



RESCHEDULED REGULAR BOARD MEETING

Wednesday, September 6, 2023
 2:00 pm

Public Participation/Accessibility

Participation in Person: Public comments may be provided in person at the meeting. Persons who require special accommodations under the Americans with Disabilities Act (ADA) or persons who require translation services (free of charge) should contact the St. Lucie TPO at 772-462-1593 at least five days prior to the meeting. Persons who are hearing or speech impaired may use the Florida Relay System by dialing 711.

Participation by Webconference: Using a computer or smartphone, register at <https://attendee.gotowebinar.com/register/8338415143475681622>. After the registration is completed, a confirmation will be emailed containing instructions for joining the webconference. Public comments may be provided through the webconference chatbox during the meeting.

Written and Telephone Comments: Comment by email to TPOAdmin@stlucieco.org; by regular mail to the St. Lucie TPO, 466 SW Port St. Lucie Boulevard, Suite 111, Port St. Lucie, Florida 34953; or call 772-462-1593 until 1:00 pm on September 6, 2023.

AGENDA

1. Call to Order
2. Pledge of Allegiance
3. Roll Call
4. Comments from the Public
5. Comments from Advisory Committee Members (TAC/CAC/BPAC)
6. Approval of Agenda
7. Approval of Meeting Summary
 - *June 7, 2023 Regular Board Meeting*
8. Consent Agenda
 - 8a. Amendment to the FY 2023/24 – FY 2027/28 Transportation Improvement Program (TIP): Notification of an administrative amendment to the TIP to incorporate the 2023 Roll Forward Report.

Action: Accept or do not accept.

- 8b. Unified Planning Work Program (UPWP) Tasks and Budget and Grants Mid-Term Reviews: Mid-term reviews of the UPWP tasks and budget and the grants administered by the TPO.

Action: Accept or do not accept.

9. Action Items

- 9a. **Executive Director's Performance Review:** Review of the Executive Director's performance for FY 2022/23.

Action: Approve the Executive Director's Performance Review, approve with conditions, or do not approve.

- 9b. East Midway Road Corridor Study: Presentation of the draft East Midway Road Corridor Study.

Action: Accept the draft East Midway Road Corridor Study, accept with conditions, or do not accept.

- 9c. Sustainable Transportation Plan: Presentation of the draft Sustainable Transportation Plan.

Action: Accept the draft Sustainable Transportation Plan, accept with conditions, or do not accept.

- 9d. 2024 Legislative Priorities: Adoption of the proposed Legislative Priorities for the St. Lucie TPO for 2024.

Action: Adopt the proposed priorities, adopt with conditions, or do not adopt.

- 9e. Advanced Air Mobility (AAM) Study Phase 2 Scope of Services: Approval of the draft Scope of Services for Phase 2 of the AAM Study.

Action: Approve the draft Scope of Services, approve with conditions, or do not approve.

- 9f. Congestion Management Process (CMP) Major Update Scope of Services: Approval of the CMP Major Update draft Scope of Services.

Action: Approve the draft Scope of Services, approve with conditions, or do not approve.

- 9g. Decennial Apportionment Review: Decennial apportionment review of the Board membership specified by Florida Statutes and requested by the Florida Department of Transportation.

Action: Confirm the current Board apportionment or approve an Apportionment Plan or confirm or approve with conditions.

10. FDOT Comments
11. Recommendations/Comments by Members
12. TPO Staff Comments
13. Next Meeting: The next St. Lucie TPO Board Meeting is a regular meeting scheduled for 2:00 pm on Wednesday, October 25, 2023.
14. Adjourn

NOTICES

The St. Lucie TPO satisfies the requirements of various nondiscrimination laws and regulations including Title VI of the Civil Rights Act of 1964. Public participation is welcome without regard to race, color, national origin, age, sex, religion, disability, income, or family status. Persons wishing to express their concerns about nondiscrimination should contact Marceia Lathou, the Title VI/ADA Coordinator of the St. Lucie TPO, at 772-462-1593 or via email at lathoum@stlucieco.org.

Items not included on the agenda may also be heard in consideration of the best interests of **the public's health, safety, welfare, and as necessary to protect every person's right of access**. If any person decides to appeal any decision made by the St. Lucie TPO with respect to any matter considered at this meeting, that person shall need a record of the proceedings, and for such a purpose, that person may need to ensure that a verbatim record of the proceedings is made which includes the testimony and evidence upon which the appeal is to be based.

Kreyòl Ayisyen: Si ou ta renmen resevwa enfòmasyon sa a nan lang Kreyòl Ayisyen, tanpri rele nimewo 772-462-1593.

Español: Si usted desea recibir esta información en español, por favor llame al 772-462-1593.



Coco Vista Centre
466 SW Port St. Lucie Blvd. Suite 111
Port St. Lucie, Florida 34953
772-462-1593 www.stlucietpo.org

REGULAR BOARD MEETING

DATE: Wednesday, June 7, 2023
 TIME: 2:00 pm
 LOCATION: St. Lucie TPO
 Coco Vista Centre
 466 SW Port St. Lucie Boulevard, Suite 111
 Port St. Lucie, Florida

MEETING SUMMARY

1. Call to Order

Chairwoman Morgan called the meeting to order at 2:00 pm.

2. Pledge of Allegiance

Chairwoman Morgan led the Pledge of Allegiance.

3. Roll Call

The roll was called and a quorum was confirmed with eight members present.

Members Present

Councilwoman Stephanie Morgan, Chair
 Commissioner Chris Dzadoovsky, Vice Chair
 Robert Driscoll
 Commissioner Jamie Fowler
 Jack Kelly
 Commissioner Larry Leet
 Councilman David Pickett
 Commissioner Cathy Townsend

Representing

City of Port St. Lucie
 St. Lucie County
 Community Transit
 St. Lucie County
 St. Lucie Public Schools
 St. Lucie County
 City of Port St. Lucie
 St. Lucie County

Others Present

Kyle Bowman
 Peter Buchwald
 Yi Ding
 Marceia Lathou
 Rachel Harrison
 James Brown
 Adolfo Covelli
 Patrick Dayan

Joe DeFronzo

Christine Fasiska

Kris Kehres
 Edwin Molinary
 Jennifer Shipley (via web)
 Heath Stocton

Srin Varanasi
 Ricardo Vasquez (via web)

Representing

St. Lucie TPO
 St. Lucie TPO
 St. Lucie TPO
 St. Lucie TPO
 Recording Specialist
 Florida's Turnpike
 St. Lucie County Transit
 St. Lucie County Public
 Works
 City of Port St. Lucie
 Public Works
 Florida Department of
 Transportation (FDOT)
 FDOT
 St. Lucie County Transit
 FDOT
 City of Port St. Lucie
 Public Works
 Corradino Group
 Martin Metropolitan
 Planning Organization

- 4. Comments from the Public – None.
- 5. Comments from Advisory Committee Members (TAC/CAC/BPAC) – None.
- 6. Approval of Agenda
 - * MOTION by Commissioner Townsend to approve the agenda.
 - ** SECONDED by Councilman Pickett Carried UNANIMOUSLY
- 7. Approval of Meeting Summary
 - April 12, 2023 Regular Board Meeting
 - * MOTION by Commissioner Townsend to approve the Meeting Summary.
 - ** SECONDED by Councilman Pickett Carried UNANIMOUSLY

8. Consent Agenda

8a. Transportation Disadvantaged (TD) Planning Grant Application and Resolution 23-03: Adoption of Resolution 23-03 authorizing the execution of the TD Planning Grant Application for FY 2023/24.

At Chairwoman Morgan's request, Ms. Harrison read the resolution out loud.

* MOTION by Commissioner Townsend to approve the Consent Agenda.

** SECONDED by Vice Chairman Dzadoovsky Carried UNANIMOUSLY

9. Action Items

9a. Pavement, Bridge, and System Performance Targets: Adoption of Pavement, Bridge, and System Performance Targets for the TPO.

Mr. Buchwald introduced Mr. Ding, who explained that recent legislation aimed at ensuring efficient investment of Federal transportation funds had established three Performance Measure (PM) rules to monitor Safety (PM1), Bridge and Pavement (PM2), and System Performance (PM3). Mr. Ding indicated that state Departments of Transportation were required to establish statewide targets, which MPOs could either support or forego in favor of adopting their own quantifiable targets. He noted that FDOT had established PM2 and PM3 Targets for 2022-2025 in December 2022, and that the TPO had until mid-June to support those targets or adopt its own targets. Mr. Ding reported that staff had analyzed the TPO's PM2 and PM3 data and found that its performance significantly exceeded the State average, and it was therefore appropriate for the TPO to adopt the same targets as FDOT's PM2 and PM3 targets.

* MOTION by Vice Chairman Dzadoovsky to adopt the Pavement, Bridge, and System Performance Targets.

** SECONDED by Commissioner Townsend Carried UNANIMOUSLY

- 9b. Draft FY 2023/24 – FY 2027/28 Transportation Improvement Program (TIP): Adoption of the draft FY 2023/24 – FY 2027/28 TIP.

Mr. Buchwald explained that the TPO was required to develop a TIP annually to identify projects within the TPO area that had been prioritized and were to receive Federal or State funding within the next five years. He then invited Mr. Ding to continue. Mr. Ding outlined the year-long process necessary to develop the TIP, noted several agencies involved in its production, and highlighted a number of multimodal projects included in the draft under consideration. He presented the total amount of funding in the TIP and concluded with an overview of the performance measures to be used in the TIP's evaluation.

In response to Vice Chairman Dzadozsky's question regarding the I-95 widening project between State Route 70 and the southern boundary of St. Lucie County, Mr. Buchwald indicated that the Project Development and Environment (PD&E) Study was included in the TIP. He explained that the construction phase had not been included in the Strategic Intermodal System Cost Feasible Plan presented at the April Board Meeting but that the TPO had requested it be added.

* MOTION by Mr. Driscoll to adopt the draft TIP.

** SECONDED by Commissioner Fowler Carried UNANIMOUSLY

- 9c. Carbon Reduction Strategy: Approval of the draft Carbon Reduction Strategy for the St. Lucie TPO area.

Mr. Buchwald introduced the agenda item along with Mr. Ding, and Mr. Ding invited Mr. Varanasi to present the Study. Mr. Varanasi provided an overview of the project before describing the methodology that had been developed to estimate the impact of various carbon reduction strategies within the TPO area. He presented the results of the analysis of those strategies, noted the Study's conclusions and recommendations, and outlined several example projects that could be considered for implementation.

In response to Mr. Kelly's comment regarding the Federal funding in place for project implementation, Mr. Varanasi explained that the present Study represented only the earliest stages of project development.

* MOTION by Vice Chairman Dzadoovsky to approve the draft Carbon Reduction Strategy.

** SECONDED by Commissioner Leet Carried UNANIMOUSLY

9d. 2023/24 List of Priority Projects (LOPP): Adoption of the draft LOPP for 2023/24 for the St. Lucie TPO.

Mr. Buchwald described how the LOPP was produced each year as part of the annual TIP development cycle before detailing the differences between the previous year's LOPP and the draft under consideration. In doing so, he reported on revisions to the Master List, the Congestion Management Process (CMP) List, the Transportation Alternatives (TA) List, and the Transit List. He also reported on additions to the Local Projects for Carbon Reduction Program (CRP) Funding and Transportation Alternatives Additional (TAA) Funding List, which had been adopted in October 2022.

At Vice Chairman Dzadoovsky's request, Mr. Buchwald provided an update on the Airport Connector project, reporting on the status of the Justification Report for the proposed I-95 interchange, the Project Development and Environment (PD&E) Study being conducted by Florida's Turnpike Enterprise, and the Corridor Alignment Study to be conducted for the segment connecting the interchanges with the Treasure Coast International Airport. Mr. Buchwald then commented on the expected timeline for the project's development. Vice Chairman Dzadoovsky remarked on the importance of the project, noting that he wished to keep the members apprised of its progress. Mr. Dayan provided additional details regarding the sequence of project development, noting that three different corridors were being considered.

Vice Chairman Dzadoovsky initiated a discussion regarding the extension of SW Lennard Road. He remarked that the project was needed and should once again be placed on one of the TPO's priority lists after being removed at the request of St. Lucie County more than 10 years before as part of a deferral agreement with the Savanna Club. Mr. Buchwald indicated that the project could be considered alongside other improvements during the development of the 2050 Long Range Transportation Plan, a process that would be starting within the next one to two years. Discussion ensued regarding the history of the Lennard Road extension project, with Commissioner Townsend noting that the County had already begun addressing various right-of-way considerations.

Acknowledging the concerns voiced by members at a previous meeting regarding the risks of having to fund the service after the pilot program ended or discontinue it despite its potential success, Mr. Buchwald reiterated that the pilot program itself would not require any funding from St. Lucie or Palm Beach Counties. He then noted that the TDP Major Update process would provide an ideal opportunity for further discussion of the service. Vice Chairman Dzadoovsky commented that bus services were less expensive than road widening.

In response to Mr. Kelly's comment, Mr. Buchwald summarized previous discussions regarding the express bus, describing how the service became possible as a result of developing the Jobs Express Terminal (JET). Mr. Buchwald then provided an update on the current usage of the JET.

Discussion ensued regarding the funding for the TDP Major Update, with Mr. Kelly expressing concern over the cost of engaging a consulting firm to conduct it. Mr. Buchwald indicated that funds had been allocated toward the Update by the Board, explaining that the TPO was one of the few MPOs in Florida to provide such assistance to a local agency transit program. He explained that doing so allowed the Board to have a greater role in determining local transit priorities. Noting that previous updates had been completed by TPO staff at less expense, Mr. Buchwald described the vision for the present update as being more ambitious than its antecedents in keeping with the theme of "Reimagine Transit." Vice Chairman Dzadoovsky remarked on the importance of proactively substantiating the County's transit funding needs given its rate of growth. Mr. Buchwald agreed, citing the length of time required for project implementation.

Discussion ensued regarding the commencement of Brightline passenger rail service, with members commenting on the likelihood of Brightline locating a stop in downtown Fort Pierce. Mr. Buchwald referenced the previously approved rail station design project and affirmed the TPO's support of the City's priorities.

* MOTION by Commissioner Townsend to approve the draft Scope of Services.

** SECONDED by Councilman Pickett Carried UNANIMOUSLY

10. Discussion Items

10a. Decennial Apportionment Review: Discussion of the Decennial Apportionment Review of the Board membership specified by Florida Statutes and requested by the Florida Department of Transportation.

Mr. Buchwald explained that FDOT had requested that the TPO initiate the Decennial Apportionment Review upon the release of the 2020 Census data in accordance with Florida Statutes. He presented the results of the 2020 Census as compared to those of the 2010 Census, noting there had been little proportional change among the population sizes of the local jurisdictions, and indicated that it might be appropriate to preserve the existing apportionment of the Board. He summarized previous discussions regarding Community Transit's membership on the Board in light of MV Transportation's 2020 assumption of the contract for operating the County's public transportation system. Mr. Buchwald then noted that, in the event of a mutual agreement to discontinue the membership of Community Transit on the Board, the withdrawal of the former might be less costly than amending the Creation Agreements in terms of time and resources.

Vice Chairman Dzadoovsky initiated a discussion regarding the possibility of MV Transportation assuming a voting position on the TPO Board, either alongside Community Transit or after the latter's departure. Mr. Buchwald explained that a transit representative was required by Federal law, but because the County served as the transit agency for the TPO area, that requirement was technically satisfied by the four County commissioners already on the Board. Mr. Buchwald questioned MV Transportation's ability to function independently on the Board due to its subordinate relationship to the Board of County Commissioners (BOCC). Vice Chairman Dzadoovsky noted that Community Transit had served on the Board for several decades despite having the same relationship with the BOCC, noting further that the County's transit operator was supported by the MSTU and therefore accountable to all jurisdictions contributing to it. Mr. Buchwald remarked that Darrell Drummond, due to both his position as the CEO of the Council on Aging of St. Lucie (COASL) and his long-term involvement with the community's transportation network, historically has functioned independently in the Board's decision-making process. Commissioner Townsend cautioned against discounting the value of MV Transportation's potential participation, opining that MV Transportation should have a place on the Board if Community Transit continued its membership.

Mr. Buchwald outlined several alternatives for the composition of the Board, including the discontinuance of either or both of the School Board and Community Transit positions, and the inclusion of more members from the remaining jurisdictions to facilitate a broader awareness of TPO issues. Several members commented on the value of institutional knowledge and diversity of perspective, with Mr. Kelly opining on the benefits of having a larger Board membership considering how well the current members worked together. Chairwoman Morgan remarked on the possibility of establishing ex officio members and inquired as to the makeup of other MPO boards. In response, Mr. Buchwald explained that MPOs were all different in their composition. In answer to Commissioner Fowler's question, Mr. Buchwald described how the Technical Advisory Committee's Independent Public Transportation Operator membership category was established.

Commissioner Townsend referenced recent legislation that would, if signed, restrict Board membership to elected officials. Vice Chairman Dzadovsky noted that many current members were not in attendance and suggested that the discussion be deferred to a subsequent meeting, requesting that staff also provide reports on the various Board composition alternatives to inform future deliberations.

10b. Village Parkway Extension Request: Discussion of a request from the Martin Metropolitan Planning Organization to add the Village Parkway Extension to the TPO's Long Range Transportation Plan.

Mr. Buchwald summarized the request by the Martin MPO for the TPO to consider adding the extension of Village Parkway to the TPO's current and future Long Range Transportation Plans (LRTPs) and support the addition of the extension to the Treasure Coast Regional Planning Model Version 6 (TCRPM6). He noted that the extension had been included in the 2035 Regional LRTP for modeling purposes but not included in any subsequent TPO plans. He further noted that Martin County had made no requests pertaining to the extension until it was referenced in a December 2020 letter to the City of Port St. Lucie, at which point the City indicated that the extension did not appear in any of its legislative documents, and right-of-way had not been reserved for it. Mr. Buchwald reported that an apartment complex had since been built in the area proposed for the extension and concluded with an explanation of the steps required to add the extension to current and future LRTPs and planning models should the City decide to move forward with it.

Councilman Pickett expressed his lack of support for the request, citing both his recollection of Martin County having previously allocated

funding toward the extension and his speculation that the request might be motivated by a desire for developer access to Port St. Lucie's utilities. Other members likewise questioned the appropriateness of the request, with Commissioner Dzadovsky opining that the developer should be responsible for building the road.

In response to Mr. Kelly's comment, Mr. Buchwald indicated that a response was needed even though Martin County had already raised the issue at a Treasure Coast Transportation Council meeting. Mr. Buchwald then described the difficulties associated with adding such a project to the LRTP.

Chairwoman Morgan noted that the issue had also been discussed at a Port St. Lucie City Council and Staff workshop. Mr. Stocton then explained that the consensus at that meeting had been to deny the request on account of the affected property being privately owned with no available right-of-way.

Discussion ensued regarding how to proceed with a response to the Martin MPO, and members reached a consensus to draft a letter indicating that the Board would not consider the extension request unless it received a resolution from the City of Port St. Lucie in support of the extension.

11. FDOT Comments – None.
12. Recommendations/Comments by Members – None.
13. TPO Staff Comments – Mr. Buchwald reported that legislation had been passed allowing automated speed enforcement in school zones. Mr. Buchwald also announced that FDOT District 4 Secretary Gerry O'Reilly would soon retire and be succeeded by Steve Braun. He wished Mr. O'Reilly well in his retirement and expressed his confidence that the TPO would continue to have a wonderful relationship with FDOT District 4 under Mr. Braun's leadership.

Referencing the early 2024 Florida legislative session, Chairwoman Morgan suggested that the TPO consider its legislative priorities as soon as possible, with Commissioner Townsend noting that the Florida Association of Counties would be meeting at the end of June. Chairwoman Morgan indicated that her personal priorities concerned a fuel tax substitution for electric vehicle (EV) owners, hands-free driving,

and the Treasure Coast International Airport. In response to Mr. Buchwald’s request for clarification regarding the Airport’s priorities, Vice Chairman Dzadovsky described the goals of expanding the runway and parking lots, implementing passenger service, and eventually widening St. Lucie Boulevard between U.S. 1 and Kings Highway.

Vice Chairman Dzadovsky provided an update on the efforts to promote safety on Indian River Drive. He reported the Board of County Commissioner’s recent reduction of the speed limit to 25 miles per hour despite the recommendation by County engineers to maintain the former speed limit, an action supported by approximately 80 percent of the Drive’s residents. He further reported an increase in enforcement efforts, noting that residents had begun to see improvements.

Chairwoman Morgan indicated that discussions were still underway between the Turnpike and Contender Boats regarding the proposed design for the Midway interchange, with the issue’s resolution expected by August.

14. Next Meeting: The next St. Lucie TPO Board meeting is a regular meeting scheduled for 2:00 pm on Wednesday, September 6, 2023.

15. Adjourn – The meeting was adjourned at 4:00 pm.

Respectfully submitted:

Approved by:

Rachel Harrison
Recording Specialist

Councilwoman Stephanie Morgan
Chairwoman



AGENDA ITEM SUMMARY

Board/Committee: St. Lucie TPO Board

Meeting Date: September 6, 2023

Item Number: 8a

Item Title: Amendment to the FY 2022/23 – FY 2027/28 Transportation Improvement Program (TIP)

Item Origination: Florida Department of Transportation (FDOT) District 4 Work Program

UPWP Reference: Task 3.3 – TIP

Requested Action: Accept or do not accept the notification of an administrative amendment to the TIP to incorporate the 2023 Roll Forward Report which contains the projects in the previous TIP that were not authorized by June 30, 2023.

Staff Recommendation: Based on the TIP amendment being developed and approved in compliance with applicable policies and procedures, it is recommended that the notification be accepted.

Attachments

- TIP Amendment #1 Approval Certification Form
- 2023 Roll-Forward Report



Coco Vista Centre
 466 SW Port St. Lucie Blvd, Suite 111
 Port St. Lucie, Florida 34953
 772-462-1593 www.stlucietpo.org

TIP Amendment Number 1

FY 2023/24 – FY 2027/28 TRANSPORTATION IMPROVEMENT PROGRAM
 ADMINISTRATIVE AMENDMENT APPROVAL CERTIFICATION FORM

2023 Roll-Forward Report

The St. Lucie Transportation Planning Organization (St. Lucie TPO), through administrative delegation to its Executive Director, approved incorporation of the attached report into the FY 2023/24 – FY 2027/28 Transportation Improvement Program (TIP) adopted on June 7, 2023.

The 2023 Roll Forward Report contains the projects in the FY 2022/23 – FY 2026/27 TIP that were not authorized by June 30, 2023.

This amendment will be recognized by the Federal Highway Administration after the TIP becomes effective with regard to the start of the Federal fiscal year on October 1, 2023.

I attest that this TIP administrative amendment was developed and approved in compliance with applicable policies and procedures.

Peter Buchwald
 Executive Director
 St. Lucie TPO

8/29/2023
 Date

FLORIDA DEPARTMENT OF TRANSPORTATION
OFFICE OF WORK PROGRAM
MPO ROLLFORWARD REPORT
=====

ST. LUCIE TPO

HIGHWAYS
=====

ITEM NUMBER:230256 9 PROJECT DESCRIPTION:SR-713/KING'S HWY FR 800' S OF SR-70 TO NORTH OF PICOS RD *NON-SIS*
DISTRICT:04 COUNTY:ST. LUCIE TYPE OF WORK:RELOCATE UTILITY SYSTEMS
EX DESC:FGT RELOCATION PREPARATION PROJECT FOR FM 230256-6 KINGS HWY RECONSTRUCTION

ROADWAY ID:94003000 PROJECT LENGTH: 1.890MI LANES EXIST/IMPROVED/ADDED: 2/ 2/ 0

FUND CODE	LESS THAN 2024	2024	2025	2026	2027	2028	GREATER THAN 2028	ALL YEARS
PHASE: PRELIMINARY ENGINEERING / RESPONSIBLE AGENCY: MANAGED BY FDOT								
DDR	277,443	0	0	0	0	0	0	277,443
PKYI	4,879	0	0	0	0	0	0	4,879
PHASE: RAILROAD & UTILITIES / RESPONSIBLE AGENCY: MANAGED BY FDOT								
DDR	3,922,691	0	0	0	0	0	0	3,922,691
DS	1,197	0	0	0	0	0	0	1,197
PHASE: CONSTRUCTION / RESPONSIBLE AGENCY: MANAGED BY FDOT								
DIH	492	499	0	0	0	0	0	991
PHASE: ENVIRONMENTAL / RESPONSIBLE AGENCY: MANAGED BY FDOT								
DS	2,802	0	0	0	0	0	0	2,802
TOTAL 230256 9	4,209,504	499	0	0	0	0	0	4,210,003
TOTAL PROJECT:	4,209,504	499	0	0	0	0	0	4,210,003

ITEM NUMBER:231440 2 PROJECT DESCRIPTION:W. MIDWAY RD/CR-712 FROM S. 25TH STREET/SR-615 TO SR-5/US-1 *NON-SIS*
DISTRICT:04 COUNTY:ST. LUCIE TYPE OF WORK:ADD LANES & RECONSTRUCT
EX DESC:WIDEN 2 LANES TO 4 LANES/10MPO PRIORITY# 1 REPLACE EXISTING BRIDGE,ADA RAMPS AT 3 SIGNALIZED INTERSEC CONSTRUCT 5' SIDEWALKS, LANDSCAPING, LIGHTING, BRICK PAVERS, DRAINAGE, 4' BIKE LANE ON ROADWAY/PD&E BY COUNTY=SEG#1 LFA WITH COUNTY FOR PHASE 4B \$246,723=LFF PH 4B (SEE IC) R/W FUNDED/SAFETEA-LU EARMARK HPP 610 (FOR C2 DESC SEE SC)
ROADWAY ID:94530000 PROJECT LENGTH: 1.803MI LANES EXIST/IMPROVED/ADDED: 2/ 2/ 2

FUND CODE	LESS THAN 2024	2024	2025	2026	2027	2028	GREATER THAN 2028	ALL YEARS
PHASE: PRELIMINARY ENGINEERING / RESPONSIBLE AGENCY: MANAGED BY FDOT								
DDR	258,998	0	0	0	0	0	0	258,998
EB	1,274,545	0	0	0	0	0	0	1,274,545
HPP	1,439,840	0	0	0	0	0	0	1,439,840
SA	822,277	0	0	0	0	0	0	822,277
PHASE: RIGHT OF WAY / RESPONSIBLE AGENCY: MANAGED BY FDOT								
DDR	80	0	0	0	0	0	0	80
DIH	24,068	0	0	0	0	0	0	24,068
DS	42,424	0	0	0	0	0	0	42,424
EB	818,043	0	0	0	0	0	0	818,043
LF	246,620	102	0	0	0	0	0	246,722
SA	17,261,769	0	0	0	0	0	0	17,261,769
SU	9,917,987	0	0	0	0	0	0	9,917,987
PHASE: RAILROAD & UTILITIES / RESPONSIBLE AGENCY: MANAGED BY FDOT								
SA	703,765	0	0	0	0	0	0	703,765
PHASE: CONSTRUCTION / RESPONSIBLE AGENCY: MANAGED BY FDOT								
ACCM	3,215	0	0	0	0	0	0	3,215
ACSA	279,426	0	0	0	0	0	0	279,426
ACSU	12,282	0	0	0	0	0	0	12,282
CM	2,017,761	0	0	0	0	0	0	2,017,761
DDR	5,432,080	0	0	0	0	0	0	5,432,080
DS	1,607,729	0	0	0	0	0	0	1,607,729
GFSU	1,849,601	0	0	0	0	0	0	1,849,601
HPP	162,520	0	0	0	0	0	0	162,520
SA	23,538,878	0	0	0	0	0	0	23,538,878
SU	2,761,197	1,524	0	0	0	0	0	2,762,721

