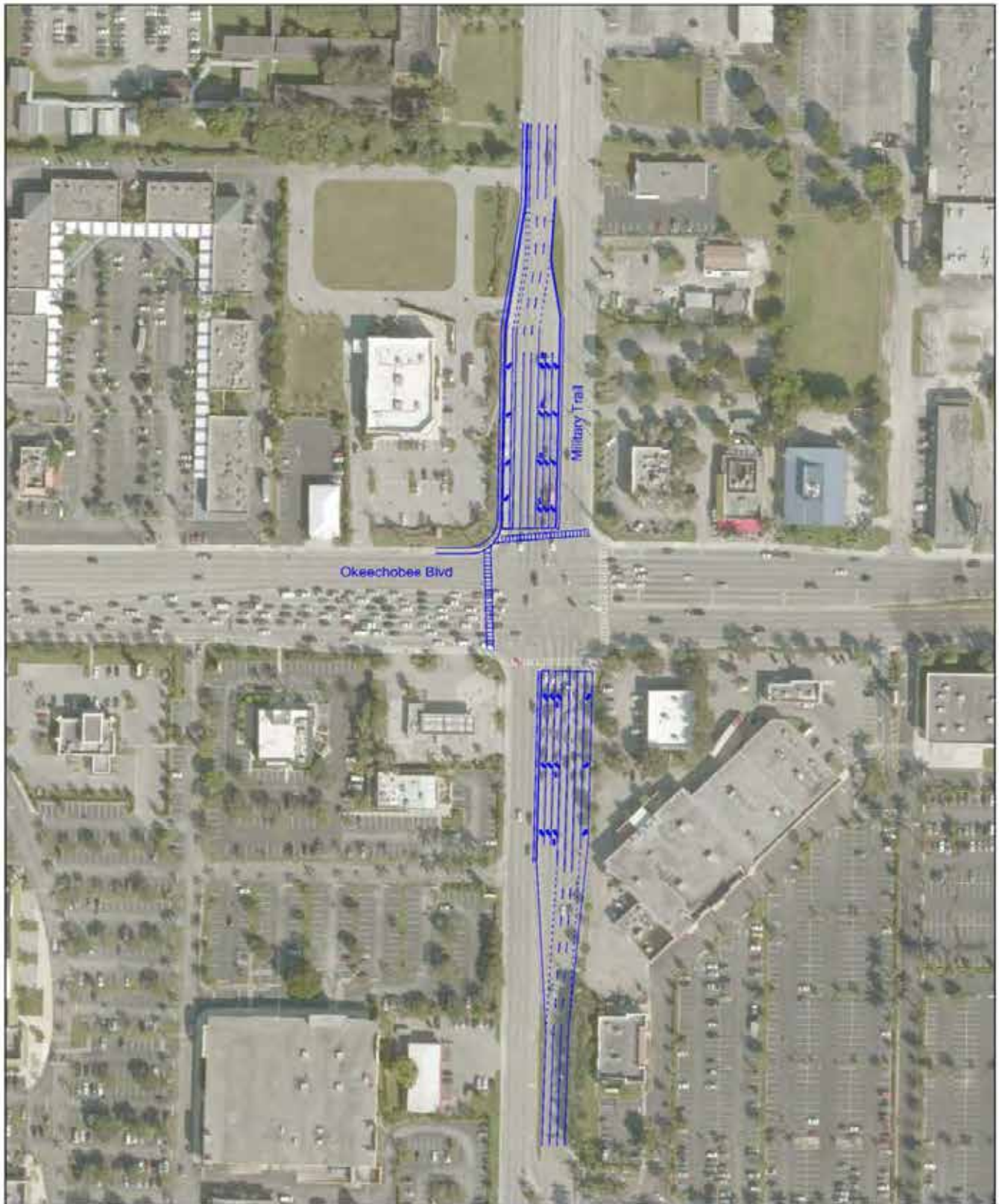
**FIGURE
16**



SCALE
0 75 150

**27750 Okeechobee Bl @ Jog Rd
West Palm Beach, FL**

**FIGURE
17**



SCALE
0 100 200

**27850 Okeechobee Bl @ Military Tr
Westgate, Fl**

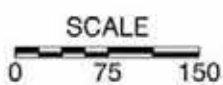
**FIGURE
18**

C:\ACAD\Temp\MapPublic\11752 (Palm Beach MPO) - Lower Addition - concept - JDS.dwg Jun 15, 2016 - 1:09pm - JDS - Layout Tab: 18

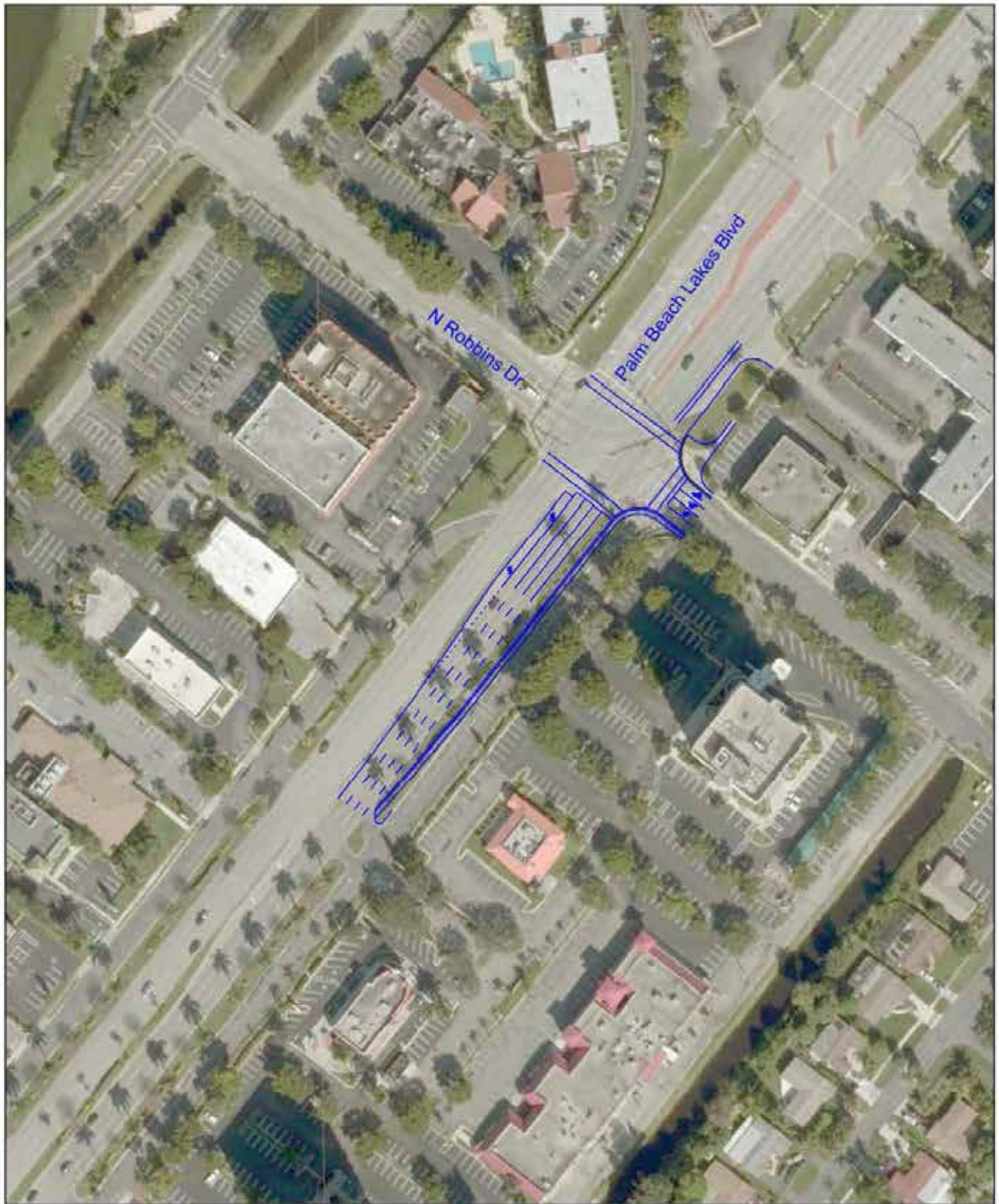


**27885 Okeechobee Bl @ Palm Beach Lakes Bl
West Palm Beach, FL**

**FIGURE
19**



C:\Users\Terry\Documents\27885\27885\27885.dwg Jun 15, 2016 1:02pm - J. Terry 19

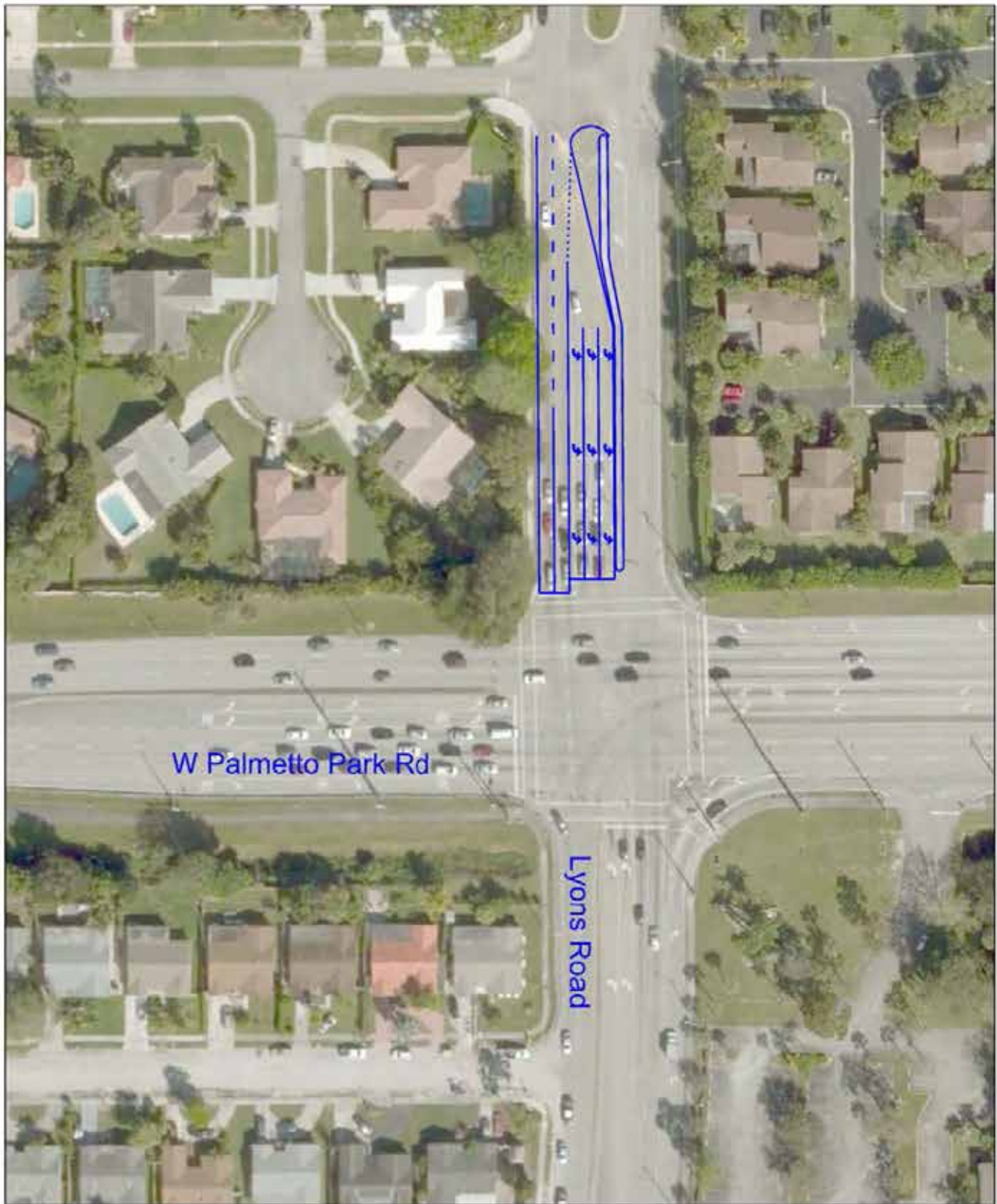


SCALE
0 75 150

**26020 Palm Beach Lakes Bl @ Robbins Dr
West Palm Beach, FL**

**FIGURE
20**

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W Palmetto Park Rd

Lyons Road



SCALE
0 50 100

**64021 Palmetto Park Rd @ Lyons Rd
Boca Raton, FL**

**FIGURE
21**

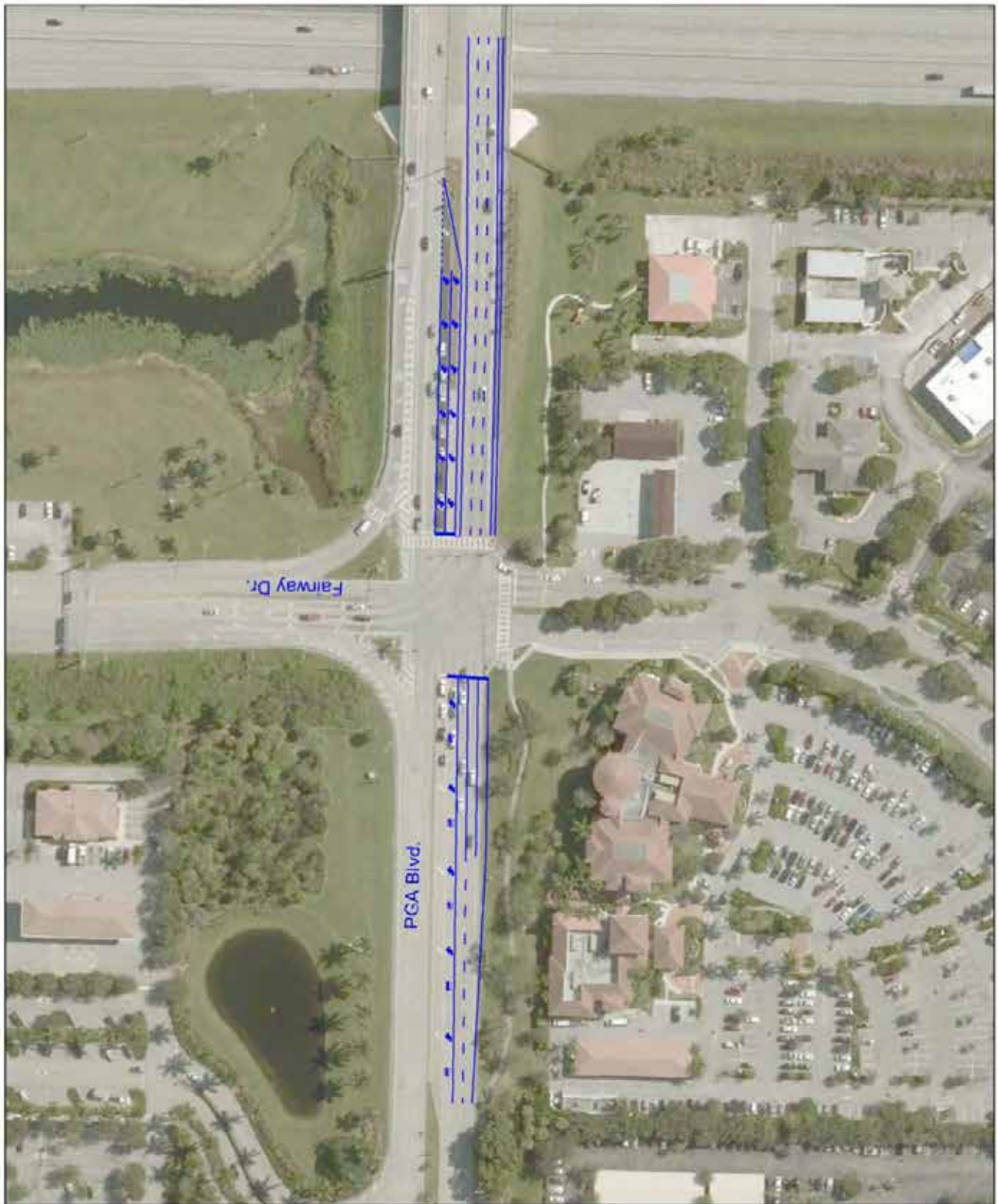


SCALE
0 125 250

**64050 Palmetto Park Rd @ Powerline Rd
Boca Raton**

**FIGURE
22**

C:\ACAD\Temp\AkPhub\h..._J1192\Palmetto Park MPO - Lower Addition - Intersect - JOS.dwg Jun 15, 2016 - J.L.Dyer - jldyer I layout Feb. 22

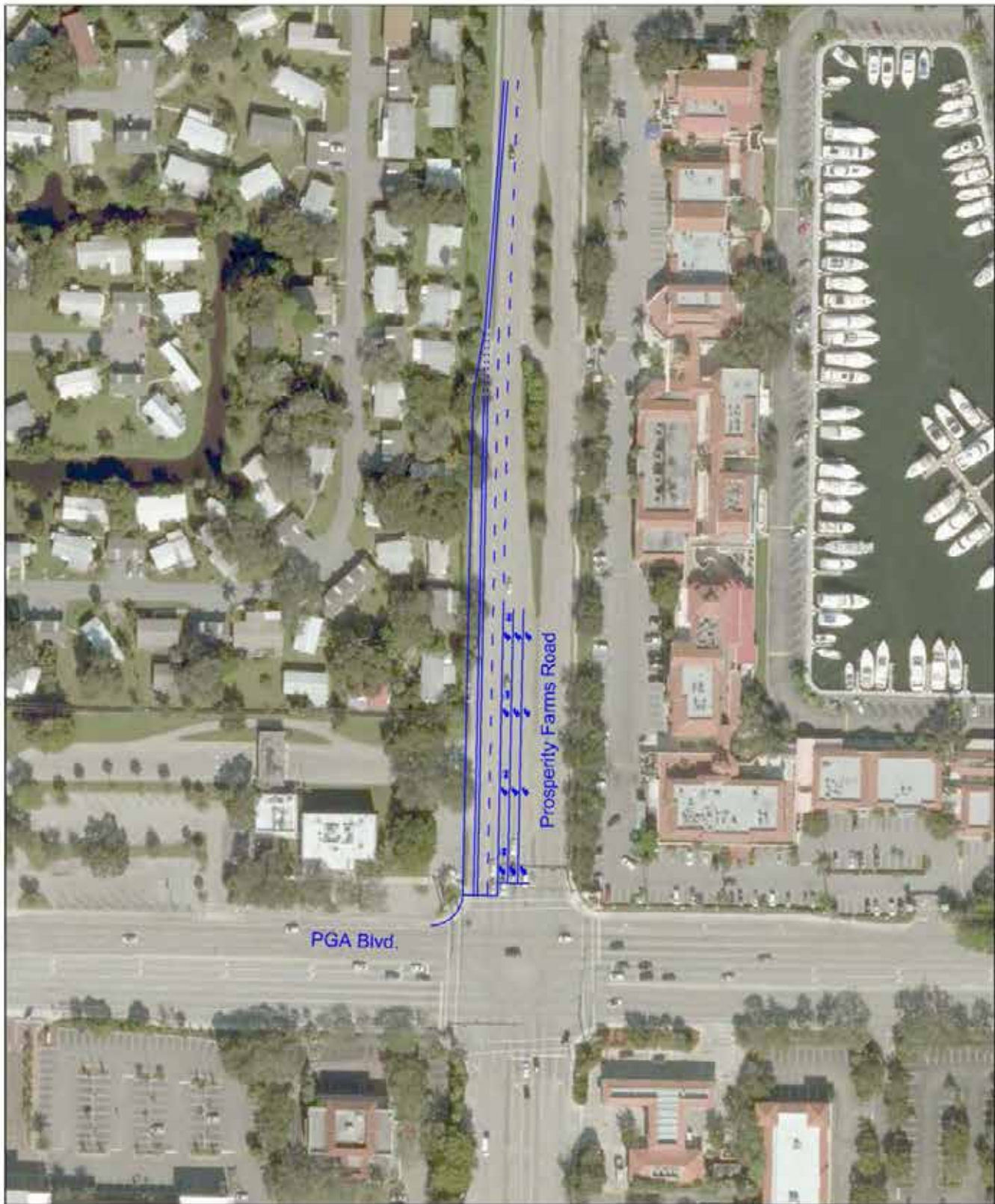


SCALE
0 75 150

**14300 PGA BL @ Fla Turnpike/Fairway Dr
Palm Beach Gardens, FL**

**FIGURE
23**

C:\A\401\Temp\A\Pub\Pub_11192\Palm Beach MPO - Lane Addition\Intersect_105.dwg Jun 15, 2016 - 1:10pm - jgoley E:\pub\Tech-23

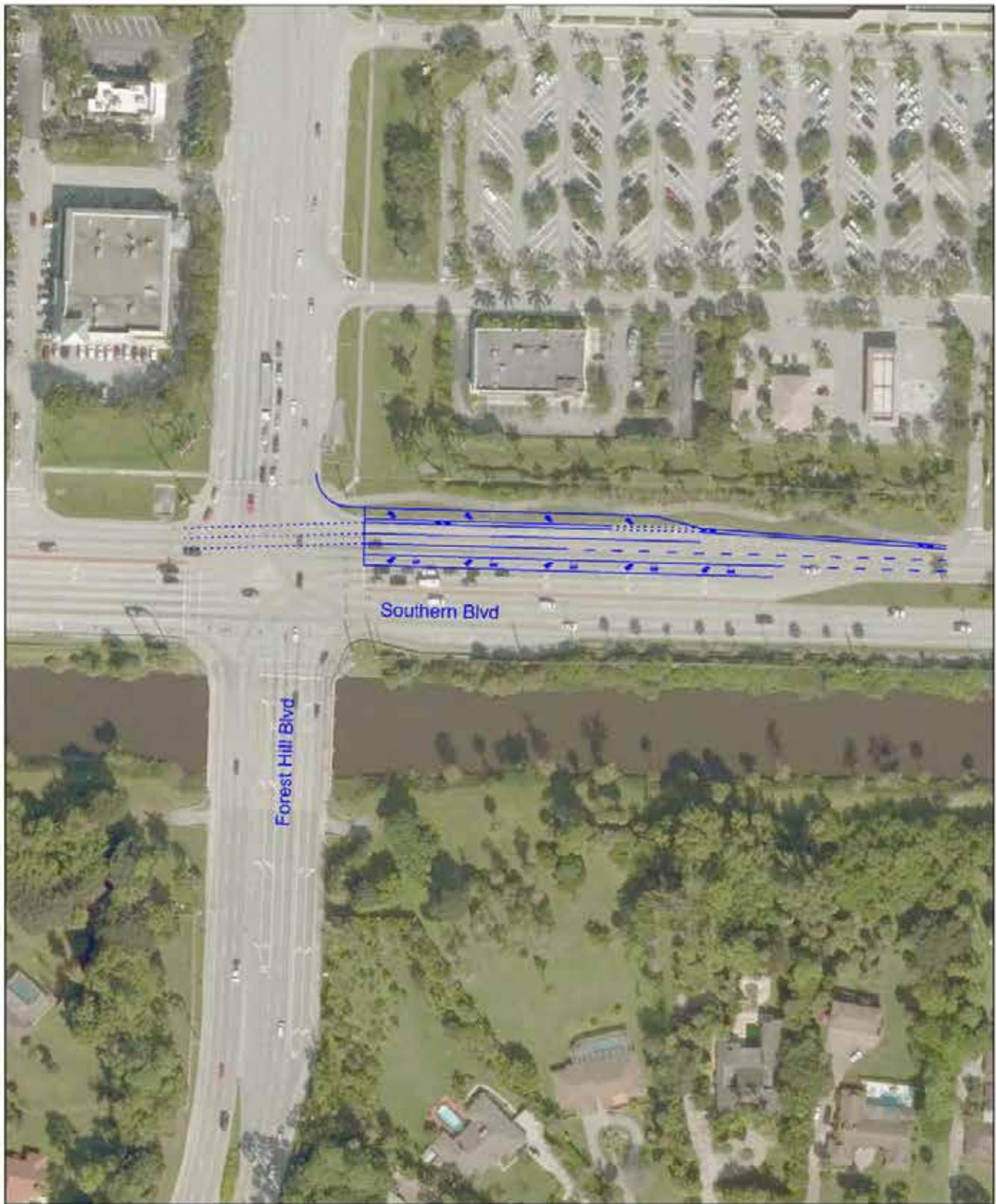


**14450 PGA Bl @ Prosperity Farms Rd
Palm Beach Gardens, FL**

**FIGURE
24**



SCALE
0 75 150



SCALE
0 75 150

**30735 Southern Bl @ Forest Hill Bl
Loxahatchee, FL**

**FIGURE
25**

C:\A\CAD\Temp\A\Mapplan_111901\Palm Beach MPO - (Lane Addition) Intersect_050.dwg Jun 15, 2016 - 2:10pm - jgurey Layout Tab: 25



**30860 Southern Bl @ Kirk Rd
West Palm Beach, FL**

**FIGURE
26**



SCALE
0 100 200



Southern Blvd

Lyons Road



SCALE
0 100 200

**30790 Souther Bl @ Lyonds Rd/Sansburys Way
West Palm Beach, FL**

**FIGURE
27**

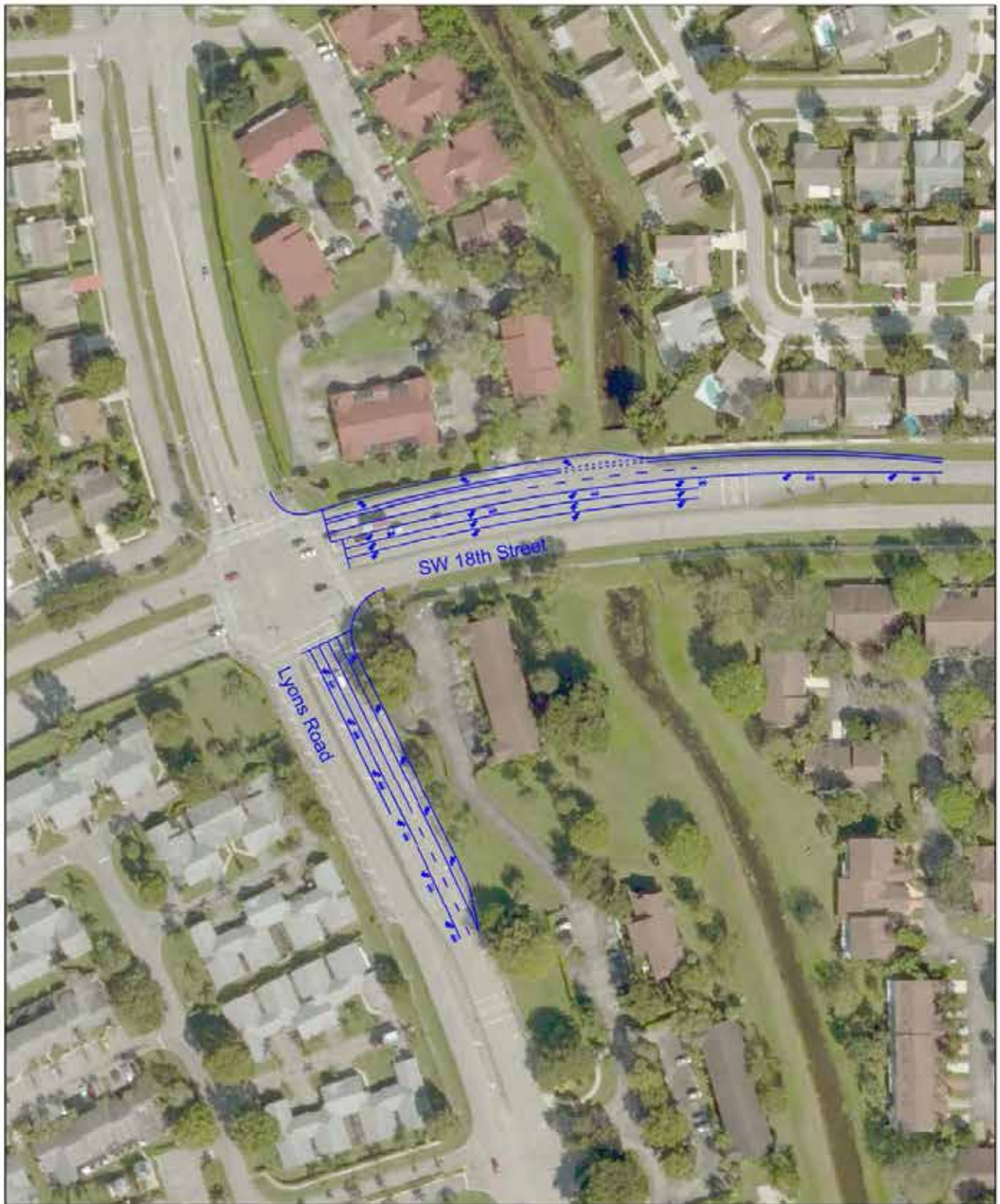


SCALE
0 75 150

**34500 Stribling Way @ SR 7
Wellington, FL**

**FIGURE
28**

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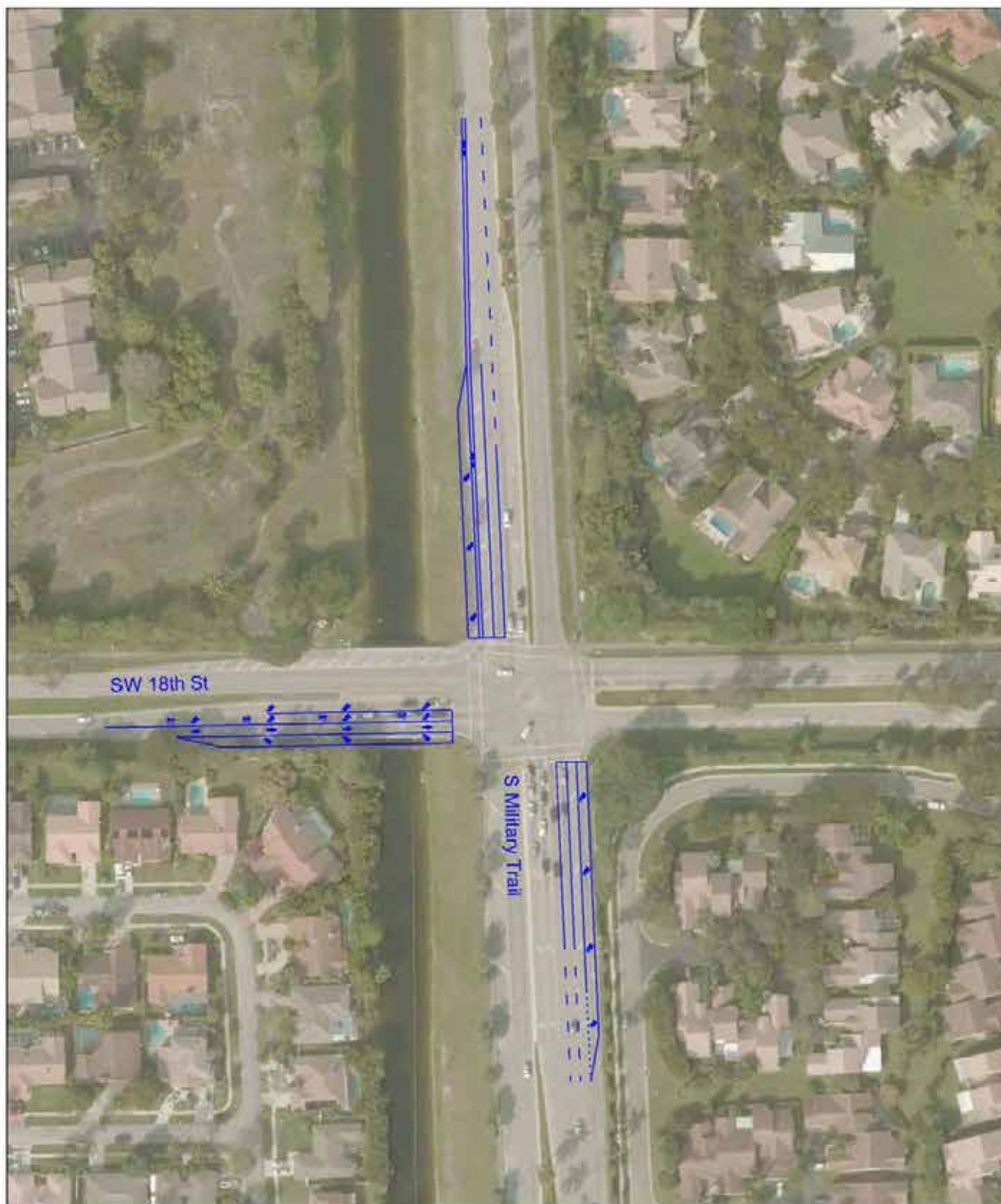
SCALE
0 75 150

**67410 SW 18th St @ Lyons Rd
Boca Raton, FL**

**FIGURE
29**

C:\ACAD\Teng\palmbeach\11192\Palm Beach MPO - Town Addition\corrupts_205.dwg Jun 15, 2016 - 2:11pm - jipovey 1.mxd Tab: 29

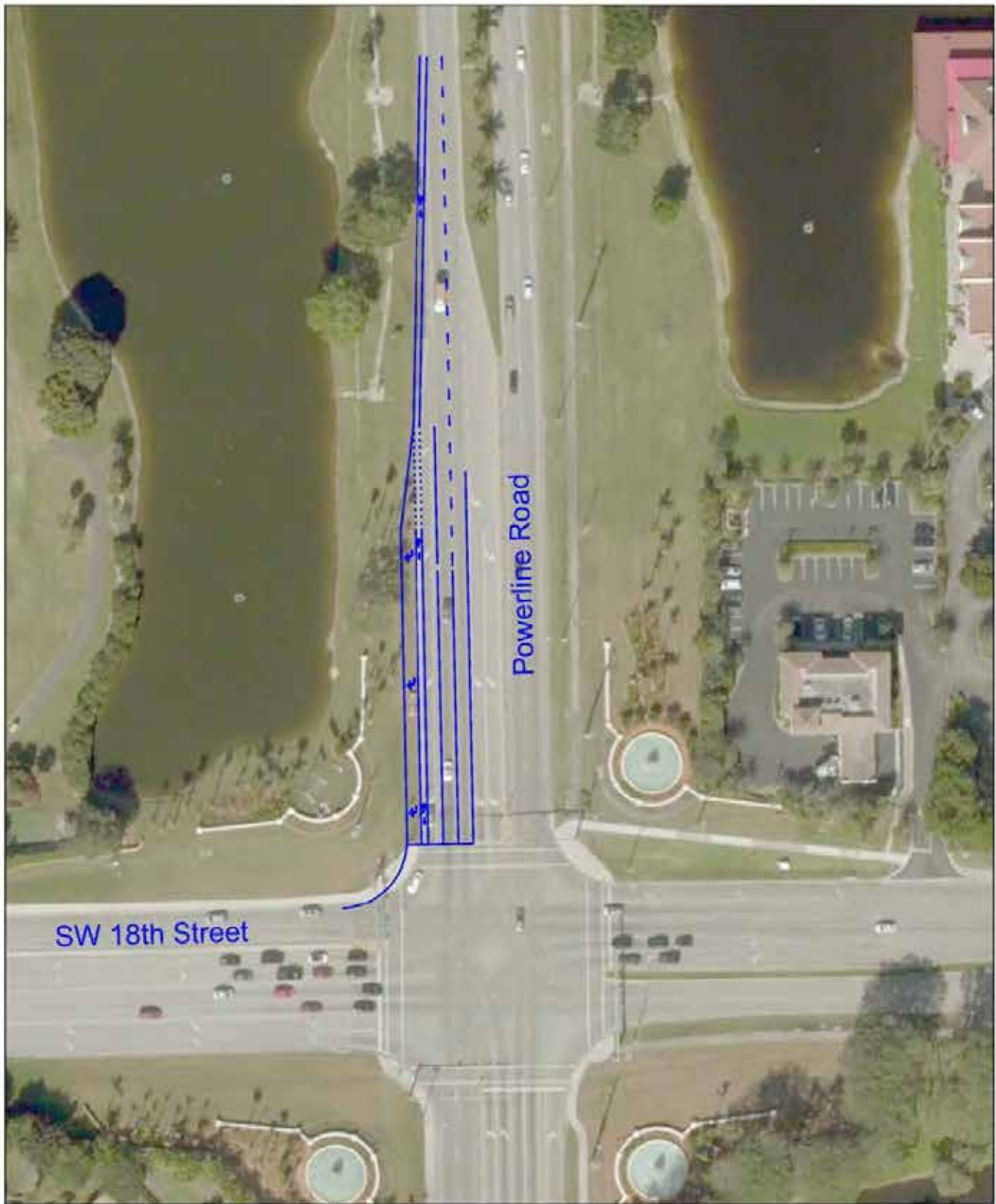
C:\p2401\Terra\Public\11192\Palm Beach MPO - Lane Addition - encraps_205.dwg Jun 15, 2016 - 1:12pm - jphvey 1 mpsat Tot: 30



SCALE
0 75 150

**67530 SW 18th St @ Military Tr
Boca Raton, FL**

**FIGURE
30**



SCALE
0 50 100

**67500 SW 18th St @ Powerline Rd
Boca Ranton**

**FIGURE
31**

C:\ACAD\Temp\Academic_11192\Palm Beach MPO - Town Addition\scenarios_2016.dwg Jun 15, 2016 - 2:42pm - jipovey E:\mou\Tab.31



SCALE
0 50 100

**53043 W Atlantic Ave @ Fl Turnpike/Tranquility
Delray Beach, FL**

**FIGURE
32**

C:\MCD\Temp\publish\11102\Palm Beach MPO - Lane Addition process_05.dwg Jun 15, 2016 - 3:12pm - jrovey Layout Tab 23