FLORIDA DEPARTMENT OF TRANSPORTATION
OFFICE OF WORK PROGRAM
MPO ROLLFORWARD REPORT

ST. LUCIE TPO

HIGHWAYS

PHASE: ENVIRONMENTAL / RESPONSIBLE AGENCY: MANAGED BY FDOT									
EB	150,934	0	0	0	0	0	0	0	150,934
SA	516,710	0	0	0	0	0	0	0	516,710
TOTAL 231440 2	71,142,749	1,626	0	0	0	0	0	0	71,144,375
TOTAL PROJECT:	71,142,749	1,626	0	0	0	0	0	0	71,144,375

ITEM NUMBER:424143 1 PROJECT DESCRIPTION:SR-713 @ SR-614 *NON-SIS*
 DISTRICT:04 COUNTY:ST. LUCIE TYPE OF WORK:ADD TURN LANE(S)
 EX DESC:INTERSECTION IMPROVEMENT; CIGP/TRIP FOR R/W; 2013 TPO #4 REPROGRAM AS DOT PROJECT TO ACQUIRE R/W**DO NOT FEDERALIZE
 ** DOT AND COUNTY TO SPLIT ROW; COUNTY TO PAY FOR CONSTRUCTION REC CHECK FROM ST.LUCIE CO. FOR \$3,817,948 ON 07/09/
 09 REC CHECK FROM ST.LUCIE CO. FOR \$2,709,534 ON 06/13/13 **VERIFY LF EXPENDITURES W/COMPTRROLLER PRIOR TO UPDATING*
 ROADWAY ID:94004500 PROJECT LENGTH: 1.084MI LANES EXIST/IMPROVED/ADDED: 2/ 2/ 0

FUND CODE	LESS THAN 2024	2024	2025	2026	2027	2028	GREATER THAN 2028	ALL YEARS
PHASE: PRELIMINARY ENGINEERING / RESPONSIBLE AGENCY: MANAGED BY FDOT								
DIH	51,056	0	0	0	0	0	0	51,056
PHASE: RIGHT OF WAY / RESPONSIBLE AGENCY: MANAGED BY FDOT								
CIGP	1,134,219	0	0	0	0	0	0	1,134,219
CIGR	76,390	0	0	0	0	0	0	76,390
DDR	50,511	0	0	0	0	0	0	50,511
LF	1,177,191	0	0	0	0	0	0	1,177,191
LFP	3,084,949	2,802,701	0	0	0	0	0	5,887,650
TRIP	2,063,600	0	0	0	0	0	0	2,063,600
PHASE: ENVIRONMENTAL / RESPONSIBLE AGENCY: MANAGED BY FDOT								
DDR	146,133	0	0	0	0	0	0	146,133
TOTAL 424143 1	7,784,049	2,802,701	0	0	0	0	0	10,586,750
TOTAL PROJECT:	7,784,049	2,802,701	0	0	0	0	0	10,586,750

ITEM NUMBER:429936 2 PROJECT DESCRIPTION:SR-A1A NORTH BRIDGE OVER ICWW BRIDGE #940045 *NON-SIS*
 DISTRICT:04 COUNTY:ST. LUCIE TYPE OF WORK:BRIDGE REPLACEMENT
 EX DESC:RISK WORKSHOP 32-02

ROADWAY ID:94060000 PROJECT LENGTH: 1.205MI LANES EXIST/IMPROVED/ADDED: 2/ 2/ 0

FUND CODE	LESS THAN 2024	2024	2025	2026	2027	2028	GREATER THAN 2028	ALL YEARS
PHASE: P D & E / RESPONSIBLE AGENCY: MANAGED BY FDOT								
DIH	126,821	0	0	0	0	0	0	126,821
DS	93,316	0	0	0	0	0	0	93,316
EB	1,145,138	0	0	0	0	0	0	1,145,138
SA	110,220	0	0	0	0	0	0	110,220
SABR	1,021,952	0	0	0	0	0	0	1,021,952
PHASE: PRELIMINARY ENGINEERING / RESPONSIBLE AGENCY: MANAGED BY FDOT								
DIH	307,900	0	0	0	0	0	0	307,900
DS	714,648	0	0	0	0	0	0	714,648
NHBR	6,142,062	0	0	0	0	0	0	6,142,062
SA	284,771	0	0	0	0	0	0	284,771
SABR	456,515	0	0	0	0	0	0	456,515
PHASE: RIGHT OF WAY / RESPONSIBLE AGENCY: MANAGED BY FDOT								
ACBR	370,800	16,378	0	0	0	0	0	387,178
BNBR	1,282,034	0	0	0	0	0	0	1,282,034
BRP	510,232	0	0	0	0	0	0	510,232
DIH	111,868	58,742	0	0	0	0	0	170,610
DS	1,482,395	0	0	0	0	0	0	1,482,395
GFBR	272,834	1,202	8,676,339	0	0	0	0	8,950,375

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ST. LUCIE TPO

ITEM NUMBER:431752 3 PROJECT DESCRIPTION:PORT ST. LUCIE BLVD FROM BECKER ROAD TO PAAR DRIVE *NON-SIS*
 DISTRICT:04 COUNTY:ST. LUCIE TYPE OF WORK:ADD LANES & RECONSTRUCT
 EX DESC:2022 TPO PRIORITY #3. WIDENING FROM 2 TO 4 LANES.

ROADWAY ID:94000120 PROJECT LENGTH: 1.119MI LANES EXIST/IMPROVED/ADDED: 2/ 2/ 2

FUND CODE	LESS THAN 2024	2024	2025	2026	2027	2028	GREATER THAN 2028	ALL YEARS
PHASE: PRELIMINARY ENGINEERING / RESPONSIBLE AGENCY: MANAGED BY FDOT								
ACSU	453,282	0	0	0	0	0	0	453,282
GFSU	4,000	0	0	0	0	0	0	4,000
SA	17,101	0	0	0	0	0	0	17,101
SU	1,387,539	621	0	0	0	0	0	1,388,160
PHASE: RIGHT OF WAY / RESPONSIBLE AGENCY: MANAGED BY FDOT								
SU	176,549	660,195	0	0	0	0	0	836,744
PHASE: RAILROAD & UTILITIES / RESPONSIBLE AGENCY: MANAGED BY FDOT								
SU	0	0	0	0	100,000	0	0	100,000
PHASE: CONSTRUCTION / RESPONSIBLE AGENCY: MANAGED BY FDOT								
ACPR	0	0	0	0	0	2,686,394	0	2,686,394
CARU	0	0	0	0	0	589,130	0	589,130
CM	0	0	0	0	0	1,848,345	0	1,848,345
SA	0	0	0	0	0	5,650,370	0	5,650,370
SU	0	0	0	0	0	4,590,885	0	4,590,885
TRIP	0	0	0	0	0	1,627,089	0	1,627,089
TRWR	0	0	0	0	0	2,858,241	0	2,858,241
PHASE: ENVIRONMENTAL / RESPONSIBLE AGENCY: MANAGED BY FDOT								
SU	32,828	53,470	0	0	0	0	0	86,298
TOTAL 431752 3	2,071,299	714,286	0	0	100,000	19,850,454	0	22,736,039

ITEM NUMBER:431752 6 PROJECT DESCRIPTION:PORT ST.LUCIE BLVD FROM SOUTH OF ALCANTARRA BV TO SOUTH OF DARWIN BLVD *NON-SIS*
 DISTRICT:04 COUNTY:ST. LUCIE TYPE OF WORK:ADD LANES & RECONSTRUCT
 EX DESC:2020 TPO PRIORITY #2 WIDENING FROM 2 TO 4 LANES DESIGN AND RIGHT OF WAY ON 431752-2 56-01 LF UWHCA 62-03 LF FOR CEI FOR UWHCA

ROADWAY ID:94000120 PROJECT LENGTH: .713MI LANES EXIST/IMPROVED/ADDED: 2/ 2/ 2

FUND CODE	LESS THAN 2024	2024	2025	2026	2027	2028	GREATER THAN 2028	ALL YEARS
PHASE: RAILROAD & UTILITIES / RESPONSIBLE AGENCY: MANAGED BY FDOT								
LF	2,223,316	244,844	0	0	0	0	0	2,468,160
PHASE: CONSTRUCTION / RESPONSIBLE AGENCY: MANAGED BY FDOT								
ACSA	416,186	0	0	0	0	0	0	416,186
ACSU	2,330,399	0	0	0	0	0	0	2,330,399
DS	92,797	0	0	0	0	0	0	92,797
SA	1,438,836	19,992	0	0	0	0	0	1,458,828
SU	5,011,315	0	0	0	0	0	0	5,011,315
TRIP	1,962,484	0	0	0	0	0	0	1,962,484
PHASE: ENVIRONMENTAL / RESPONSIBLE AGENCY: MANAGED BY FDOT								
SU	500	0	0	0	0	0	0	500
TOTAL 431752 6	13,475,833	264,836	0	0	0	0	0	13,740,669
TOTAL PROJECT:	20,143,023	984,217	0	0	100,000	19,850,454	0	41,077,694

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ST. LUCIE TPO

HIGHWAYS
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ITEM NUMBER:441314 1 PROJECT DESCRIPTION:SR-9/I-95 @ BECKER ROAD INTERCHANGE TYPE OF WORK:LANDSCAPING *SIS*
DISTRICT:04 COUNTY:ST. LUCIE
EX DESC:STANDALONE INDEPENDENT PROJECT

ROADWAY ID:94001000 PROJECT LENGTH: .478MI LANES EXIST/IMPROVED/ADDED: 3/ 3/ 0

FUND CODE	LESS THAN 2024	2024	2025	2026	2027	2028	GREATER THAN 2028	ALL YEARS
PHASE: PRELIMINARY ENGINEERING / RESPONSIBLE AGENCY: MANAGED BY FDOT								
DDR	120,000		0	0	0	0	0	120,000
DIH	12,180		0	0	0	0	0	12,180
DS	8,940		0	0	0	0	0	8,940
PHASE: CONSTRUCTION / RESPONSIBLE AGENCY: MANAGED BY FDOT								
DDR	631,286		0	0	0	0	0	631,286
DIH	0	38,374	0	0	0	0	0	38,374
TOTAL 441314 1	772,406	38,374	0	0	0	0	0	810,780
TOTAL PROJECT:	772,406	38,374	0	0	0	0	0	810,780

ITEM NUMBER:441714 1 PROJECT DESCRIPTION:SR-5/US-1 FROM EDWARDS ROAD TO TENNESSEE AVE TYPE OF WORK:DRAINAGE IMPROVEMENTS *SIS*
DISTRICT:04 COUNTY:ST. LUCIE
EX DESC:DRAINAGE/STORM WATER UPGRADES RESURFACING ON PHASE 52-02 INCLUDING: INTERSECTION LIGHTING RETROFIT. UPGRADE PEDESTRIAN SIGNALS TO COUNTDOWN AT THE FOLLOWING INTERSECTIONS: EDWARDS ROAD, EMIL AVE. GARDENIA AVE. AND VIRGINIA AVE

ROADWAY ID:94010000 PROJECT LENGTH: 1.124MI LANES EXIST/IMPROVED/ADDED: 4/ 4/ 0

FUND CODE	LESS THAN 2024	2024	2025	2026	2027	2028	GREATER THAN 2028	ALL YEARS
PHASE: PRELIMINARY ENGINEERING / RESPONSIBLE AGENCY: MANAGED BY FDOT								
DIH	41,448		0	0	0	0	0	41,448
DS	1,256,680		0	0	0	0	0	1,256,680
PHASE: RIGHT OF WAY / RESPONSIBLE AGENCY: MANAGED BY FDOT								
DIH	665	152,000		0	0	0	0	152,665
PHASE: CONSTRUCTION / RESPONSIBLE AGENCY: MANAGED BY FDOT								
ACNR	0	0	0	0	1,747,912	0	0	1,747,912
ACPR	0	0	0	0	9,986,848	0	0	9,986,848
DDR	0	0	0	0	1,701,540	0	0	1,701,540
DIH	0	0	0	0	58,673	0	0	58,673
SA	0	0	0	0	227,228	0	0	227,228
PHASE: ENVIRONMENTAL / RESPONSIBLE AGENCY: MANAGED BY FDOT								
DDR	23,545	0	0	0	0	0	0	23,545
TOTAL 441714 1	1,322,338	152,000	0	0	13,722,201	0	0	15,196,539

ITEM NUMBER:441715 1 PROJECT DESCRIPTION:OUTFALL FOR SR-70/VIRGINIA AVENUE TYPE OF WORK:DRAINAGE IMPROVEMENTS *SIS*
DISTRICT:04 COUNTY:ST. LUCIE
EX DESC:OUTFALL WILL BE ROUTED FROM CANAL 7D (CITY CANAL EAST OF OLEANDER BLVD) ALONG VIRGINIA AVE, SOUTH ON SR-5/US-1 AND THEN EAST THROUGH INDIAN HILLS DR TO ULTIMATELY OUTFALL INTO THE SAND MINE LAKE

ROADWAY ID:94030000 PROJECT LENGTH: .177MI LANES EXIST/IMPROVED/ADDED: 3/ 3/ 0

FUND CODE	LESS THAN 2024	2024	2025	2026	2027	2028	GREATER THAN 2028	ALL YEARS
PHASE: PRELIMINARY ENGINEERING / RESPONSIBLE AGENCY: MANAGED BY FDOT								
DIH	25,312	679		0	0	0	0	25,991
DS	836,295	0		0	0	0	0	836,295

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HIGHWAYS
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ST. LUCIE TPO

ITEM NUMBER:447003 1 PROJECT DESCRIPTION:INTERSECTION LIGHTING RETROFIT IMPROVEMENT *NON-SIS*
 DISTRICT:04 COUNTY:ST. LUCIE TYPE OF WORK:LIGHTING
 EX DESC:INTERSECTION LIGHTING RETROFIT IMPROVEMENT SR-615 AT OKEECHOBEE RD/DELAWARE AVE; SR-A1A SEAWAY DR. AT BINNEY DR. G/
 W 447001.1 AND 447002.1

ROADWAY ID:94005000 PROJECT LENGTH: 2.441MI LANES EXIST/IMPROVED/ADDED: 4/ 0/ 0

FUND CODE	LESS THAN 2024	2024	2025	2026	2027	2028	GREATER THAN 2028	ALL YEARS
PHASE: PRELIMINARY ENGINEERING / RESPONSIBLE AGENCY: MANAGED BY FDOT								
ACSS	147,521	8,003	0	0	0	0	0	155,524
HSP	1,228	0	0	0	0	0	0	1,228
PHASE: RAILROAD & UTILITIES / RESPONSIBLE AGENCY: MANAGED BY FDOT								
ACSS	0	41,877	0	0	0	0	0	41,877
PHASE: CONSTRUCTION / RESPONSIBLE AGENCY: MANAGED BY FDOT								
ACSS	0	184,127	0	0	0	0	0	184,127
TOTAL 447003 1	148,749	234,007	0	0	0	0	0	382,756
TOTAL PROJECT:	148,749	234,007	0	0	0	0	0	382,756

ITEM NUMBER:448134 1 PROJECT DESCRIPTION:PORT ST LUCIE TSM&O VARIOUS LOCATIONS *NON-SIS*
 DISTRICT:04 COUNTY:ST. LUCIE TYPE OF WORK:ITS COMMUNICATION SYSTEM
 EX DESC:2021 ST LUCIE TPO CMP PRIORITY #3, 4 AND 5; INSTALLATION OF FIBER OPTIC CABLE INCLUDING CONDUITS, PULL BOXES, TRAFFIC CAMERAS, ADAPTIVE TRAFFIC SIGNAL CONTROL AND OTHER COMPONENTS THAT WILL BE NECESSARY FOR THE CONVERSION OF THE EXISTING TRAFFIC SYSTEM ... FOR LIMITS (SEE WP45)

ROADWAY ID:94000008 PROJECT LENGTH: .990MI LANES EXIST/IMPROVED/ADDED: 4/ 0/ 0

FUND CODE	LESS THAN 2024	2024	2025	2026	2027	2028	GREATER THAN 2028	ALL YEARS
PHASE: CONSTRUCTION / RESPONSIBLE AGENCY: MANAGED BY FDOT								
GFSU	0	5,000	0	0	0	0	0	5,000
PHASE: CONSTRUCTION / RESPONSIBLE AGENCY: MANAGED BY SAINT LUCIE COUNTY								
GFSU	305,526	0	0	0	0	0	0	305,526
LF	63,814	0	0	0	0	0	0	63,814
TOTAL 448134 1	369,340	5,000	0	0	0	0	0	374,340
TOTAL PROJECT:	369,340	5,000	0	0	0	0	0	374,340

ITEM NUMBER:449811 1 PROJECT DESCRIPTION:SR-9(I-95) AT SR-70 INTERCHANGE (OKEECHOBEE ROAD) *SIS*
 DISTRICT:04 COUNTY:ST. LUCIE TYPE OF WORK:LANDSCAPING
 EX DESC:STANDALONE LANDSCAPE PROJECT

ROADWAY ID:94001000 PROJECT LENGTH: .828MI LANES EXIST/IMPROVED/ADDED: 5/ 5/ 0

FUND CODE	LESS THAN 2024	2024	2025	2026	2027	2028	GREATER THAN 2028	ALL YEARS
PHASE: PRELIMINARY ENGINEERING / RESPONSIBLE AGENCY: MANAGED BY FDOT								
DDR	158,404	0	0	0	0	0	0	158,404
DIH	4,366	202,634	0	0	0	0	0	207,000
PHASE: CONSTRUCTION / RESPONSIBLE AGENCY: MANAGED BY FDOT								
DDR	0	1,016,989	178,004	0	0	0	0	1,194,993

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DIH	0	0	49,446	0	0	0	0	49,446
TOTAL 449811 1	162,770	1,219,623	227,450	0	0	0	0	1,609,843
TOTAL PROJECT:	162,770	1,219,623	227,450	0	0	0	0	1,609,843
TOTAL DIST: 04	300,702,915	10,448,355	8,903,789	0	22,535,199	19,881,950	0	362,472,208
TOTAL HIGHWAYS	300,702,915	10,448,355	8,903,789	0	22,535,199	19,881,950	0	362,472,208

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TRANSIT
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ST. LUCIE TPO

ITEM NUMBER:413494 1 PROJECT DESCRIPTION:PSL UZA - ST. LUCIE COUNTY SECTION 5307 FORMULA FUNDS *NON-SIS*
 DISTRICT:04 COUNTY:ST. LUCIE TYPE OF WORK:CAPITAL FOR FIXED ROUTE
 EX DESC:FY11 - GRANT FL-90-X727 EXECUTED PER K.SCOTT-ST.LUCIE CO EMAIL FROM J. MELI 10/13/10. GRANT FL90-X765 EXECUTED 10/2
 0/11 \$1,407,322 EMAIL FROM K. SCOTT/SLC 1-11-12 TO J. MELI. ST.LUCIE COUNTY SEC 5307 OPERATING ASSISTANCE NON-BUDGE
 T REVENUE
 ROADWAY ID: PROJECT LENGTH: .000 LANES EXIST/IMPROVED/ADDED: 0/ 0/ 0

FUND CODE	LESS THAN 2024	2024	2025	2026	2027	2028	GREATER THAN 2028	ALL YEARS
PHASE: OPERATIONS / RESPONSIBLE AGENCY: MANAGED BY ST. LUCIE COA								
FTA	0	17,830,000	810,000	810,000	810,000	810,000	0	21,070,000
PHASE: CAPITAL / RESPONSIBLE AGENCY: MANAGED BY ST. LUCIE COA								
FTA	8,968,195	11,816,078	1,610,000	1,610,000	1,610,000	1,610,000	0	27,224,273
TOTAL 413494 1	8,968,195	29,646,078	2,420,000	2,420,000	2,420,000	2,420,000	0	48,294,273
TOTAL PROJECT:	8,968,195	29,646,078	2,420,000	2,420,000	2,420,000	2,420,000	0	48,294,273

ITEM NUMBER:434548 1 PROJECT DESCRIPTION:PSL UZA - PSL COUNTY SECT 5339 CAPITAL FOR BUS & BUS FACILITIES *NON-SIS*
 DISTRICT:04 COUNTY:ST. LUCIE TYPE OF WORK:CAPITAL FOR FIXED ROUTE
 EX DESC:ST.LUCIE CNTY SECTION 5339 CAPITAL FOR BUS & BUS FACILITIES PROGRAM 16. CAPITAL FOR FIXED ROUTE NON-BUDGET REVENUE

ROADWAY ID: PROJECT LENGTH: .000 LANES EXIST/IMPROVED/ADDED: 0/ 0/ 0

FUND CODE	LESS THAN 2024	2024	2025	2026	2027	2028	GREATER THAN 2028	ALL YEARS
PHASE: CAPITAL / RESPONSIBLE AGENCY: MANAGED BY ST. LUCIE COUNTY								
FTA	0	2,404,114	275,000	275,000	275,000	275,000	0	3,504,114
TOTAL 434548 1	0	2,404,114	275,000	275,000	275,000	275,000	0	3,504,114
TOTAL PROJECT:	0	2,404,114	275,000	275,000	275,000	275,000	0	3,504,114
TOTAL DIST: 04	8,968,195	32,050,192	2,695,000	2,695,000	2,695,000	2,695,000	0	51,798,387
TOTAL TRANSIT	8,968,195	32,050,192	2,695,000	2,695,000	2,695,000	2,695,000	0	51,798,387

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ST. LUCIE TPO

ITEM NUMBER:439999 3 PROJECT DESCRIPTION:SAVANNAS PRESERVE STATE PARK FR LENNARD RD TO SAVANNAS RECREATION AREA *NON-SIS*
 DISTRICT:04 COUNTY:ST. LUCIE TYPE OF WORK:BIKE PATH/TRAIL
 EX DESC:SUNTRAIL FY2017 PD&E PHASE 2; DESIGN ON 439999-1

ROADWAY ID:94931003 PROJECT LENGTH: 4.219MI LANES EXIST/IMPROVED/ADDED: 0/ 0/ 0

FUND CODE	LESS THAN 2024	2024	2025	2026	2027	2028	GREATER THAN 2028	ALL YEARS
PHASE: RIGHT OF WAY / RESPONSIBLE AGENCY: MANAGED BY FDOT								
DDR	6,178	0	67,373	0	0	0	0	73,551
DIH	13,811	3,756	0	0	0	0	0	17,567
DS	12,045	0	0	0	0	0	0	12,045
PHASE: CONSTRUCTION / RESPONSIBLE AGENCY: MANAGED BY FDOT								
DDR	0	424,621	0	0	0	0	0	424,621
DIH	138	105,179	0	0	0	0	0	105,317
TLWR	65,814	3,761,067	0	0	0	0	0	3,826,881
PHASE: ENVIRONMENTAL / RESPONSIBLE AGENCY: MANAGED BY FDOT								
DS	9,995	0	0	0	0	0	0	9,995
TLWR	0	135,000	0	0	0	0	0	135,000
TOTAL 439999 3	107,981	4,429,623	67,373	0	0	0	0	4,604,977
TOTAL PROJECT:	107,981	4,429,623	67,373	0	0	0	0	4,604,977

ITEM NUMBER:440032 1 PROJECT DESCRIPTION:FEC OVERPASS FROM SAVANNAS RECREATION AREA TO SOUTH OF SAVANNAH RD *NON-SIS*
 DISTRICT:04 COUNTY:ST. LUCIE TYPE OF WORK:BIKE PATH/TRAIL
 EX DESC:SUNTRAIL

ROADWAY ID: PROJECT LENGTH: .000 LANES EXIST/IMPROVED/ADDED: 0/ 0/ 0

FUND CODE	LESS THAN 2024	2024	2025	2026	2027	2028	GREATER THAN 2028	ALL YEARS
PHASE: P D & E / RESPONSIBLE AGENCY: MANAGED BY FDOT								
DIH	25,558	0	0	0	0	0	0	25,558
TLWR	80,662	0	0	0	0	0	0	80,662
PHASE: PRELIMINARY ENGINEERING / RESPONSIBLE AGENCY: MANAGED BY FDOT								
DIH	2,593	2,407	0	0	0	0	0	5,000
DS	89,969	0	0	0	0	0	0	89,969
TLWR	427,344	0	0	0	0	0	0	427,344
PHASE: RIGHT OF WAY / RESPONSIBLE AGENCY: MANAGED BY FDOT								
DDR	0	14,250	0	0	0	0	0	14,250
DIH	249	12,000	0	0	0	0	0	12,249
DS	0	36,630	8,789	0	0	0	0	45,419
PHASE: RAILROAD & UTILITIES / RESPONSIBLE AGENCY: MANAGED BY FDOT								
TLWR	20,000	0	60,000	0	0	0	0	80,000
PHASE: CONSTRUCTION / RESPONSIBLE AGENCY: MANAGED BY FDOT								
DIH	0	0	0	0	107,175	0	0	107,175
TLWR	0	0	0	0	3,302,621	0	0	3,302,621
PHASE: ENVIRONMENTAL / RESPONSIBLE AGENCY: MANAGED BY FDOT								
TLWR	0	165,000	0	0	0	0	0	165,000
TOTAL 440032 1	646,375	230,287	68,789	0	3,409,796	0	0	4,355,247
TOTAL PROJECT:	646,375	230,287	68,789	0	3,409,796	0	0	4,355,247
TOTAL DIST: 04	754,356	4,659,910	136,162	0	3,409,796	0	0	8,960,224
TOTAL MISCELLANEOUS	754,356	4,659,910	136,162	0	3,409,796	0	0	8,960,224

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MISCELLANEOUS
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DATE RUN: 07/05/2023
TIME RUN: 10.29.03
MBRMPOTP

ST. LUCIE TPO

GRAND TOTAL	394,071,125	64,806,650	21,537,222	24,423,855	41,492,867	22,846,950	63,512,188	632,690,857
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AGENDA ITEM SUMMARY

Board/Committee: St. Lucie TPO Board

Meeting Date: September 6, 2023

Item Number: 8b

Item Title: Unified Planning Work Program (UPWP) Tasks and Budget and Grants Mid-Term Reviews

Item Origination: UPWP

UPWP Reference: Task 1.1: Program Management

Requested Action: Accept or do not accept.

Staff Recommendation: Based on the recommendation of the TPO Executive Committee, it is recommended that the UPWP Tasks and Budget and Grants Mid-Term Reviews be accepted by the TPO Board.

Attachments

- Staff Report
- FY 2022/23 – FY 2023/24 UPWP Task Summary
- FY 2022/23 - FY 2023/24 Budget and Expenses
- Summaries of Costs Incurred by UPWP Task for the TPO's Grants



MEMORANDUM

TO: St. Lucie TPO Board

FROM: Peter Buchwald
Executive Director

DATE: August 29, 2023

SUBJECT: Unified Planning Work Program (UPWP) Tasks and Budget and Grants Mid-Term Reviews

BACKGROUND

As the first fiscal year of the FY 2022/23 – FY 2023/24 UPWP and Budget has ended, mid-term reviews may be conducted of the UPWP tasks completed to date, the budget expenses incurred in FY 2022/23, and the grants that are administered by the TPO.