W Woolbright Road

S Seacrest Blvd

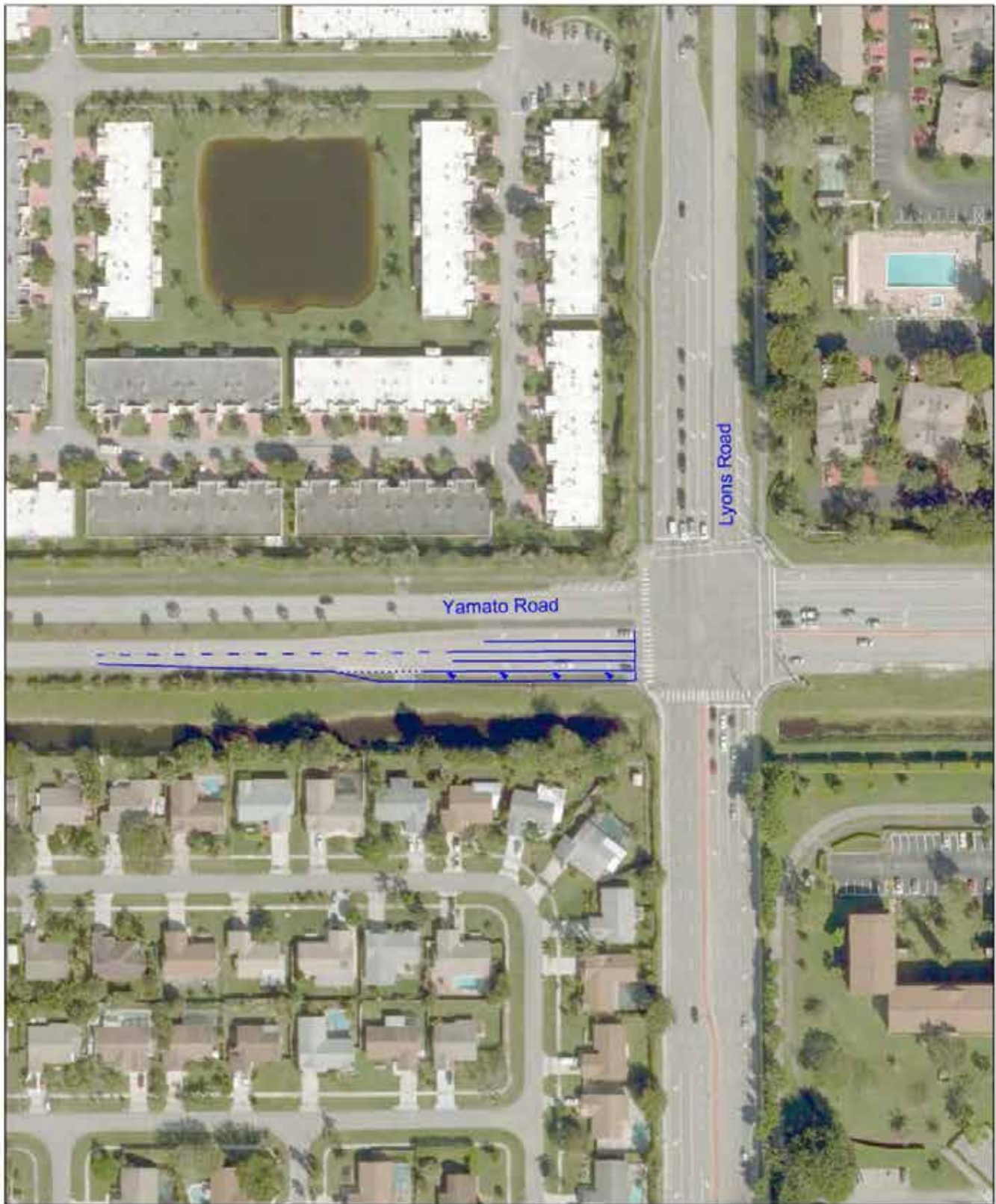


SCALE
0 50 100

**47575 Woolbright Rd @ Seacrest Bl
Boynton Beach, Fl**

**FIGURE
33**

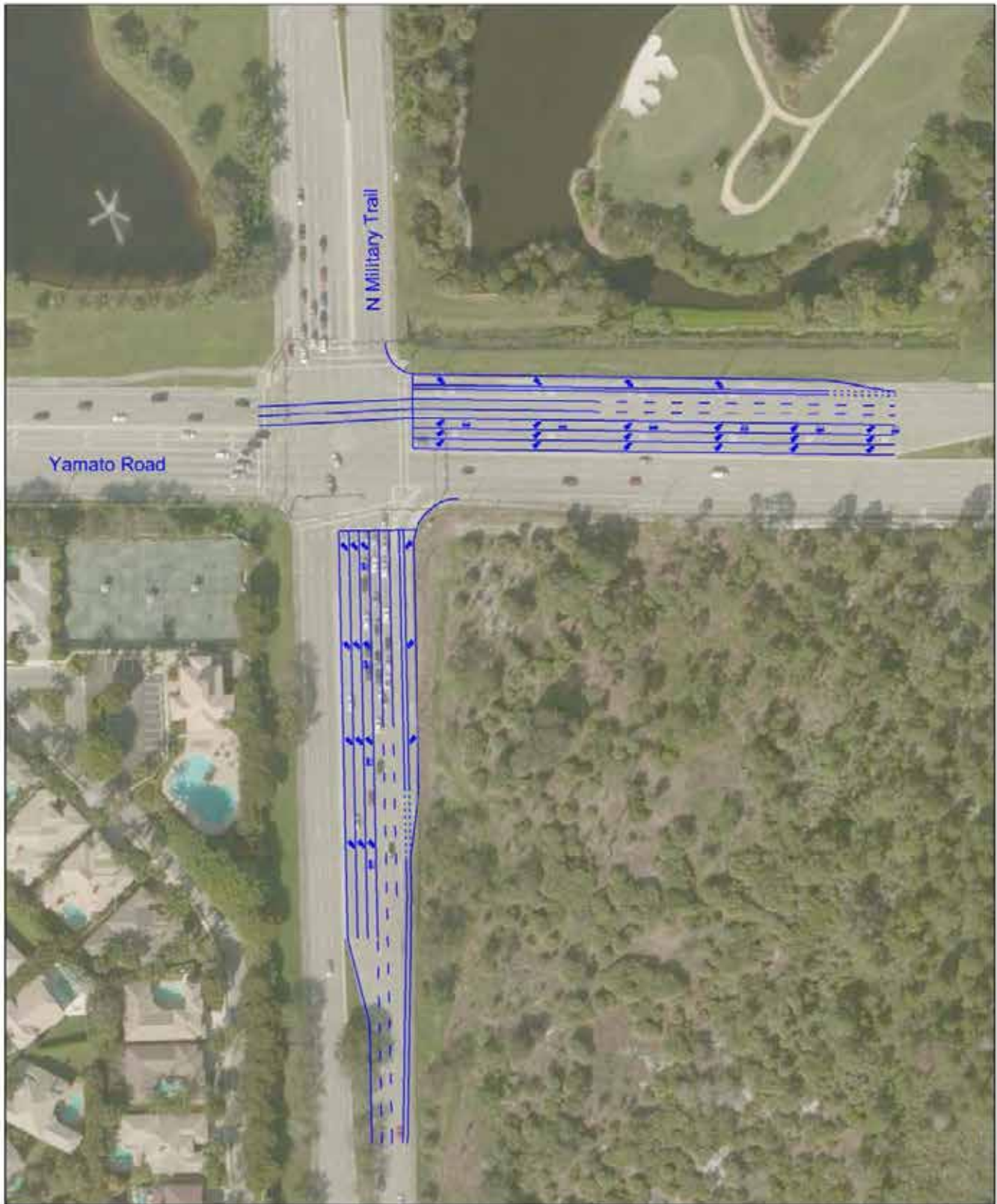
C:\MAGD\Temp\KAP\Public\111971\palm beach MPO - Lane Addition Concepts_05.dwg Jun 15, 2016 3:12pm jibveloy Layout Tab 23



SCALE
0 75 150

**59000 Yamato Rd @ Lyons Rd
Boca Raton, FL**

**FIGURE
34**



SCALE
0 75 150

**300024 Yamato Rd @ Military Tr
West Palm Beach, FL**

**FIGURE
35**

C:\ACAD\Trellis\palmbeach\11192\Palm Beach MPO - Low Addition Intersect_205.dwg Jun 15, 2016 - 2:13pm - jipvey 1.mxd Tab 35

APPENDIX D

TRANSIT VS. AUTO TRAVEL TIME COMPARISONS

Auto:Transit Travel Time Ratio

Performance Measure

In a multimodal environment, transit is just one of many modal options. In order to make transit a realistic and competitive option, it is important to understand transit-to-auto travel time. The Palm Beach County MPO has set goals to reduce the transit-to-auto travel time ratio to 2.50 by 2025 and to 2.00 by 2040. A lower transit-to-auto ratio means a more competitive transit system that can encourage motorists to switch to transit for their commutes.

Data

PalmTran, the transit service provider in Palm Beach County, maintains GIS databases for bus routes and bus stops in the County. In addition to providing these GIS files to the general public, PalmTran recently provided bus routes, stops, and schedules to Google in the GTFS (General Transit Feed Specification) format.

By doing this, Palm Tran joins a growing cadre of transit systems using Google Transit in Florida and across the country. This service calculates the route, transit time, cost and compares alternate trip methods.

Method

Kittelsohn & Associates, Inc. reviewed the bus routes and bus stops GIS shapefiles provided by PalmTran to identify the start and end locations of each bus route in the system. Then, using Google Maps during a midweek afternoon peak period, the Kittelsohn & Associates, Inc. team recorded the travel times by auto and by transit for each pair of start and end locations.

The auto travel time estimates are based on Google's traffic model, which uses historical data to output the likely travel times. The transit travel times are based on the in-vehicle travel time in PalmTran's schedule, as provided to Google in the GTFS format. Transit travel times do not include access or waiting times. Because the comparison is done along individual bus routes, transfer times are not applicable.

To compute an average transit-to-auto travel time ratio for PalmTran's system, the sum of transit travel time across all routes was divided by the sum of auto travel time across all routes (r from 1 to $N = 34$). The equation below shows the calculation.

$$\text{Transit to Auto Ratio} = \frac{\sum_{r=1}^N \text{Transit Travel Time}_r}{\sum_{r=1}^N \text{Auto Travel Time}_r}$$

Findings

During the PM peak period of a weekday in May 2016, the in-vehicle transit travel time across PalmTran's routes is about 2.52 times the auto travel time. The distribution of ratios across routes shows that 29 percent of routes are meeting the 2040 goal of 2.0 or less, while 47 percent are meeting the 2025 goal of 2.5 or less. Figure 1 presents the distribution of transit-to-auto travel time ratios. Figure 2 shows the top and bottom PalmTran routes by transit-to-auto travel time ratios.

Auto:Transit Travel Time Ratio

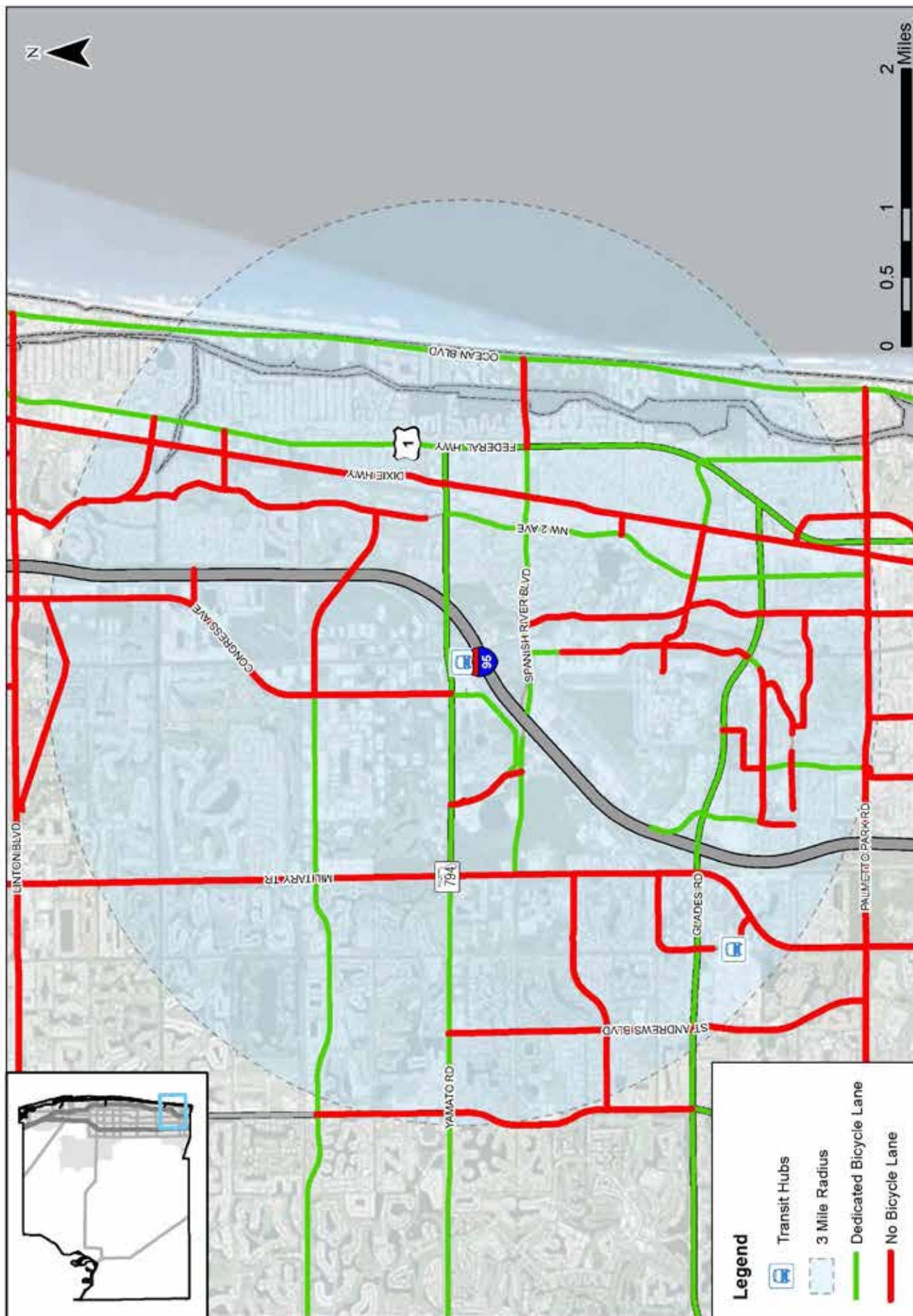
2016 Auto to Transit Travel Time Comparison

TimeStamp	Route	Driving Distance	Driving Time	Transit Distance	Transit Time	Ratio
5/5/2016 10:41	94	3.0	10.3	3.0	10.0	0.97
5/5/2016 10:41	43	13.6	27.0	12.6	35.0	1.30
5/5/2016 10:41	30	5.1	17.5	6.7	27.4	1.57
5/5/2016 10:41	63	7.0	16.6	7.1	26.6	1.60
5/5/2016 10:41	71	5.3	12.1	5.9	20.0	1.65
5/5/2016 10:41	1	29.3	44.1	28.0	73.0	1.65
5/5/2016 10:41	62	11.4	29.8	13.4	50.0	1.68
5/5/2016 10:41	41	6.0	20.6	5.1	35.0	1.70
5/5/2016 10:41	49	2.7	8.4	2.6	15.1	1.80
5/5/2016 10:41	44	6.2	17.5	6.2	32.8	1.87
5/5/2016 10:41	64	6.3	20.0	6.9	40.3	2.01
5/5/2016 10:41	48	17.6	29.5	21.0	60.6	2.05
5/5/2016 10:41	73	8.9	21.7	11.1	45.7	2.11
5/5/2016 10:41	46	9.7	24.4	9.8	53.0	2.17
5/5/2016 10:41	92	8.2	23.5	10.6	51.5	2.19
5/5/2016 10:41	52	4.9	11.1	4.8	24.4	2.19
5/5/2016 10:41	40	42.7	55.5	50.5	145.0	2.61
5/5/2016 10:41	81	7.3	18.7	12.1	50.0	2.68
5/5/2016 10:41	2	32.5	40.8	31.0	110.0	2.69
5/5/2016 10:41	10	10.2	15.8	16.9	45.0	2.84
5/5/2016 10:41	31	7.7	12.0	8.0	35.0	2.91
5/5/2016 10:41	91	8.2	22.0	12.2	65.0	2.95
5/5/2016 10:41	47	12.8	21.4	16.9	63.5	2.96
5/5/2016 10:41	21	9.3	20.0	12.7	60.0	3.00
5/5/2016 10:41	61	6.3	18.4	9.8	55.6	3.03
5/5/2016 10:41	3	37.1	45.6	37.8	140.0	3.07
5/5/2016 10:41	4	7.6	21.0	7.9	65.3	3.11
5/5/2016 10:41	33	9.2	16.3	11.6	58.0	3.57
5/5/2016 10:41	70	13.2	23.5	21.5	85.0	3.62
5/5/2016 10:41	45	7.7	13.2	10.8	49.2	3.72
5/5/2016 10:41	20	8.6	18.5	14.8	70.0	3.78
5/5/2016 10:41	42	4.0	8.4	6.0	35.0	4.16
5/5/2016 10:41	80	2.2	8.0	2.7	36.7	4.62
5/5/2016 10:41	60	4.3	12.3	5.9	57.7	4.71

Totals: 725.6 1826.3
Transit:Auto Ratio: 2.52

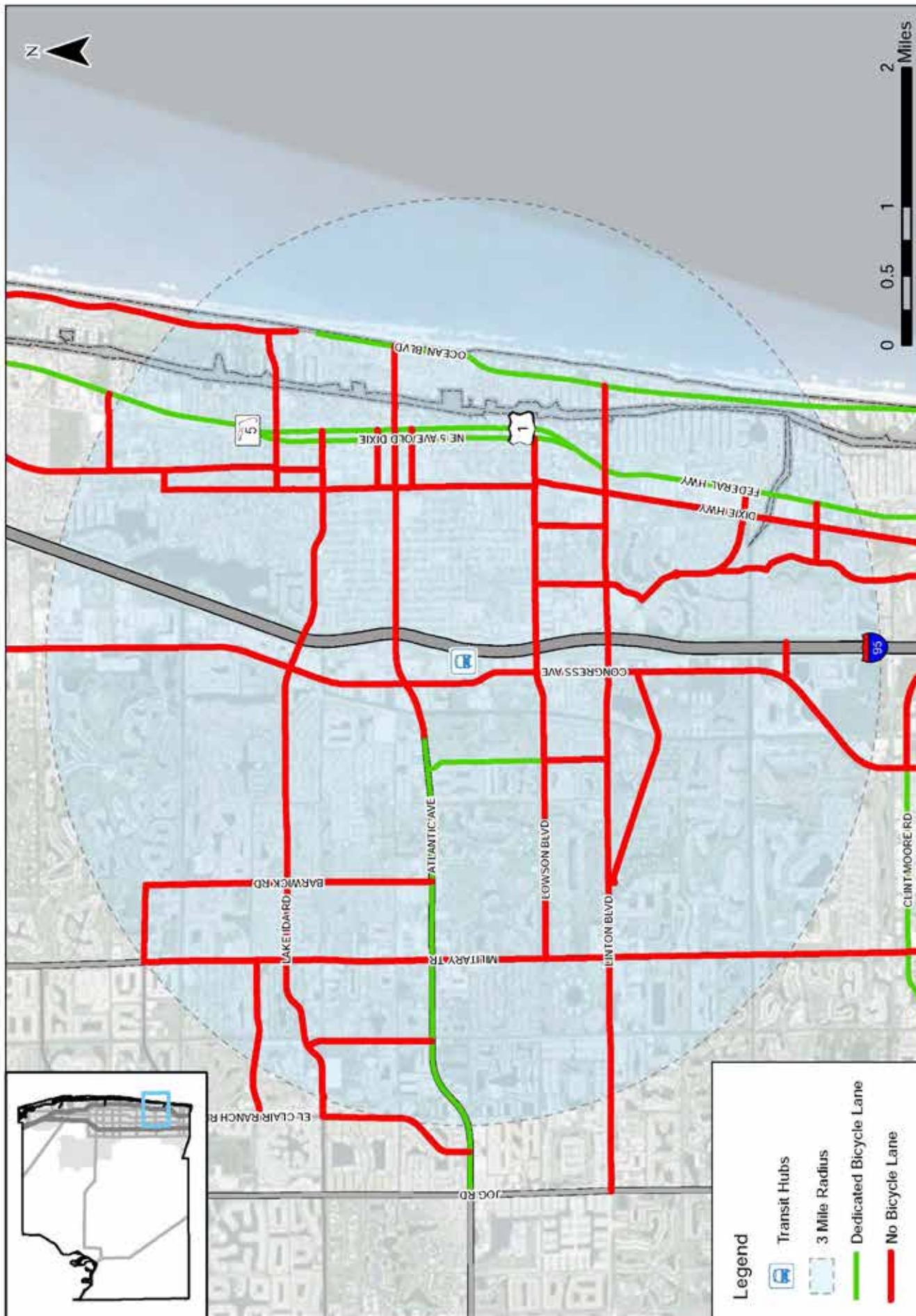
APPENDIX E

BICYCLE FACILITY GAPS NEAR TRANSIT HUBS



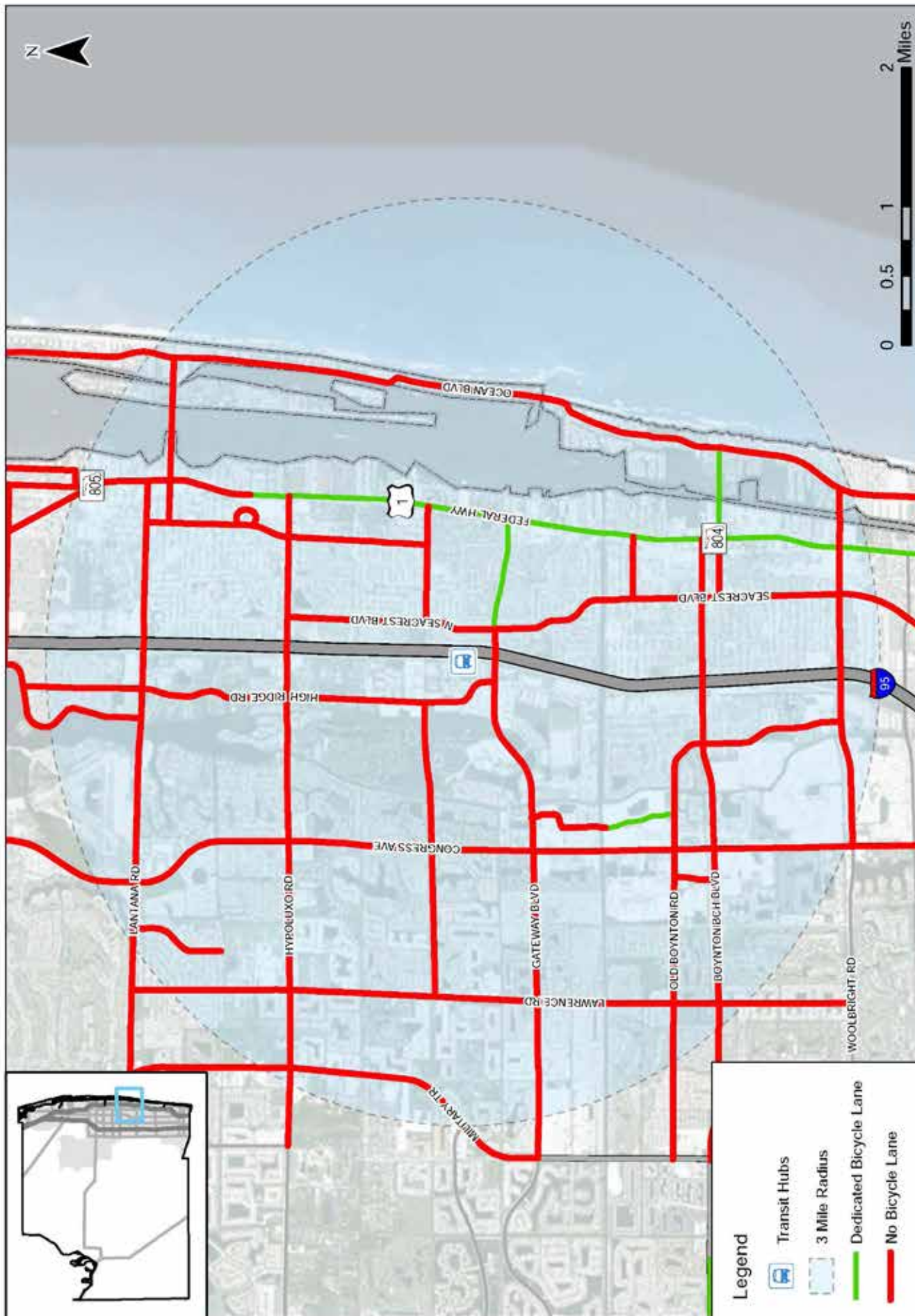
Boca Raton Tri-Rail Station Bicycle Inventory Map Congestion Management Process





Delray Beach Tri-Rail Station Bicycle Inventory Map Congestion Management Process

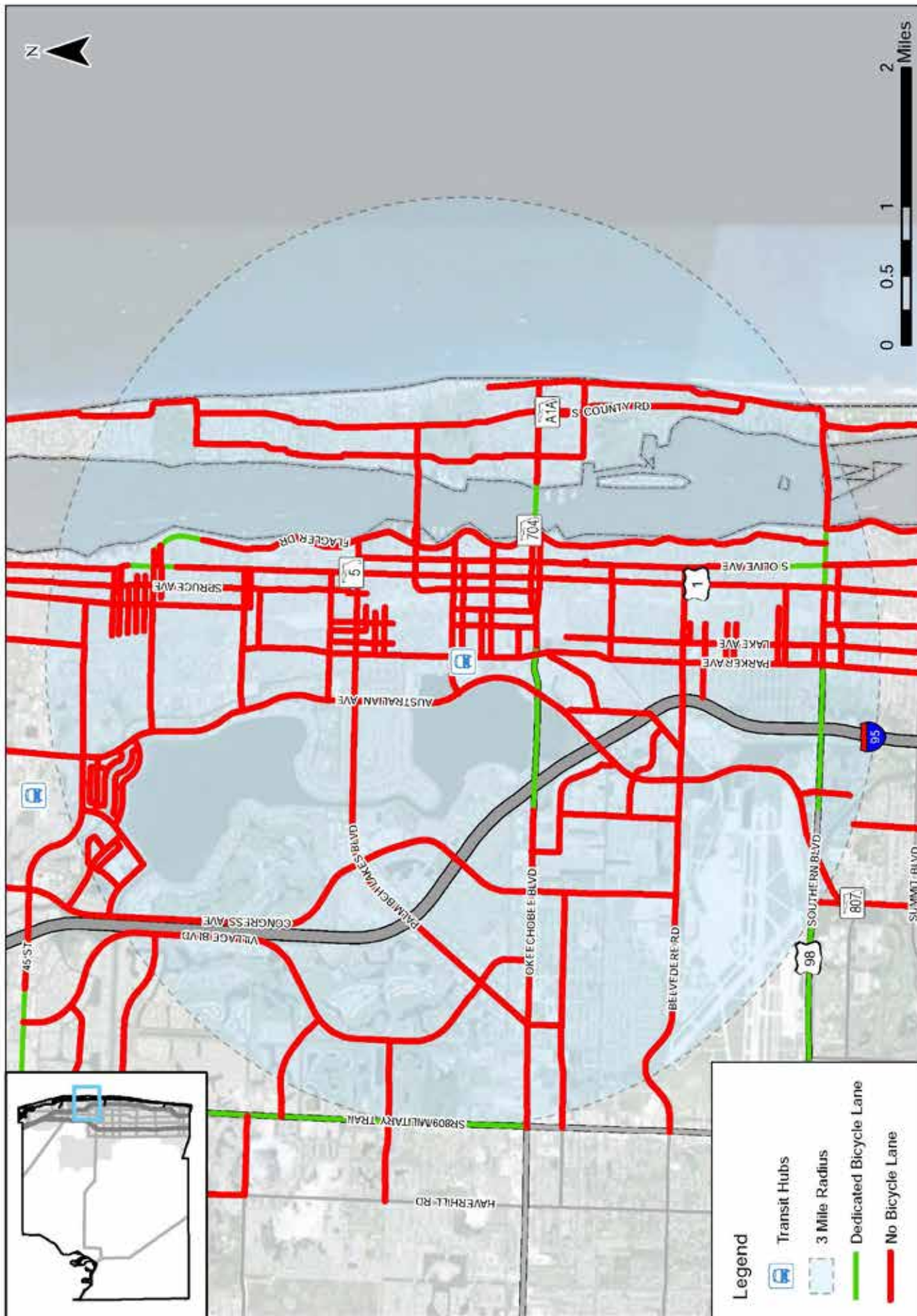




Boynton Beach Tri-Rail Station Bicycle Inventory Map Congestion Management Process

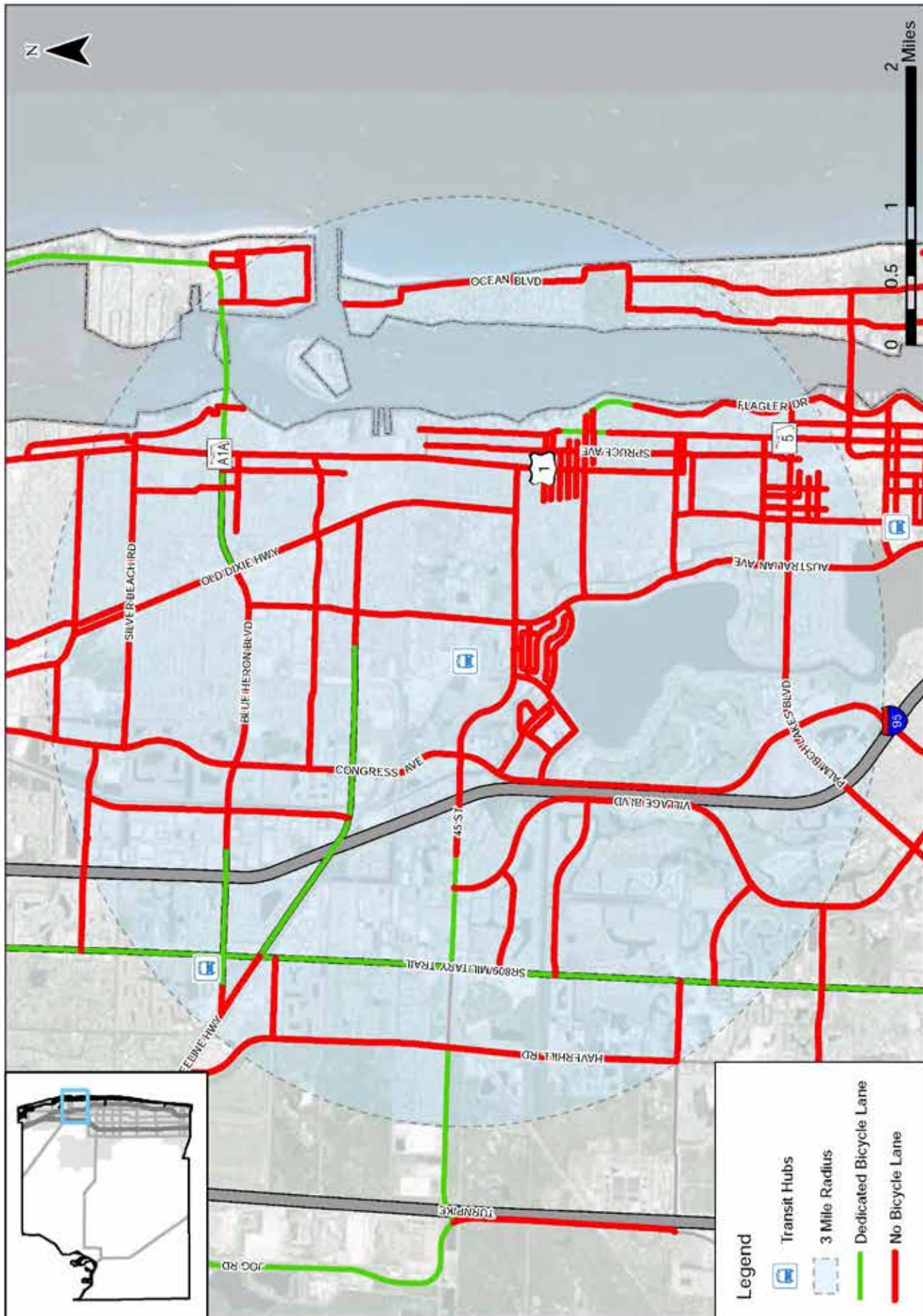


KITTILSON & ASSOCIATES, INC.
TRANSPORTATION ENGINEERING/PLANNING



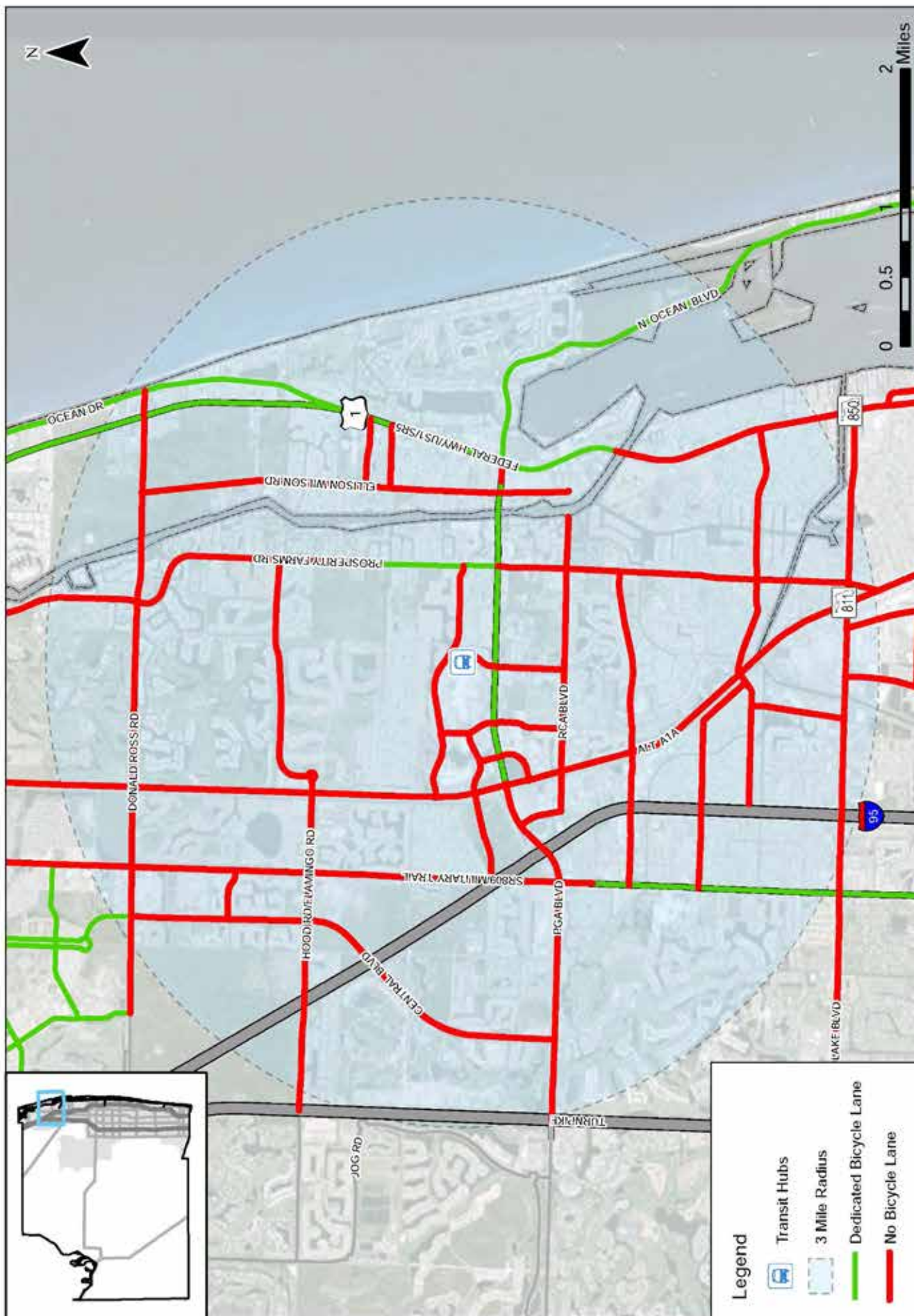
West Palm Beach Intermodal Transit Center Bicycle Inventory Map Congestion Management Process





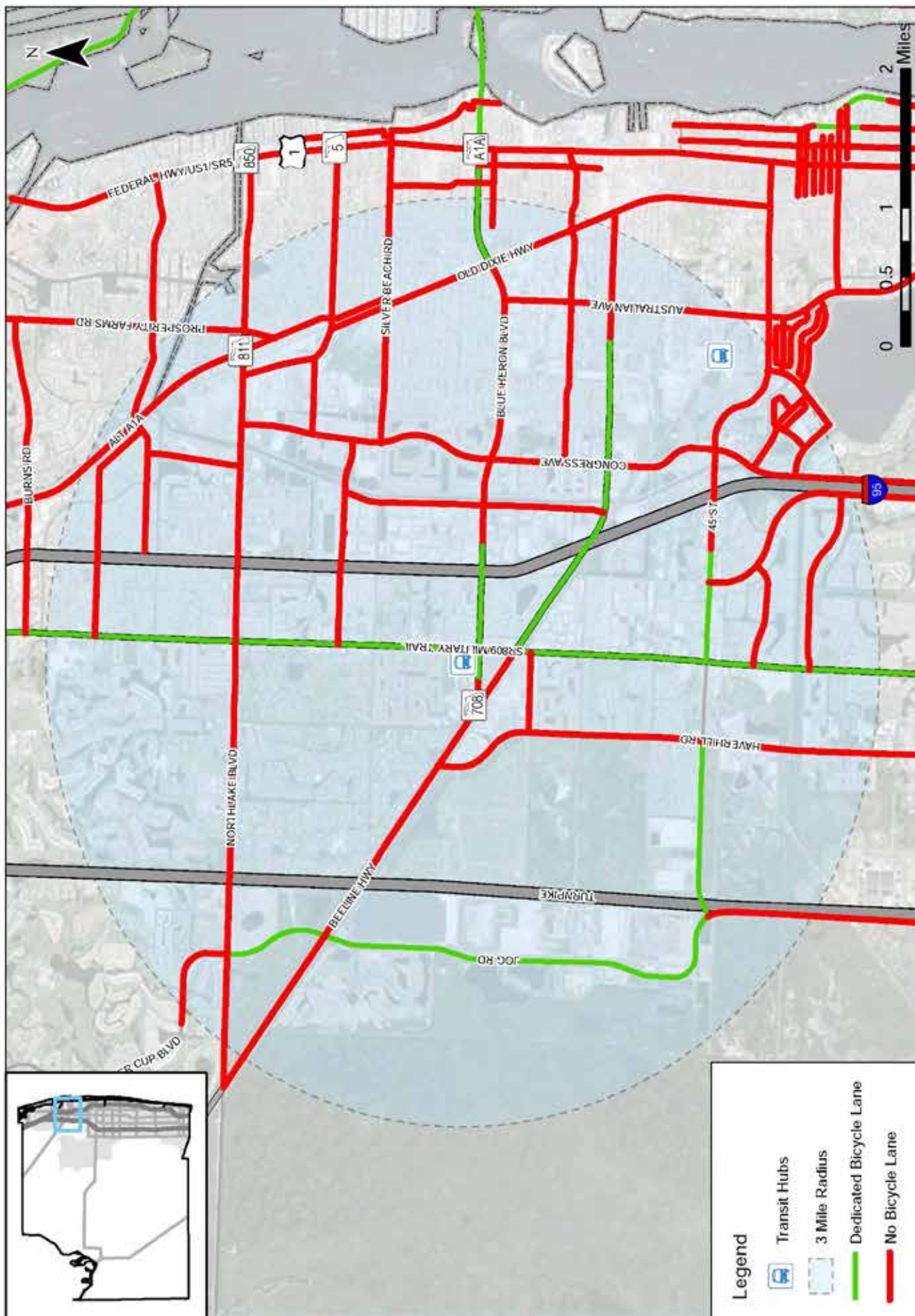
Mangonia Park Tri-Rail Station
Bicycle Inventory Map
Congestion Management Process