ANALYSIS

The attached FY 2022/23 – FY 2023/24 UPWP Task Summary identifies the status of each of the activities and end products programmed in the first fiscal year of the UPWP. The summaries confirm that the activities and end products programmed in FY 2022/23 were substantially completed in accordance with the UPWP.

The attached FY 2022/23 - FY 2023/24 Budget and Expenses summarizes the adopted two-year budget of the UPWP and the expenses incurred by the TPO in FY 2022/23. The attached Summaries of Costs Incurred by UPWP Task for each of the TPO's grants summarizes the costs incurred for the five grants administered by the TPO in FY 2022/23. The following findings are provided based on the summary:

- 1) The expenses incurred by the TPO in FY 2022/23 did not exceed the adopted budgets in any of the budget categories.
- 2) The total expenses incurred by the TPO for FY 2022/23 is less than the adopted total budget for FY 2022/23.

- 3) No changes to the adopted FY 2022/23 – FY 2023/24 budget are necessary other than the carrying over of the line-item budget surpluses to FY 2023/24.
- 4) None of the expenses incurred by the TPO in FY 2023/24 exceeded any of the budgets for the grants administered by the TPO in FY 2023/24.

At its meeting on July 25th, the TPO Executive Committee reviewed the UPWP tasks and the TPO Budget and grants through FY 2022/23 and recommended that the Mid-Term Reviews be accepted and placed on the Consent Agenda for the next TPO Board Meeting.

RECOMMENDATION

Based on the recommendation of the TPO Executive Committee, it is recommended that the UPWP Tasks and Budget and Grants Mid-Term Reviews be accepted by the TPO Board.

FY 2022/23 - FY 2023/24 Unified Planning Work Program
Work Task Summary

Element	Task	End Products	Completion Dates	Status
1. Program Administration	1.1 Program Management	2023 Legislative Priorities (uses local funds only)	December 2022	Completed
		2024 Legislative Priorities (use local funds only)	October 2023	In Process
		2023 Annual Joint Certification Review	May 2023	Completed
		2024 Annual Joint Certification Review	May 2024	
	1.2 UPWP Development	FY 2024/25 – FY 2025/26 UPWP Kickoff Meeting	January 2024	
		Review by Advisory Committees & Board	March/April 2024	
		Transmittal to FDOT	March 2024	
		Public Comment Period	March/April 2024	
		Adoption by Board	April 2024	
		Transmittal to FHWA & FTA	May 2024	
	UPWP Amendments	As needed		
2. Modeling, GIS, Data Management, and Performance Measurement	2.1 Travel Demand Modeling	TCRPM 2045 TAZ and Model Updates	June 2023	Completed
		TCRPM5 Application and Support	Ongoing	
		TCRPM6 Development and Support	TBD	In Process
		Participation in MTF and regional modeling activities	Ongoing	
	2.2 GIS And Data Management	Community Profile Updates	December 2023	
	2.3 Traffic Count Program Management	2023 Traffic Count and LOS Report	June 2023	Completed
		2024 Traffic Count and LOS Report	June 2024	
	2.4 Performance Measurement and Target Setting	Set 2023 Performance Targets and Report to FDOT	February 2023	Completed
Set 2024 Performance Targets and Report to FDOT		February 2024		
3. Recurring and Systems and Project Planning	3.1 Long Range Transportation Planning	TIP/LRTP Performance Report 2023	June 2023	Completed
		TIP/LRTP Performance Report 2024	June 2024	
		Airport Connector Corridor Alignment Study	June 2024	In Process
	3.2 Transit Planning	Fort Pierce Passenger Rail Station Planning	December 2022	Cancelled
		TDP Annual Progress Report	September 2022	Completed
		TDP Annual Progress Report	September 2023	
		TDP Major Update	June 2024	In Process
	3.3 Transportation Improvement Program (TIP)	Submittal of 2022/23 LOPP to FDOT	August 2022	Completed
		Review/Endorsement of FDOT’s Five-Year Work Program	December 2022	Completed
		FY 2023/24 – FY 2027/28 TIP Adoption & Interactive TIP Update	June 2023	Completed
		Annual Publication of Obligated Federal Projects	June 2023	Completed
		Submittal of 2023/24 LOPP to FDOT	June 2023	Completed
		Review/Endorsement of FDOT’s Five-Year Work Program	October 2023	
	3.4 Congestion Management Process (CMP)	FY 2024/25 – FY 2028/29 TIP Adoption & Interactive TIP Update	June 2024	
		Annual Publication of Obligated Federal Projects	June 2024	
		Special Events Congestion Management and Parking Plan (SECMAPP)	February 2023	Completed
CMP Update/Annual Report		June 2023	Completed	
	CMP Major Update	June 2024	In Process	

FY 2022/23 - FY 2023/24 Unified Planning Work Program
Work Task Summary (continued)

Element	Task	End Products	Completion Dates	Status
3. Recurring and Systems and Project Planning (continued)	3.5 Bicycle-Pedestrian/Complete Streets Planning	SUN Trail Network Port of Ft Pierce Overpass Connector Feasibility Study	June 2024	In Process
	3.6 Freight Planning	Update St. Lucie Freight Network	June 2023	Completed
		Advanced Air Mobility Study, Phase II	June 2024	In Process
	3.7 Safety and Security Planning	Spot Speed Studies	March 2023	Completed
		Automated Speed Enforcement Study	March 2024	
		Midway Road Safety Study	June 2023	In Process
	3.8 Transportation Disadvantaged (TD) Program	TDSP Annual Update	May 2023	Completed
		CTC Designation/Re-Designation	July 2023	Completed
		TDSP Major Update	December 2023	
		2023 CTC Evaluation	June 2023	Completed
		2024 CTC Evaluation	June 2024	
		LCB Meeting Summaries	After the LCB Meetings	
	3.9 Environmental Planning	Carbon Reduction Strategy	February 2023	Completed
Transportation Asset/Service Vulnerability Assessment Update		June 2024		
3.10 ACES Vehicles Planning	Electric Vehicle Charging Station Plan Update	December 2022	Completed	
	Sustainable Transportation Plan	June 2023	In Process	
4. Regional and Intergovernmental Planning and Coordination	4.1 Models of Regional Planning Cooperation	Develop the 2045 Treasure Coast RL RTP	June 2023	In Process
	4.2 Intergovernmental Planning and Coordination	2022 TCSHP Annual Report	February 2023	Completed
		2023 TCSHP Annual Report	February 2024	
5. Public Participation, Education & Outreach	5.1 Public Participation, Education & Outreach	Annual PPP Evaluation of Effectiveness and Update	February 2023	Completed
		Title VI Plan Major Update	October 2023	
		Annual PPP Evaluation of Effectiveness and Update	February 2024	
		CAC/BPAC Meeting Summaries	After the CAC/BPAC Meetings	



FY 2022/23 - FY 2023/24 Budget and Expenses

Expense	FY 2020/21 Budget	FY 2020/21 Expenses	FY 2021/22 Budget	FY 2021/22 Budget with Carryover	FY 2021/22 Expenses	FY 2022/23 Budget	FY 2022/23 Expenses as of 6/30/2023	FY 2023/24 Budget	FY 2023/24 Budget with Carryover
Staff Salaries	\$389,471	\$339,714	\$419,294	\$469,051	\$369,871	\$446,468	\$382,458	\$465,981	\$529,991
Staff Benefits	\$183,823	\$180,081	\$152,250	\$155,992	\$155,025	\$200,000	\$169,800	\$210,000	\$240,200
Professional Services/Consultants ¹	\$272,500	\$254,608	\$215,000	\$232,892	\$222,894	\$1,228,000	\$382,160	\$477,000	\$1,322,840
Travel	\$7,000	\$587	\$10,000	\$16,413	\$1,643	\$5,800	\$2,343	\$5,800	\$9,257
Postage	\$150	\$17	\$150	\$283	\$75	\$100	\$0	\$100	\$200
Equipment Rental	\$2,500	\$2,240	\$2,500	\$2,760	\$2,105	\$2,000	\$1,802	\$2,000	\$2,198
Advertising	\$5,000	\$2,993	\$5,000	\$7,007	\$2,350	\$1,890	\$1,103	\$1,890	\$2,677
General/Administrative Charges	\$50,000	\$37,622	\$50,000	\$62,378	\$37,891	\$55,000	\$36,234	\$55,000	\$73,766
Office Supplies	\$3,500	\$991	\$3,500	\$6,009	\$487	\$4,000	\$1,810	\$4,000	\$6,190
Equipment <5000	\$1,000	\$0	\$1,000	\$2,000	\$0	\$1,000	\$972	\$1,000	\$1,028
Supplies-Computer	\$500	\$236	\$500	\$764	\$54	\$1,000	\$0	\$1,000	\$2,000
Operating Supplies	\$2,000	\$1,126	\$2,000	\$2,874	\$978	\$5,000	\$934	\$5,000	\$9,066
Books & Subscriptions	\$225	\$207	\$225	\$243	\$99	\$250	\$84	\$250	\$416
Training/Seminars	\$2,000	\$125	\$15,000	\$16,875	\$0	\$20,300	\$0	\$2,300	\$22,600
Equipment >1000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Communications	\$1,000	\$815	\$1,000	\$1,185	\$861	\$1,000	\$717	\$1,000	\$1,283
Utilities	\$5,000	\$3,499	\$5,000	\$6,501	\$3,838	\$5,000	\$3,125	\$5,000	\$6,875
Building Rent	\$96,306	\$96,175	\$99,326	\$99,457	\$99,056	\$115,000	\$101,155	\$121,000	\$134,845
Total	\$1,021,975	\$921,037	\$981,745	\$1,082,683	\$897,226	\$2,091,808	\$1,084,697	\$1,358,321	\$2,365,432

NOTES

¹ Includes HVAC, Janitorial, and Security Services

SUMMARY OF COSTS INCURRED BY UPWP TASK
 FY 2022/23-4th Quarter (Invoice #4)
 April 1, 2023 - June 30, 2023



FM No. 439326-4-14-01
 Contract # G2931
 F.A. Program No. PL-0311 (060)

UPWP Task No.	UPWP Task Description	Fiscal Year 2022/23 Budget by Task	Staff Hours per Task This Quarter	Salaries Paid this Quarter	Benefitis Paid this Quarter	Expenses Paid This Quarter	Total Reimbursable Costs Incurred This Quarter	Total Reimbursable Costs Previously Billed	Total Reimbursable Costs Incurred To Date	Year-1 Percentage of Budget Expended to Date	Remaining Balance
Element 1 Program Administration											
1.1	Program Management	\$337,069	346.0	\$13,217.16	\$7,510.27	\$41,847.24	\$62,574.67	\$227,649.66	\$290,224.33	86%	\$46,844.67
1.2	UPWP Development	\$3,000	10.5	\$757.16	\$427.90	\$0.00	\$1,185.06	\$923.77	\$2,108.83	70%	\$891.17
Element 2 Modeling, GIS, Data Management, and Performance Measurement											
2.1	Travel Demand Modeling	\$10,000	46.0	\$2,188.78	\$1,209.66	\$0.00	\$3,398.43	\$4,148.09	\$7,546.52	75%	\$2,453.48
2.2	GIS and Data Management	\$15,000	70.5	\$3,169.10	\$1,570.96	\$0.00	\$4,740.05	\$8,474.45	\$13,214.50	88%	\$1,785.50
2.4	Performance Management & Target Setting	\$10,000	49.0	\$2,165.79	\$950.29	\$0.00	\$3,116.08	\$6,125.20	\$9,241.28	92%	\$758.72
Element 3 Recurring and Systems and Project Planning											
3.1	Long Range Transportation Planning	\$10,000	27.5	\$1,880.38	\$1,008.61	\$0.00	\$2,888.99	\$4,430.57	\$7,319.56	73%	\$2,680.44
3.2	Transit Planning	\$10,000	11.0	\$572.64	\$234.63	\$0.00	\$807.27	\$8,258.99	\$9,066.26	91%	\$933.74
3.3	Transportation Improvement Program (TIP)	\$30,000	54.0	\$2,449.99	\$1,232.04	\$9,999.60	\$13,681.63	\$16,221.48	\$29,903.11	100%	\$96.89
3.4	Congestion Management Process (CMP)	\$60,000	19.0	\$885.46	\$535.91	\$36,600.00	\$38,021.37	\$20,878.54	\$58,899.91	98%	\$1,100.09
3.5	Bicycle-Pedestrian/Complete Streets Planning	\$20,000	61.5	\$3,275.51	\$1,658.67	\$0.00	\$4,934.17	\$12,071.68	\$17,005.85	85%	\$2,994.15
3.6	Freight Planning	\$10,000	16.5	\$779.50	\$338.21	\$0.00	\$1,117.71	\$5,523.60	\$6,641.31	66%	\$3,358.69
3.7	Safety and Security Planning	\$20,000	59.5	\$3,395.43	\$1,813.18	\$0.00	\$5,208.61	\$10,686.20	\$15,894.81	79%	\$4,105.19
3.9	Environmental Planning	\$77,000	42.0	\$1,994.91	\$979.05	\$13,250.00	\$16,223.96	\$56,478.37	\$72,702.33	94%	\$4,297.67
3.10	ACES Vehicles Planning	\$10,000	2.0	\$101.99	\$83.93	\$0.00	\$185.92	\$5,641.87	\$5,827.79	58%	\$4,172.21
Element 4 Regional & Intergovernmental Planning & Coordination											
4.1	Models of Regional Planning Cooperation	\$30,000	34.0	\$1,482.21	\$625.43	\$10,000.00	\$12,107.64	\$7,204.84	\$19,312.48	64%	\$10,687.52
4.2	Intergovernmental Planning & Coordination	\$20,000	50.0	\$2,694.52	\$1,511.58	\$0.00	\$4,206.11	\$13,718.86	\$17,924.97	90%	\$2,075.03
Element 5 Public Involvement, Education & Outreach											
5.1	Public Involvement, Education & Outreach	\$65,000	57.0	\$2,389.31	\$978.56	\$5,580.00	\$8,947.88	\$36,857.01	\$45,804.89	70%	\$19,195.11
TOTALS		\$737,069.00	956.0	\$43,399.83	\$22,668.88	\$117,276.84	\$183,345.55	\$445,293.18	\$628,638.73	85%	\$108,430.27

SUMMARY OF COSTS INCURRED BY UPWP TASK
 FY 2022/23-4th Quarter (Invoice # 4)
 April 1, 2023 - June 30, 2023



FM No. 439326-4-14-02
 Contract #G2931
 F.A. Program No. SU-0311(060)

UPWP Task No.	UPWP Task Description	Fiscal Year 2022/23 Budget by Task	Staff Hours per Task This Quarter	Salaries Paid this Quarter	Benefits Paid this Quarter	Expenses Paid This Quarter	Total Reimbursable Costs Incurred This Quarter	Total Reimbursable Costs Previously Billed	Total Reimbursable Costs Incurred To Date	Year-1 Percentage of Budget Expended to Date	Remaining Balance
Element 2	Modeling, GIS, Data Management, and Performance Measurement										
2.1	Travel Demand Modeling	\$60,000	41.0	\$1,888.66	\$938.77	\$12,620.00	\$15,447.43	\$44,551.90	\$59,999.33	100%	\$0.67
2.3	Traffic Count Program Management	\$80,000	80.0	\$4,563.10	\$2,330.96	\$40,386.22	\$47,280.28	\$17,778.13	\$65,058.41	81%	\$14,941.59
Element 3	Recurring and Systems Planning										
3.1	Long Range Transportation Planning	\$60,000	-	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%	\$60,000.00
3.2	Transit Planning	\$35,000	170.5	\$8,282.00	\$2,681.14	\$0.00	\$10,963.14	\$21,838.29	\$32,801.43	94%	\$2,198.57
3.7	Safety and Security Planning	\$95,000	67.5	\$3,862.61	\$2,193.77	\$11,000.00	\$17,056.38	\$31,011.91	\$48,068.29	51%	\$46,931.71
3.10	ACES Vehicles Planning	\$70,000	86.0	\$5,134.50	\$2,325.43	\$35,076.00	\$42,535.93	\$14,568.94	\$57,104.87	82%	\$12,895.13
	TOTALS	\$400,000.00	445.0	\$23,730.87	\$10,470.07	\$99,082.22	\$133,283.16	\$129,749.17	\$263,032.33	66%	\$136,967.67



SUMMARY OF COSTS INCURRED BY UPWP TASK
 FY 2022/23-4th Quarter
 April 1, 2023 - June 30, 2023

FM No. 447339-1-14-01
 Contract # G2840
 CSFA 55.038
 County Grant No. 001497

UPWP Task No.	UPWP Task Description	Fiscal Year 2022/23 Budget by Task	Staff Hours per Task This Quarter	Salaries Paid this Quarter	Benefitis Paid this Quarter	Expenses Paid This Quarter	Total Reimbursable Costs This Quarter	Reimbursable Costs Previously Incurred	Total Reimbursable Costs To Date	Percentage of Budget Expended to Date	Remaining Balance
Element Recurring and Systems and Project Planning											
Task 3.5	Bike Complete Streets Planning	\$250,000.00	38.5	\$1,806.21	\$1,225.47	\$11,500.00	\$14,531.68	\$44,790.02	\$59,321.70	24%	\$190,678.30
	TOTALS	\$250,000.00	38.5	\$1,806.21	\$1,225.47	\$11,500.00	\$14,531.68	\$44,790.02	\$59,321.70	24%	\$190,678.30

SUMMARY OF FTA COSTS INCURRED BY UPWP TASK
 Fiscal Year 2022/23 - 4th Quarter Invoice #4
 April 1, 2023 - June 30, 2023



FM No. 413737-3-14-01
 Contract #G21 /0
 County Grant No. 001645

UPWP Task No.	UPWP Task Description	Fiscal Year 2016/21 Budget by Task	Fiscal Year 2021/22 Budget by Task	Staff Hours per Task This Quarter	Salaries Paid this Quarter	Benefitis Paid this Quarter	Expenses Paid This Quarter	Total Eligible Project Costs Incurred This Quarter	Total Eligible Project Costs Previously Incurred	Total Eligible Project Costs Incurred To Date	Percentage of Budget Expended to Date	Remaining Balance
Element 1	Program Administration											
1.1	Program Management	\$8,492	\$37,049	228.5	\$9,139.35	\$4,928.17	\$0.00	\$14,067.51	\$24,568.53	\$38,636.04	85%	\$6,904.96
Element 3	Recurring and Systems and Project Planning											
3.2	Transit Planning	\$0	\$70,541	159.5	\$7,579.46	\$3,884.46	\$0.00	\$11,463.93	\$59,072.20	\$70,536.13	100%	\$4.87
	TOTALS	\$8,492.00	\$107,590.00	388.0	\$16,718.81	\$8,812.63	\$0.00	\$25,531.44	\$83,640.73	\$109,172.17	94%	\$6,909.83



SUMMARY OF COSTS INCURRED BY UPWP TASK
 FY 2022/23-4th Quarter
 April 1, 2023 - June 30, 2023

FM No. 43202911401
 Contract #G2979
 CSFA 55.002

UPWP Task No.	UPWP Task Description	Fiscal Year 2022/23 Budget by Task	Staff Hours per Task This Quarter	Salaries Paid this Quarter	Benefitis Paid this Quarter	Expenses Paid This Quarter	Total Reimbursable Costs This Quarter	Reimbursable Costs Previously Incurred	Total Reimbursable Costs To Date	Percentage of Budget Expended to Date	Remaining Balance
Element: Recurring and Systems Planning											
Task 3.8	Transportation Disadvantaged Program	\$26,725.00	92.5	\$4,205.08	\$1,758.86	\$1,785.25	\$7,749.19	\$16,784.47	\$24,533.66	92%	\$2,191.34
	TOTALS	\$26,725.00	92.5	\$4,205.08	\$1,758.86	\$1,785.25	\$7,749.19	\$16,784.47	\$24,533.66	92%	\$2,191.34



AGENDA ITEM SUMMARY

Board/Committee:	St. Lucie TPO Board
Meeting Date:	September 6, 2023
Item Number:	9a
Item Title:	Executive Director's Performance Review
Item Origination:	Executive Director Employment Agreement
UPWP Reference:	Task 1.1 - Program Management
Requested Action:	Approve the Executive Director's Performance Review, approve with conditions, or do not approve.
Recommendation:	It is recommended that the Executive Director's Performance Review be approved based on the results of the review.

Attachments

- Staff Report
- 2023 Executive Director Performance Review Form



MEMORANDUM

TO: St. Lucie TPO Board

FROM: Peter Buchwald
Executive Director

DATE: August 28, 2023

SUBJECT: Executive Director's Performance Review

BACKGROUND

The St. Lucie TPO typically reviews the performance of its Executive Director after the conclusion of each fiscal year according to the following scale for each of the skills and abilities that are desired of the Executive Director:

Score

- 2 EXCEEDS JOB EXPECTATIONS: Consistently exemplary performance, including in demanding situations or circumstances.
- 1 MEETS JOB EXPECTATIONS: Competent performance in most situations and circumstances.
- 0 PARTIALLY MEETS JOB EXPECTATIONS -- Shows capability, but in a variable manner. Improvement needed in key areas.
- X DOES NOT MEET JOB EXPECTATIONS -- Major or ongoing problems that negatively impact organizational objectives.

As FY 2022/23 has concluded, a review of the Executive Director's performance for FY 2022/23 is being conducted. The attached form was distributed by the TPO Attorney to TPO Board Members for completion.

ANALYSIS

It may be appropriate to consider using the Unified Planning Work Program (UPWP) Task and Budget Mid-Term Reviews, which is included in the agenda

for the September 6th TPO Board Meeting, as a basis for the Executive Director's performance review for FY 2022/23.

The reviews indicate that all of the UPWP activities and end products were substantially completed in accordance with the UPWP. In addition, the budgeted expenses for the completion of the activities and end products were not exceeded in any of the budget categories of the FY 2022/23 – FY 2023/24 Budget adopted by the TPO Board.

The completed review forms will be tabulated by the TPO Attorney who will present the results at the September 6th Board Meeting.

RECOMMENDATION

It is recommended that the Executive Director's Performance Review be approved based on the results of the review.



Executive Director Performance Review

EMPLOYEE INFORMATION

Name: Peter Buchwald

Review Date:

REVIEW INFORMATION

Reviewer Name:

Review Period:

FY 2022/23

Complete this review using the following scale:

- 2 = EXCEEDS JOB EXPECTATIONS: Consistently exemplary performance, including in demanding situations or circumstances.
- 1 = MEETS JOB EXPECTATIONS: Competent performance in most situations and circumstances.
- 0 = PARTIALLY MEETS JOB EXPECTATIONS -- Shows capability, but in a variable manner. Improvement needed in key areas.
- X = DOES NOT MEET JOB EXPECTATIONS -- Major or ongoing problems that negatively impact organizational objectives.

(Outstanding) (Good) (Needs Work) (Poor)
EVALUATION

2 1 0 X

Maintains effective communications with and availability for the Board

Represents the TPO well, understands **role, and implements the Board's vision**

Understands and maintains compliance with Federal and State TPO requirements

Understands current trends and issues impacting the TPO and informs the Board as to their implications

Hires and develops qualified staff appropriate for day-to-day operations and guides staff to achieve objectives

Maintains public image of the TPO representing service, vitality and professionalism while enhancing the visibility and identity of the TPO

Encourages the creation of partnerships with other organizations that contribute to **the TPO's mission and vision**

Develops sound budgets for current and future revenues and expenses necessary to maintain daily and overall operations

Maintains appropriate benefits and insurance coverage for staff and personnel and procurement policies in compliance with regulatory requirements

Manages assets including technology, equipment, budget, and office space

Encourages public involvement and maintains transparency for the Board, the public, and staff

Meets challenges head on

Additional Comments:

A large empty rectangular box with a black border, intended for additional comments.



AGENDA ITEM SUMMARY

Board/Committee:	St. Lucie TPO Board
Meeting Date:	September 6, 2023
Item Number:	9b
Item Title:	East Midway Road Corridor Study
Item Origination:	Unified Planning Work Program (UPWP)
UPWP Reference:	Task 3.7 – Safety and Security Planning
Requested Action:	Accept the draft East Midway Road Corridor Study, accept with conditions, or do not accept.
Staff Recommendation:	Based on the recommendations of the TPO Advisory Committees and because the Study facilitates the development and programming of projects for future funding to address the identified safety and operational issues, it is recommended that the draft East Midway Road Corridor Study be accepted.

Attachments

- Staff Report
- Draft East Midway Road Corridor Study



Coco Vista Centre
 466 SW Port St. Lucie Blvd, Suite 111
 Port St. Lucie, Florida 34953
 772-462-1593 www.stlucietpo.org

MEMORANDUM

TO: St. Lucie TPO Board

FROM: Peter Buchwald
 Executive Director

DATE: August 29, 2023

SUBJECT: East Midway Road Corridor Study

BACKGROUND

During the development of the TPO's Unified Planning Work Program (UPWP), public and local agency input identified the presence of safety issues on Midway Road from U.S. Highway 1 to Indian River Drive. These safety issues were identified to pertain to excessive speeding, inadequate bicycle and pedestrian infrastructure, the intersection at Wetherbee Road, and the entrance to the St. Lucie County Savannas Recreation Area. In addition, this segment of Midway Road will include a future crossing of the East Coast Greenway/Florida Shared-Use Network (SUN) Trail which may exacerbate the issues. Therefore, Task 3.7, *Safety and Security Planning*, of the UPWP included the completion of the East Midway Road Corridor Study to evaluate the issues.

In February 2023, the TPO Board reviewed and approved the Scope of Services for the Study that was prepared by Kimley-Horn, which is one of the TPO's General Planning Consultants. Subsequently, the Study was completed, and Kimley-Horn will present the results of the Study for review and acceptance.

ANALYSIS

The attached draft Study evaluated the corridor with regard to safety and traffic operations and identifies potential improvements to reduce the severity, frequency, and risk for crashes; to manage speeds; and to enhance traffic operations. The Study includes a corridor overview; crash, traffic, capacity

and speed data analyses; field reviews; and identification of potential improvements.

Based on the data analyses and field reviews, a total of 12 safety and operational issues were identified within the corridor. Potential improvements, also known as countermeasures, were developed to address the identified issues and were programmed into the following four categories:

- Ø Maintenance: Implementation through maintenance work orders on a short timeframe and at a relatively low cost.
- Ø Near-Term: Implementation through a push button or similar-type contract. Further studies and/or coordination may be required.
- Ø Long-Term: Implementation through a separate capital project.
- Ø Already-Programmed Project: Implementation through inclusion in an upcoming programmed project. May require an additional study prior to incorporation into the project.

The countermeasures that were developed range from the implementation of additional signage and roadway markings to the construction of a roundabout at the Weatherbee Road intersection. The estimated costs for the implementation of the countermeasures are provided in a summary table for each category which facilitates the development and programming of projects for future funding.

At their meetings during the week of August 21st, the TPO Advisory Committees reviewed the draft Study, provided comments which have been incorporated into the draft Study, and recommended its acceptance.

RECOMMENDATION

Based on the recommendations of the TPO Advisory Committees and because the Study facilitates the development and programming of projects for future funding to address the identified safety and operational issues, it is recommended that the draft East Midway Road Corridor Study be accepted.