The Gardens Mall Bicycle Inventory Map Congestion Management Process



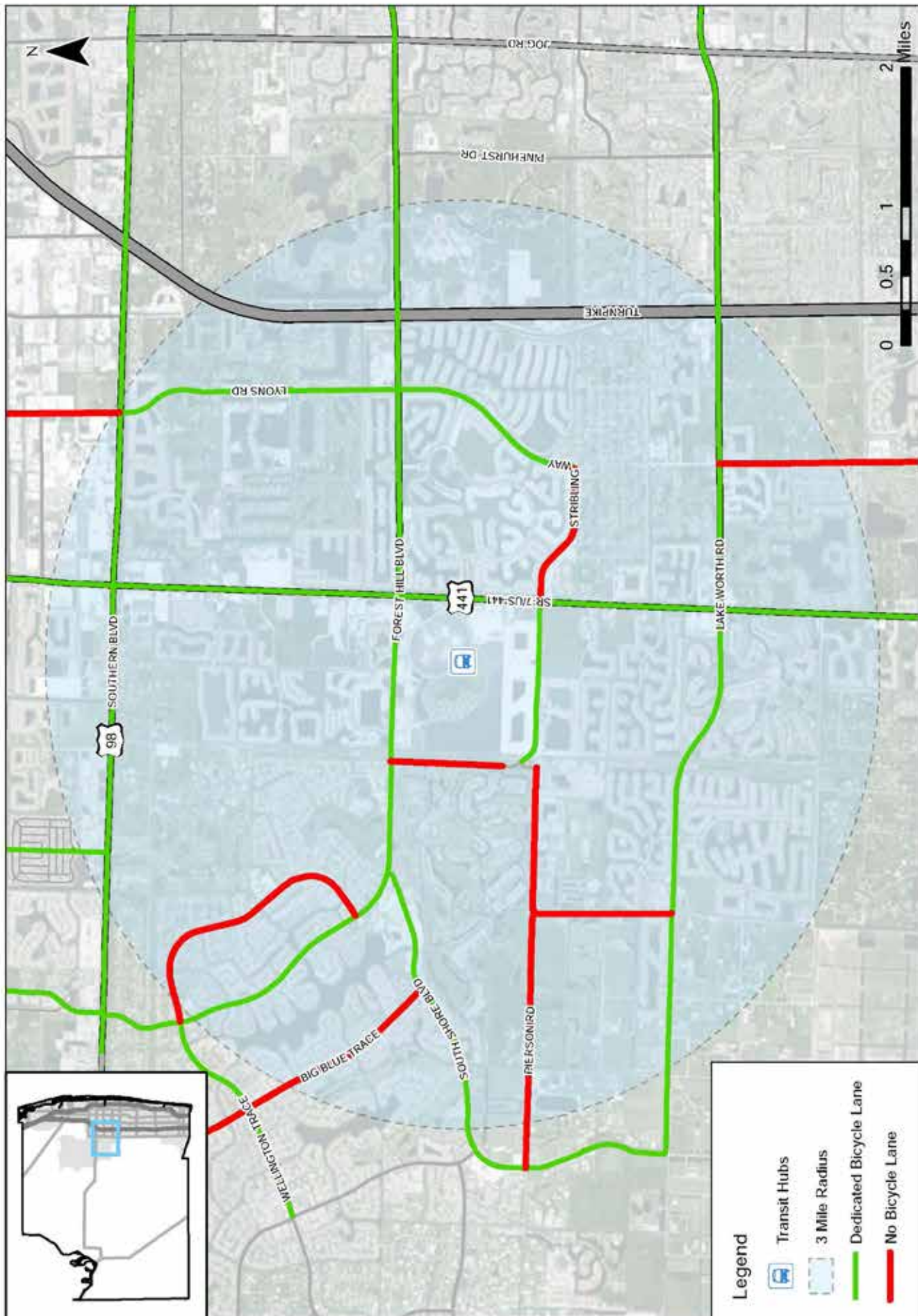


VA Medical Center
Bicycle Inventory Map
Congestion Management Process



KITTELSON & ASSOCIATES, INC.
TRANSPORTATION ENGINEERING/PLANNING



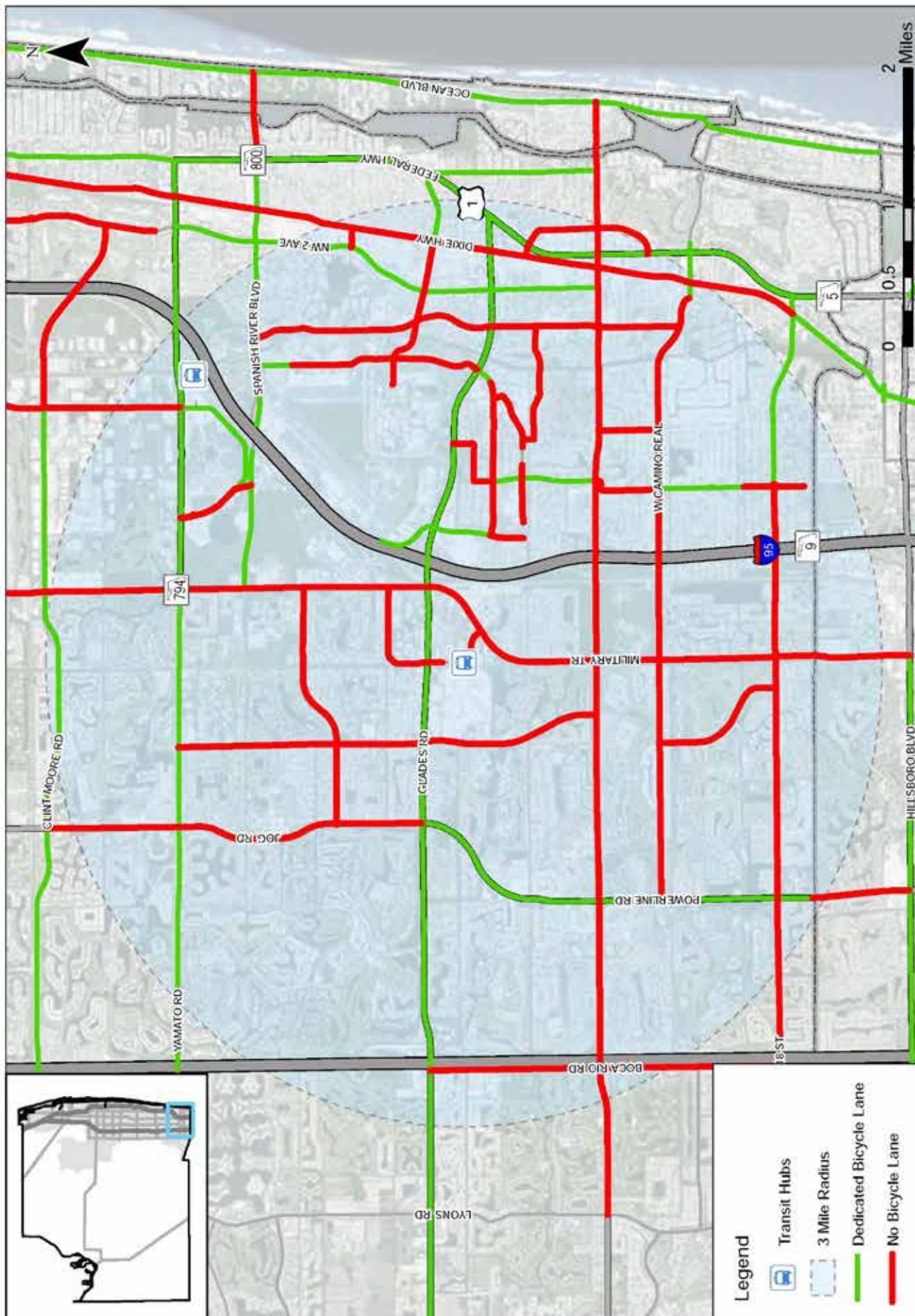


Mall at Wellington Green
Bicycle Inventory Map
Congestion Management Process



KITTELSON & ASSOCIATES, INC.
TRANSPORTATION ENGINEERING/PLANNING





Town Center at Boca Raton Bicycle Inventory Map Congestion Management Process



KITTELSON & ASSOCIATES, INC.
TRANSPORTATION ENGINEERING/PLANNING

APPENDIX F

SIDEWALK GAPS NEAR TRANSIT HUBS



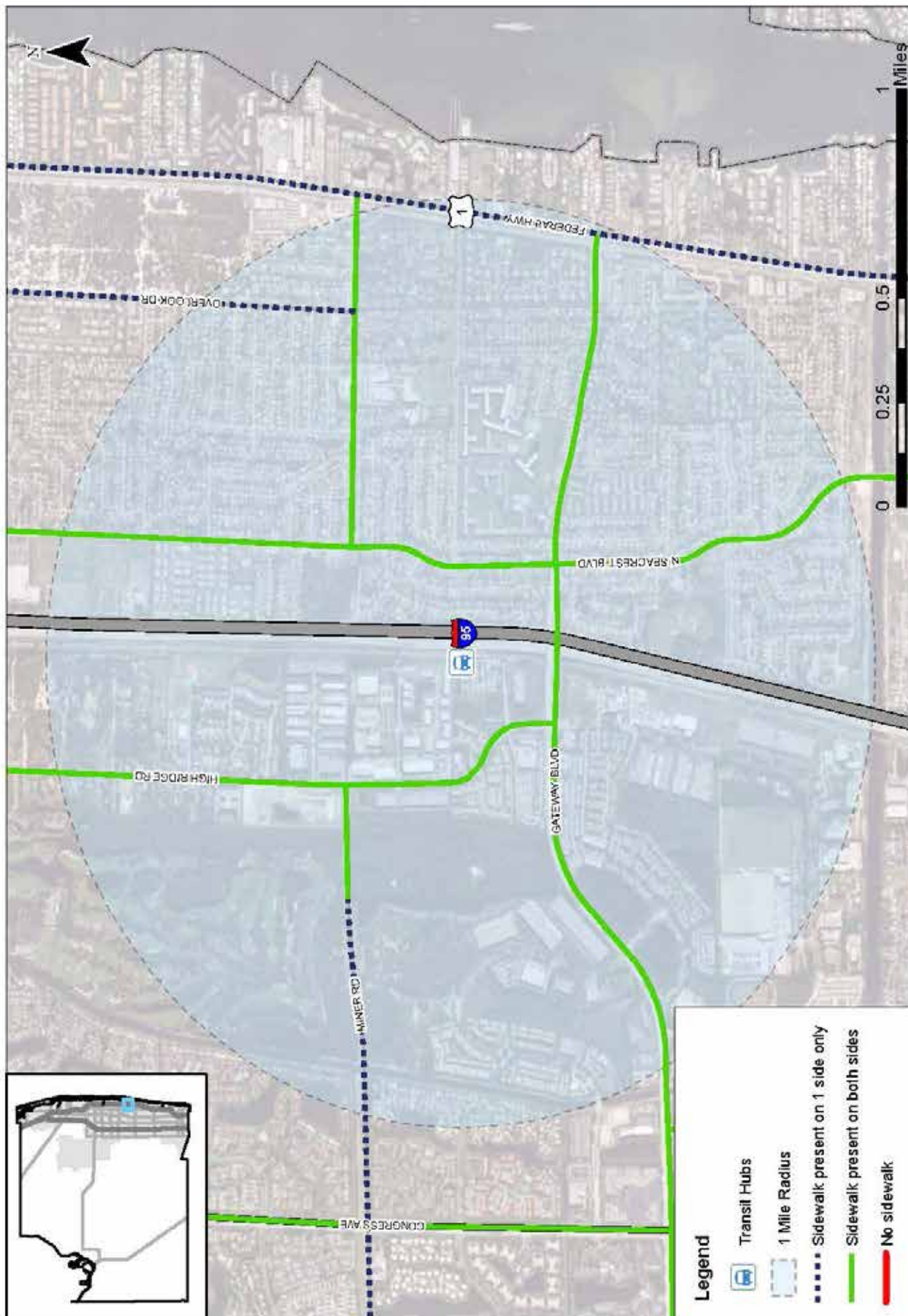
Boca Raton Tri-Rail Station Sidewalk Inventory Map Congestion Management Process





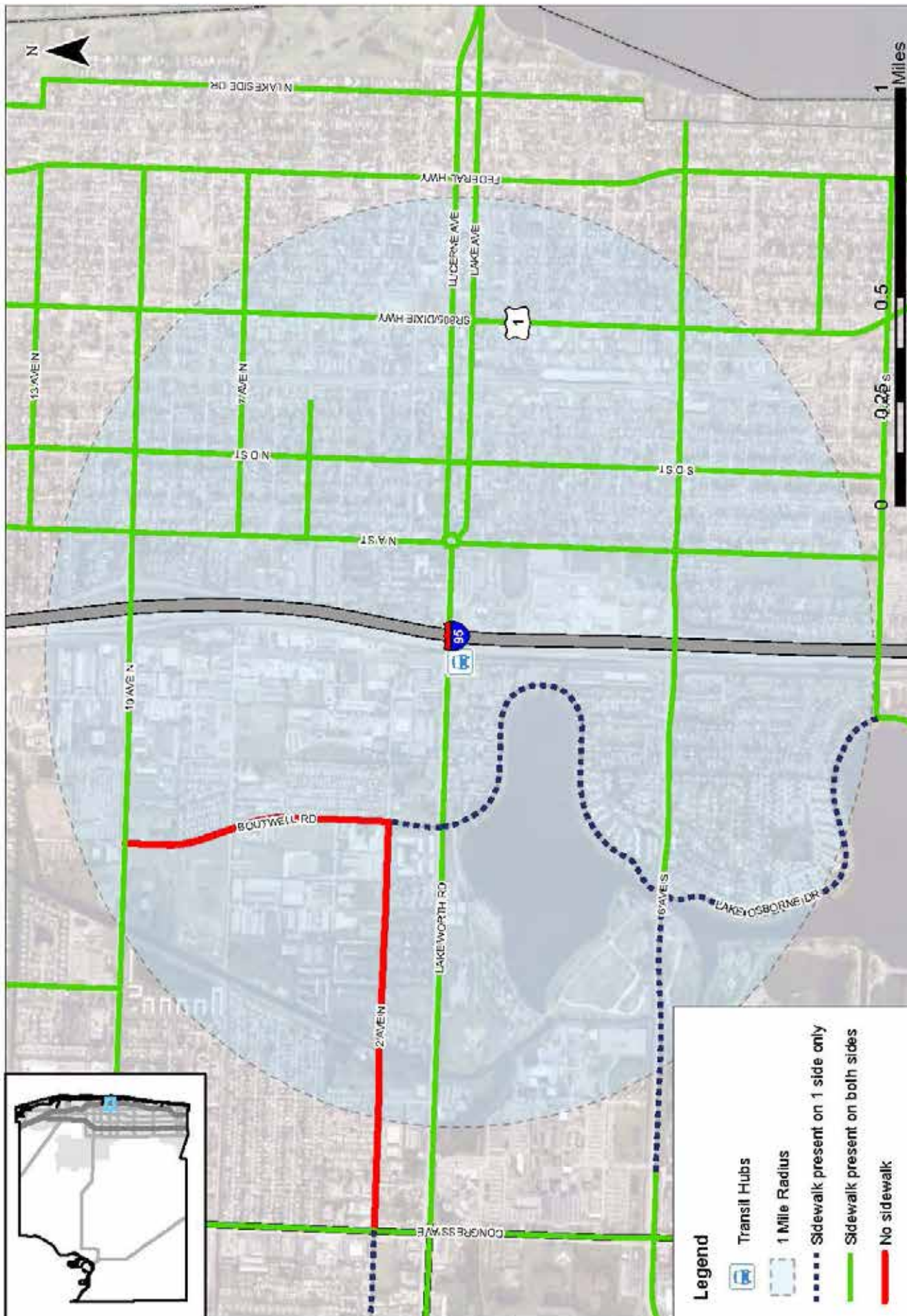
Delray Beach Tri-Rail Station Sidewalk Inventory Map Congestion Management Process





Boynton Beach Tri-Rail Station Sidewalk Inventory Map Congestion Management Process





Lake Worth Tri-Rail Station Sidewalk Inventory Map Congestion Management Process

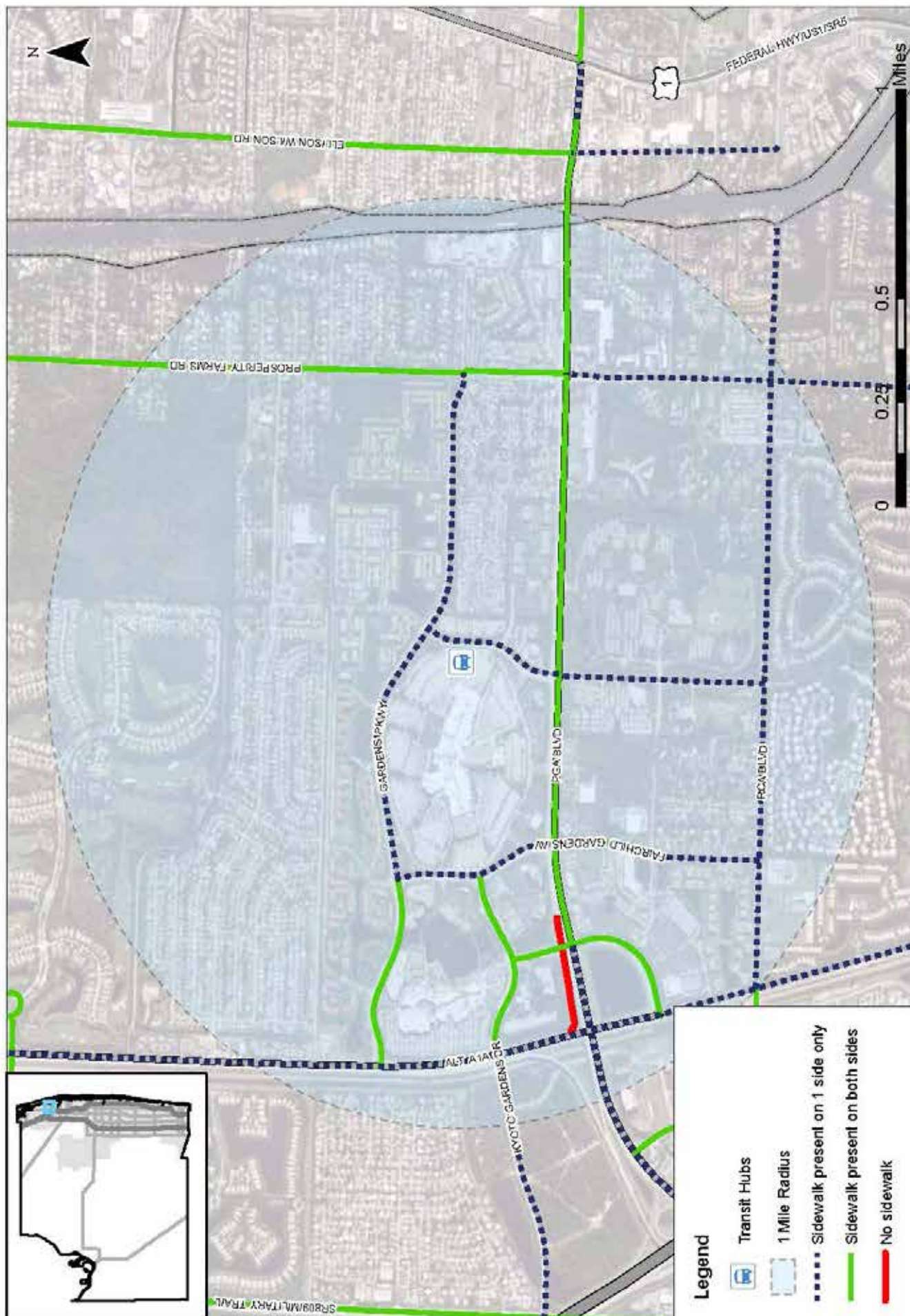




Mangonia Park Tri-Rail Station Sidewalk Inventory Map Congestion Management Process



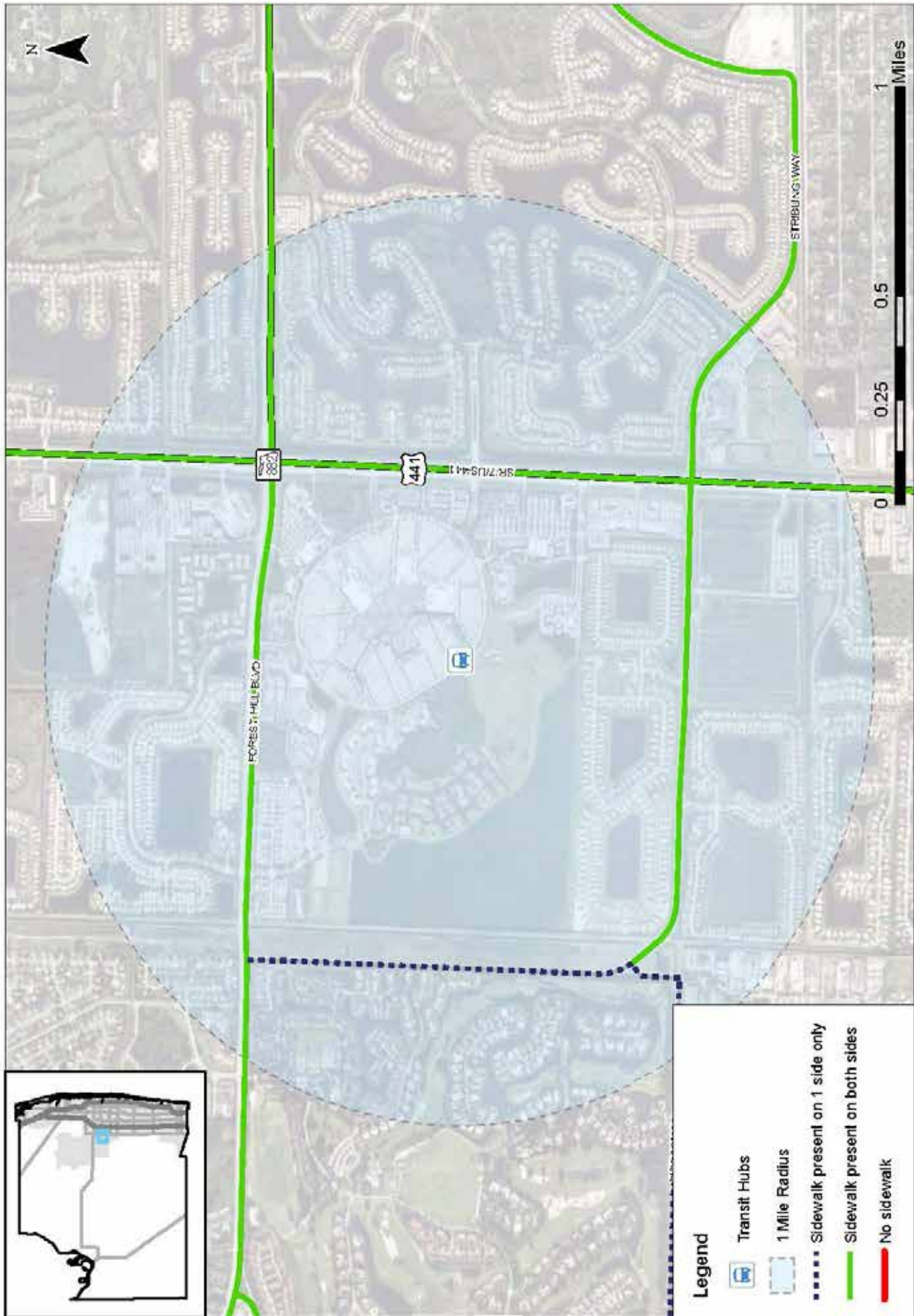
KITTELSON & ASSOCIATES, INC.
TRANSPORTATION ENGINEERING/PLANNING



The Gardens Mall Sidewalk Inventory Map Congestion Management Process

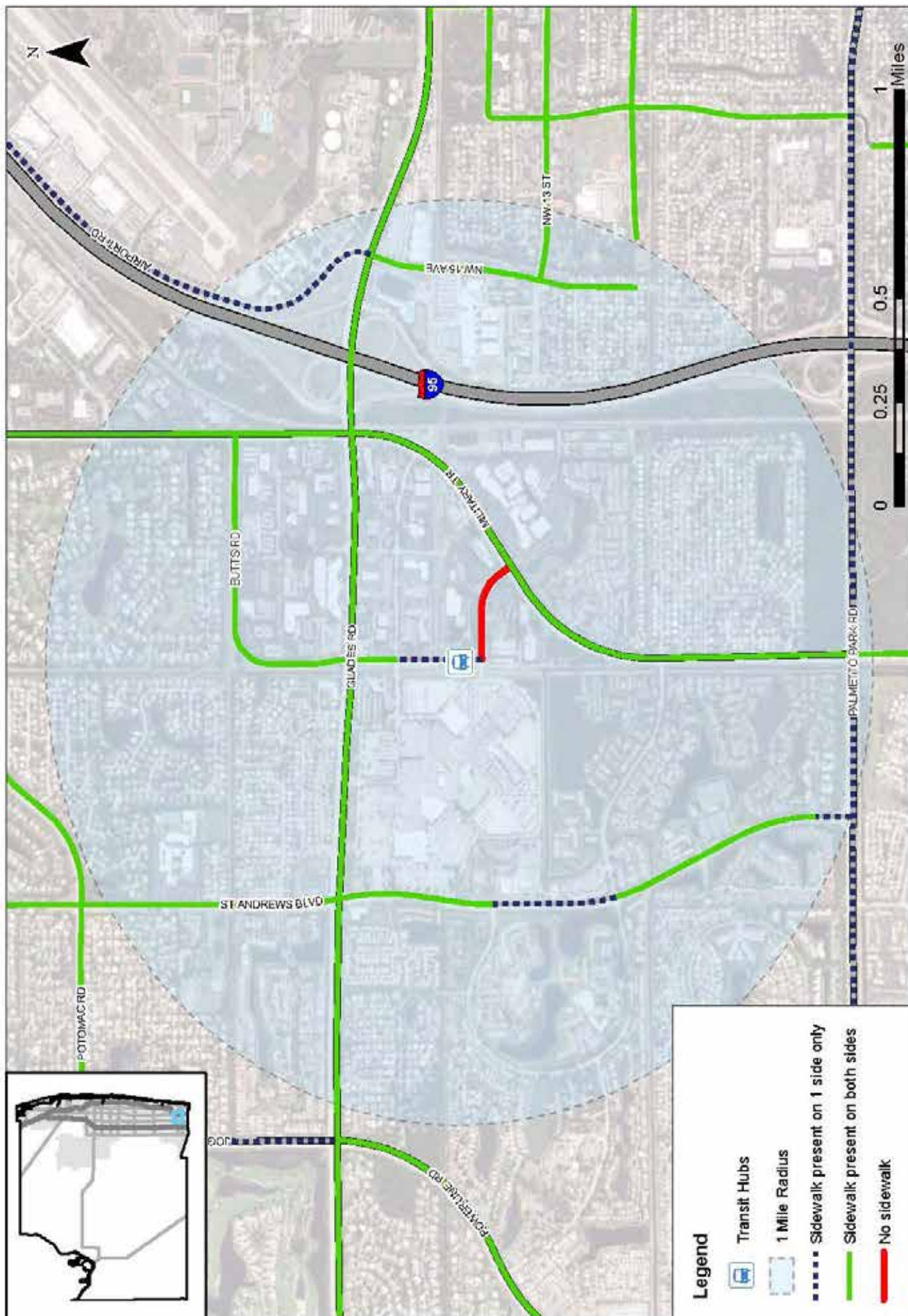






Mall at Wellington Green Sidewalk Inventory Map Congestion Management Process





**Town Center at Boca Raton
Sidewalk Inventory Map
Congestion Management Process**



APPENDIX G

TRUCK ROUTE ANALYSIS WORKSHEETS

2016 Truck Route Analysis

Station	Road	From	To	SIS ROADS AND SIS CONNECTORS	Length (Miles)	2015 Data Source	2015 Lanes	2015 Service Capacity	2015 AADT	2015 V/C	2015 Meet LOS?
4203	10TH AVE N	Congress Ave	I-95	I-95	1.35	Counts4Web	5	33,200	45,255	1.36	No
937275	45TH ST	I-95	Congress Ave	Congress Ave	0.30	FTI	6D	50,300	42,000	0.83	Yes
3843	45TH ST	Congress Ave	Australian Ave	Australian Ave	1.20	Counts4Web	6D	50,300	43,748	0.87	Yes
3801	45TH ST	Australian Ave	Greenwood Ave	Greenwood Ave	0.75	Counts4Web	4D	33,200	28,330	0.85	Yes
3845	45TH ST	Greenwood Ave	Broadway (WPB)	Broadway (WPB)	0.35	Counts4Web	3	15,200	13,429	0.88	Yes
5659	ATLANTIC AVE	Barwick Rd	Congress Ave	Congress Ave	1.35	Counts4Web	6D	50,300	44,038	0.88	Yes
5211	ATLANTIC AVE	Congress Ave	I-95	I-95	0.34	Counts4Web	6D	50,300	49,366	0.88	Yes
5309	ATLANTIC AVE	I-95	8th Ave SW	8th Ave SW	0.47	Counts4Web	4D	33,200	46,557	1.40	No
1101	BEELINE HWY	Martin County Line	Indiantown Rd	Indiantown Rd	1.30	Counts4Web	2	15,200	8,186	0.54	Yes
1401	BEELINE HWY	Indiantown Rd	Pratt-Whitney Rd	Pratt-Whitney Rd	4.80	Counts4Web	2	15,200	6,804	0.43	Yes
1411	BEELINE HWY	Pratt-Whitney Rd	Caloosa	Caloosa	1.85	Counts4Web	4D	33,200	13,905	0.42	Yes
2109	BEELINE HWY	Caloosa	N County Airport	N County Airport	4.50	Counts4Web	4D	33,200	14,180	0.43	Yes
2101	BEELINE HWY	N County Airport	PGA Blvd	PGA Blvd	0.92	Counts4Web	4D	33,200	14,459	0.44	Yes
2403	BEELINE HWY	PGA Blvd	Northlake Blvd	Northlake Blvd	3.60	Counts4Web	4D	33,200	15,237	0.46	Yes
2419	BEELINE HWY	Northlake Blvd	Jog Rd	Jog Rd	1.20	Counts4Web	4D	33,200	21,969	0.66	Yes
2209	BEELINE HWY	Jog Rd	Haverhill Blvd	Haverhill Blvd	1.42	Counts4Web	4D	33,200	25,909	0.78	Yes
2311	BLUE HERON BLVD	I-95	Congress Ave	Congress Ave	0.75	Counts4Web	6D	50,300	49,934	0.99	Yes
4676	BOUTWELL RD	2nd Ave N	10th Av N	10th Av N	0.70	Counts4Web	2	15,200	10,337	0.68	Yes
2618	CONGRESS AVE	MLK Blvd	Blue Heron Blvd	Blue Heron Blvd	0.86	Counts4Web	4D	33,200	19,670	0.59	Yes
971930	FLORIDA TURNPIKE	Broward County Line	Glades Rd	Glades Rd	2.80	FTI	6X	110,300	100,000	0.91	Yes
971934	FLORIDA TURNPIKE	Glades Rd	Atlantic Ave	Atlantic Ave	6.10	FTI	6X	110,300	92,900	0.84	Yes
970413	FLORIDA TURNPIKE	Atlantic Ave	Boynton Beach Blvd	Boynton Beach Blvd	5.20	FTI	6X	110,300	89,022	0.81	Yes
971938	FLORIDA TURNPIKE	Boynton Beach Blvd	Lake Worth Rd	Lake Worth Rd	6.25	FTI	4X	73,600	73,700	1.00	Yes
970504	FLORIDA TURNPIKE	Lake Worth Rd	Southern Blvd	Southern Blvd	4.60	FTI	4X	73,600	73,000	0.99	Yes
971940	FLORIDA TURNPIKE	Southern Blvd	Jog Rd	Jog Rd	1.95	FTI	4X	73,600	69,200	0.94	Yes
971942	FLORIDA TURNPIKE	Jog Rd	Okeechobee Bl	Okeechobee Bl	0.61	FTI	4X	73,600	64,400	0.88	Yes
971944	FLORIDA TURNPIKE	Okeechobee Bl	Beeline Highway	Beeline Highway	6.25	FTI	4X	73,600	64,800	0.88	Yes
971946	FLORIDA TURNPIKE	Beeline Highway	PGA Blvd	PGA Blvd	3.10	FTI	4X	73,600	56,900	0.77	Yes
971950	FLORIDA TURNPIKE	PGA Blvd	Indiantown Rd	Indiantown Rd	7.10	FTI	4X	73,600	44,900	0.61	Yes
970417	FLORIDA TURNPIKE	Indiantown Rd	Martin County Line	Martin County Line	1.30	FTI	4X	73,600	47,259	0.64	Yes
4213	GATEWAY BLVD	High Ridge Rd	I-95	I-95	0.20	Counts4Web	6D	50,300	48,114	0.96	Yes
4648	HIGH RIDGE RD	Gateway Blvd	Hypoluxo Rd	Hypoluxo Rd	1.62	Counts4Web	2	15,200	6,527	0.43	Yes
862507	I-95	Broward County Line	Palmetto Park Rd	Palmetto Park Rd	1.65	FTI	8X	146,500	207,000	1.41	No
862507	I-95	Palmetto Park Rd	Glades Rd	Glades Rd	1.32	FTI	10X	184,000	207,000	1.13	No
932191	I-95	Glades Rd	Yamato Rd	Yamato Rd	2.53	FTI	8X	146,500	173,000	1.18	No
6208	I-95	Yamato Rd	Congress Ave	Congress Ave	1.90	Counts4Web	8X	146,500	214,177	1.46	No
6218	I-95	Congress Ave	Linton Blvd	Linton Blvd	1.32	Counts4Web	10X	184,000	198,246	1.08	Yes
932193	I-95	Linton Blvd	Atlantic Ave	Atlantic Ave	1.58	FTI	10X	184,000	203,000	1.10	No
930198	I-95	Atlantic Ave	Woolbright Rd	Woolbright Rd	3.94	FTI	10X	184,000	195,661	1.06	Yes
932195	I-95	Woolbright Rd	Boynton Beach Blvd	Boynton Beach Blvd	1.10	FTI	10X	184,000	223,000	1.21	No
932196	I-95	Boynton Beach Blvd	Gateway Blvd	Gateway Blvd	1.58	Counts4Web	10X	184,000	232,000	1.26	No
3218	I-95	Gateway Blvd	Hypoluxo Rd	Hypoluxo Rd	1.55	Counts4Web	10X	184,000	213,527	1.16	No
932197	I-95	Hypoluxo Rd	Lantana Rd	Lantana Rd	1.08	FTI	10X	184,000	202,500	1.10	No
4218	I-95	Lantana Rd	6th Ave N	6th Ave N	1.50	Counts4Web	10X	184,000	204,725	1.11	No
4216	I-95	6th Ave N	10th Ave N	10th Ave N	1.36	Counts4Web	10X	184,000	200,011	1.09	Yes
932200	I-95	10th Ave N	Forest Hill Blvd	Forest Hill Blvd	1.94	FTI	10X	184,000	226,000	1.23	No
3216	I-95	Forest Hill Blvd	Southern Blvd	Southern Blvd	1.48	Counts4Web	10X	184,000	240,113	1.30	No

2016 Truck Route Analysis

Station	Road	From	To	SIS ROADS AND SIS CONNECTORS	Length (Miles)	2015 Data Source	2015 Lanes	2015 Service Capacity	2015 AADT	2015 V/C	2015 Meet LOS?
3212 I-95	Southern Blvd			Belvedere Rd	1.04	Counts4Web	10X	184,000	205,661	1.12	No
3210 I-95	Belvedere Rd			Okeechobee Bl	1.20	Counts4Web	10X	184,000	226,407	1.23	No
930174 I-95	Okeechobee Bl			Palm Beach Lakes Blvd	1.24	FTI	10X	184,000	197,639	1.07	Yes
3206 I-95	Palm Beach Lakes Blvd			45th St	2.85	Counts4Web	10X	184,000	216,136	1.17	No
932172 I-95	45th St			Blue Heron Blvd	1.80	FTI	10X	184,000	214,000	1.16	No
932187 I-95	Blue Heron Blvd			Northlake Blvd	1.78	FTI	10X	184,000	160,500	0.87	Yes
2202 I-95	Northlake Blvd			PGA Blvd	2.24	Counts4Web	10X	184,000	161,912	0.88	Yes
932214 I-95	PGA Blvd			Military Tr	0.68	FTI	10X	184,000	121,500	0.66	Yes
2200 I-95	Military Tr			Donald Ross Rd	2.80	Counts4Web	10X	184,000	127,954	0.70	Yes
930217 I-95	Donald Ross Rd			Indiantown Rd	3.85	FTI	10X	184,000	104,991	0.57	Yes
1200 I-95	Indiantown Rd			Martin County Line	1.90	Counts4Web	6X	110,300	79,545	0.72	Yes
2313 MARTIN LUTHER KING JR BLVD	Haverhill Blvd.			Congress Ave.	2.32	Counts4Web	4D	33,200	15,716	0.47	Yes
2841 MARTIN LUTHER KING JR BLVD	Congress Ave.			Australian Ave	1.10	Counts4Web	4D	33,200	17,857	0.54	Yes
2813 MARTIN LUTHER KING JR BLVD	Australian Ave			Old Dixie Hwy	0.64	Counts4Web	2	15,200	7,848	0.52	Yes
3209 OKEECHOBEE BLVD	Congress Ave			I-95	0.68	Counts4Web	8D	67,300	62,293	0.93	Yes
3307 OKEECHOBEE BLVD	I-95			Australian Ave	0.62	Counts4Web	8D	67,300	73,733	1.10	Yes
3813 OKEECHOBEE BLVD	Australian Ave			Tamarind Ave	0.25	Counts4Web	8D	67,300	66,217	0.98	Yes
3302 OLD DIXIE HWY	45th St			MLK Jr Blvd	1.20	Counts4Web	4	33,200	10,785	0.32	Yes
7029 SR-80	US 27			SR 715	1.80	Counts4Web	4D	33,200	19,228	0.58	Yes
7016 SR-80	SR 715			Hooker Hwy	5.20	Counts4Web	4D	33,200	17,318	0.52	Yes
7015 SOUTHERN BLVD	N Main St/Hooker Hwy			Halton Hwy	7.10	Counts4Web	4D	33,200	10,472	0.32	Yes
930019 SOUTHERN BLVD	Halton Hwy			CR 890	11.26	FTI	4	33,200	13,900	0.42	Yes
3101 SOUTHERN BLVD	CR 880			Lion Country Safari	4.00	Counts4Web	4D	33,200	16,177	0.49	Yes
3467 SOUTHERN BLVD	Lion Country Safari			Seminole Pratt Whitney Rd	0.81	Counts4Web	4D	33,200	21,463	0.65	Yes
3443 SOUTHERN BLVD	Seminole Pratt Whitney Rd			Binks Forest Drive	1.20	Counts4Web	4D	33,200	30,197	0.91	Yes
3431 SOUTHERN BLVD	Binks Forest Drive			Big Blue Trace	2.00	Counts4Web	4D	33,200	31,648	0.95	Yes
3413 SOUTHERN BLVD	Big Blue Trace			Forest Hill/Crestwood	0.74	Counts4Web	4D	33,200	46,151	1.39	No
3417 SOUTHERN BLVD	Forest Hill/Crestwood			Cypress Head	0.64	Counts4Web	6D	50,300	57,424	1.14	No
3437 SOUTHERN BLVD	Cypress Head			Royal Palm Beach Blvd	0.42	Counts4Web	6D	50,300	55,995	1.11	No
3409 SOUTHERN BLVD	Royal Palm Beach Blvd.			SR-7	1.75	Counts4Web	8D	67,300	74,163	1.10	No
3415 SOUTHERN BLVD	SR 7			Sansbury's Way	1.12	Counts4Web	8D	67,300	68,835	1.02	Yes
3105 SOUTHERN BLVD	Sansbury's Way			Pike Rd	1.04	Counts4Web	8D	67,300	64,009	0.95	Yes
3223 SOUTHERN BLVD	Fla Turnpike Entrance			Jog Rd	1.38	Counts4Web	8D	67,300	65,967	0.98	Yes
3643 SOUTHERN BLVD	Jog Rd			Haverhill Rd	1.60	Counts4Web	8D	67,300	69,801	1.04	Yes
3637 SOUTHERN BLVD	Haverhill Blvd.			Kirk Rd	1.04	Counts4Web	8D	67,300	68,672	1.02	Yes
3673 SOUTHERN BLVD	Kirk Rd			Congress Ave	1.34	Counts4Web	8D	67,300	65,258	0.97	Yes
3217 SOUTHERN BLVD	Congress Ave			I-95	0.79	Counts4Web	8D	67,300	58,703	0.87	Yes
3313 SOUTHERN BLVD	I-95			Parker Ave	0.43	Counts4Web	8D	67,300	34,484	0.51	Yes
3823 SOUTHERN BLVD	Parker Ave			Dixie Hwy	0.50	Counts4Web	5	33,200	25,426	0.77	Yes
3825 SOUTHERN BLVD	Dixie Hwy			Flagler Dr	0.38	Counts4Web	5	33,200	17,152	0.52	Yes
3827 SOUTHERN BLVD	Flagler Dr			Ocean Blvd	0.67	Counts4Web	2	15,200	14,411	0.95	Yes
7032 US-27	Broward County Line			CR-827	19.40	Counts4Web	4D	33,200	11,906	0.36	Yes
930132 US-27	CR-827			C2 Canal/Wilbur Smith Rd.	3.02	FTI	4	33,200	14,500	0.44	Yes
7030 US-27	C2 Canal/Wilbur Smith Rd.			SR-80	0.82	Counts4Web	4D	33,200	8,860	0.27	Yes
7033 US-27	SR-80			Levee Rd	1.58	Counts4Web	4D	33,200	17,867	0.54	Yes
6611 YAMATO RD	Military Tr			Congress Ave	1.20	Counts4Web	6D	50,300	40,167	0.80	Yes
6303 YAMATO RD	Congress Ave			I-95	0.56	Counts4Web	6D	50,300	46,385	0.92	Yes

2016 Truck Route Analysis

Station	Road	From	To	Length (Miles)	2015 Data Source	2015 Lanes	2015 Service Capacity	2015 AADT	2015 V/C	2015 Meet LOS?
SIS ROADS AND SIS CONNECTORS										

Notes: I-95, Southern (part), US 27(part), Turnpike, and Yamato are 2011 counts

Total	Congested
Miles	Miles
202.90	31.47
SIS Truck Routes:	Percentage
	15.5%

2016 Truck Route Analysis

TRUCK ROUTES IN PALM BEACH OTHER THAN SIS

Station	Road	From	To	Length (Miles)	2015 Data Source	2015 Lanes	2015 Service Capacity	2015 AADT	2015 V/C	2015 Meet LOS?
	Dummy Roads			303.59						
1405	INDIANTOWN RD	Bee Line Hwy	Pratt-Whitney Rd		Counts4Web	2	15,200	1,763	0.12	Yes
1403	INDIANTOWN RD	Pratt-Whitney Rd	130th Ave N		Counts4Web	2	15,200	4,985	0.33	Yes
1408	INDIANTOWN RD	130th Ave N	Alexander Run		Counts4Web	4D	33,200	14,485	0.44	Yes
1407	INDIANTOWN RD	Alexander Run	Jupiter Farms Rd		Counts4Web	4D	33,200	22,332	0.67	Yes
1103	INDIANTOWN RD	Jupiter Farms Rd	Florida Turnpike		Counts4Web	4D	33,200	28,879	0.87	Yes
1201	INDIANTOWN RD	Florida Turnpike	I-95 Interchange		Counts4Web	6D	50,300	48,380	0.96	Yes
1213	INDIANTOWN RD	I-95 Interchange	Island Way	0.64	Counts4Web	6D	50,300	61,281	1.22	No
1617	INDIANTOWN RD	Island Way	Central Blvd	0.34	Counts4Web	6D	50,300	60,253	1.20	No
1203	INDIANTOWN RD	Central Blvd	Center St		Counts4Web	6D	50,300	53,551	1.06	Yes
1601	INDIANTOWN RD	Center St	Military Tr		Counts4Web	6D	50,300	46,587	0.93	Yes
1209	INDIANTOWN RD	Military Tr	SR 811		Counts4Web	6D	50,300	42,614	0.85	Yes
1807	INDIANTOWN RD	SR 811	US 1		Counts4Web	6D	50,300	33,744	0.67	Yes
1811	INDIANTOWN RD	US 1	SR A1A		Counts4Web	4	33,200	16,998	0.51	Yes
2405	PGA BLVD	Bee Line Hwy	Ryder Cup Blvd (Jog Rd)		Counts4Web	2	15,200	3,717	0.24	Yes
2103	PGA BLVD	Ryder Cup Blvd (Jog Rd)	Florida Turnpike		Counts4Web	4D	33,200	26,216	0.79	Yes
2201	PGA BLVD	Florida Turnpike	Central Blvd		Counts4Web	6D	50,300	49,281	0.98	Yes
2608	PGA BLVD	Central Blvd	Military Tr		Counts4Web	6D	50,300	48,298	0.96	Yes
2203	PGA BLVD	Military Tr	I-95		Counts4Web	6D	50,300	47,349	0.94	Yes
2303	PGA BLVD	I-95	SR 811		Counts4Web	8D	67,300	71,477	1.06	Yes
2829	PGA BLVD	SR 811	Gardens Mall	0.58	Counts4Web	6D	50,300	57,047	1.13	No
2805	PGA BLVD	Gardens Mall	Prosperity Farms Rd		Counts4Web	6D	50,300	41,615	0.83	Yes
2803	PGA BLVD	Prosperity Farms Rd	Ellison Wilson Rd		Counts4Web	6D	50,300	41,927	0.83	Yes
2837	PGA BLVD	Ellison Wilson Rd	Federal Hwy		Counts4Web	6D	50,300	28,710	0.57	Yes
2413	NORTHLAKE BLVD	Seminole Pratt Whitney Rd	140th Ave N		Counts4Web	2	15,200	10,450	0.69	Yes
2421	NORTHLAKE BLVD	140th Ave N	Coconut Blvd	1.45	Counts4Web	2	15,200	17,476	1.15	No
2411	NORTHLAKE BLVD	Coconut Blvd	Ibis Rd		Counts4Web	4D	33,200	28,370	0.85	Yes
2407	NORTHLAKE BLVD	Ibis Rd	Beeline Hwy		Counts4Web	4D	33,200	35,364	1.07	Yes
2401	NORTHLAKE BLVD	Beeline Hwy	Ryder Cup Blvd		Counts4Web	6D	50,300	20,782	0.41	Yes
2205	NORTHLAKE BLVD	Ryder Cup Blvd	Steeplechase Dr / Ballen Isles Dr		Counts4Web	6D	50,300	33,499	0.67	Yes
2605	NORTHLAKE BLVD	Steeplechase Dr / Ballen Isles Dr	Military Tr		Counts4Web	6D	50,300	48,126	0.96	Yes
2207	NORTHLAKE BLVD	Military Tr	I-95		Counts4Web	6D	50,300	53,098	1.06	Yes
2309	NORTHLAKE BLVD	I-95	Congress Ave	0.90	Counts4Web	6D	50,300	61,294	1.22	No
2815	NORTHLAKE BLVD	Congress Ave	SR 811		Counts4Web	6D	50,300	45,198	0.90	Yes
2821	NORTHLAKE BLVD	SR 811	Prosperity Farms Rd		Counts4Web	6D	50,300	35,300	0.70	Yes
2817	NORTHLAKE BLVD	Prosperity Farms Rd	Southwind Dr		Counts4Web	6D	50,300	37,157	0.74	Yes
2819	NORTHLAKE BLVD	Southwind Dr	US-1		Counts4Web	6D	50,300	27,771	0.55	Yes
2601	BLUE HERON BLVD	Bee Line Hwy	Military Tr		Counts4Web	4D	33,200	21,790	0.66	Yes
2211	BLUE HERON BLVD	Military Tr	I-95		Counts4Web	6D	50,300	41,754	0.83	Yes
2607	BLUE HERON BLVD	Congress Ave	Australian Ave		Counts4Web	6D	50,300	36,520	0.73	Yes
2823	BLUE HERON BLVD	Australian Ave	Old Dixie Hwy		Counts4Web	6D	50,300	31,650	0.63	Yes
930071	BLUE HERON BLVD	Old Dixie Hwy	US-1/A1A		Counts4Web	5	33,200	17,600	0.53	Yes
3665	45TH ST	Military Tr	Village Blvd		Counts4Web	6D	50,300	42,966	0.85	Yes
3203	45TH ST	Village Blvd	I-95	0.56	Counts4Web	6D	50,300	61,238	1.22	No
937275	45TH ST	I-95	Congress Ave		Counts4Web	6D	50,300	42,000	0.83	Yes
3843	45TH ST	Congress Ave	Australian Ave		Counts4Web	6D	50,300	43,748	0.87	Yes
3801	45TH ST	Australian Ave	Greenwood Ave		Counts4Web	4D	33,200	28,330	0.85	Yes
3845	45TH ST	Greenwood Ave	Broadway (WPB)		Counts4Web	3	15,200	13,429	0.88	Yes