East Midway Road Corridor Study

Between US-1 and Indian River Drive

August 2023

Prepared By:

Kimley»»Horn

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INTRODUCTION

The St. Lucie Transportation Planning Organization (TPO) initiated an operational and safety analysis study for E Midway Road between State Road (SR)-5/US Highway (US)-1/Federal Highway (hereafter called US-1) and Indian River Drive in St. Lucie County. E Midway Road is one (1) of only three (3) roadways that provides connectivity to Indian River Drive between Jensen Beach and Fort Pierce. Additionally, E Midway Road provides access to the St. Lucie County Savannas Recreation Area and will include a future crossing of the East Coast Greenway corridor. A study location map is included as Figure 1.

Study Objective

The purpose of this safety study is to evaluate the corridor from a safety and traffic operations perspective and identify potential improvements to reduce the severity, frequency, and risk for crashes, countermeasures to reduce speeds, and potentially improve traffic operations.

Documentation

This report documents the corridor overview, crash data analysis, traffic data, capacity analysis, speed data analysis, field reviews, and countermeasure identification.

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East Midway Road Corridor Study

Between US-1 and Indian River Drive

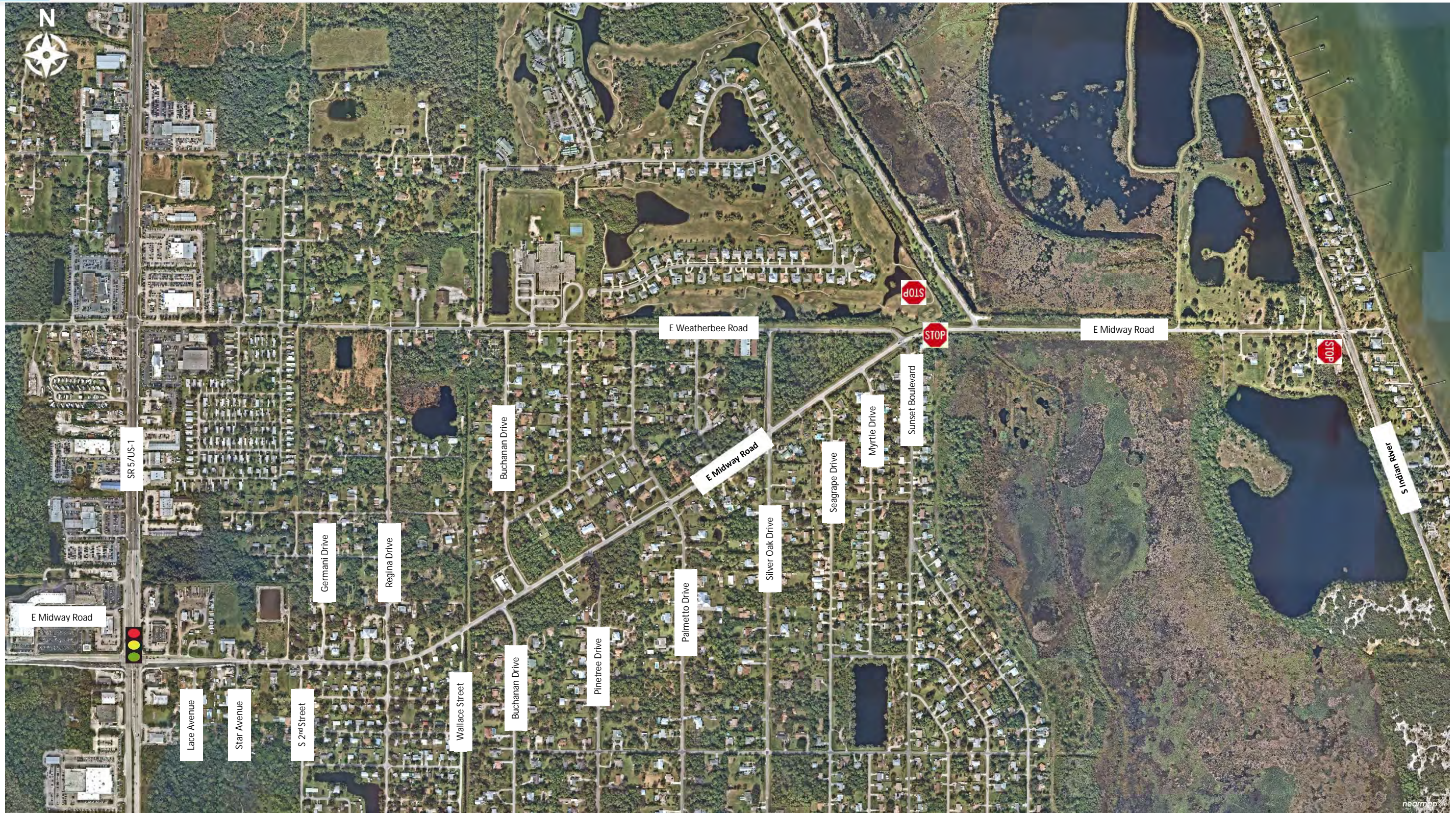


Figure 1: Study Location

CORRIDOR OVERVIEW

E Midway Road is a two-lane undivided roadway within the project limits. The length of the study corridor is approximately two (2) miles. There is one (1) signalized intersection, 17 unsignalized intersections, and one railroad crossing within the study segment. Average daily traffic (ADT) along E Midway Road west of Indian River Drive is 3,600 vehicles (2022 traffic data). Roadway characteristics of the study corridor were compiled from numerous sources including FDOT’s GIS database, Florida Traffic Information Database, and field reviews. Table 1 summarizes roadway characteristics of E Midway Road.

Table 1: Existing Roadway Characteristics

Roadway Type	Two-lane undivided (US-1 to Indian River Drive)	
Functional Classification	Urban Minor Arterial	
FDOT Access Classification	N/A	
Context Classification	C4 – Urban General: US-1 to Buchanan Street C3R – Suburban Residential: Buchanan Street to Indian River Drive	
Speed Limit	30 MPH: Between US-1 and Regina Drive 40 MPH: Between Regina Drive and S Indian River Drive	
Signalized Intersections	One (1) at US-1	
Lighting	Cobra head lighting at the intersections of Lace Avenue, Regina Drive, Buchanan Drive, Pinetree Drive, Palmetto Drive, Silver Oak Drive, Seagrape Drive, Myrtle Drive, and S Indian River Drive.	
Horizontal/Vertical Curves	Horizontal curve associated with E Weatherbee Road/Sunset Boulevard and between Regina Drive to Wallace Street and	
Drainage	Curb and gutter (from US-1 to Lace Avenue) and culvert (Lace Avenue to E Weatherbee Road/Sunset Boulevard)	
2022 Traffic Volumes (AADT)	17,000 (Midway Road from Oleander Avenue to Meville Road, Station 94-8540) 3,600 (CR 712/Midway Roadway - West of Indian River Drive, Station 94-0023)	
Pedestrian Facilities	Sidewalks	South side: from Buchanan Drive (W) to Silver Oak Drive North Side: from Buchanan Drive (E) to Silver Oak Drive & from E of Germani Drive to Regina Drive
	Crosswalks	SR 5/US-1 (signalized)
Bicycle Facilities	Marked bike lane	From US-1 to E Weatherbee Road (Note Faded markings and overgrown grass per Field Review)
Transit Service/Facilities	Area Regional Transit	None
Adjacent Land Uses	residential, open space, retail, church,	

Annual Average Daily Traffic

Figure 2 shows the 2022 synopsis count data extracted from the AADT Florida Department of Transportation (FDOT) Annual Average Daily Traffic (AADT) (Station ID: 948540 and 940023) and the calculated 2023 AADT for the four (4) locations in which 24-hour counts were collected as part of this study (from US-1 to Indian River Drive).

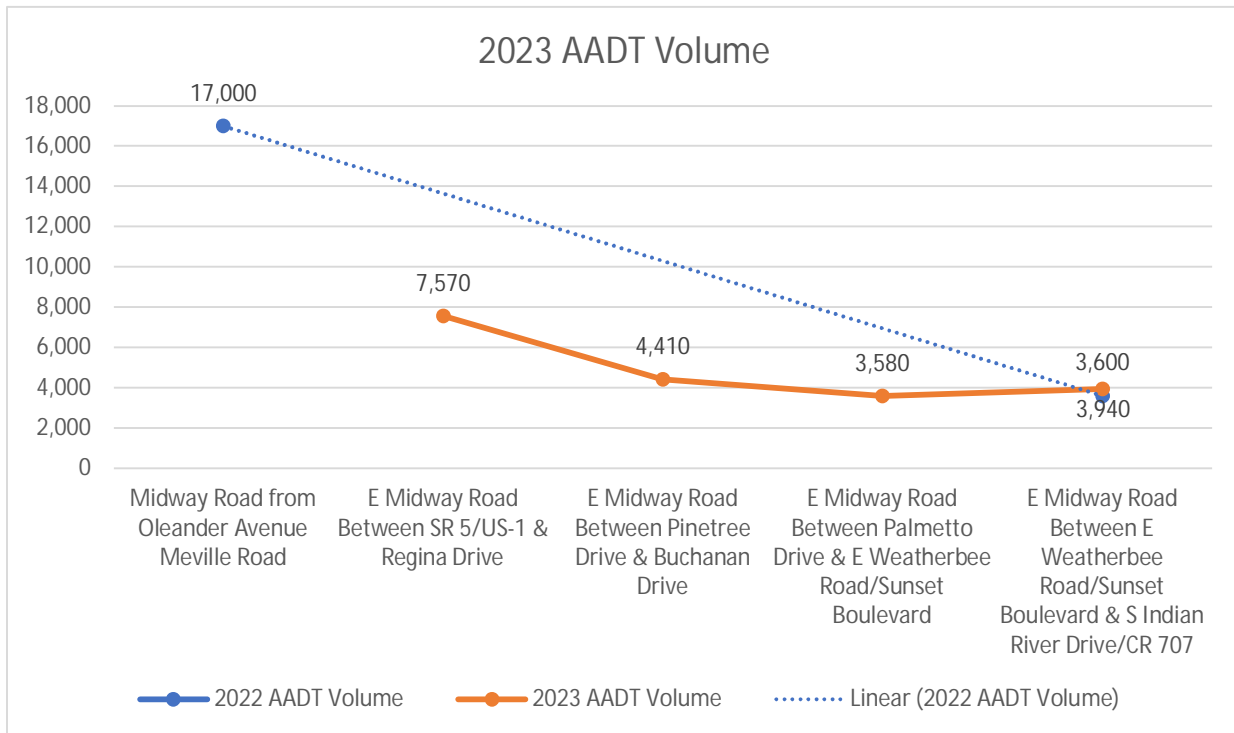


Figure 2: AADT by Location

Context Classification

FDOT’s context classification system describes the general characteristics of the land use, development patterns, and roadway connectivity along a roadway, providing cues as to the types of uses and user groups that will likely utilize the roadway. The context classification of a roadway will inform planning, design, construction, and maintenance approaches to ensure that state roadways are supportive of safe and comfortable travel for their anticipated users.

The study corridor has two (2) context classifications as follows:

- C4 – Urban General from US-1 to Buchanan Drive (approximately 0.6 miles)
 - C4 is described as a “Mix of uses set within small blocks with a well-connected roadway network. May extend long distances. The roadway network usually connects to

residential neighborhoods immediately along the corridor or behind the uses fronting the roadway.”

- C3R – Suburban Residential from Buchanan Drive to Indian River Drive (approximately 1.4 miles)
 - C3R is described as “Mostly residential uses within large blocks and a disconnected or sparse roadway network.”

Different context classifications are associated with different design criteria as outlined in the FDOT Design Manual (FDM). Examples of design control associated with C3R context classification are listed in Table 2.

Table 2: FDM Design Controls for C3R Context Classification

Design Control	Context Class C4	Context Class C3R	East Midway Road
Allowable design speed range	30-45 MPH	35 – 55 MPH	30 and 40 MPH
Minimum travel and auxiliary lane width	25 – 35 MPH: 10 feet 40 – 45 MPH: 11 feet		N/A
Two-way left turn lane	25 – 35 MPH: 11 feet 40 – 45 MPH: 12 feet		N/A
Median width	25 – 35 MPH: 15.5 feet 40 – 45 MPH: 22 feet	25 – 35 MPH: 22 feet 40 – 45 MPH: 22 feet	N/A
Standard sidewalk width	6 feet (may be increased up to 8 feet when the demand is demonstrated)		6 feet ⁽¹⁾

⁽¹⁾ From Buchanan Drive to Silver Oaks Drive

Land Uses and Pedestrian and Bicycle Generators/Attractors

The area immediately surrounding the study corridor is comprised of retail (Walgreens and 7-Eleven at the US-1 intersection), residential units, and preserved land uses (east of Weatherbee Road/Sunset Boulevard). Residential uses are generally located between 750 feet east of US-1 and E Weatherbee Road/Sunset Boulevard. West of S Indian River Drive, there are FEC railroad tracks that run North-South, crossing E Midway Road.

Traffic Signal Timing and Phasing

Available traffic signal timing and phasing plans for the signalized US-1 intersection are included in Appendix A. In addition, signal timing was confirmed during the field review.

Planned FDOT Projects

The Florida Department of Transportation (FDOT) is planning to construct the Savannas Suntrail in St. Lucie County. This project is a 4.2-mile-long trail that will make the Savanna Recreational Area, located north of E Midway Road between Weatherbee Road and S Indian River Drive, more pedestrian friendly and easily accessible to the community within the surrounding area. Pedestrian improvements will be located throughout E Midway Road from just East of Wallace Street to Camp Ground Road (approximately

0.9 miles). Improvements are programmed for implementation through FM 439999-3-52-01 with construction funds allocated in FY 2025. The following Savannah Suntrail improvements are applicable to this study:

- Adding a shared use path for both pedestrians and bicyclists along the south side of W Midway Road between Buchanan Drive and Camp Ground Road.
- Adding a Rapid Rectangular Flashing Beacon (RRFB) for a new pedestrian crossing along the west leg of the E Midway Road and Camp Ground Road intersection.

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CRASH DATA ANALYSIS

Crash data for the most recent complete five years (2018-2022) was obtained from Signal Four Analytics (S4A). Crash data was obtained for E Midway Road from US-1 to Indian River Drive. A summary of the crash analysis is provided below in Table 3. Additional information is included in Appendix B.

Table 3: Crash Data Summary (2018-2022)

Crashes by Year		2018	2019	2020	2021	2022	Total
		41	36	38	34	32	181
Crash Severity	PDO	33	17	23	19	20	112
	Injury	8	18	14	14	11	65
	Fatality	0	1	1	1	1	4
Lighting Conditions	Dark-Lighted	12	19	10	8	9	58
	Daylight	29	17	28	26	23	123
Surface Conditions	Wet	5	3	3	2	4	17
	Dry	35	33	35	32	28	163
	Mud, Dirt, Gravel	1	0	0	0	0	1
Day of the Week	Monday	6	6	11	4	2	29
	Tuesday	8	9	5	5	6	33
	Wednesday	5	5	7	3	6	26
	Thursday	10	3	3	7	3	26
	Friday	4	6	5	3	7	25
	Saturday	8	3	2	11	4	28
	Sunday	0	4	5	1	4	14
Crash Types	Rear End	19	10	13	14	11	67
	Sideswipe	9	2	7	2	2	22
	Left Turn	1	7	4	2	5	19
	Off Road	3	4	2	4	2	15
	Angle	0	5	4	1	4	14
	Head On	0	1	0	1	1	3
	Pedestrian	0	0	0	1	1	2
	Right Turn	0	0	0	2	0	2
	Rollover	4	1	0	0	0	5
	Others	5	6	8	7	6	32

- As shown in Table 3, a total of 181 crashes occurred within the influence area of the subject corridor during the five-year period.
- The frequency of crashes generally decreased each year with crashes in 2022 being approximately 22 percent (22%) less than in 2018.

- There were four (4) fatal crashes, 112 injury crashes, and 65 property damage only (PDO) crashes. Fatal and injury and fatal crashes accounted for 38% of total crashes.
- Fifty-eight crashes occurred during non-daylight (dark, dawn, and dusk) conditions. The percentage of non-daylight condition crashes (32%) is slightly higher than the districtwide average (30%).
- Seventeen of the 181 crashes (9%) occurred during wet roadway surface conditions. This percentage is less than the districtwide average of 18 percent.
- The most frequent crash types were rear end (67 crashes/37 percent), sideswipe (22 crashes/ 20 percent), and left turn (19 crashes/10 percent).
- There were 2 pedestrian crashes.

Crashes by Year

A total of 181 crashes occurred between January 2018 and December 2022.

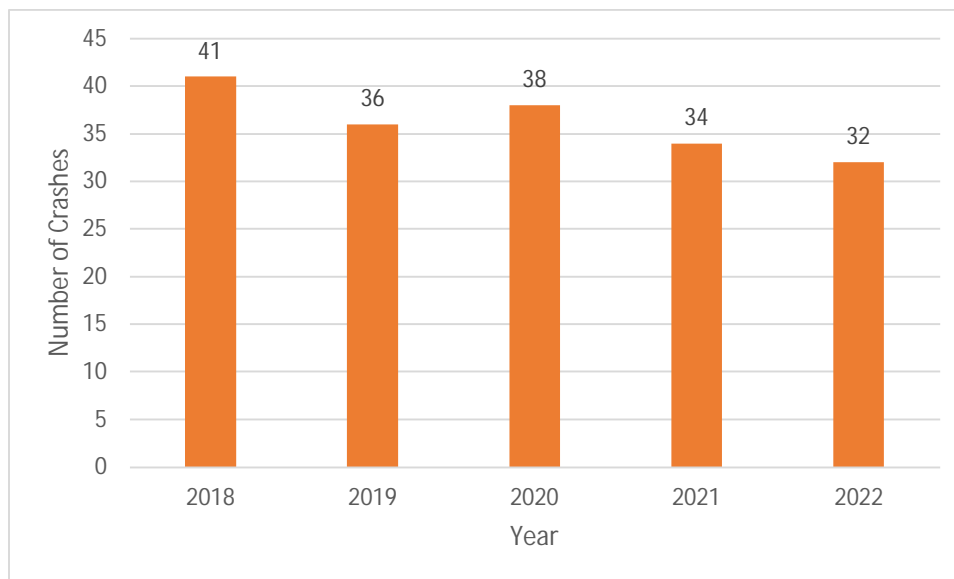


Figure 3: Crashes by Year

Crashes by Severity

There were 4 fatal crashes, 58 injury crashes, 7 serious injury, and 112 non-injury/property damage only (PDO) crashes. Figure 4 shows the crash severity by mode.

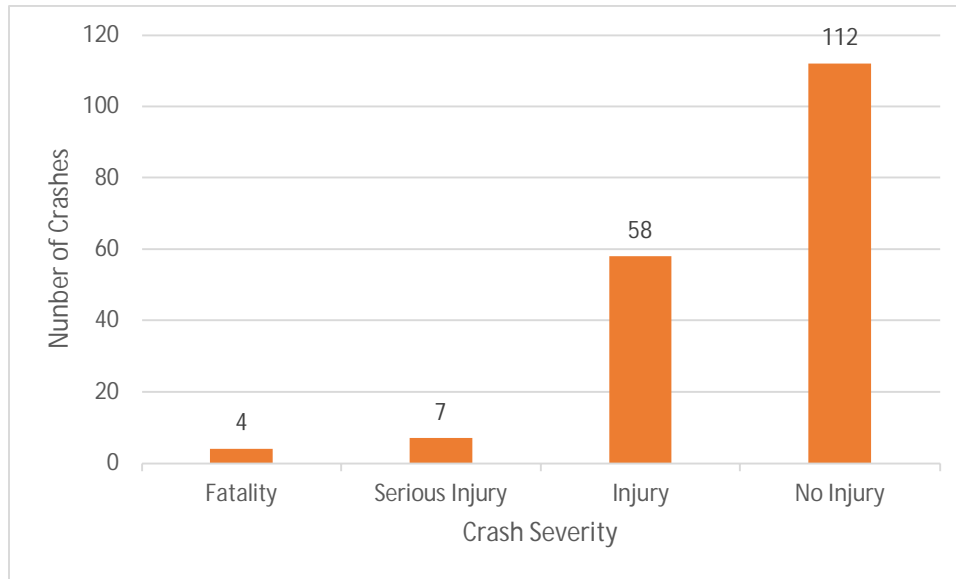


Figure 4: Crashes by Severity

Crashes by Lighting Condition

As shown in Figure 5, 123 crashes occurred during daylight conditions and 58 crashes occurred during non-daylight conditions (dark, dawn, and dusk). The percentage of non-daylight condition crashes (32%) is slightly higher than the statewide average (30%).

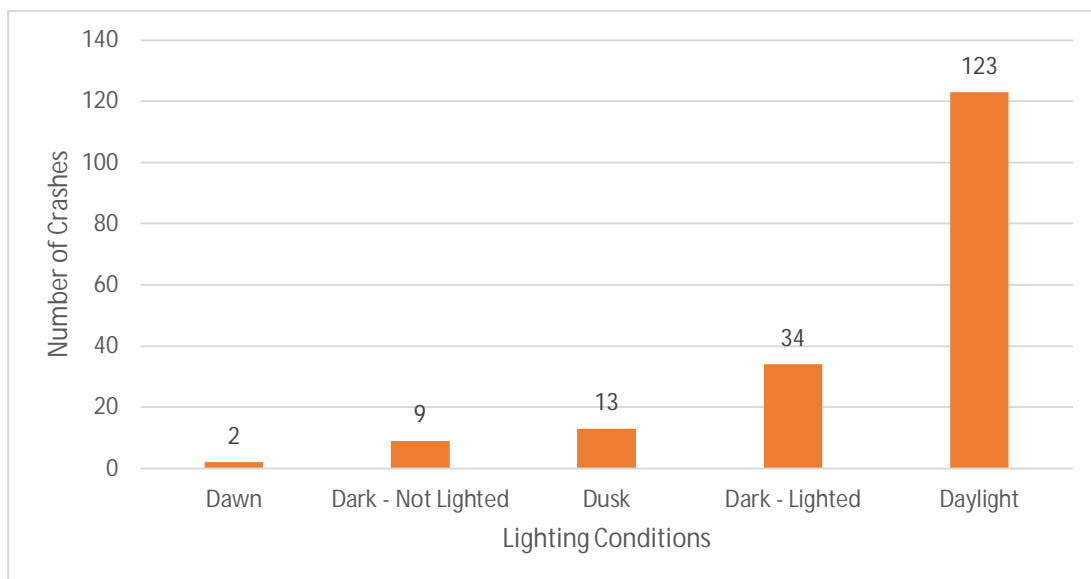


Figure 5: Crashes by Lighting Condition

Crashes by Roadway Surface Condition

As shown in Figure 6, 163 crashes (90%) occurred during dry road surface conditions. There were 17 crashes (9%) that occurred during wet roadway surface conditions. This percentage is lower than the statewide average of 18 percent.

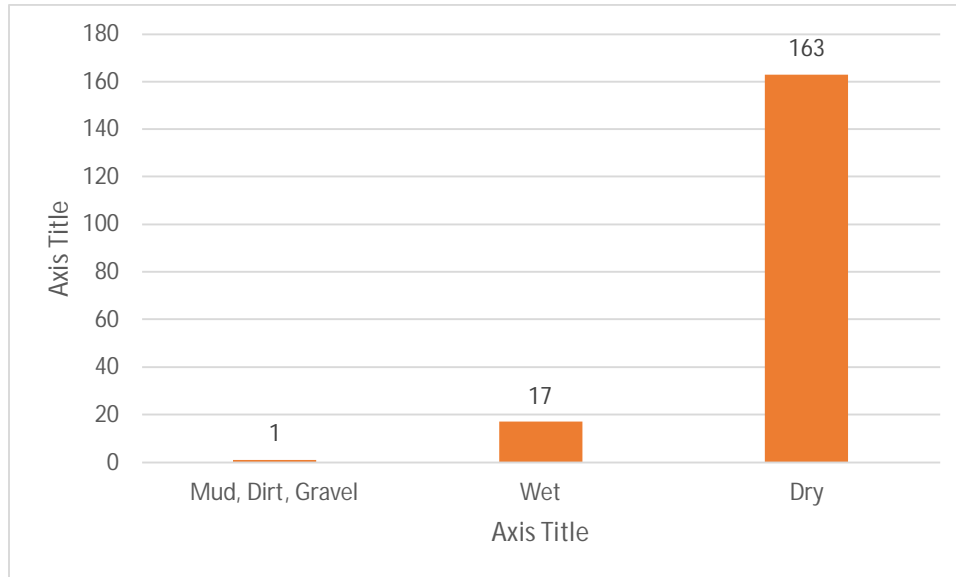


Figure 6: Crashes by Road Surface Condition

Crashes by Type

As shown in Figure 7, the three (3) leading crash types are rear end (67 crashes/37 percent), sideswipe (22 crashes/12 percent), and Left Turn (19 crashes/10 percent).

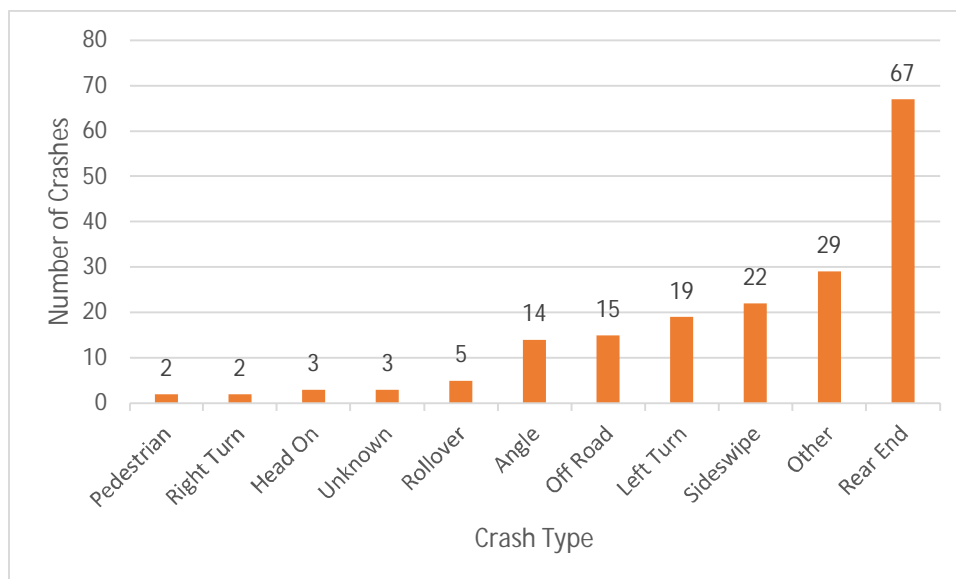


Figure 7: Crashes by Type

Crashes by Location

As shown in Figure 8, the majority of the rear end crashes were not coded to an intersection and therefore may have occurred at a driveway. Additionally, 26 of the 67 rear end crashes (39 percent) occurred at the US-1 intersection. A possible reason for a high incidence of rear-end is the tendency of drivers to speed within the segment and not anticipating a vehicle ahead slowing down due to a driveway or horizontal curve. Additionally, sideswipe crashes may be due to a vehicle attempting to pass another vehicle using the opposing lane and switching back to the original lane when an opposing vehicle approaches.

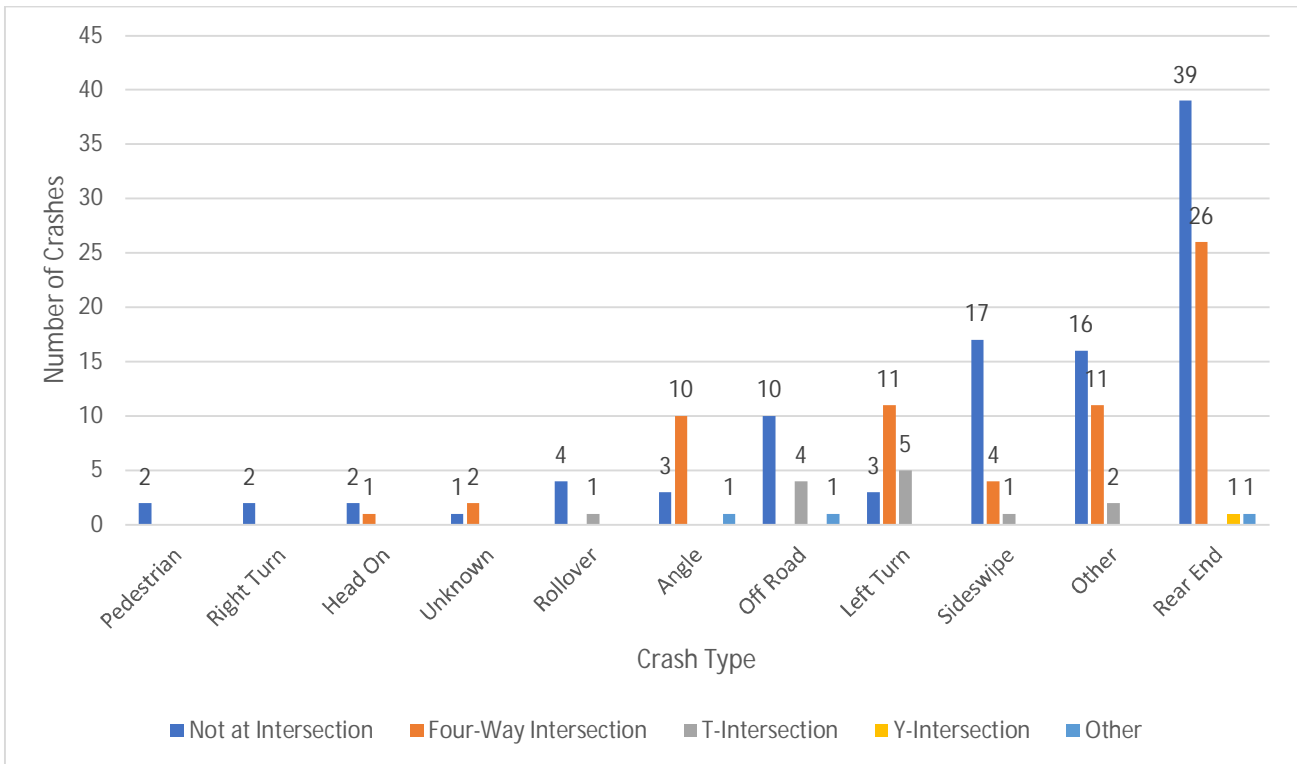


Figure 8: Crashes by Location

TRAFFIC DATA

A.M. peak period (7:00 to 9:00 A.M.) and P.M. peak period (4:00 to 6:00 P.M.) turning movement counts, pedestrian counts, and bicycle counts were collected on March 21, 2023 (Tuesday) at the following intersections:

- US-1 & E Midway Road
- E Weatherbee Road/Sunset Boulevard & E Midway Road
- S Indian River Drive/CR 707 & E Midway Road

Additionally, 24-hour speed and volume data were also collected on March 21, 2023 (Tuesday), by direction (eastbound and westbound) along E Midway Road at the following locations:

- Between US-1 and Regina Drive
- Between Regina Drive and Palmetto Drive
- Between Palmetto Drive and E Weatherbee Road
- Between E Weatherbee Road and Indian River Drive

Turning Movement Counts

Table 4 summarizes the intersection turning movement volumes at each of the three (3) count locations. This data is included in Appendix C.

Table 4: Peak Hour Turning Volumes

US-1 & E Midway Road												
Peak	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
A.M.	238	977	58	78	806	140	227	170	357	107	210	92
P.M.	1	354	974	107	161	1187	262	193	265	329	154	220
E Weatherbee Road/Sunset Boulevard & E Midway Road												
A.M.	41	57	39	45	13	1	2	138	23	8	94	42
P.M.	2	31	27	19	55	49	7	1	120	74	53	196
CR 707/S Indian River Drive & E Midway Road												
A.M.	73	138	0	0	99	57	95	0	120	0	0	0
P.M.	141	138	0	0	229	160	64	0	105	0	0	0

East Midway Road Corridor Study

Between US-1 and Indian River Drive

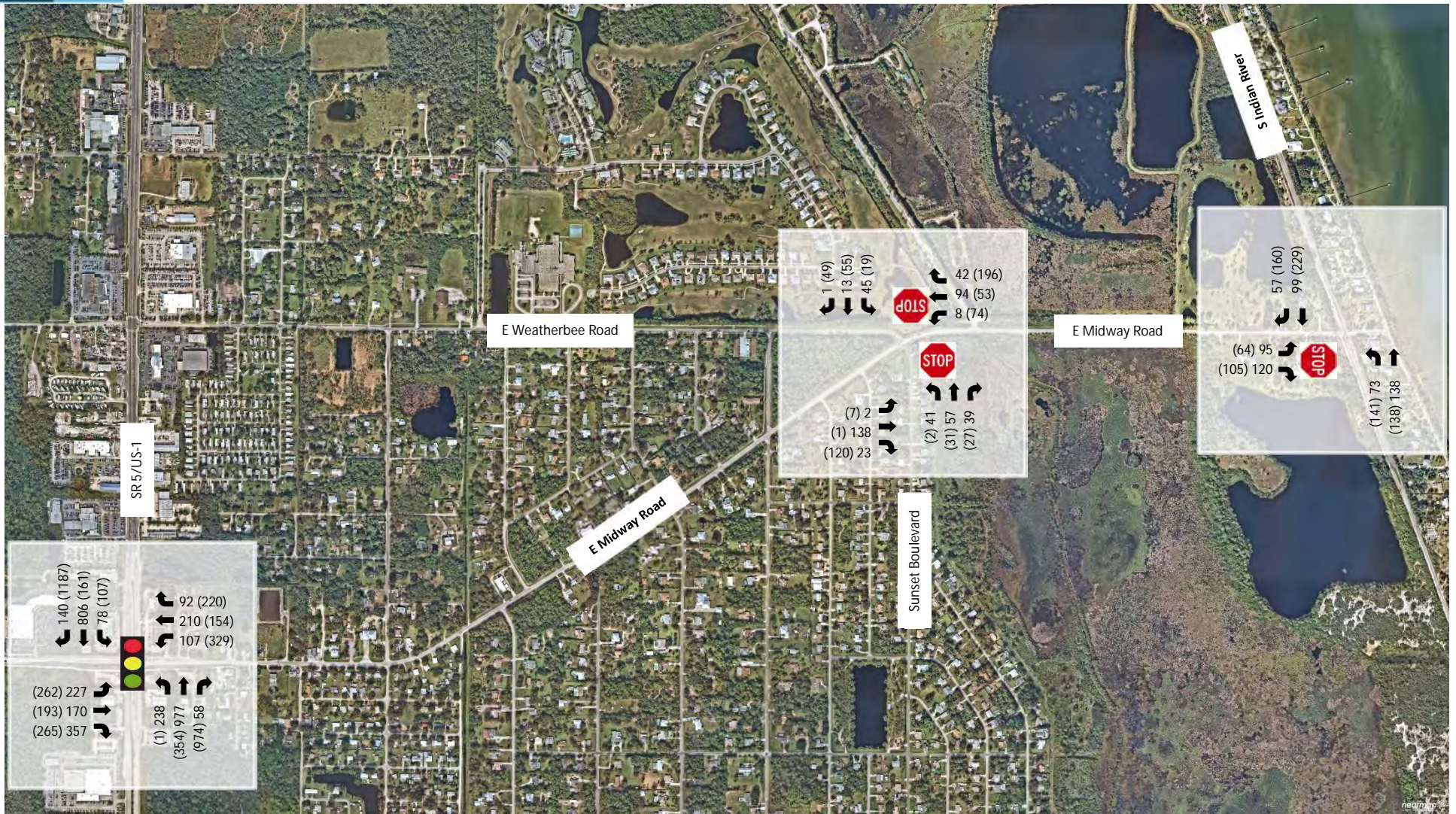


Figure 9: Turning Movement Counts

CAPACITY ANALYSIS

The study area intersections operating conditions were analyzed for existing conditions) using Trafficware’s *SYNCHRO 11* software, which applies methodologies outlined in the Transportation Research Board’s (TRB’s) *Highway Capacity Manual* (HCM), 2000/2010/6th Editions. Synchro worksheets for the study intersections are included in Appendix C.

A summary of the intersection capacity analysis results for the A.M. and P.M. peak hours is presented in Tables 5 and 6, respectively.

Table 5: A.M. Peak Hour Intersection Capacity Analysis						
Intersection	Traffic Control	Overall LOS/Delay	Approach LOS			
			EB	WB	NB	SB
US-1 & E Midway Road	Signalized	E/59.6	F/174.8	E/60.3	C/23.2	B/19.8
Sunset Boulevard/E Weatherbee Road & E Midway Road	Two-Way Stop Control	⁽¹⁾ /4.4	⁽³⁾	⁽³⁾	B/10.9	B/11.0
S Indian River Drive/CR 707 & E Midway Road	One-Way Stop Control	⁽¹⁾ /5.3	B/11.8	⁽²⁾	⁽³⁾	⁽³⁾

Notes: ⁽¹⁾ Overall intersection LOS is not defined, as intersection operates under stop-control conditions.
⁽²⁾ Approach does not exist.
⁽³⁾ Approach operates under free-flow conditions. LOS is not defined.

Table 6: P.M. Peak Hour Intersection Capacity Analysis						
Intersection	Traffic Control	Overall LOS/Delay	Approach LOS			
			EB	WB	NB	SB
US-1 & E Midway Road	Signalized	D/50.6	F/137.0	E/61.5	C/26.9	B/26.7
Sunset Boulevard/E Weatherbee Road & E Midway Road	Two-Way Stop Control	⁽¹⁾ /4.0	⁽³⁾	⁽³⁾	B/12.1	B/13.3
S Indian River Drive/CR 707 & E Midway Road	One-Way Stop Control	⁽¹⁾ /4.3	B/13.8	⁽²⁾	⁽³⁾	⁽³⁾

Notes: ⁽¹⁾ Overall intersection LOS is not defined, as intersection operates under stop-control conditions.
⁽²⁾ Approach does not exist.
⁽³⁾ Approach operates under free-flow conditions. LOS is not defined.

SPEED DATA ANALYSIS

The 24-hour speed data was collected by direction (eastbound and westbound) on Tuesday March 21, 2023 along E Midway Road at the following four (4) locations:

- Between US-1 and Regina Drive
- Between Regina Drive and Palmetto Drive
- Between Palmetto Drive and E Weatherbee Road
- Between E Weatherbee Road and Indian River Drive

A summary of the speed data is provided in Table 7 and detailed speed data is included in Appendix C. The posted speed limit on E Midway Road between US-1 and Regina Drive is 30 mph and the posted speed limit between Regina Drive and S Indian River Drive is 40 MPH. The 50th percentile speeds, 85th percentile speed, and 10-MPH pace per segment is shown in Table 7. As shown in Table 7 both the 50th percentile and 85th percentile speeds for all segments are greater than the posted speed limit.

Table 7: Speed Data Summary

Direction	Between US-1 and Regina Drive	Between Regina Drive and Palmetto Drive	Between Palmetto Drive and W Weatherbee Road/Sunset Boulevard	Between W Weatherbee Road/Sunset Boulevard and S Indian River Drive
Posted Speed Limit	30 MPH	40 MPH	40 MPH	40 MPH
50 th Percentile Speed				
Eastbound	39	43	42	46
Westbound	39	44	43	47
85 th Percentile Speed				
Eastbound	44 (+14)	48 (+8)	48 (+8)	52 (+12)
Westbound	43 (+13)	49 (+9)	49 (+9)	52 (+12)
10-MPH Pace				
Eastbound	34-43	39-48	39-48	41-50
Westbound	34-43	39-48	39-48	42-51

FIELD REVIEWS

Field reviews were conducted on Thursday June 15, 2023. Attendees included Peter Buchwald (St. Lucie TPO), Ian Rairden (Kimley-Horn), and Bud Wild (corridor resident). The following field reviews were conducted:

- Afternoon (from 3:30 pm to 6:00 pm)
 - Drive corridor with all attendees
 - Walking audit at the following locations
 - Regina Drive (horizontal curve)
 - Weatherbee Road/Sunset Boulevard
 - Camp Ground Road
 - S Indian River Drive
 - General observations of pedestrian/bicycle activity
 - Sidewalk and bike lane locations and conditions
 - General observations of speeding vehicles and driver behavior
 - No speed data was collected during field review
 - Traffic operations observations at US-1 & E Midway Road intersection
 - Documented signal timing, queues, and cycle failures
- Nighttime (from 8:00 pm to 9:00 pm)
 - Drive the corridor to perform a qualitative assessment of lighting levels
 - Collect light meter readings
 - General observations of pedestrian/bicycle activity
 - General observations of speeding vehicles and driver behavior
 - No speed data was collected during field review

The field review map handout is included as Appendix D.

LIGHT METER READINGS

A sample of light meter readings taken along the study corridor and the results are summarized in Appendix E. Light meter readings ranged from 0.01 foot-candles (fc) (throughout the majority of the corridor) to 0.37 fc (on Pinetree Drive). The most frequent light meter readings were between 0.01 fc and 0.02 fc. Note that the majority of the road is residential. Additionally, as previously noted the percentage of non-daylight condition crashes (32%) is slightly higher than the statewide average (30%).

The summary of issues identified, and preliminary recommendations are documented in the next chapter.

COUNTERMEASURE IDENTIFICATION

This section summarizes the issues identified through desktop analysis and field reviews and preliminary countermeasures to address the issues. Both location specific and corridor-wide countermeasures were identified using safety best practices such as systemic improvement implementation opportunities and proven safety countermeasures. The proposed countermeasures were categorized based on anticipated implementation as noted below.


- Maintenance: Implementation through maintenance work orders (local agency) on a short timeframe and at a relatively low cost.
- Near term: Implementation through a push button contract. Further studies and/or coordination with local agency may be required.
- Long term: Implementation through a separate capital project.
- Already Programmed Project: Implementation through incorporation into an upcoming programmed project. May require an additional study prior for inclusion in the other project.



The issues and proposed countermeasures are summarized into one-page briefing sheets in the next several pages. Overall, there are four (4) corridor-wide (impacting multiple locations) issues/countermeasures and 13 location specific issues/countermeasures. Furthermore, three (3) issues are primarily pedestrian focused, and one (1) issue is primarily bicycle focused. CMF Summary sheets are provided in Appendix F.





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<i>Issue 1</i>	Crashes at T-intersection	
<i>Location</i>	E Midway Road at S Indian River Drive	
<i>Issue Description:</i>		
<ul style="list-style-type: none"> Limited safety restrictions on eastbound approach. 		
 <p><i>Example: E Midway Road at S Indian River Drive, note no barrier</i></p>	 <p><i>Example: Three (3) OM1-1 yellow reflectors warning signs</i></p>	
 <p><i>Example: Run-off Road fatality that occurred during nighttime dry road surface conditions.</i></p>	 <p><i>Example: Run-off Road fatality that occurred during nighttime dry road surface conditions.</i></p>	
<i>Suggestions for Improvements:</i>		<i>Implementation:</i>
<ul style="list-style-type: none"> Determine the feasibility of installing Fitch Barriers OR crash cushions 		Near Term
<ul style="list-style-type: none"> Add a T-intersection sign (W2-4) with a supplemental stop ahead (W3-1) 		Maintenance
<ul style="list-style-type: none"> Add a T-intersection sign (W2-4) with a supplemental distance sign (W16-2aP) 		Maintenance
<ul style="list-style-type: none"> Replace existing STOP sign with flashing LED STOP sign 		Maintenance
<i>Crash History (if applicable): 6 off-road crashes (2 fatalities)</i>		
<i>Crash Modification Factor (if applicable): 0.31 (CMF ID 55 for crash cushions at fixed roadside features) and 0.585 (CMF ID 6602 for replacing a standard stop sign with flashing LED stop sign)</i>		

<i>Issue 2</i>	Cracked and uneven roadway	
<i>Location</i>	E Midway Road at S Indian River Drive and throughout the segment	
<i>Issue Description:</i> <ul style="list-style-type: none"> • Cracked and uneven roadway 		
<div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%; text-align: center;">  <p><i>Example: Looking north on S Indian River Drive at E Midway Road</i></p> </div> <div style="width: 50%; text-align: center;">  <p><i>Example: Looking south on S Indian River Drive at E Midway Road</i></p> </div> <div style="width: 50%; text-align: center;">  <p><i>Example: Looking west on E Midway Road at S Indian River Drive</i></p> </div> <div style="width: 50%; text-align: center;">  <p><i>Example: Cracked pavement at E Midway Road/ E Weatherbee Road/ Sunset Boulevard</i></p> </div> </div>		
<i>Suggestions for Improvements:</i>		<i>Implementation:</i>
<ul style="list-style-type: none"> • Mill and resurface roadway 		Maintenance
<i>Crash History (if applicable): N/A</i>		
<i>Crash Modification Factor (if applicable): Not available</i>		

<i>Issue 3</i>	Railroad Marking not up to current standards	
<i>Location</i>	FEC crossing at E Midway Road	
<i>Issue Description:</i>		
<ul style="list-style-type: none"> Railroad markings/dynamic envelope not up to current standards (2022/2023 FDOT Standards/Florida Design Manual (FDM)) 		
		
<p><i>Example: E Midway Road at FEC, looking east</i></p>		<p><i>Example: E Midway Road at FEC, looking west</i></p>
<i>Suggestions for Improvements:</i>		<i>Implementation:</i>
<ul style="list-style-type: none"> Re-stripe railroad approach striping to current standards 		Maintenance
<i>Crash History (if applicable): N/A</i>		
<i>Crash Modification Factor (if applicable): Not available</i>		
<i>Notes:</i>		

<i>Issue 4</i>	No shoulder/recovery area provided	
<i>Location</i>	Between E Weatherbee Road/Sunset Boulevard and S Indian River Drive	
<i>Issue Description:</i>		
<ul style="list-style-type: none"> • Typical section does not provide shoulder on either side of the roadway 		
 <p>Example: Looking east at Camp Ground Road</p>		 <p>Example: Looking west at Camp Ground Road</p>
<i>Suggestions for Improvements:</i>		<i>Implementation:</i>
<ul style="list-style-type: none"> • Add a shoulder/recovery area throughout the segment 		Long Term
<i>Crash History (if applicable): N/A</i>		
<i>Crash Modification Factor (if applicable): Not available</i>		
<i>Notes:</i>		

<i>Issue 5</i>	Poor visibility/sight distance on E Weatherbee Road/Sunset Boulevard approaches to E Midway Road	
<i>Location</i>	E Midway Road & E Weatherbee Road/Sunset Boulevard	
<i>Issue Description:</i> <ul style="list-style-type: none"> Limited sight distance at E Weatherbee Road and Sunset Boulevard approaches to E Midway Road due to horizontal roadway curvature 		
<div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%; text-align: center;">  <p><i>Example: Looking west on E Midway Road</i></p> </div> <div style="width: 50%; text-align: center;">  <p><i>Example: Looking southeast at Sunset Boulevard</i></p> </div> <div style="width: 50%; text-align: center;">  <p><i>Example: Looking north on E Weatherbee Road</i></p> </div> <div style="width: 50%; text-align: center;">  <p><i>Example: Looking east on E Midway Road</i></p> </div> </div>		
<i>Suggestions for Improvements:</i>		<i>Implementation:</i>
<ul style="list-style-type: none"> Install an advisory Speed Limit (W3-5) sign OR a Right Turn Arrow with a supplemental advisory Speed (W13-1P) sign on E Weatherbee Road 		Maintenance
<ul style="list-style-type: none"> Install Reduced Speed Ahead (R2-5A) sign on E Weatherbee Road 		Maintenance
<ul style="list-style-type: none"> Replace static diamond-shaped horizontal alignment (W1-2) signs with LED diamond-shaped horizontal alignment (W1-2) signs 		Maintenance
<ul style="list-style-type: none"> Replace static chevron alignment (W1-8) signs with LED chevron alignment (W1-8) signs 		Maintenance
<ul style="list-style-type: none"> Determine feasibility of constructing a roundabout 		Long Term
<ul style="list-style-type: none"> Determine feasibility to straighten Weatherbee Road (east to west) and connect to E Midway Road such that Weatherbee Road to E Midway Road east of the horizontal curve becomes main movement and E Midway Road west of Wetherbee Road becomes minor approach 		Long Term
<i>Crash History (if applicable): 6 angle crashes</i>		
<i>Crash Modification Factor (if applicable): 0.585 (CMF ID 6602 for Flashing LED STOP signs) and 0.488 (CMF ID 4870 for Conversion of intersection to roundabout)</i>		
<i>Notes: Weatherbee Elementary School located along Weatherbee Road west of intersection; therefore, consideration should be given to the increase in traffic in front of school if roadway is realigned.</i>		

<i>Issue 5 Continued</i>	Poor visibility/sight distance on E Weatherbee Road/Sunset Boulevard approaches to E Midway Road
<i>Location</i>	E Midway Road & E Weatherbee Road/Sunset Boulevard

Issue Description:

- Limited sight distance at E Weatherbee Road and Sunset Boulevard approaches to E Midway Road due to horizontal roadway curvature

Roundabout Concepts:

- Preliminary layouts for the roundabout were prepared to determine if the roundabout could be implemented in the current right-of-way. Two (2) layouts were considered:
 - Construct in the current location as the existing intersection (see Figure 10)
 - Construct an oval roundabout in the right-of-way just north of the existing intersection and re-align approaches






Figure 10: Single Lane Roundabout Current Location

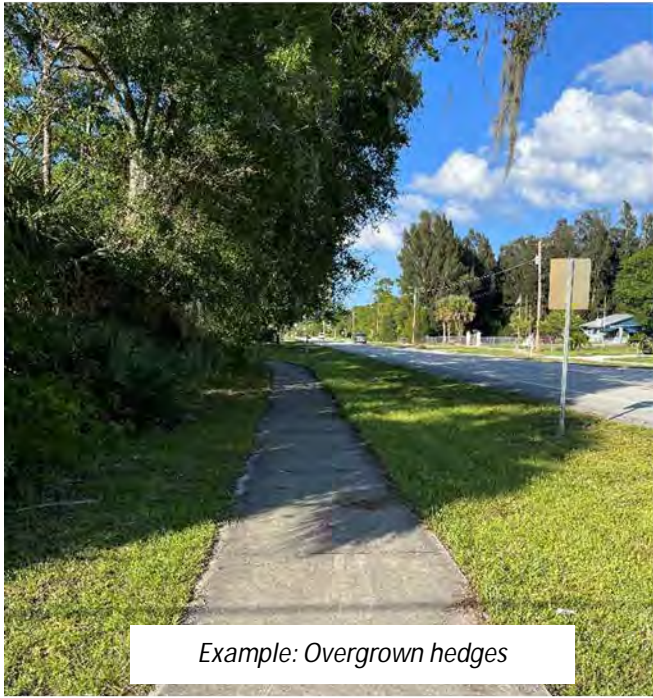




Figure 11: Single Lane Roundabout shifted North

<i>Issue 6</i>	Sidewalk connection missing	
<i>Location</i>	E Midway Road & Silver Oak Drive	
<i>Issue Description:</i>		
<ul style="list-style-type: none"> • Sidewalk on the southeast corner does not connect to any existing sidewalk. • Faded pedestrian crosswalk on Silver Oak Drive leg 		
<i>Suggestions for Improvements:</i>		<i>Implementation:</i>
<ul style="list-style-type: none"> • Provide additional Sidewalk/Shared Use Path along E Midway Road 		Already Programmed Project
<i>Crash History (if applicable): N/A</i>		
<i>Crash Modification Factor (if applicable): Not available</i>		
<i>Notes: Improvements will be provided through the Savannas Preserve State Park GAP Project (FM 439999-3-52-01)</i>		

<i>Issue 7</i>	Sidewalk connection missing	
<i>Location</i>	E Midway Road & Buchanan Drive	
<i>Issue Description:</i>		
<ul style="list-style-type: none"> • Sidewalk on the south end of Buchanan Drive has no connection to any roads. • Faded pedestrian crosswalk on Buchanan Drive. 		
		
<p><i>Example: No sidewalk connection on the south end of Buchanan Drive</i></p>	<p><i>Example: Faded pedestrian crosswalk on Buchanan Drive</i></p>	
<i>Suggestions for Improvements:</i>		<i>Implementation:</i>
<ul style="list-style-type: none"> • Provide additional Sidewalk/Shared Use Path along E Midway Road 		Already Programmed Project
<i>Crash History (if applicable): N/A</i>		
<i>Crash Modification Factor (if applicable): Not available</i>		
<i>Notes: Improvements will be provided through the Savannas Preserve State Park GAP Project (FM 439999-3-52-01)</i>		

<i>Issue 8</i>	Missing speed limit sign	
<i>Location</i>	E Midway Road east of SR 5/US-1	
<i>Issue Description:</i>		
<ul style="list-style-type: none"> No speed limit sign is placed in the eastbound direction before the 35-mph advisory speed limit sign, east of S 2nd Street. 		
		
<p><i>Example: Note the advisory speed limit sign before the curve near the fire station</i></p>		
<i>Suggestions for Improvements:</i>		<i>Implementation:</i>
<ul style="list-style-type: none"> Install speed limit sign 		Maintenance
<i>Crash History (if applicable): N/A</i>		
<i>Crash Modification Factor (if applicable): Not available</i>		
<i>Notes: Coordinate with St. Lucie County to determine appropriate posted speed limit for this sections, 30-mph or 40-mph</i>		

<i>Issue 9</i>	Effective width of pedestrian facilities impacted by overgrown landscaping	
<i>Location</i>	Between Buchanan Drive to Silver Oak Drive	
<i>Issue Description:</i>		
<ul style="list-style-type: none"> Vegetation blocks sidewalks along study corridor 		
 <p><i>Example: Overgrown hedges</i></p>	 <p><i>Example: Overgrown hedges and ingrown grass at the sidewalk</i></p>	
<i>Suggestions for Improvements:</i>		<i>Implementation:</i>
<ul style="list-style-type: none"> Coordinate with private land owners to trim landscaping to improve effective width of sidewalk 		Maintenance
<i>Crash History (if applicable): N/A</i>		
<i>Crash Modification Factor (if applicable): Not available</i>		
<i>Notes:</i>		

<i>Issue 10</i>	Faded bike lane markings	
<i>Location</i>	Corridor-wide	
<i>Issue Description:</i>		
<ul style="list-style-type: none"> Faded bike lane markings and missing bike lane signs 		
 <p><i>Example: Faded bike lane markings</i></p>		
<i>Suggestions for Improvements:</i>		<i>Implementation:</i>
<ul style="list-style-type: none"> Re-Stripe bike lane markings Add and replace bike lane signs 		Near Term
		Maintenance
<i>Crash History (if applicable): N/A</i>		
<i>Crash Modification Factor (if applicable): Not available</i>		
<i>Notes:</i>		

<i>Issue 11</i>	Alerting drivers of Emergency Vehicles	
<i>Location</i>	Between Germani Drive and Regina Drive	
<i>Issue Description:</i>		
<ul style="list-style-type: none"> No signage alerting westbound traffic that they are approaching an emergency vehicles driveway/fire station. 		
 <p><i>Example: An Emergency Vehicle sign posted in the eastbound direction</i></p>		
<i>Suggestions for Improvements:</i>		<i>Implementation:</i>
<ul style="list-style-type: none"> Install an Emergency Vehicle sign (W11-8) with supplemental ahead sign (W16-9P) OR distance sign (W16-2aP). 		Maintenance
<ul style="list-style-type: none"> Consider installation of Emergency Vehicle Exiting When Flashing lighted traffic sign (TS50-S12DB) 		Near Term
<i>Crash History (if applicable): N/A</i>		
<i>Crash Modification Factor (if applicable): Not available</i>		
<i>Notes:</i>		

<i>Issue 12</i>	Speeding	
<i>Location</i>	Corridor-wide	
<i>Issue Description:</i>		
<ul style="list-style-type: none"> • Speeding throughout the segment 		
<i>Suggestions for Improvements:</i>		<i>Implementation:</i>
• <i>Install missing speed limit sign (Issue #8)</i>		<i>Maintenance</i>
• <i>Replace static chevron alignment (W1-8) signs with LED chevron alignment (W1-8) signs (Issue #5)</i>		<i>Maintenance</i>
• <i>Implement speed feedback signs</i>		<i>Near Term</i>
• <i>Coordinate with local agency to add optical speed bars</i>		<i>Near Term</i>
• <i>Coordination with the St. Lucie County Sheriff's Office for speed enforcement</i>		<i>Near Term</i>
• <i>Consider increasing lane width markings (to 8-inches) to visually reduce lane width</i>		<i>Near Term</i>
• <i>Implement a double yellow center line with new RPMs</i>		<i>Near Term</i>
• <i>Implement in-pavement chevron markings on approaches to horizontal curves</i>		<i>Near Term</i>
• <i>Determine feasibility of constructing a roundabout</i>		<i>Long Term</i>
<i>Crash History (if applicable): N/A</i>		
<i>Crash Modification Factor (if applicable): 0.585 (CMF ID 6885 for installing dynamic speed feedback sign) and 0.488 (CMF ID 4870 for Conversion of intersection to roundabout)</i>		
<i>Notes:</i>		

COUNTERMEASURE SUMMARY

This section summarizes the identified issues and suggested improvements by implementation category. The implementation categories include Maintenance, Near-term, Long-Term, and Already Programmed Projects recommendations. It should be noted that there could be more than one suggested improvement for an identified issue and those may fall into different implementation categories.

The follow up studies that have been completed and/or planned are also identified in the tables below.

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Table 8: Maintenance Recommendations

Issue Number	Location	Issue	Suggestion	CMF	Opinion of Probable Construction Cost
1	E Midway Road at S Indian River Drive	Limited safety restrictions on eastbound approach.	<i>Add a T-intersection sign (W2-4) with a supplemental stop ahead (W3-1)</i>	-	\$1,000
1	E Midway Road at S Indian River Drive	Limited safety restrictions on eastbound approach.	<i>Add a T-intersection sign (W2-4) with a supplemental distance sign (W16-2aP)</i>	-	\$1,000
5	E Midway Road & E Weatherbee Road/Sunset Boulevard	Limited sight distance at E Weatherbee Road and Sunset Boulevard approaches to E Midway Road due to horizontal roadway curvature	<i>Install an advisory Speed Limit (W3-5) sign OR a Right Turn Arrow with a supplemental advisory Speed (W13-1P) sign on E Weatherbee Road</i>	-	\$1,000
5	E Midway Road & E Weatherbee Road/Sunset Boulevard	Limited sight distance at E Weatherbee Road and Sunset Boulevard approaches to E Midway Road due to horizontal roadway curvature	<i>Install Reduced Speed Ahead (R2-5A) sign on E Weatherbee Road</i>	-	\$600
8	E Midway Road east of US-1	No speed limit sign is placed in the eastbound direction before the 35-mph advisory speed limit sign, east of S 2 nd Street.	<i>Install speed limit sign</i>	-	\$600
9	Between Buchanan Drive to Silver Oak Drive	Vegetation blocks sidewalks along study corridor	<i>Coordinate with private land owners to trim landscaping to improve effective width of sidewalk</i>	-	N/A
10	Corridor-wide	Faded bike lane markings and missing bike lane signs	<i>Add and replace bike lane signs</i>	-	\$6,400
11	Between Germani Drive and Regina Drive	No signage alerting westbound traffic that they are approaching an emergency vehicles driveway/fire station.	<i>Install an Emergency Vehicle sign (W11-8) with supplemental ahead sign (W16-9P) OR distance sign (W16-2aP).</i>	-	\$1,000
12	Corridor-wide	Speeding	<i>Install missing speed limit sign (Issue #8)</i>	-	\$600

Table 9: Near-Term Recommendations

Issue Number	Location	Issue	Suggestion	CMF	Opinion of Probable Construction Cost
1	E Midway Road at S Indian River Drive	Limited safety restrictions on eastbound approach.	<i>Determine the feasibility of installing Fitch Barriers OR crash cushions</i>	0.31	TBD
1	E Midway Road at S Indian River Drive	Limited safety restrictions on eastbound approach.	<i>Replace existing STOP sign with flashing LED STOP sign</i>	0.585	\$12,600
3	FEC crossing at E Midway Road	Railroad markings/dynamic envelope not up to current standards	<i>Re-stripe railroad approach striping to current standards</i>	-	\$25,000
5	E Midway Road & E Weatherbee Road/Sunset Boulevard	Limited sight distance at E Weatherbee Road and Sunset Boulevard approaches to E Midway Road due to horizontal roadway curvature	<i>Replace static diamond-shaped horizontal alignment (W1-2) signs with LED diamond-shaped horizontal alignment (W1-2) signs</i>	-	\$13,000
5	E Midway Road & E Weatherbee Road/Sunset Boulevard	Limited sight distance at E Weatherbee Road and Sunset Boulevard approaches to E Midway Road due to horizontal roadway curvature	<i>Replace static chevron alignment (W1-8) signs with LED chevron alignment (W1-8) signs</i>	-	\$100,000

Table 10 continued: Near-Term Recommendations

11	Between Germani Drive and Regina Drive	No signage alerting westbound traffic that they are approaching an emergency vehicles driveway/fire station.	<i>Consider installation of Emergency Vehicle Exiting When Flashing lighted traffic sign (TS50-S12DB)</i>	-	\$8,400
12	Corridor-wide	Speeding	<i>Implement speed feedback signs</i>	-	\$70,000
12	Corridor-wide	Speeding	<i>Coordinate with local agency to add optical speed bars</i>	-	\$500
12	Corridor-wide	Speeding	<i>Coordination with the St. Lucie County Sheriff's Office for speed enforcement</i>	-	N/A
12	Corridor-wide	Speeding	<i>Consider increasing lane width markings (to 8-inches) to visually reduce lane width</i>	-	\$79,000
12	Corridor-wide	Speeding	<i>Implement a double yellow center line with new RPMs</i>	-	\$60,000
12	Corridor-wide	Speeding	<i>Implement in-pavement chevron markings on approaches to horizontal curves</i>	-	\$1,400
12	Corridor-wide	Speeding	Replace static chevron alignment (W1-8) signs with LED chevron alignment (W1-8) signs (Issue #5)	-	\$100,000

Table 11: Long Term Recommendations

Issue Number	Location	Issue	Suggestion	CMF	Opinion of Probable Construction Cost
2	E Midway Road at S Indian River Drive and throughout the segment	Cracked and uneven roadway	<i>Mill and resurface roadway</i>	-	\$404,000
4	Between E Weatherbee Road/Sunset Boulevard and S Indian River Drive	Typical section does not provide shoulder on either side of the roadway	<i>Add a shoulder/recovery area throughout the segment</i>	-	\$176,000
5	E Midway Road & E Weatherbee Road/Sunset Boulevard	Limited sight distance at E Weatherbee Road and Sunset Boulevard approaches to E Midway Road due to horizontal roadway curvature	<i>Determine feasibility of constructing a roundabout</i>	0.488	\$1.5 million
5	E Midway Road & E Weatherbee Road/Sunset Boulevard	Limited sight distance at E Weatherbee Road and Sunset Boulevard approaches to E Midway Road due to horizontal roadway curvature	<i>Determine feasibility to straighten Weatherbee Road (east to west) and connect to E Midway Road such that Weatherbee Road to E Midway Road east of the horizontal curve becomes main movement and E Midway Road west of Wetherbee Road becomes minor approach</i>	-	TBD
12	Corridor-wide	Speeding	<i>Determine feasibility of constructing a roundabout (Issue # 5)</i>	0.488	\$1.5 million

Table 12: Recommendations for Implementation through Other Programmed Projects

Issue Number	Location	Issue	Suggestion	CMF	Opinion of Probable Construction Cost
6	E Midway Road & Silver Oak Drive	Sidewalk on the southeast corner does not connect to any existing sidewalk. And faded pedestrian crosswalk on Silver Oak Drive leg.	<i>Provide additional Sidewalk/Shared Use Path along E Midway Road</i>	-	N/A
7	E Midway Road & Buchanan Drive	Sidewalk on the south end of Buchanan Drive has no connection to any roads. And faded pedestrian crosswalk on Buchanan Drive.	<i>Provide additional Sidewalk/Shared Use Path along E Midway Road</i>	-	N/A
10	Corridor-wide	Faded bike lane markings and missing bike lane signs	<i>Add and replace bike lane signs (From Wallace Street to Camp Ground Road)</i>	-	N/A



AGENDA ITEM SUMMARY

Board/Committee:	St. Lucie TPO Board
Meeting Date:	September 6, 2023
Item Number:	9c
Item Title:	Sustainable Transportation Plan
Item Origination:	Unified Planning Work Program (UPWP)
UPWP Reference:	Task 3.10 – Automated/Connected/Electric/Shared-Use (ACES) Vehicles Planning
Requested Action:	Accept the draft Sustainable Transportation Plan, accept with conditions, or do not accept.
Staff Recommendation:	Based on the recommendations of the TPO Advisory Committees and because the Sustainable Transportation Plan would support the development of ACES Network Mobility Hubs as identified in the SmartMoves 2045 LRTP, it is recommended that the draft Sustainable Transportation Plan be accepted.

Attachments

- Staff Report
- Draft Sustainable Transportation Plan



Coco Vista Centre
 466 SW Port St. Lucie Blvd, Suite 111
 Port St. Lucie, Florida 34953
 772-462-1593 www.stlucietpo.org

MEMORANDUM

TO: St. Lucie TPO Board

THROUGH: Peter Buchwald
 Executive Director

FROM: Marceia Lathou
 Transit/ACES Program Manager

DATE: August 29, 2023

SUBJECT: Sustainable Transportation Plan

BACKGROUND

As part of its sustainable transportation strategy, the St. Lucie TPO has initiated various plans and studies related to ACES (Automated/Connected/Electric/Shared-Use) vehicles. ACES vehicles are expected to make travel safer and more efficient, but most importantly, greatly improve mobility, particularly for vulnerable and underserved populations.

The 2045 SmartMoves Long Range Transportation Plan (LRTP) recommends the development of an ACES Network at interchanges along I-95. The ACES Network is the foundation of ACES because these are Mobility Hubs consisting of park-and-ride lots incorporating Electric Vehicle (EV) charging stations and connecting to transit. The TPO's FY 2022/23 – FY 2023/24 Unified Planning Work Program (UPWP) includes a Sustainable Transportation Plan to further develop the ACES Network. The Sustainable Transportation Plan was developed by The Corradino Group, one of the TPO's General Planning Consultants.

ANALYSIS

The attached draft Sustainable Transportation Plan includes a review of inventory and existing ACES plans that resulted in several areas identified as Opportunity and Gap Locations for ACES Mobility Hubs. Each of the potential

locations were then prioritized based on a criteria developed for the Plan. ACES Mobility Hub Concepts then were conceptualized for each of the locations.

The prioritized locations are summarized in the table and depicted on the map included in the Implementation Section of the Plan. A representative from The Corradino Group will describe typical projects within the highest priority locations and the next steps for implementing these projects.

At their meetings during the week of August 21st, the TPO Advisory Committees recommended the acceptance of the draft Sustainable Transportation Plan.

RECOMMENDATION

Based on the recommendations of the TPO Advisory Committees and because the Sustainable Transportation Plan would support the development of ACES Network Mobility Hubs as identified in the SmartMoves 2045 LRTP, it is recommended that the draft Sustainable Transportation Plan be accepted.



St. Lucie Transportation Planning Organization

Automated Connected Electric and Shared-Use Sustainable Transportation Plan July 2023

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Introduction

The St. Lucie TPO continues to be at the forefront of planning for efficient and sustainable mobility services. Mobility strategies of all transportation modes, technology, land use and the economy will need to work in coordination to form a sustainable mobility network that will have low impact on the environment, and will include walking, cycling, transit, carpooling, car sharing, and low carbon footprint vehicles that are Automated, Conected, Electric and Shared-use (ACES).

The 2045 Smart Moves Long Range Transportation Plan (2021) called for the development of an ACES vehicle network along major highways that considers infrastructure improvements that more efficiently and sustainably use existing roadway capacity as an alternative for building more capacity. The TPO has also developed and updated in 2023 its Electric Vehicle Charging Station Plan. The purpose of this plan is to identify the location of public charging stations for electric vehicles that allow for rapid charging and to assess the need for additional stations.

The TPO now will continue to leverage and unify prior, current, and planned efforts to further develop the Smart Moves LRTP ACES plan by identifying the most immediately relevant infrastructure needs through the St. Lucie TPO Sustainable Transportation Plan.

The most readily implementable infrastructure from the perspective of public need, technology acceptance, investor readiness, and public funding potential is Electric Vehicle Supply Equipment (EVSE), commonly called charging stations. There are three types of charging stations: Level 1, Level 2 and Direct-Current (DC) Fast Charging, with Level 2 focused more on parking places, and Level 3 focused more on pull-through stations. Leveraging EVSE infrastructure with transit and micro mobility networks, a critical infrastructure component will become Mobility Hubs that bring all of the transportation modes and technologies together, allowing coordinated transfers and introducing greater numbers of single-occupant vehicle drivers to the new mobility. The focus of the Sustainable Transportation Plan is on building an ACES enabling network of Mobility Hubs that unite ACES infrastructure into a mobility network that is ready for continued future adaption to ACES vehicles.

This study is short-range in scope to coordinate existing efforts and identify new opportunities toward immediately “shovel-ready” projects that are eligible for priority funding and/or coordination with new development.

Conceptual example of urban mobility hub incorporated in an employment center



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1 Review of Existing Plans

Introduction

The purpose of this section is to identify and review the existing plans that are related to developing an ACES network of infrastructure in St. Lucie County. There is a particular focus on intermodal hub plans, as well as EV fleet and infrastructure plans as these are the components of ACES that currently have more activity. This section also includes an inventory of existing land uses and development to identify possible ACES gap and opportunity locations that meet the criteria for people to have greater intermodal mobility access, as well as access to EV charging infrastructure within proximity to major roadways and enroute locations for private, shared, and public EV, reducing range anxiety and improving acceptance and adoption of more sustainable transportation options.

1.1 Plans Review

Smart Moves 2045, St Lucie TPO Long Range Transportation Plan

St. Lucie TPO; adopted February 3, 2021

“Smart Moves 2045”, the St. Lucie TPO Long Range Transportation Plan (LRTP) is the plan through the horizon year 2045 for the TPO to identify and address the needed improvement to the transportation network in St. Lucie County, including the City of Port St. Lucie, St. Lucie Village, the City of Fort Pierce, and unincorporated St. Lucie County. More than identifying and coordinating needs, the LRTP provides a financially constrained long-term investment framework to address the current and future transportation challenges, and support and guide community development in the county. The Smart Moves 2045 LRTP called for the development of an ACES vehicle network along major highways that considers operational improvements as an alternative for addressing capacity issues. In addition, several projects in the Multimodal Needs Plan are important to the EVSE Update and are listed below.



Table 1.1
Electric Vehicle Charging Station Relevant Projects from the St. Lucie TPO LRTP

Project Name/Type	Location	Description	Status	Relevance
4226814 Jobs Express Terminal Park & Ride Lot	Gatlin Boulevard at Brescia Street	Jobs Express Terminal at the south side of Gatlin Boulevard east of I-95, is a high-priority regional multi-modal mobility asset developed to support regional commuter trips in St. Lucie County. The Jobs Express Terminal includes:	Complete	The Jobs Express Terminal is located within 1 mile of the I-95 Gatlin Blvd. interchange and is a relevant location for deployment of Level 3 DCFS

Project Name/Type		Location	Description	Status	Relevance
			<ul style="list-style-type: none"> parking capacity for 162 vehicles sheltered bus stop bays for 6 buses Level 3 electric vehicle charging stations Secure environment with lighting and ADA accessibility 		consistent with the Florida EVMP.
Needs Plan ID 101	New SIS Interchange	Florida's Turnpike at Midway Road	New tight diamond interchange, estimated at \$89.07-million with assumed revenue sources from "State, Other Roads, construction and ROW" funds. (new project added since 2040 LRTP)	Cost Feasible Plan	New interchange changes the driveshed for the DCFC SIS and the NHFN networks by adding a new node.
Needs Plan ID 102	New SIS Interchange	Fl Turnpike at Northern Connector	New interchange for a private developer-built road that is considered one project with project ID 103.	Private Funding	New interchange changes the driveshed for the DCFC SIS and NHFN networks by adding a new node.
Needs Plan ID 103	New SIS Interchange	I-95 at Northern Connector	New interchange for a private developer-built road that is considered one project with project ID 102.	Private Funding	New interchange changes the driveshed for the DCFC SIS and NHFN networks by adding a new node.
Needs Plan ID 105, 106	Airport Connector	From I-95 to Kings Highway	New 4-lane roadway that is in two segments: I-95 to Johnston Road and Johnston Road to Kings Highway, with cost estimate at \$61.91-million.	Cost Feasible Plan	New spur extends driveshed for DCFC SIS and also connects to airport as a DCFC location that fulfills implementation of the Florida EVMP.
Needs Plan ID 155	ACES Network	I-95 at Becker Road	Addition of DCFC – specifics TBD	Unfunded	Additional location for Level 3 DCFC fulfills implementation of the Florida EVMP
Needs Plan ID 156	ACES Network	I-95 at Midway Road	Addition of DCFC – estimated at \$16.17-million	Cost Feasible Plan	Additional location for Level 3 DCFC fulfills implementation of the Florida EVMP.
Needs Plan ID 157	ACES Network	Okeechobee Road between Florida's Turnpike & I-95	Addition of DCFC – estimated at \$16.17-million	Cost Feasible Plan	Additional location for Level 3 DCFC fulfills implementation of the Florida EVMP.
Needs Plan ID 158	ACES Network	I-95 at Indrio Road	Addition of DCFC – specifics TBD	Unfunded	Additional location for Level 3 DCFC fulfills implementation of the Florida EVMP.
Needs Plan ID 168	ACES Network	I-95 at Crosstown Parkway	Addition of DCFC – specifics TBD	Unfunded	Additional location for Level 3 DCFC fulfills implementation of the Florida EVMP.
Needs Plan ID 416	Port St. Lucie City Center Transit Hub Phase II	395 Deacon Avenue across from the City municipal Complex and PSL Community Center	The project is to make the Port St. Lucie Intermodal station as an enjoyable and secure destination that will both serve existing riders and attract new ones.	Unfunded In design phase	Additional location for Level 3 DCFC fulfills implementation of the Florida EVMP.

- ACES: Automated Connected Electric Shared-Use
- DCFC: Direct Current Fast Charger
- SIS: Florida Strategic Intermodal System
- NHFN: National Highway Freight Network
- EVMP: Florida Electric Vehicle Master Plan

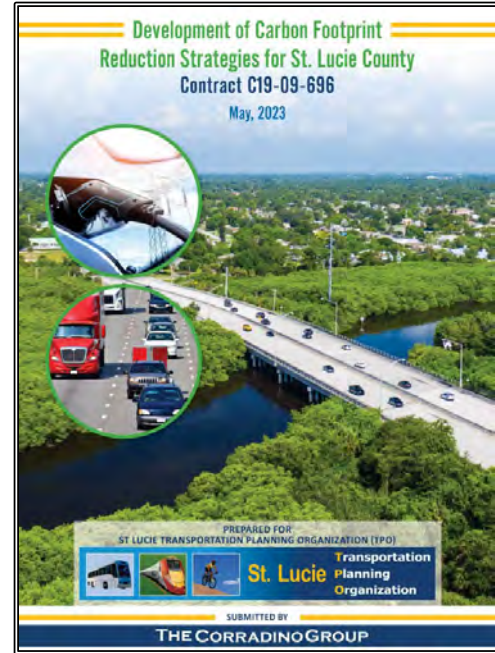
The LRTP Appendix B, *Study Area Data Review and Analysis* contains a summary of the "FDOT Guidance for Assessing Planning Impacts and Opportunities of Automated, Connected, Electric and Shared-Use Vehicles, 2018. (pp. 9-12) Listed as potential ACES-supportive projects, specific to EV infrastructure, are:

- Curb space value capture policy plans
- Activity center master plans to guide the conversion of parking
- Conversion of public parking facilities
- ACES priority parking
- Electric vehicle charging stations and related support systems
- Mobility hubs

Development of Carbon Footprint Reduction Strategies for St. Lucie County

St. Lucie TPO; received 2023

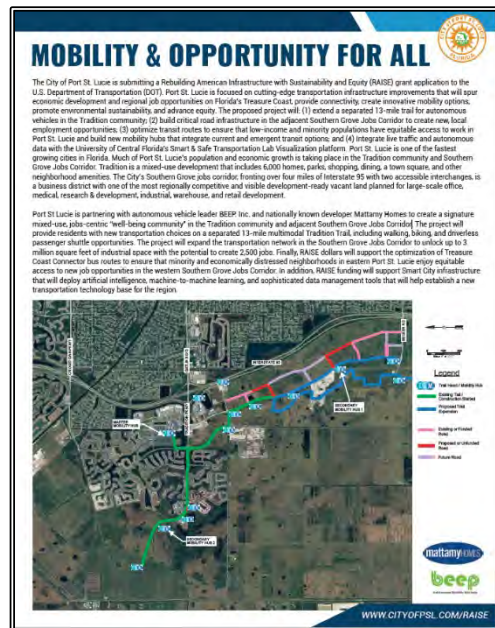
This study addresses means for carbon footprint reduction in St. Lucie county by reducing greenhouse gas emissions from passenger vehicle traffic. The study defines and demonstrates locally actionable strategies that will reduce emissions generated by automobile traffic. The four major strategies recommended by this study are: 1) encouragement of mixed-use/ multimodal neighborhoods, 2) development of more high-density neighborhoods, 3) greater participation by employer and employees in telecommuting, and 4) development of multimodal assets for greater travel choices in the County mobility network.



Mobility for All Fact Sheet

City of Port St. Lucie; 2022

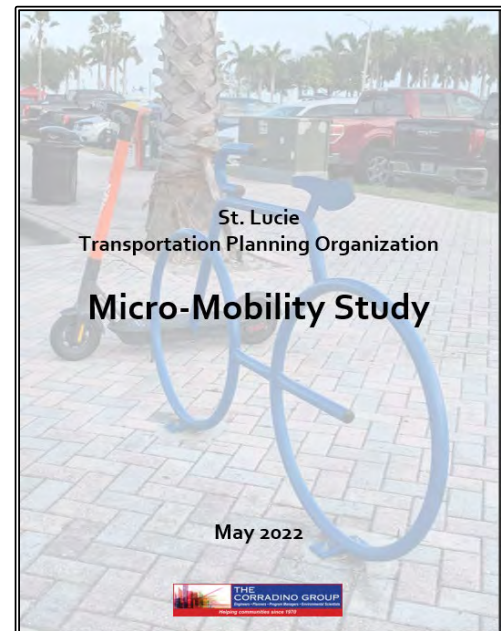
The City of Port St. Lucie is developing a plan and grant application for infrastructure improvements that focus on cutting-edge infrastructure improvements to spur economic development and job opportunities. The planned improvements are directly related to ACES infrastructure in that they include: 1) extension of a separated 13-mile trail for autonomous vehicles in the Tradition community; (2) optimization of transit routes to ensure that low-income and minority populations have equitable access to work in Port St. Lucie with new mobility hubs to integrate emergent transit options; and 3) integration of live traffic and autonomous data with the University of Central Florida's Smart & Safe Transportation Lab Visualization platform. The planning is in partnership with private equity sources including autonomous vehicle leader BEEP. Inc. and developer Mattamy Homes to create a mixed-use, jobs-centric "well-being community" in the Tradition community and adjacent Southern Grove Jobs Corridor.



Micro-Mobility Study

St. Lucie TPO ; adopted May 2022

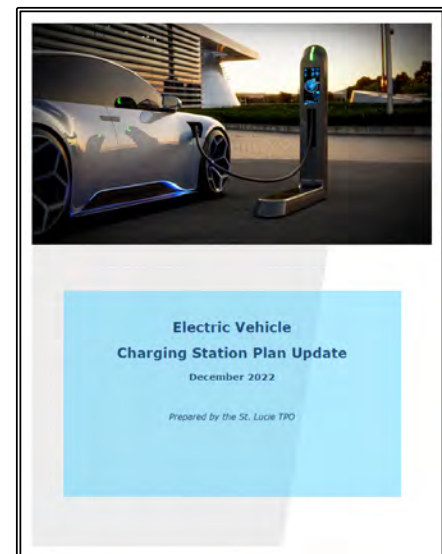
This study reviewed the needs and characteristics of different modes of micro-mobility, including autonomous micro-transit, shared bicycle, shared scooter, and low-speed electric vehicles. The analysis then compared the needs to existing conditions in the transportation network, land development patterns and demographics for three distinctly different study areas, including Tradition / Gatlin, Torino, and Downtown Ft. Pierce. Using lessons learned, the study developed recommendations for each area that are reproduceable throughout the County that the TPO can implement or coordinate to promote more widespread and greater density of micro-mobility options to improve short-distance mobility, first-last mile connectivity, and increased use of public transportation resources.



EV Charging Station Plan Update

St. Lucie TPO; 2022

The *Electric Vehicle Charging Station Plan Update* developed criteria for siting electric vehicle charging stations and identified appropriate locations based on the criteria, with a secondary objective to raise awareness of the need to incorporate EV charging station planning into major planning efforts. The plan summarizes the types and need for public EV charging stations, as well as a brief overview of how they are operated and consumer cost ranges. The Plan reviews the benefits of planning for equitable deployment of federally funded investments in historically disadvantaged and marginalized communities within St. Lucie County and the relevance to EV charging station deployment locations. The Plan maps extended-hour public facilities as potential DCFC locations, including 24-hour gyms, Walmart Supercenters, hospitals, the St. Lucie West hotel district, and South Hutchinson Island near Jetty Park. Funding and funding criteria, ownership, operation, risks of technology advancement and equipment obsolescence and impact on road (gasoline) tax revenue are summarized.



ACES Vehicles for Transit Study Update

St. Lucie Transportation Planning Organization

prepared by: The Corradino Group

St. Lucie TPO; 2022

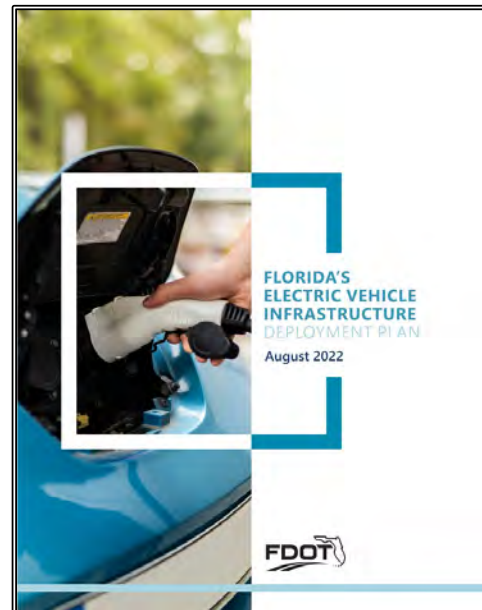
The ACES Vehicles for Transit Study Update provided considerations with regard to the future electrification of St. Lucie County public transit, called Area Regional Transit (ART) . The Plan summarizes existing conditions of the bus fleet that at this time does not include electric vehicles. The Plan also summarizes the ACES-relevant infrastructure of the major intermodal centers in Fort Pierce and Port St. Lucie, and the status of planning for the new Transit Operations and Maintenance Center. The plan provides: a summary of the benefits of transitioning to electric transit vehicles; the infrastructure opportunities and challenges; federal and state requirements; and considerations and steps for further study toward future implementation. The study provides background about the potential adoption of electric and automation technologies that could impact the future requirements of mobility hub programming to include bus enroute charging equipment.



Florida’s Electric Vehicle Infrastructure Deployment Plan

Florida Dept. of Transportation; approved September 14, 2022

The *Florida Electric Vehicle Infrastructure Deployment Plan* is a five-year plan that supports the State’s long-range transportation plan and the State’s Electric Vehicle Master Plan (EVMP). The plan focuses on supporting the National Electric Vehicle Infrastructure (NEVI) program, and outlines NEVI-fundable infrastructure criteria and evaluation with background growth estimates of need; summarized descriptions of eligible equipment; locational criteria; risks and challenges; electric infrastructure capacity and readiness; emergency preparedness and resiliency; equitable investment (“Justice 40” areas); and strategies for collaboration and partnerships for implementation.



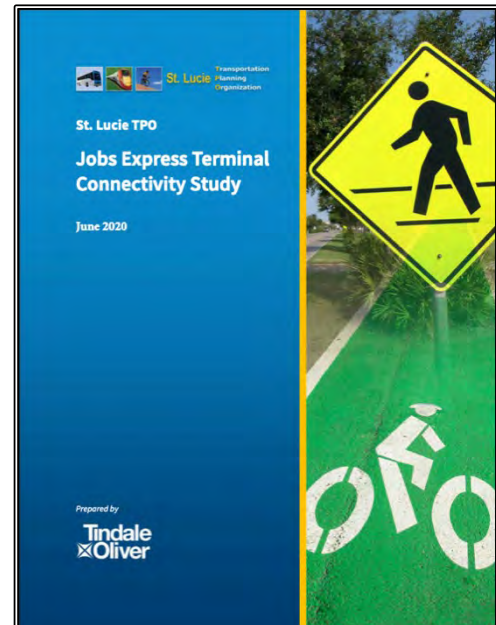
Jobs Express Terminal Connectivity Study

St. Lucie TPO ; adopted June 2020

The Jobs Express Terminal at the south side of Gatlin Boulevard east of I-95, is a high-priority regional multi-modal mobility asset developed to support regional commuter trips to and from St. Lucie County. In furthering its purpose, the Jobs Express Terminal provides environmental, traffic and economic benefits to St. Lucie County residents and businesses. The Jobs Express Terminal includes:

- connection to the roads and areas to the east
- parking capacity for 162 vehicles
- sheltered bus stop bays for 6 buses
- pedestrian lighting, landscaping & ADA accessibility
- bicycle racks
- electric vehicle charging stations

The Jobs Express Terminal has many of the components of an ACES Hub and is well positioned for further improvements for increased use of transit automation, electrification, and connectivity, as well as a potential location for shared-use mobility connections for first-last-mile use.



St. Lucie Bike Share Review

Provided by Zagster to the City of Fort Pierce, February 2019

Zagster, established in 2007, was a national company that built and operated bike sharing programs for cities, campuses, hotels, and residential communities. The company provided its customers with bike sharing infrastructure, technology, and operation using local maintenance staff to service bikes, perform repairs and rebalance the system.

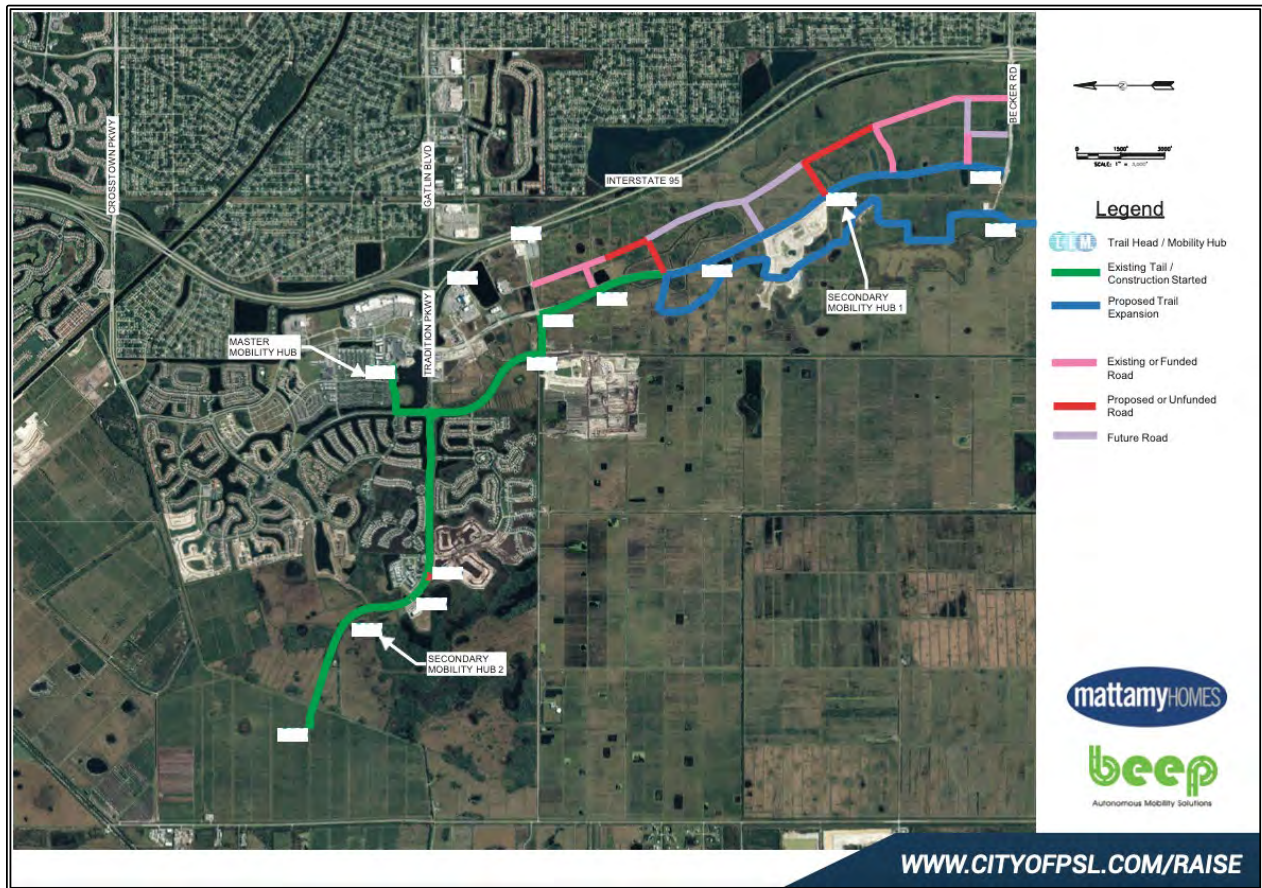


Zagster bike sharing commenced in downtown Fort Pierce, January 2018 and operated in until 2020. Prior to the COVID-19 pandemic, it published a review of operations as a resource for its Fort Pierce partner. The report provides a pre-pandemic snapshot of operations. Shared mobility as a service is a critical part of the ACES network of mobility infrastructure that provides the important first and last mile assets that increase the viability of other public transportation options.

1.2 ACES Mobility Hubs

One of the most important and on-point ACES-supportive projects in the LRTP is the planning for mobility hubs in St. Lucie County. The first proposed project will: 1) extend a separated 13-mile trail for autonomous vehicles in the Tradition community; 2) build critical road infrastructure in the adjacent Southern Grove Jobs Corridor; 3) optimize transit routes to enable mobility to new employment centers; and 4) build new mobility hubs that integrate current and emergent transit options; and 5) integrate a live traffic and autonomous data platform.

The proposed Port St. Lucie Mobility Hub is to be funded through a Rebuilding American Infrastructure with Sustainability and Equity (RAISE) grant application to the U.S. Department of Transportation. The City is partnering with autonomous vehicle leader, BEEP. Inc. to provide autonomous vehicle infrastructure and service in conjunction with the University of Central Florida's Smart & Safe Transportation Lab to operate the autonomous data control and visualization platform.



Mobility hubs are ideal partner projects to further ACES priorities by providing intermodal opportunities to incorporate infrastructure to support vehicle automation, support electric vehicle deployment, and provide physical connectivity for people and goods that to support intermodalism.

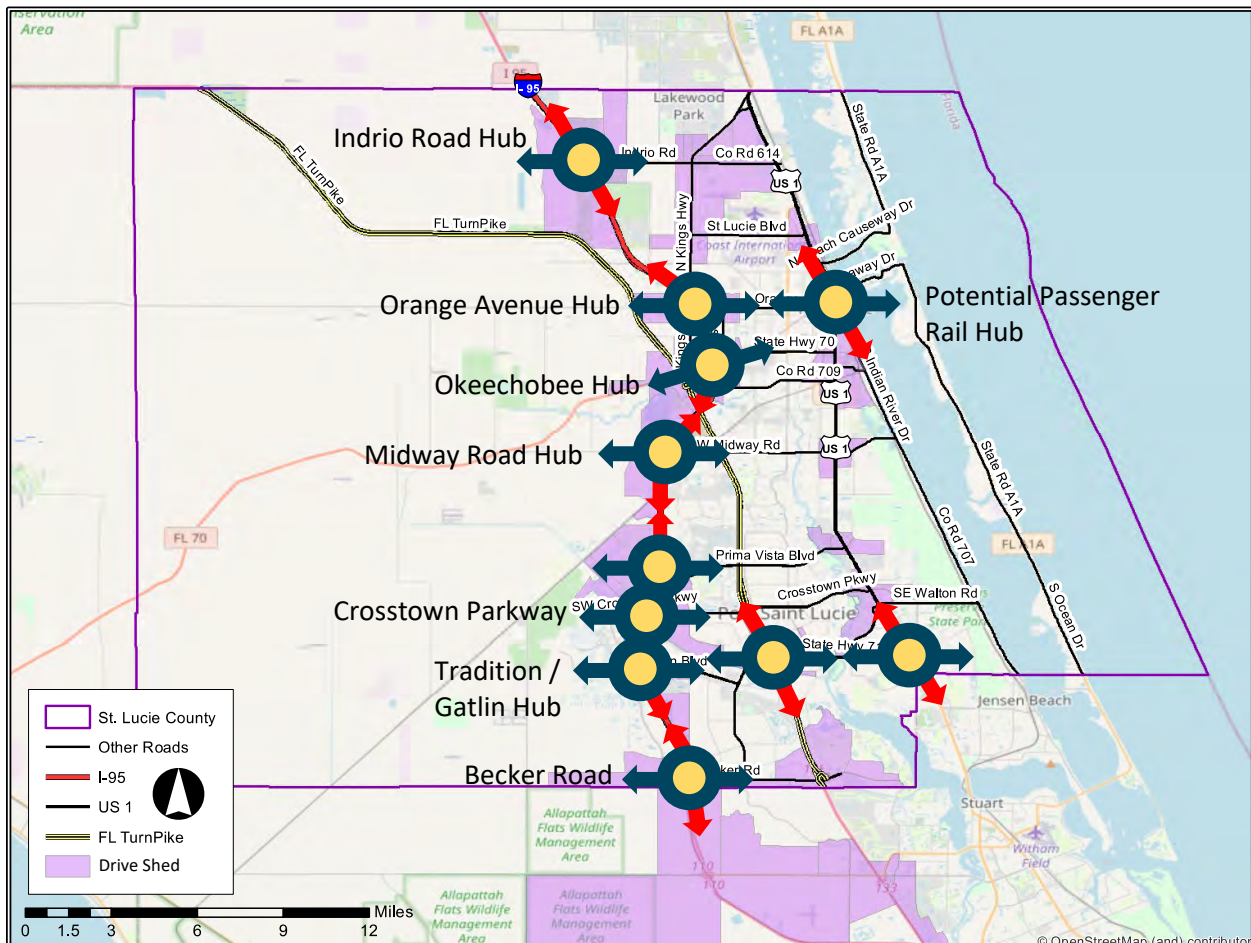
A network of ACES intermodal hubs in in the County centered along the spine of I-95 at major east-west connections, as well as a rail-centric hub in Fort Pierce to build a more ready environment for a future potential station of the Brightline high speed rail service are identified for further development in Sections 3 and 4 of this plan. The concept for the St. Lucie ACES Intermodal Hubs Network, as illustrated

in Map 1.1, includes hub locations at SIS interchanges and at major intermodal locations such as a potential intercity / commuter rail location. The ACES hubs network map shows the general locations that will be evaluated and prioritized in Sections 2 and 3 of this plan.

Drivesheds are the distance that most drivers are willing to drive off of a limited access freeway to refuel while enroute to a further destination. They represent the willingness of a driver to go off-route, especially in an unknown area. The concept is also applicable to EV charging and a one-mile drive distance is used assuming that information is provided to the driver by smart-phone or the vehicle information system. The concept is behavioral rather than related to vehicle technology; therefore, additional services or destination attractions at a hub can have an effect on increasing driveshed distance.

Mobility hubs would include key ACES features and development partnering to move the County forward towards autonomous, connected, electric and shared mobility infrastructure to create a sustainable transportation to meet the needs of future development in St. Lucie County.

Map 1.1
ACES Mobility Hubs Concept

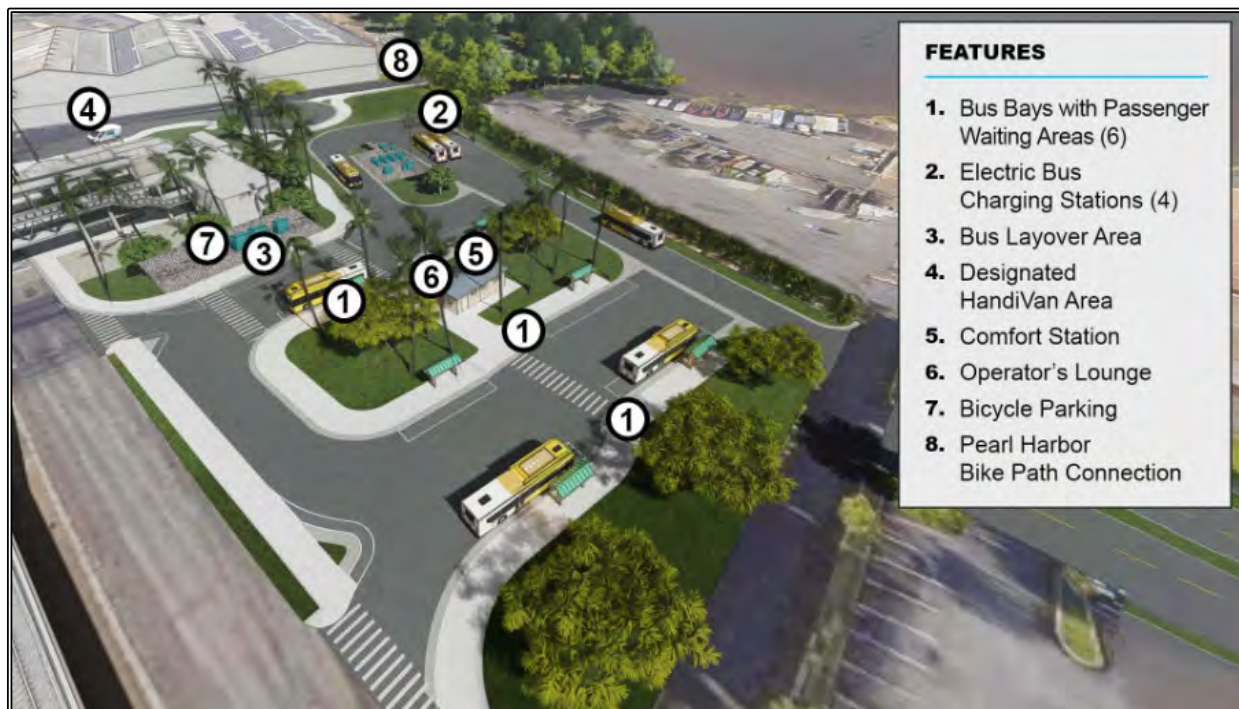


Mobility hubs are transportation intermodal facilities that are people-oriented developments for the purposes of:

- 1) to enable travelers to access supportive amenities for providing services for through-trips where the hub is not the final destination;
- 2) to enable intermodalism by facilitating comfortable changes from personal vehicles or other high-capacity intercity travel modes, such as rail, to a range of mobility options for first-last-mile trips to local destinations in a convenient and sustainable way.
- 3) To provide destination with walking distance of the intermodal facility that reduce local trip making and provide for greater comfort and convenience as a short stop for through travelers, especially for time to charge EV.

Built on a backbone of high-capacity transportation infrastructure, the hubs provide safe, comfortable, convenient, and accessible spaces to seamlessly transfer across different mobility modes. The hubs also provide for demand-responsive micro-transit operating in defined zones ranging out from the hub, thereby, extending the range of geo-fenced on-demand micro services.

Mobility hubs are an important concept to reduce transportation sector greenhouse gas emission and also increase County resiliency with a redundancy of the transportation options. Leveraging this positive impact on GHG emissions, global warming contribution and sea level rise, the ACES Mobility Hubs concept amplifies the positive sustainability benefits by also creating a hub of vehicular electric charging



*Conceptual illustration of the Kaluaao Mobility Hub and Project Features
source: City and County of Honolulu, Hawaii*

ACES Mobility Hubs also have an important contribution to make to health of the Floridians by providing intermodal locations for people arriving by cars that are new to transit and active travel choices that can be motivated to complete their local trip by alternative mobility, and for through travelers to have comfortable and active locations to recharge their vehicles and simultaneously recharge themselves with mixed use development that is accessible and enjoyable for short active transportation circulation. Where located within or connected to an existing 15-minute walk neighborhood, mobility motivates the use of alternatives to the private car helping to embed shared transport to achieve people-centered community mobility. The menu of features for ACES Mobility Hubs to be effective as an interface among transportation modes in an ACES network and connected with the County's communities is summarized in Table 1.2, with ACES-related components highlighted in blue.



Tacoma Dome Station as an example of an ACES mobility hub built around a regional rail station (Sound Transit), connecting long distance rail (Amtrack) and Tacoma Light Rail transit, integrated in a mid-level scaled urban setting with Greyhound bus and metro bus transit connections, bicycle facilities, ride sharing, shared micro-mobility (Razor), conventional parking facilities, public EV charging, and retail commerce at the ground floor of parking facilities.

The ACES Mobility Hubs, more than an intermodal center, are an interface between transportation and the community, and should therefore include destination land use development via a public-private partnership, and include development elements that include:

- Destination retail and sit-down eateries with occupancy times that synchronize well to Level 3 vehicle charging time.
- Community service establishments to provide typical daily needs for intermodal commuters, such as post office, private postal businesses, dry cleaners, pharmacies, sundry stores, and quick marts, cafes, gyms.

- Workspaces that facilitate and emphasize flexible work hours to reduce peak demands and increase non-peak demands on transit. Membership type co-workspaces are ideal.
- Mixed use development with residential component is possible depending on environment and location to existing community.
- Package delivery lockers to reduce the number of house-level trips made by on-line retail sales.
- Comfortable weather protected non-retail waiting areas and lounges with live information and infotainment systems.
- Outdoor green spaces and plazas to relieve travelers from mechanized nature of transportation.
- Outdoor water fountains to help mask the sound of transport vehicle operations.
- Art-in-public places to visually relieve pedestrian users.
- Large and dynamic information kiosks in high pedestrian traffic areas.
- Signage and identity / branding which identifies the space as a mobility hub that is part of a wider network.

Table 1.2
ACES Mobility Hubs Mobility-Related Components

	Public Mass Transit Components	Shared Mobility Components	Personal Mobility Components	Pedestrian Components
Modes	<ul style="list-style-type: none"> Local heavy rail Intracity heavy rail Light Rail Transit (LRT) capable County battery-electric buses Geofenced on-demand micro-transit 	<ul style="list-style-type: none"> Car sharing E-car sharing 	<ul style="list-style-type: none"> Personal vehicles Commercial vehicles 	<ul style="list-style-type: none"> Pedestrians Pedestrians with disabilities
Vehicle Infrastructure	<ul style="list-style-type: none"> Rail / LRT Guideway Exclusive Bus Lanes 	<ul style="list-style-type: none"> Passenger car lanes Design to safely accommodate Low Speed Electric Vehicles Bike lanes and paths suitable for e-bikes and e-scooters 	<ul style="list-style-type: none"> Passenger Car Lanes Truck Areas Bike lanes and paths suitable for e-bikes and e-scooters 	<ul style="list-style-type: none"> Complete Streets where applicable in interior of hub (not access points from I-95)
Access & Egress	<ul style="list-style-type: none"> Direct access and re-entry to I-95 Rail access Direct bus lane access 	<ul style="list-style-type: none"> Passenger Car Lanes Design to safely accommodate Low Speed Electric Vehicles Bike lanes and paths suitable for e-bikes and e-scooters 	<ul style="list-style-type: none"> I-95 access points exclusive to highway vehicles Access to crosstown roadways includes bike paths and/or buffered lanes. 	<ul style="list-style-type: none"> I-95 access separated from walkable areas Access to crosstown roadways is part of complete street access for pedestrians and micro modes
Pick-Up Drop-Off Space	<ul style="list-style-type: none"> Dedicated train station and bus stops with shelters, information and raised platforms 	<ul style="list-style-type: none"> Pick-up and drop-off zones for shared car services (Uber model) Parking pods for shared car services (Zip Car model) 	<ul style="list-style-type: none"> Kiss-and-ride location near transit station 	<ul style="list-style-type: none"> Pick-up drop-off locations and paths to them are ADA accessible
Vehicle Storage	<ul style="list-style-type: none"> Bus layover areas or sufficient stop pullouts for layover time 	<ul style="list-style-type: none"> Shared bike docks or dockless return zones Shared mobility kiosks Parking pods with Level 3 charging for shared car services (Zip Car model) 	<ul style="list-style-type: none"> Lockable bicycle racks Lockable bicycle lockers 	<ul style="list-style-type: none"> Not applicable
Vehicle Charging	<ul style="list-style-type: none"> En-route inductive charging for regional buses at layover location or stops Micro transit vehicle charging at layover location or stops 	<ul style="list-style-type: none"> Level 3 chargers for battery electric shared vehicles in dedicated spaces Proprietary charging docks for shared e-bikes Charging areas for inductive charging of shared scooters or bikes 	<ul style="list-style-type: none"> Level 3 chargers for personal EV Level 2 chargers for personal EV for transit park-&-ride commuters Level 2 chargers for personal use by workspace occupants 	<ul style="list-style-type: none"> Not applicable
Information Systems	<ul style="list-style-type: none"> Transit smart phone application integration with on-board bus/train information system 	<ul style="list-style-type: none"> Dynamic roadway sign smart phone application integration with car infotainment system 	<ul style="list-style-type: none"> Dynamic roadway sign smart phone application integration with car infotainment system 	<ul style="list-style-type: none"> Pedestrian level kiosks with live information smart phone application
Fossil Fuel Pump islands	<ul style="list-style-type: none"> Not applicable 	<ul style="list-style-type: none"> Not applicable 	<ul style="list-style-type: none"> Fueling area to allow non-EV passengers to change to electric first- and -last mile trips 	<ul style="list-style-type: none"> Not applicable

1.2 Funding Opportunities

When the Bipartisan Infrastructure Law (BIL), enacted as the Infrastructure Investment and Jobs Act (IIJA), Public Law 117-58 was passed on November 15, 2021, unprecedented investments in ACES infrastructure were made possible to catalyze deployment of automated, connected, electric and shared vehicles to promote consumer adoption of transportation alternatives that will: 1) reduce transportation-related greenhouse gas emissions and help put the U.S. on a path to net-zero emissions by no later than 2050; and 2) position U.S. industries to lead global transportation electrification efforts and help create family-sustaining union jobs that cannot be outsourced. The BIL created the major programs that are described below. Some of the application deadlines occurred in late 2022; however, they are provided below for tracking toward the next reauthorization of BIL funding.

Advanced Transportation Technologies and Innovative Mobility Deployment (ATTIMD) Program

Administered through the Department of Transportation (Federal Highway Administration), ATTIMD provides funding for projects to deploy, install, and operate advanced transportation technologies with the objectives to improve safety, mobility, efficiency, system performance, intermodal connectivity, and infrastructure return on investment.

National Electric Vehicle Infrastructure (NEVI) Formula Program

The \$5 billion NEVI Formula Program provides funding to States to strategically deploy EV charging infrastructure and establish an interconnected network to facilitate data collection, access, and reliability. Initially, funding under this program is directed to designated Alternative Fuel Corridors to build out this national network, particularly along the Interstate Highway System. When the national network is fully built out, funding may be used on any public road or in other publicly accessible locations. Ten percent (10%) of the NEVI Formula Program will be set-aside each fiscal year for the Secretary of Transportation to provide discretionary grants to help fill gaps in the national network.

The NEVI funding for the State of Florida for the next 5 fiscal years, as sourced by the US Department of Transportation is summarized in Table 1.3. Based on the population of St. Lucie County being 1.6% of the State of Florida population, a rough order-of-magnitude estimate is made for each year’s potential NEVI funding for St. Lucie County.

**Table 1.3
ACES - Electric Vehicle Infrastructure NEVI Funding Availability**

Fiscal Year	State of Florida Allocation	St. Lucie County Estimate
2022	\$ 29,315,442	\$ 469,047
2023	\$ 42,185,251	\$ 674,964
2024	\$ 42,185,543	\$ 674,969
2025	\$ 42,185,579	\$ 674,969
2026	\$ 42,185,666	\$ 674,971
Total for 5 Years	\$198,057,481	\$3,168,920

The criteria for the NEVI funding program are documented by the US DOT and the Florida DOT for the Florida's Electric Vehicle Infrastructure Deployment Plan.

Discretionary Grant Program for Charging and Fueling Infrastructure

The \$2.5 billion Discretionary Grant Program is divided into two \$1.25-billion grant programs to support EV charger deployment to ensure charger deployment supports rural charging, building resilient infrastructure, climate change, and increasing EV charging access in underserved and overburdened communities ("disadvantaged communities"):

Corridor Charging Grant Program

The Corridor Charging Grant Program will strategically deploy publicly accessible EV charging infrastructure and hydrogen, propane, and natural gas fueling infrastructure along designated Alternative Fuel Corridors. Additional guidance is forthcoming.

The Community Charging Grant Program

The Community Charging Grant Program will strategically deploy publicly accessible EV charging infrastructure and hydrogen, propane, and natural gas fueling infrastructure in communities. Additional guidance is forthcoming.

The Strengthening Mobility and Revolutionizing Transportation (SMART) Grants Program

Administered by the Department of Transportation (Federal Rail Administration), the program provides funding for projects focused on advanced smart city or community technologies and systems to improve transportation efficiency and safety.

Thriving Communities Program

The program is administered by the Department of Transportation, Build America Bureau, and provides technical assistance to help selected communities plan and develop a pipeline of comprehensive and integrated transportation, housing, and community revitalization activities.

Rebuilding American Infrastructure with Sustainability and Equity (RAISE)

The RAISE discretionary grant program is administered by the U.S. DOT to provide for investment in road, rail, transit, and port projects that promise to achieve national objectives. The eligibility requirements allow project sponsors at state and local levels to obtain funding for multi-modal projects that are more difficult to support through other DOT programs. Projects for RAISE funding are evaluated based on merit criteria, including: safety; innovation; environmental sustainability and reducing impacts of climate change; improving quality of life; economic competitiveness and creation of good paying jobs; and improving racial equity.

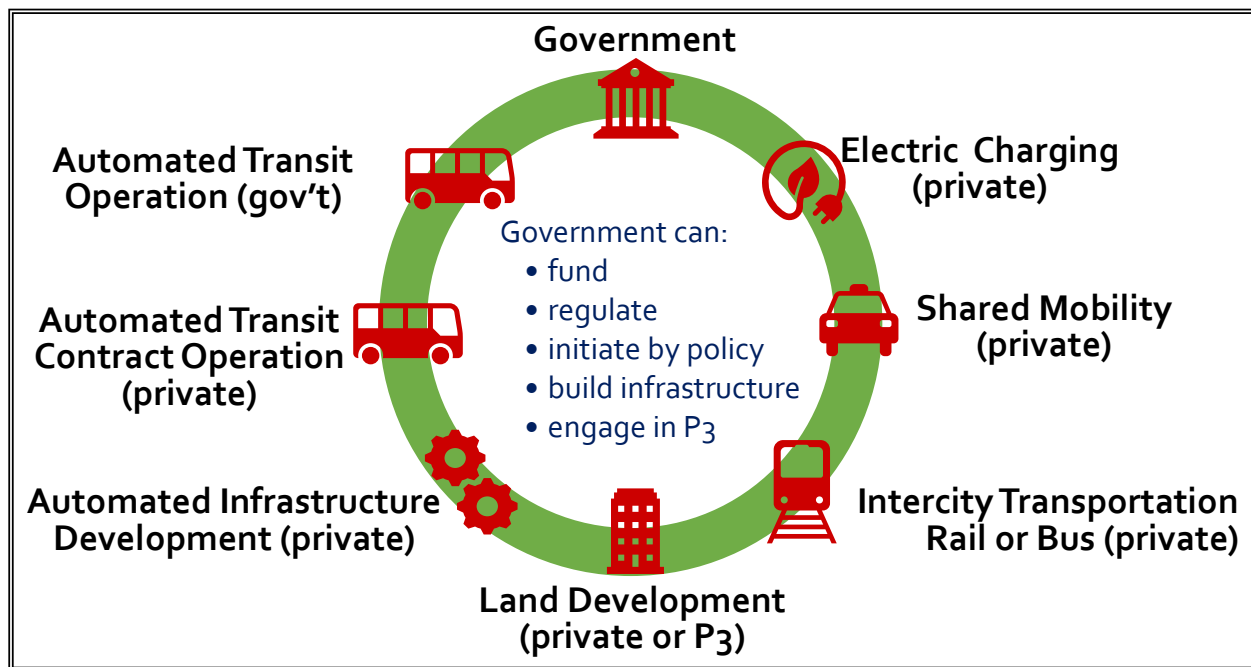
Public Private Partnerships (P3)

Traditionally, the delivery of mobility improvements has been through government funding for planning, environmental analysis, design, and construction. Deployment of ACES mobility strategies includes these mechanisms; however, the most prominent growth of automated, connected, electric, and shared mobility has been through the entry of private companies and non-government organizations into urban mobility markets.

A major subject of this report is on the development of ACES Mobility Hubs that necessarily include commercial destination uses, especially to allow time for EV charging and the create attractive walkable places that induce increased use of public transportation at these intermodal points by a population that currently does not use alternative and sustainable mobility. The real estate development that is critical to ACES Hubs is best provided by private investment.

For the purposes of governmental actions for the ACES mobility network, the emphasis is on using governmental resources to fund, regulate, build infrastructure, initiate by policy, and engage in partnerships in ways that support and foster the development of privately-owned and operated mobility options. The local match component of these projects also fosters a broad and deep base of support for the project and an appreciation of the proposed benefits to the community and return on investment to providers of those funds. Often the local match includes the dedication of public land for the purposes of developing the ACES Hub. Public land facilitates the project by controlling cost on the most important component of development and can also streamline planning and permitting. Public land in the right location is a critical part for a successful P₃-developed ACES Hub project.

The critical importance of public-private partnership to implementing a County-wide ACES network is highlighted by the delivery model diagram below.



Automated, Connected, Electric, and Shared (ACES) Mobility Delivery Models

1.3 Mobility Hubs Location Criteria & Map Updates

To determine additional opportunity locations and gaps in the ACES network along major highways, the locational criteria are provided in Table 1.4. These criteria are used as the themes for the initial existing conditions map series that will guide the identification of gaps and opportunities in Task 3 after establishing priorities of the criteria in Task 2. Task 4 will finalize a project priority list of “shovel-ready” projects that are eligible for high-priority funding, coordination with new development, and other implementation methods. Among the criteria, there is an important focus on the inclusion in the mobility hubs of Level 3 Fast Charging Stations (DCFC) that are publicly available for private passenger cars at enroute locations.

The existing public EV chargers for all charger types, for DC Fast Chargers only, and for each other individual location criteria have been mapped and are included in Appendix A.

Table 1.4
ACES Hub Location Criteria

Category	Criteria	Description	Existing Condition Map Reference	Requirement Source
Geographic	SIS Roadway Spacing	1-mile maximum lateral travel distance from interchanges, Florida SIS includes: I-95, Florida’s Turnpike, and Okeechobee Road	Roadway System (Appendix A Map 3)	NEVI Guidance, Florida Electric Vehicle Deployment Plan
Geographic	SIS Roadway Shed	1-mile maximum lateral travel distance from interchanges, Florida SIS includes: I-95, Florida’s Turnpike, and Okeechobee Road	Roadway System (Appendix A Map 3)	NEVI Guidance, Florida Electric Vehicle Deployment Plan
Operational	Number of Charging Ports	Minimum of 4 DCFC plugs for simultaneous use	not applicable to locational analysis	NEVI Guidance, Florida Electric Vehicle Deployment Plan
Operational	Electric Capacity per Charging Port	Minimum 150kW at 480 volts	not applicable to locational analysis	NEVI Guidance, Florida Electric Vehicle Deployment Plan
Operational	Utility Readiness	Location has sufficient capacity or planned capacity in electric distribution network – minimum 4 DCFC plugs: 600 kW at 480 V	not mapped	NEVI Guidance, Florida Electric Vehicle Deployment Plan
Emergency & Resiliency	Evacuation Routes	Location along evacuations routes with redundancy	Emergency Evacuation (Appendix A Map 4)	Florida Electric Vehicle Deployment Plan
Emergency & Resiliency	Mobile Charging Solutions	Location along evacuations routes with redundancy	not applicable to locational analysis	Florida Electric Vehicle Deployment Plan

Category	Criteria	Description	Existing Condition Map Reference	Requirement Source
Emergency & Resiliency	Hardening of DCFC Stations	Hardening solutions to ensure safety <u>during</u> storms: strategies such as automatic station shut-off, waterproofing, elevated foundations, and structures.	not applicable to locational analysis	Florida Electric Vehicle Deployment Plan
Land Use	Population Density	Location where population densities are highest. Threshold criteria to be determined in Task 2	Population Density (Appendix A Maps 5 & 6)	St. Lucie TPO Smart EV Charging Station Plan St Lucie TPO Development of Carbon Reduction Strategies for St. Lucie County (Strategy 4.2)
Land Use	Employment Density	Location where employment densities are highest. Threshold criteria to be determined in Task 2	Employment Density (Appendix A Maps 7 & 8)	St. Lucie TPO Smart EV Charging Station Plan St Lucie TPO Development of Carbon Reduction Strategies for St. Lucie County
Land Use	Mixed Use Multimodal Neighborhoods	Location where medium density residential areas are mixed within ¼-mile of major employment land uses	Mixed Use Development	St Lucie TPO Development of Carbon Reduction Strategies for St. Lucie County (Strategy 4.1)
Land Use	Retail Major Activity Centers	Locations of large centers of compact, contiguous commercial development, including mixed use. Threshold metric such as total floor area or FAR to be determined in Task 2.	Destinations (Appendix A Map 9)	St. Lucie TPO Smart EV Charging Station Plan
Land Use	Hospitals	Locations of hospitals with minimum of Level IV Trauma Center – to be reviewed in Task 2	Destinations (Appendix A Map 9)	St. Lucie TPO Smart EV Charging Station Plan
Land Use	Airports	Locations of commercial passenger airport terminals	Intermodal Hubs (Appendix A Map 10)	St. Lucie TPO Smart EV Charging Station Plan
Land Use	Rail Stations	Locations of commercial passenger rail stations	Intermodal Hubs (Appendix A Map 10)	St. Lucie TPO Smart EV Charging Station Plan
Land Use	Bus Transit & Intermodal Hubs	Locations of bus transit hubs with multiple bus bays and park-and-ride facilities. Minimum criteria to be determined in Task 2.	Intermodal Hubs (Appendix A Map 10)	St. Lucie TPO Smart EV Charging Station Plan St Lucie TPO Development of Carbon Reduction Strategies for St. Lucie County (Strategy 4.4)

Category	Criteria	Description	Existing Condition Map Reference	Requirement Source
Land Use	Shared Vehicle Pods	Locations of publicly located shared vehicle pods. Criteria to be reviewed in Task 2.	no shared vehicle pods in St. Lucie County	St. Lucie TPO Smart EV Charging Station Plan
Land Use	Publicly Owned Vacant Land	As a practical criterion, an ACES Hub can be developed through public funding and development, as a P3, or by regulating to require hubs for major development. The availability of sufficient vacant land is critical for public development or P3 means.	Shown on Hub Location Aerials	Practical consideration for development. Refer to Section 1.2 regarding P3 funding mechanisms.
Equity	Disadvantaged Community Investment	U.S. Department of Transportation (USDOT) Justice40 (J40) is an opportunity to address gaps in transportation infrastructure and public services by working toward the goal that at least 40% of the benefits from many FDOT grants, programs, and initiatives flow to disadvantaged communities. As a criterion for ACES Mobility Hubs, serving TAZs that are identified as J40 helps to serve future demands, , provides economic development support, provides greater equity, and increases funding opportunity.	Disadvantaged Community Investment (Appendix A Map 11)	NEVI Guidance, Florida Electric Vehicle Deployment Plan

2 ACES Hub Areas Prioritization

Introduction

A plan for the St. Lucie ACES infrastructure network and nodes is developed Based on existing conditions and plans as presented in Section 1. The first step to identifying geographic nodes that become the places in which to locate ACES Mobility Hubs, is to establish criteria priorities on the basis of:

- ability to serve population needs,
- location characteristics,
- effectiveness toward reducing the county's carbon footprint,
- effectiveness to increase adoption of ACES mobility modes and inter-modalism,
- opportunities for implementation, and
- potential for funding.

Reflecting the understanding that an ACES Mobility Hub has multiple benefits, and that each criteria can leverage one or more of these benefits, the importance of each location criteria is weighted to account for their potential for multiple benefits, which are: effectiveness to increase adoption of ACES mobility modes; fostering a seamless traveler experience through multiple modes from door to door; and potential for funding to plan, design and implement; and to leverage community and business investment.

The criteria themselves account for the importance of existing roadway infrastructure, transit services, existing park-and-ride and multi-modal terminals, land development characteristics, employment and residential populations, and the location of disadvantaged communities. Area locations will be scored based on how many criteria are met and the weighted scoring for each criterion. The prioritization is to guide efforts toward focusing planning on the locations with the better potential to leverage greater benefits to develop the ACES network of hubs. The outcome will be displayed as a map with scoring ranges to prioritize the ACES Mobility Hubs Concept (Map 1.1), to develop the ACES Mobility Hubs Concept Prioritized Hubs (Map 3.1).

2.1 Criteria Weighting for Prioritization

Prioritization discussion. Each of the criteria will be assigned a weighting based on summation of points for each of the reasons that are:

- Demand Factor: A positive factor toward increasing public adaption of private, fleet, and other commercial electric vehicles by addressing range anxiety.
- Multi-Modal: Location provides sustainability benefits beyond EV adoption toward greater public adaption to new multi-modalism for primary trips and first-last-mile trips components through ACES Mobility Hub potential, as described in Section 1.2.
- Carbon Reduction Strategy: The St. Lucie TPO has prioritized reducing the carbon footprint of transportation in the County through land use and is to be partnered with the infrastructure for an ACES intermodal system.
- State & Federal Funding: Meets eligibility requirements for state and federal funding.
- Feasibility for Implementation: The importance of vacant land in public-sector ownership, as discussed in Section 1.2, that is within the drive shed of the ACES Mobility Hub opportunity areas is critical. It has been included as an implementation criterion. It is not directly related to the weighting factors; however, it is assigned a high weighting value of 5 per parcel over 1 acre. **Where there is available land for a short-term or mid-term priority ACES Hub project, reservation of the public land is an immediate priority.**

The criteria are then geographically overlaid by summing the points for each particular criteria as a layer in the geographic information system place and represented as a heat map to illustrate the highest priorities for Near-Term, Mid-Term and Long-Term time horizons.

Most of the criteria are discrete variables; in other words, they either meet the criteria or not, and for meeting the criteria a single point is the initial score. Some of the criteria represent continuous variables, in other words having amounts such as population density, and these variables have been stratified into ranges that represent breakpoints of requiring EV charging needs and represented by 0, 1 or more points as an initial score. The initial score for each variable, binary or continuous, are then multiplied by the weighting factor to account for the importance of the three types of benefits described above. For example, if a geographic area includes a disadvantaged community that qualifies as an environmental justice community, the area is assigned a positive point and then multiplied by 2 because this criteria is important as a demand factor and is important for state and federal funding eligibility. The size of the environmental justice community does not have to be captured in this criteria, since the area is also scored in the population density category. The sum of all weighted criteria scores than is used to assign priorities.

Priority Map:

The map that follows in the column-sum analysis of ACES Hub prioritization by Transportation Analysis Zone (TAZ). Based on an initial overlay map showing the summation of criteria and weightings for each TAZ, areas have been geographically aggregated by network or land use functions, with summations of TAZ score used to determine priorities for the areas. The areas

defined by mobility centroids, such as interchanges, major intersections, and downtowns. The aggregated analysis for geographic places is described and presented in Section 3 of this Plan.

Table 2.1
ACES Hub Location Criteria Prioritization

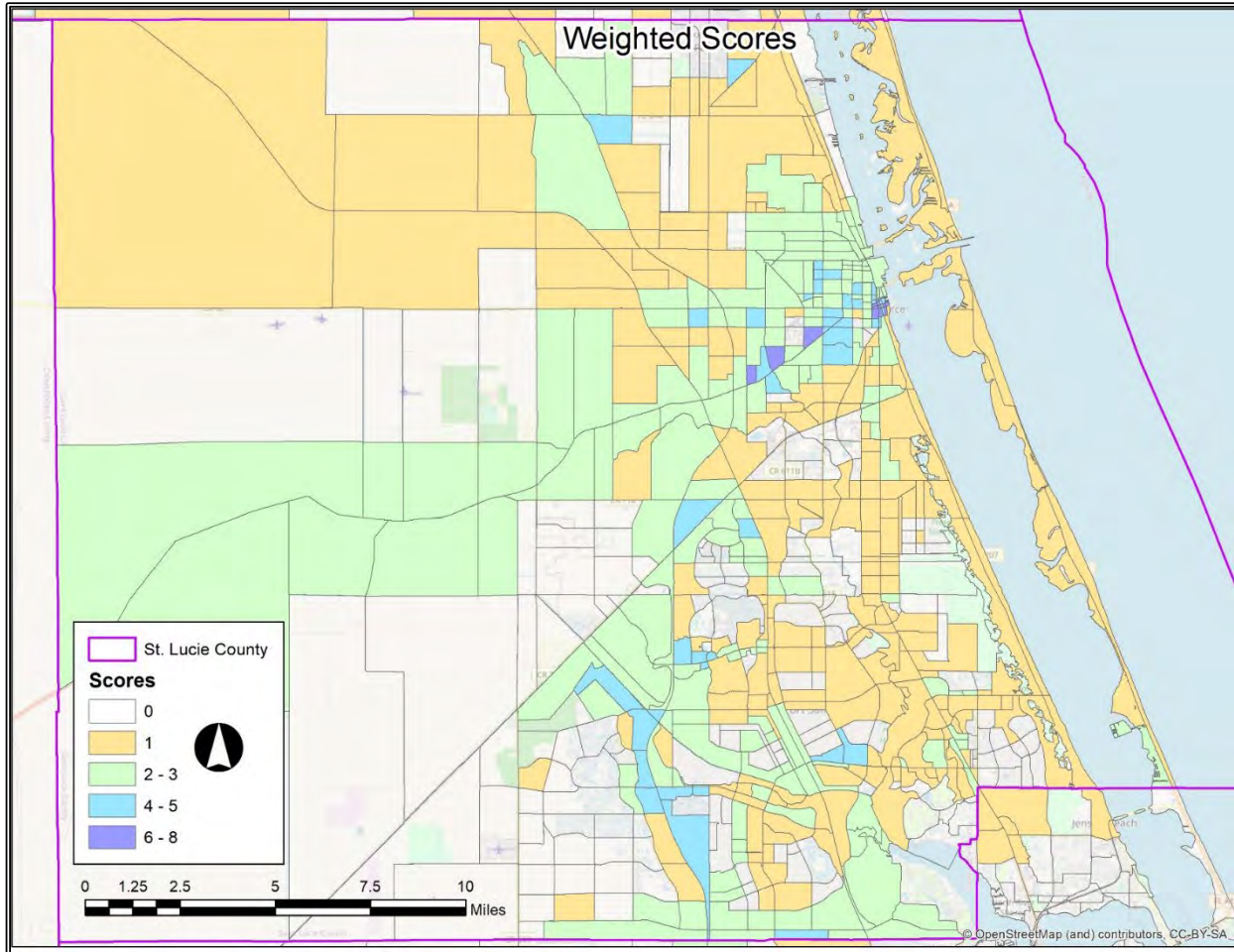
Category	Criteria	Description	Demand Factor	Multi-Modal	State & Federal Funding	Carbon Footprint Reduction	Weight Factor
Geographic	SIS Roadway Spacing	50 miles maximum from DCFC station to station. This consideration will be reviewed again after priority locations are determined to assure a 50-mile grid is available into the rural, agricultural, or tribal lands as well as the urbanized areas of St. Lucie County; thereby, fulfilling NEVI guidance for project eligibility.	1	-	1	-	2
Geographic	SIS Roadway Shed	1-mile maximum lateral travel distance from interchanges. In St. Lucie County, the Florida SIS includes I-95, Florida’s Turnpike, and Okeechobee Road.	1	-	1	-	2
Operational	Number of Charging Ports	Minimum of 4 DCFC plugs for simultaneous use - room for 4 spaces	-	Not location criteria. These criteria are to be used for facility programming after location is prioritized			
Operational	Electric Capacity per Charging Port	Minimum 150kW at 480 volts	-				
Operational	Utility Readiness	Location has sufficient capacity or planned capacity in electric distribution network – minimum 4 DCFC plugs: 600 kW at 480 V	-				
Emergency & Resiliency	Evacuation Routes	Location along evacuations routes with redundancy	-	-	1	-	1
Emergency & Resiliency	Mobile Charging Solutions	Location along evacuations routes with redundancy	-	Not location criteria. These criteria are to be used for facility programming after location is prioritized			
Emergency & Resiliency	Hardening of DCFC Stations	Hardening solutions to ensure safety <u>during</u> storms: strategies such as automatic station shut-off,	-				

Category	Criteria	Description	Demand Factor	Multi-Modal	State & Federal Funding	Carbon Footprint Reduction	Weight Factor
		waterproofing, elevated foundations, and structures.					
Land Use	Population Density	10 to 15 persons per acre	1	1	-	-	2
		15 to 25 persons per acre	1	1	-	1	3
Land Use	Employment Density	10 to 20 employees per acre	1	-	-	-	1
		20 to 40 employees per acre	1	-	-	-	1
		40 or more employees per acre	1	1	-	-	2
Land Use	Mixed Use Multimodal Neighborhoods	Major developments and Developments of Regional Impact that have both residential and commercial components that create significant live work opportunities. These are significant assets for placement of ACES Hubs; therefore, points are scaled to size: For DRI and new development; 1 point per 1,000 dwelling units, plus 1 point per 1,000 employment units. For existing neighborhoods, 3 points per existing walkable neighborhood and commercial center.	1 for existing mixed-use area 1 per 1,000 DU and 1 per 1,000 jobs for DRI	1 for existing mixed-use area 1 per 1,000 DU and 1 per 1,000 jobs for DRI	-	1 for existing mixed-use area 1 per 1,000 DU and 1 per 1,000 jobs for DRI	3 for existing mixed-use area 3 per 1,000 DU and 3 per 1,000 jobs for DRI
Land Use	Retail Major Activity Centers	Locations of large centers of compact, contiguous commercial or mixed-use development: 500,000 to 1,000,000 square feet of gross leasable area (gla)	1	-	-	1	1
		Locations of large centers of compact, contiguous commercial or mixed-use development: 1,000,000 or more square feet gla (considered a regional center)	1	1	-	1	2
Land Use	Hospitals	Locations of hospitals with minimum of Level IV (lowest) Trauma Center	1	-	-	-	1

Category	Criteria	Description	Demand Factor	Multi-Modal	State & Federal Funding	Carbon Footprint Reduction	Weight Factor
Land Use	Airports	Locations of commercial passenger airport terminals	1	1	-	-	2
Land Use	Rail Stations	Locations of commercial passenger rail stations	1	1	-	1	3
Land Use	Bus Transit & Intermodal Hubs	Locations of bus transit hubs with multiple bus bays and park-and-ride facilities	1	1	-	1	3
Land Use	Shared Vehicle Pods	Locations of publicly located shared vehicle pods	-	1	-	1	2
Equity	Disadvantaged Community Investment	U.S. Department of Transportation (USDOT) Justice40 (J40) is an opportunity to address gaps in transportation infrastructure and public services by working toward the goal that at least 40% of the benefits from many FDOT grants, programs, and initiatives flow to disadvantaged communities. As a criterion for ACES Mobility Hubs, serving TAZs that are identified as J40 helps to serve future demands, , provides economic development support, provides greater equity, and increases funding opportunity.	1	-	1	-	2
Land Use	Vacant Public Land within the Driveshed	Presence of vacant land that is publicly owned and not designated for environmental preservation or utilities. The score is 1 point per acre within 1 mile and ½ point per acre from 1 to 2 miles.	-	-	-	-	1 / acre within 1 mile; ½ / acre within 2 miles
Land Use	Vacant Private Land within the Driveshed	Presence of vacant land that is privately owned and part of a DRI or owned by a potentially willing entity. The score is 1 point per acre within 1 mile and ½ point per acre from 1 to 2 miles.	-	-	-	-	1 / acre within 1 mile; ½ / acre within 2 miles

2.2 ACES Hub Location Prioritization

Map 2.1
Priority Opportunity / Need Areas for ACES Hubs
Weighted Scores for Prioritization by TAZ



3 ACES Opportunity & Gap Areas

Introduction

In Section 3, the areas for potential ACES mobility hubs are presented and defined based on existing conditions and plans, including the ACES Mobility Hubs Concept (Map 1.1) that is presented in Section 1 and the criteria prioritization and weighting that in Section 2.

The prioritization map is at a geographic level of Transportation Analysis Zones (TAZ) which is the basic geographic unit of the St. Lucie County Transportation Model. TAZ generally represent boundaries of major and secondary roadways (respectively: highways, arterials, and collectors) and generally include areas of homogeneous development. TAZ area size also responds to levels of urbanization, population density and employment density; therefore, in downtown areas a TAZ may only be a few blocks, are several acres in a suburban area, and are very large areas of one or more square miles in agricultural and undeveloped areas. Using the scorings and the heat maps developed by TAZ, aggregations of high scoring areas have been logically assembled to create contiguous areas of gaps and opportunities for siting of ACES Mobility Hubs.

Ten areas have been defined and are provided below in a summary table. For each of the areas, a summary sheet follows that further describes the area, and the criteria rankings that identify these areas as priority areas. Each area is named around its Mobility Centroid, which is the location that initially describes a hub in the network, being at the intersection of two major transportation facilities. It is not necessarily the geographic centroid of the described area.

The interchange of I-95 and Tradition Parkway / Gatlin Boulevard was evaluated to encompass the characteristics of the Tradition and Gatlin area; however, the City of Port St. Lucie has a project underway that includes ACES Mobility Hub components in a mixed-use environment near SIS interchange access. This project (described on page 5) is in partnership with private equity sources including autonomous vehicle operators and development investors to create a mixed-use, jobs-centric mobility hub. When evaluated, this area scored very high based on the criteria in Section 2 and underscores the foresight of the City of Port St. Lucie and its partners to develop the ACES hub. This area is not included in the opportunity and gap area priority analysis because the effort is already underway.

Within the highest priority areas, typical projects will be described in Section 4 for ACES Mobility Hubs to become the nodes of the future St. Lucie County ACES Sustainable Transportation network.

Table 3.1
Opportunity Areas for ACES Mobility Hubs

Place	Mobility Centroid	Report Section	Priority
Fort Pierce Downtown	Orange Avenue and FEC Railroad	3.1	1 (101 points)
Becker Road	I-95 Interchange & Becker Road	3.2	2 (73 points)
Okeechobee Road	Okeechobee Road and I-95 Interchange to Fort Pierce West	3.3	3 (64 points)
US-1 & Port St. Lucie Blvd	Intersection of US-1