2016 Truck Route Analysis

TRUCK ROUTES IN PALM BEACH OTHER THAN SIS

Station	Road	From	To	Length (Miles)	2015 Data Source	2015 Lanes	2015 Service Capacity	2015 AADT	2015 V/C	2015 Meet LOS?
3601	PALM BEACH LAKES BLVD	Okeechobee Blvd	Village Blvd		Counts4Web	6D	50,300	31,624	0.63	Yes
3205	PALM BEACH LAKES BLVD	Village Blvd	I-95	0.63	Counts4Web	6D	50,300	57,087	1.13	No
3303	PALM BEACH LAKES BLVD	I-95	PB Mall Main Entrance		Counts4Web	6D	50,300	58,499	1.16	No
3808	PALM BEACH LAKES BLVD	PB Mall Main Entrance	Congress Ave	0.33	Counts4Web	6D	50,300	44,795	0.89	Yes
3847	PALM BEACH LAKES BLVD	Congress Ave	Australian Ave		Counts4Web	6D	50,300	42,040	0.84	Yes
3811	PALM BEACH LAKES BLVD	Australian Ave	Tamarind Ave		Counts4Web	4D	33,200	32,081	0.97	Yes
3807	PALM BEACH LAKES BLVD	Tamarind Ave	Dixie Hwy		Counts4Web	4D	33,200	22,076	0.66	Yes
3419	OKEECHOBEE BLVD	Seminole Pratt Whitney Rd	E Rd		Counts4Web	2	15,200	8,971	0.59	Yes
3451	OKEECHOBEE BLVD	E Rd	Crestwood Blvd		Counts4Web	2	15,200	14,757	0.97	Yes
3411	OKEECHOBEE BLVD	Crestwood Blvd	Royal Palm Beach Blvd		Counts4Web	4D	33,200	29,304	0.88	Yes
3453	OKEECHOBEE BLVD	Royal Palm Beach Blvd	Wildcat Way		Counts4Web	6D	50,300	44,458	0.88	Yes
3401	OKEECHOBEE BLVD	Wildcat Way	SR-7		Counts4Web	8D	67,300	42,735	0.63	Yes
3403	OKEECHOBEE BLVD	SR-7	Sansbury's Way		Counts4Web	8D	67,300	49,462	0.73	Yes
3441	OKEECHOBEE BLVD	Sansbury's Way	Benoist Farms Rd		Counts4Web	8D	67,300	52,426	0.78	Yes
3439	OKEECHOBEE BLVD	Benoist Farms Rd	Skees Rd		Counts4Web	8D	67,300	62,215	0.92	Yes
3449	OKEECHOBEE BLVD	Skees Rd	Jog Rd		Counts4Web	8D	67,300	62,333	0.93	Yes
930696	OKEECHOBEE BLVD	Jog Rd	Florida Turnpike		FTI	8D	67,300	59,000	0.88	Yes
3207	OKEECHOBEE BLVD	Florida Turnpike	Haverhill Rd		Counts4Web	8D	67,300	68,421	1.02	Yes
3671	OKEECHOBEE BLVD	Haverhill Rd	Military Tr		Counts4Web	8D	67,300	68,767	1.02	Yes
3633	OKEECHOBEE BLVD	Military Tr	Palm Beach Lakes Blvd		Counts4Web	8D	67,300	69,188	1.03	Yes
3603	OKEECHOBEE BLVD	Palm Beach Lakes Blvd	Congress Ave		Counts4Web	8D	67,300	46,996	0.70	Yes
3209	OKEECHOBEE BLVD	Congress Ave	I-95		Counts4Web	8D	67,300	62,293	0.93	Yes
3307	OKEECHOBEE BLVD	I-95	Australian Ave		Counts4Web	8D	67,300	73,733	1.10	Yes
3813	OKEECHOBEE BLVD	Australian Ave	Tamarind Ave		Counts4Web	8D	67,300	66,217	0.98	Yes
3837	OKEECHOBEE BLVD	Tamarind Ave	Dixie Hwy		Counts4Web	8D	67,300	48,783	0.72	Yes
3657	SUMMIT BLVD	Jog Rd	Haverhill Rd		Counts4Web	4D	33,200	11,893	0.36	Yes
3611	SUMMIT BLVD	Haverhill Rd	Military Tr		Counts4Web	5	33,200	21,105	0.64	Yes
3613	SUMMIT BLVD	Military Tr	Kirk Rd		Counts4Web	5	33,200	21,366	0.64	Yes
3615	SUMMIT BLVD	Kirk Rd	Davis Rd		Counts4Web	5	33,200	20,332	0.61	Yes
3617	SUMMIT BLVD	Davis Rd	Congress Ave		Counts4Web	5	33,200	22,896	0.69	Yes
3619	SUMMIT BLVD	Congress Ave	Florida Mango Rd		Counts4Web	5	33,200	12,801	0.39	Yes
3621	SUMMIT BLVD	Florida Mango Rd	I-95		Counts4Web	5	33,200	11,122	0.34	Yes
3423	FOREST HILL BLVD	SR-7	Lyons Rd		Counts4Web	6D	50,300	37,209	0.74	Yes
3221	FOREST HILL BLVD	Lyons Rd	Pinehurst Dr		Counts4Web	6D	50,300	36,125	0.72	Yes
3668	FOREST HILL BLVD	Pinehurst Dr	Jog Rd		Counts4Web	6D	50,300	42,563	0.85	Yes
3636	FOREST HILL BLVD	Jog Rd	Sherwood Forest Blvd		Counts4Web	6D	50,300	37,786	0.75	Yes
3667	FOREST HILL BLVD	Sherwood Forest Blvd	Haverhill Rd		Counts4Web	6D	50,300	41,136	0.82	Yes
3625	FOREST HILL BLVD	Haverhill Rd	Military Tr		Counts4Web	6D	50,300	43,254	0.86	Yes
3627	FOREST HILL BLVD	Military Tr	Kirk Rd		Counts4Web	6D	50,300	41,933	0.83	Yes
3629	FOREST HILL BLVD	Kirk Rd	Congress Ave		Counts4Web	6D	50,300	42,266	0.84	Yes
3219	FOREST HILL BLVD	Congress Ave	I-95		Counts4Web	6D	50,300	43,813	0.87	Yes
3317	FOREST HILL BLVD	I-95	Parker Ave		Counts4Web	5	33,200	27,796	0.84	Yes
3831	FOREST HILL BLVD	Parker Ave	Dixie Hwy		Counts4Web	5	33,200	19,467	0.59	Yes
4603	10TH AVENUE	Military Tr	Kirk Rd		Counts4Web	5	33,200	26,370	0.79	Yes
4653	10TH AVENUE	Kirk Rd	Congress Ave		Counts4Web	5	33,200	31,960	0.96	Yes
4401	LAKE WORTH RD	SR 7	Lyons Rd		Counts4Web	6D	50,300	38,065	0.76	Yes
4103	LAKE WORTH RD	Lyons Rd	Florida Turnpike		Counts4Web	6D	50,300	42,333	0.84	Yes
4201	LAKE WORTH RD	Florida Turnpike	Pinehurst Dr		Counts4Web	6D	50,300	39,166	0.78	Yes

2016 Truck Route Analysis

TRUCK ROUTES IN PALM BEACH OTHER THAN SIS

Station	Road	From	To	Length (Miles)	2015 Data Source	2015 Lanes	2015 Service Capacity	2015 AADT	2015 V/C	2015 Meet LOS?
4645	LAKE WORTH RD	Pinehurst Dr	Jog Rd		Counts4Web	6D	50,300	46,028	0.92	Yes
4609	LAKE WORTH RD	Jog Rd	Sherwood Forest Blvd		Counts4Web	6D	50,300	45,661	0.91	Yes
4673	LAKE WORTH RD	Sherwood Forest Blvd	Haverhill Rd		Counts4Web	6D	50,300	41,210	0.82	Yes
4627	LAKE WORTH RD	Haverhill Rd	Military Tr		Counts4Web	6D	50,300	44,371	0.88	Yes
4611	LAKE WORTH RD	Military Tr	Kirk Rd		Counts4Web	6D	50,300	42,951	0.85	Yes
4647	LAKE WORTH RD	Kirk Rd	Congress Ave		Counts4Web	6D	50,300	38,415	0.76	Yes
4651	LAKE WORTH RD	Congress Ave	Boutwell Rd		Counts4Web	4D	33,200	23,415	0.71	Yes
4305	LAKE WORTH RD	Boutwell Rd	Lake/Lucerne Split		Counts4Web	4	33,200	25,497	0.77	Yes
4817	LAKE WORTH RD	Lake/Lucerne Split	US-1		Counts4Web	3	15,200	8,385	0.55	Yes
4815	LAKE WORTH RD	US-1	Federal Hwy		Counts4Web	2	15,200	8,410	0.55	Yes
4801	LAKE WORTH RD	Federal Hwy	A1A		Counts4Web	4	33,200	16,111	0.49	Yes
4403	LANTANA RD	SR-7	Lyons Rd		Counts4Web	4D	33,200	15,574	0.47	Yes
4207	LANTANA RD	Lyons Rd	Hagen Ranch Rd		Counts4Web	4D	33,200	25,977	0.78	Yes
4669	LANTANA RD	Hagen Ranch Rd	Jog Rd		Counts4Web	6D	50,300	32,219	0.64	Yes
4619	LANTANA RD	Jog Rd	Haverhill Rd		Counts4Web	6D	50,300	35,845	0.71	Yes
4675	LANTANA RD	Haverhill Rd	Military Tr		Counts4Web	6D	50,300	42,602	0.85	Yes
4605	LANTANA RD	Military Tr	Lawrence Rd		Counts4Web	6D	50,300	41,854	0.83	Yes
4665	LANTANA RD	Lawrence Rd	Congress Ave		Counts4Web	6D	50,300	47,054	0.94	Yes
4623	LANTANA RD	Congress Ave	High Ridge Rd		Counts4Web	6D	50,300	41,390	0.82	Yes
4209	LANTANA RD	High Ridge Rd	I-95	0.29	Counts4Web	4D	33,200	43,805	1.32	No
4311	LANTANA RD	I-95	Redding Dr	0.28	Counts4Web	5	33,200	37,424	1.13	No
4807	LANTANA RD	Redding Dr	Federal Hwy		Counts4Web	5	33,200	19,392	0.58	Yes
4649	GATEWAY BLVD	Military Tr	Lawrence Rd		Counts4Web	6D	50,300	23,948	0.48	Yes
4625	GATEWAY BLVD	Lawrence Rd	Congress Ave		Counts4Web	6D	50,300	31,071	0.62	Yes
4667	GATEWAY BLVD	Congress Ave	High Ridge Rd		Counts4Web	6D	50,300	36,655	0.73	Yes
4213	GATEWAY BLVD	High Ridge Rd	I-95		Counts4Web	6D	50,300	48,114	0.96	Yes
4315	GATEWAY BLVD	I-95	Seacrest Blvd		Counts4Web	6D	50,300	26,287	0.52	Yes
930301	GATEWAY BLVD	Seacrest Blvd	US-1	0.72	FTI	3	15,200	24,500	1.61	No
5401	BOYNTON BEACH BLVD	SR 7	Lyons Rd		Counts4Web	4D	33,200	15,242	0.46	Yes
5103	BOYNTON BEACH BLVD	Lyons Rd	Turnpike		Counts4Web	6D	50,300	37,476	0.75	Yes
5201	BOYNTON BEACH BLVD	Turnpike	Hagen Ranch Rd		Counts4Web	6D	50,300	46,955	0.93	Yes
5641	BOYNTON BEACH BLVD	Hagen Ranch Rd	Jog Rd		Counts4Web	6D	50,300	41,813	0.83	Yes
5633	BOYNTON BEACH BLVD	Jog Rd	El Clair Ranch Rd		Counts4Web	6D	50,300	39,735	0.79	Yes
5611	BOYNTON BEACH BLVD	El Clair Ranch Rd	Military Tr		Counts4Web	6D	50,300	45,350	0.90	Yes
5613	BOYNTON BEACH BLVD	Military Tr	Lawrence Rd		Counts4Web	6D	50,300	37,509	0.75	Yes
5601	BOYNTON BEACH BLVD	Lawrence Rd	Congress Ave		Counts4Web	6D	50,300	40,732	0.81	Yes
5615	BOYNTON BEACH BLVD	Congress Ave	Old Boynton Rd		Counts4Web	6D	50,300	34,792	0.69	Yes
5203	BOYNTON BEACH BLVD	Old Boynton Rd	I-95		Counts4Web	6D	50,300	47,876	0.95	Yes
5301	BOYNTON BEACH BLVD	I-95	Seacrest Blvd		Counts4Web	5	33,200	35,624	1.07	Yes
5807	BOYNTON BEACH BLVD	Seacrest Blvd	US-1		Counts4Web	4	33,200	18,570	0.56	Yes
5205	WOOLBRIGHT RD	Congress Ave	I-95		Counts4Web	6D	50,300	45,772	0.91	Yes
5303	WOOLBRIGHT RD	I-95	US-1	0.82	Counts4Web	5	33,200	43,615	1.31	No
5403	ATLANTIC AVE	SR 7	Lyons Rd		Counts4Web	2	15,200	16,435	1.08	Yes
5101	ATLANTIC AVE	Lyons Rd	Turnpike		Counts4Web	4D	33,200	29,886	0.90	Yes
935208	ATLANTIC AVE	Turnpike	Hagen Ranch Rd		FTI	4	33,200	34,000	1.02	Yes
5643	ATLANTIC AVE	Hagen Ranch Rd	Jog Rd	1.01	Counts4Web	4D	33,200	36,572	1.10	No
5631	ATLANTIC AVE	Jog Rd	El Clair Ranch Rd		Counts4Web	6D	50,300	40,737	0.81	Yes
5637	ATLANTIC AVE	El Clair Ranch Rd	Military Tr		Counts4Web	6D	50,300	44,644	0.89	Yes

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TRUCK ROUTES IN PALM BEACH OTHER THAN SIS

Station	Road	From	To	Length (Miles)	2015 Data Source	2015 Lanes	2015 Service Capacity	2015 AADT	2015 V/C	2015 Meet LOS?
5609	ATLANTIC AVE	Military Tr	Barwick Rd		Counts4Web	6D	50,300	41,810	0.83	Yes
5659	ATLANTIC AVE	Barwick Rd	Congress Ave		Counts4Web	6D	50,300	44,038	0.88	Yes
5211	ATLANTIC AVE	Congress Ave	I-95		Counts4Web	6D	50,300	49,366	0.98	Yes
5308	ATLANTIC AVE	I-95	8th Ave SW	0.46	Counts4Web	4D	33,200	46,557	1.40	No
5815	ATLANTIC AVE	8th Ave SW	Swinton Ave		Counts4Web	4D	33,200	27,464	0.83	Yes
5817	ATLANTIC AVE	Swinton Ave	US-1		Counts4Web	2	15,200	12,015	0.79	Yes
5635	LINTON BLVD	Jog Rd	Sim Rd		Counts4Web	4D	33,200	29,366	0.88	Yes
5625	LINTON BLVD	Sim Rd	Military Tr		Counts4Web	6D	50,300	28,587	0.57	Yes
5607	LINTON BLVD	Military Tr	Homewood Blvd		Counts4Web	6D	50,300	39,497	0.79	Yes
5661	LINTON BLVD	Homewood Blvd	Congress Ave		Counts4Web	6D	50,300	39,159	0.78	Yes
5213	LINTON BLVD	Congress Ave	I-95		Counts4Web	6D	50,300	42,863	0.85	Yes
5313	LINTON BLVD	I-95	10th Ave SW		Counts4Web	6D	50,300	48,617	0.97	Yes
5819	LINTON BLVD	10th Ave SW	Old Dixie Hwy		Counts4Web	6D	50,300	40,279	0.80	Yes
5821	LINTON BLVD	Old Dixie Hwy	US 1		Counts4Web	6D	50,300	32,088	0.64	Yes
6421	YAMATO RD	SR 7	Lyons Rd		Counts4Web	4D	33,200	21,475	0.65	Yes
6103	YAMATO RD	Lyons Rd	Boca West Dr		Counts4Web	4D	33,200	30,620	0.92	Yes
6631	YAMATO RD	Boca West Dr	Jog Rd		Counts4Web	6D	50,300	35,434	0.70	Yes
6611	YAMATO RD	Jog Rd	Military Tr		Counts4Web	6D	50,300	40,167	0.80	Yes
6603	YAMATO RD	Military Tr	Congress Ave		Counts4Web	8D	67,300	47,121	0.70	Yes
6203	YAMATO RD	Congress Ave	I-95		Counts4Web	8D	67,300	57,990	0.86	Yes
6303	YAMATO RD	I-95	Dixie Hwy		Counts4Web	6D	50,300	46,385	0.92	Yes
6807	YAMATO RD	Dixie Hwy	Federal Hwy		Counts4Web	6D	50,300	28,913	0.57	Yes
6605	SPANISH RIVER BLVD	Military Tr	IBM Access		Counts4Web	4	33,200	29,285	0.88	Yes
6305	SPANISH RIVER BLVD	IBM Access	Perimeter Rd		Counts4Web	4	33,200	27,823	0.84	Yes
6811	SPANISH RIVER BLVD	Perimeter Rd	Old Dixie Hwy		Counts4Web	4D	33,200	22,555	0.68	Yes
6813	SPANISH RIVER BLVD	Old Dixie Hwy	Federal Hwy		Counts4Web	4D	33,200	18,750	0.56	Yes
6405	PALMETTO PARK RD	SR-7	Lyons Rd		Counts4Web	6D	50,300	32,587	0.65	Yes
6425	PALMETTO PARK RD	Lyons Rd	Boca Rio Rd		Counts4Web	6D	50,300	43,242	0.86	Yes
6211	PALMETTO PARK RD	Boca Rio Rd	Powerline Rd		Counts4Web	6D	50,300	47,717	0.95	Yes
6617	PALMETTO PARK RD	Powerline Rd	St Andrews Blvd		Counts4Web	6D	50,300	44,178	0.88	Yes
6608	PALMETTO PARK RD	St Andrews Blvd	Military Tr		Counts4Web	6D	50,300	55,317	1.10	Yes
6208	PALMETTO PARK RD	Military Tr	I-95	0.67	Counts4Web	6D	50,300	62,319	1.24	No
6308	PALMETTO PARK RD	I-95	12th St	0.43	Counts4Web	6D	50,300	59,816	1.19	No
6871	PALMETTO PARK RD	12th St	Boca Raton Blvd	1.32	Counts4Web	4D	33,200	37,862	1.14	No
6873	PALMETTO PARK RD	Boca Raton Blvd	Old Dixie Hwy		Counts4Web	4D	33,200	33,796	1.02	Yes
6873	PALMETTO PARK RD	Old Dixie Hwy	US-1		Counts4Web	4D	33,200	33,796	1.02	Yes
3420	SEMINOLE PRATT-WHITNEY RD	Southern Blvd	Okeechobee Blvd		Counts4Web	4D	33,200	14,153	0.43	Yes
3424	SEMINOLE PRATT-WHITNEY RD	Okeechobee Blvd	Sycamore Dr E		Counts4Web	4D	33,200	18,026	0.54	Yes
3442	SEMINOLE PRATT-WHITNEY RD	Sycamore Dr E	60TH ST N		Counts4Web	4D	33,200	16,772	0.51	Yes
2408	SEMINOLE PRATT-WHITNEY RD	60TH ST N	Orange Bl		Counts4Web	4D	33,200	13,600	0.41	Yes
2406	SEMINOLE PRATT-WHITNEY RD	Orange Bl	Northlake Blvd		Counts4Web	2	15,200	11,577	0.76	Yes
6110	SR-7	Broward County Line	SW 18 St		Counts4Web	6D	50,300	51,985	1.03	Yes
6414	SR-7	SW 18 St	Palmetto Park Rd		Counts4Web	6D	50,300	52,909	1.05	Yes
6400	SR-7	Palmetto Park Rd	Glades Rd	1.25	Counts4Web	6D	50,300	57,771	1.15	No
6402	SR-7	Glades Rd	Yamato Rd		Counts4Web	6D	50,300	45,141	0.90	Yes
6412	SR-7	Yamato Rd	Clint Moore Rd		Counts4Web	6D	50,300	36,321	0.72	Yes
6102	SR-7	Clint Moore Rd	Winner's Cir		Counts4Web	6D	50,300	28,306	0.56	Yes
5404	SR-7	Winner's Cir	W Atlantic Ave		Counts4Web	4D	33,200	27,414	0.83	Yes

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Station	Road	From	To	Length (Miles)	2015 Data Source	2015 Lanes	2015 Service Capacity	2015 AADT	2015 V/C	2015 Meet LOS?
5400	SR-7	W Atlantic Ave	Lee Rd		Counts4Web	4D	33,200	24,509	0.74	Yes
5402	SR-7	Lee Rd	Boynton Beach Blvd		Counts4Web	4D	33,200	23,191	0.70	Yes
5102	SR-7	Boynton Beach Blvd	Hypoluxo Rd		Counts4Web	6D	50,300	27,687	0.55	Yes
4402	SR-7	Hypoluxo Rd	Lantana Rd		Counts4Web	6D	50,300	31,450	0.63	Yes
4400	SR-7	Lantana Rd	Lake Worth Rd		Counts4Web	6D	50,300	41,210	0.82	Yes
4406	SR-7	Lake Worth Rd	Stribling Way		Counts4Web	8D	67,300	65,398	0.97	Yes
4102	SR-7	Stribling Way	Forest Hill Blvd		Counts4Web	8D	67,300	49,645	0.74	Yes
3452	SR-7	Forest Hill Blvd	Pioneer Rd		Counts4Web	8D	67,300	58,868	0.87	Yes
3408	SR-7	Pioneer Rd	Southern Blvd		Counts4Web	8D	67,300	56,643	0.84	Yes
930020	JOG RD	Broward County Line	Glades Rd		FTI	4D	33,200	26,500	0.80	Yes
6618	JOG RD	Glades Rd	Potomac Rd		Counts4Web	4D	33,200	33,018	0.99	Yes
6634	JOG RD	Potomac Rd	Yamato Rd		Counts4Web	4D	33,200	33,030	0.99	Yes
6616	JOG RD	Yamato Rd	Clint Moore Rd		Counts4Web	6D	50,300	35,206	0.70	Yes
6200	JOG RD	Clint Moore Rd	C-15 Canal		Counts4Web	6D	50,300	33,990	0.68	Yes
5622	JOG RD	C-15 Canal	Linton Blvd		Counts4Web	6D	50,300	33,918	0.67	Yes
5620	JOG RD	Linton Blvd	Normandy Ln		Counts4Web	6D	50,300	38,158	0.76	Yes
5616	JOG RD	Normandy Ln	Atlantic Ave		Counts4Web	6D	50,300	41,228	0.82	Yes
5642	JOG RD	Atlantic Ave	Lake Ida Rd		Counts4Web	6D	50,300	31,958	0.64	Yes
5648	JOG RD	Lake Ida Rd	Flavor Pict Rd		Counts4Web	6D	50,300	24,867	0.49	Yes
5656	JOG RD	Flavor Pict Rd	Pipers Glen Blvd		Counts4Web	6D	50,300	24,221	0.48	Yes
5640	JOG RD	Pipers Glen Blvd	Woolbright Rd		Counts4Web	6D	50,300	25,487	0.51	Yes
5644	JOG RD	Woolbright Rd	Boynton Beach Blvd		Counts4Web	6D	50,300	28,403	0.56	Yes
5200	JOG RD	Boynton Beach Blvd	Gateway Blvd		Counts4Web	6D	50,300	33,181	0.66	Yes
4660	JOG RD	Gateway Blvd	Le Chalet Blvd		Counts4Web	6D	50,300	37,759	0.75	Yes
4640	JOG RD	Le Chalet Blvd	Hypoluxo Rd		Counts4Web	6D	50,300	41,103	0.82	Yes
4670	JOG RD	Hypoluxo Rd	Winston Trails Bl		Counts4Web	6D	50,300	35,642	0.71	Yes
4628	JOG RD	Winston Trails Bl	Lantana Rd		Counts4Web	6D	50,300	36,500	0.73	Yes
4612	JOG RD	Lantana Rd	Melealeuca Ln		Counts4Web	6D	50,300	37,599	0.75	Yes
4634	JOG RD	Melealeuca Ln	Lake Worth Rd		Counts4Web	6D	50,300	43,082	0.86	Yes
4616	JOG RD	Lake Worth Rd	10th Ave N		Counts4Web	6D	50,300	38,550	0.77	Yes
4204	JOG RD	10th Ave N	Forest Hill Blvd		Counts4Web	6D	50,300	44,233	0.88	Yes
3650	JOG RD	Forest Hill Blvd	Summit Blvd		Counts4Web	6D	50,300	39,544	0.79	Yes
3624	JOG RD	Summit Blvd	Southern Blvd		Counts4Web	6D	50,300	36,684	0.73	Yes
3220	JOG RD	Belvedere Rd	Turnpike Int		Counts4Web	6D	50,300	25,922	0.52	Yes
3104	JOG RD	Turnpike Int	Okeechobee Blvd		Counts4Web	6D	50,300	29,044	0.58	Yes
6620	ST ANDREWS BLVD	Palmetto Park Rd	Glades Rd		Counts4Web	4D	33,200	23,129	0.70	Yes
6610	ST ANDREWS BLVD	Glades Rd	Potomac Rd		Counts4Web	4D	33,200	20,425	0.62	Yes
6624	ST ANDREWS BLVD	Potomac Rd	Yamato Rd		Counts4Web	4D	33,200	15,326	0.46	Yes
6612	MILITARY TRL	Butts Rd	Spanish River Blvd		Counts4Web	6D	50,300	44,394	0.88	Yes
6612	MILITARY TRL	Spanish River Blvd	Yamato Rd		Counts4Web	6D	50,300	44,394	0.88	Yes
6630	MILITARY TRL	Yamato Rd	Clint Moore Rd		Counts4Web	6D	50,300	41,903	0.83	Yes
6202	MILITARY TRL	Clint Moore Rd	Linton Blvd		Counts4Web	6D	50,300	36,976	0.74	Yes
5618	MILITARY TRL	Linton Blvd	Atlantic Ave		Counts4Web	6D	50,300	39,592	0.79	Yes
5606	MILITARY TRL	Atlantic Ave	Lake Ida Rd		Counts4Web	6D	50,300	45,250	0.90	Yes
5652	MILITARY TRL	Lake Ida Rd	Flavor Pict Rd		Counts4Web	6D	50,300	35,479	0.71	Yes
5614	MILITARY TRL	Flavor Pict Rd	Woolbright Rd		Counts4Web	6D	50,300	33,656	0.67	Yes
5608	MILITARY TRL	Woolbright Rd	Boynton Beach Blvd		Counts4Web	6D	50,300	31,271	0.62	Yes
5202	MILITARY TRL	Boynton Beach Blvd	Gateway Blvd		Counts4Web	6D	50,300	34,595	0.69	Yes

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Station	Road	From	To	Length (Miles)	2015 Data Source	2015 Lanes	2015 Service Capacity	2015 AADT	2015 V/C	2015 Meet LOS?
4636	MILITARY TRL	Gateway Blvd	Hypoluxo Rd		Counts4Web	6D	50,300	33,709	0.67	Yes
4608	MILITARY TRL	Hypoluxo Rd	Lantana Rd		Counts4Web	6D	50,300	30,811	0.61	Yes
4632	MILITARY TRL	Lantana Rd	Melaleuca Ln		Counts4Web	6D	50,300	37,727	0.75	Yes
4602	MILITARY TRL	Melaleuca Ln	Lake Worth Rd		Counts4Web	6D	50,300	36,403	0.72	Yes
4618	MILITARY TRL	Lake Worth Rd	10th Ave N		Counts4Web	6D	50,300	41,244	0.82	Yes
4650	MILITARY TRL	10th Ave N	Cresthaven Blvd		Counts4Web	6D	50,300	43,454	0.86	Yes
4208	MILITARY TRL	Cresthaven Blvd	Forest Hill Blvd		Counts4Web	6D	50,300	45,554	0.91	Yes
3642	MILITARY TRL	Forest Hill Blvd	Summit Blvd		Counts4Web	6D	50,300	42,197	0.84	Yes
3664	MILITARY TRL	Summit Blvd	Gun Club Rd		Counts4Web	6D	50,300	43,230	0.86	Yes
3612	MILITARY TRL	Gun Club Rd	Southern Blvd		Counts4Web	6D	50,300	39,773	0.79	Yes
3628	MILITARY TRL	Southern Blvd	Belvedere Rd		Counts4Web	6D	50,300	44,116	0.88	Yes
3648	MILITARY TRL	Belvedere Rd	Westgate Ave		Counts4Web	6D	50,300	45,916	0.91	Yes
3602	MILITARY TRL	Westgate Ave	Okeechobee Bl		Counts4Web	6D	50,300	37,728	0.75	Yes
3616	MILITARY TRL	Okeechobee Bl	Roebuck Rd		Counts4Web	6D	50,300	36,386	0.72	Yes
3628	MILITARY TRL	Roebuck Rd	45th St		Counts4Web	6D	50,300	33,587	0.67	Yes
2612	MILITARY TRL	SR-710	Blue Heron Blvd		Counts4Web	6D	50,300	31,994	0.64	Yes
2614	MILITARY TRL	Blue Heron Blvd	Investment Lane		Counts4Web	6D	50,300	28,801	0.57	Yes
2602	MILITARY TRL	Investment Lane	Northlake Blvd		Counts4Web	6D	50,300	32,036	0.64	Yes
2600	MILITARY TRL	Northlake Blvd	Holly Dr		Counts4Web	6D	50,300	40,246	0.80	Yes
2608	MILITARY TRL	Holly Dr	PGA Blvd		Counts4Web	6D	50,300	40,379	0.80	Yes
2624	MILITARY TRL	PGA Blvd	I-95		Counts4Web	6D	50,300	36,533	0.73	Yes
2604	MILITARY TRL	I-95	Hood Rd		Counts4Web	6D	50,300	27,257	0.54	Yes
2208	MILITARY TRL	Hood Rd	Donald Ross Rd		Counts4Web	6D	50,300	24,568	0.49	Yes
1602	MILITARY TRL	Donald Ross Rd	Frederick Small Rd		Counts4Web	6D	50,300	34,822	0.69	Yes
1608	MILITARY TRL	Frederick Small Rd	Indian Creek Blvd		Counts4Web	6D	50,300	29,706	0.59	Yes
1600	MILITARY TRL	Indian Creek Blvd	Indian Creek Blvd		Counts4Web	6D	50,300	24,049	0.48	Yes
937220	OLD DIXIE HWY	PGA Blvd	SR-811/Beach Rd	7.73	FTI	6D	50,300	41,000	0.82	Yes
1806	OLD DIXIE HWY	SR-811/Beach Rd	Tequesta Dr	0.48	Counts4Web	4	33,200	13,519	0.41	Yes
1814	OLD DIXIE HWY	Tequesta Dr	County Line Rd	0.89	Counts4Web	2	15,200	6,781	0.45	Yes
5630	CONGRESS AVE	Atlantic Ave	Lake Ida Rd		Counts4Web	6D	50,300	34,768	0.69	Yes
5602	CONGRESS AVE	Lake Ida Rd	35th Ave SW		Counts4Web	6D	50,300	30,608	0.61	Yes
5626	CONGRESS AVE	35th Ave SW	Golf Rd		Counts4Web	6D	50,300	36,139	0.72	Yes
5624	CONGRESS AVE	Golf Rd	Woolbright Rd		Counts4Web	6D	50,300	37,827	0.75	Yes
5610	CONGRESS AVE	Woolbright Rd	Boynton Beach Blvd		Counts4Web	6D	50,300	33,549	0.67	Yes
5658	CONGRESS AVE	Boynton Beach Blvd	Old Boynton Rd		Counts4Web	6D	50,300	38,263	0.76	Yes
5208	CONGRESS AVE	Old Boynton Rd	Gateway Blvd		Counts4Web	6D	50,300	36,914	0.73	Yes
4610	CONGRESS AVE	Gateway Blvd	Hypoluxo Rd		Counts4Web	6D	50,300	28,960	0.58	Yes
4600	CONGRESS AVE	Hypoluxo Rd	Lantana Rd		Counts4Web	4D	33,200	23,246	0.70	Yes
4624	CONGRESS AVE	Lantana Rd	JFK Dr		Counts4Web	6D	50,300	35,206	0.70	Yes
4626	CONGRESS AVE	JFK Dr	6th Ave S		Counts4Web	6D	50,300	35,163	0.70	Yes
4622	CONGRESS AVE	6th Ave S	Lake Worth Rd		Counts4Web	6D	50,300	35,712	0.71	Yes
4620	CONGRESS AVE	Lake Worth Rd	French Ave		Counts4Web	6D	50,300	35,400	0.70	Yes
4604	CONGRESS AVE	French Ave	10th Ave N		Counts4Web	6D	50,300	38,733	0.77	Yes
4210	CONGRESS AVE	10th Ave N	Forest Hill Blvd		Counts4Web	6D	50,300	34,955	0.69	Yes
3644	CONGRESS AVE	Forest Hill Blvd	Summit Blvd		Counts4Web	6D	50,300	26,658	0.53	Yes
3674	CONGRESS AVE	Summit Blvd	Gun Club Rd		Counts4Web	6D	50,300	33,418	0.66	Yes
3618	CONGRESS AVE	Gun Club Rd	Southern Blvd		Counts4Web	6D	50,300	33,642	0.67	Yes
3658	AUSTRALIAN AVE	Southern Blvd	PBIA (Turnage Blvd)		Counts4Web	6D	50,300	34,707	0.69	Yes

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TRUCK ROUTES IN PALM BEACH OTHER THAN SIS										
Station	Road	From	To	Length (Miles)	2015 Data Source	2015 Lanes	2015 Service Capacity	2015 AADT	2015 V/C	2015 Meet LOS?
3610	AUSTRALIAN AVE	PBJA (Turnage Blvd)	Belvedere Rd		Counts4Web	6D	50,300	33,550	0.67	Yes
3309	AUSTRALIAN AVE	Belvedere Rd	Okeechobee Bl		Counts4Web	4D	33,200	28,309	0.85	Yes
3850	AUSTRALIAN AVE	Okeechobee Bl	Banyan Blvd		Counts4Web	6D	50,300	33,703	0.67	Yes
3924	AUSTRALIAN AVE	Banyan Blvd	Palm Beach Lakes Blvd		Counts4Web	4D	33,200	23,397	0.70	Yes
3820	AUSTRALIAN AVE	Palm Beach Lakes Blvd	15th St		Counts4Web	4D	33,200	27,794	0.84	Yes
3816	AUSTRALIAN AVE	15th St	25th St		Counts4Web	4D	33,200	27,149	0.82	Yes
3810	AUSTRALIAN AVE	25th St	36th St		Counts4Web	4D	33,200	23,335	0.70	Yes
3802	AUSTRALIAN AVE	36th St	45th St		Counts4Web	4D	33,200	24,939	0.75	Yes
2306	AUSTRALIAN AVE	45th St	Port Rd (SR 710)		Counts4Web	4D	33,200	16,813	0.51	Yes
2834	AUSTRALIAN AVE	Port Rd (SR 710)	Blue Heron Blvd		Counts4Web	4D	33,200	13,636	0.41	Yes
6312	FEDERAL HWY	PBC / Broward County Line	SW 18th St		Counts4Web	6D	50,300	32,482	0.65	Yes
6828	FEDERAL HWY	SW 18th St	Camino Real		Counts4Web	6D	50,300	28,115	0.56	Yes
6810	FEDERAL HWY	Camino Real	Palmetto Park Rd		Counts4Web	4D	33,200	28,120	0.85	Yes
6808	FEDERAL HWY	Palmetto Park Rd	Mizner Blvd		Counts4Web	6D	50,300	33,388	0.66	Yes
6806	FEDERAL HWY	Mizner Blvd	Glades Rd		Counts4Web	6D	50,300	33,388	0.66	Yes
6804	FEDERAL HWY	Glades Rd	20th St NW		Counts4Web	4D	33,200	32,118	0.97	Yes
6814	FEDERAL HWY	20th St NW	Spanish River Blvd		Counts4Web	4D	33,200	34,790	1.05	Yes
6802	FEDERAL HWY	Spanish River Blvd	Yamato Rd		Counts4Web	4D	33,200	35,125	1.06	Yes
6858	FEDERAL HWY	Yamato Rd	Hidden Valley Blvd		Counts4Web	4D	33,200	30,238	0.91	Yes
6306	FEDERAL HWY	Hidden Valley Blvd	Lindell Blvd		Counts4Web	4D	33,200	27,759	0.84	Yes
5840	FEDERAL HWY	Lindell Blvd	Linton Blvd		Counts4Web	4D	33,200	33,670	1.01	Yes
5838	FEDERAL HWY	Linton Blvd	Lowson Blvd		Counts4Web	4D	33,200	30,226	0.91	Yes
5844	US-1	Lowson Blvd	Atlantic Ave		Counts4Web	3	15,200	14,363	0.94	Yes
5830	US-1	Atlantic Ave	George Bush Blvd		Counts4Web	3	15,200	11,974	0.79	Yes
930260	US-1	George Bush Blvd	23rd Ave		FTI	4D	33,200	21,500	0.65	Yes
5822	FEDERAL HWY	23rd Ave	Woolbright Rd		Counts4Web	4D	33,200	31,183	0.94	Yes
5818	FEDERAL HWY	Woolbright Rd	Ocean Ave		Counts4Web	4D	33,200	23,462	0.71	Yes
5816	FEDERAL HWY	Ocean Ave	Boynton Beach Blvd		Counts4Web	4D	33,200	25,806	0.78	Yes
5304	FEDERAL HWY	Boynton Beach Blvd	Gateway Blvd		Counts4Web	4D	33,200	20,564	0.62	Yes
4826	FEDERAL HWY	Gateway Blvd	Miner Rd		Counts4Web	4D	33,200	17,159	0.52	Yes
930251	FEDERAL HWY	Miner Rd	Hypoluxo Rd		FTI	4D	33,200	15,300	0.46	Yes
4818	FEDERAL HWY	Hypoluxo Rd	E Ocean Ave		Counts4Web	5	33,200	21,647	0.65	Yes
935061	FEDERAL HWY	E Ocean Ave	6th Ave S		FTI	5	33,200	19,200	0.58	Yes
4802	FEDERAL HWY	6th Ave S	Lucerne Ave		Counts4Web	2	15,200	10,693	0.70	Yes
935065	FEDERAL HWY	Lucerne Ave	Park Ave		FTI	4	33,200	20,400	0.61	Yes
2800	US-1	Park Ave	Northlake Blvd		Counts4Web	4D	33,200	25,989	0.78	Yes
2832	US-1	Northlake Blvd	Lighthouse Dr		Counts4Web	6D	50,300	29,136	0.58	Yes
2838	US-1	Lighthouse Dr	PGA Blvd		Counts4Web	4D	33,200	27,529	0.83	Yes

Summary:

Total Congested		
Miles	Miles	Percentage
325.37	12.68	3.9%
528.27	44.15	8.4%

Other Truck Routes:
Total Truck Routes:

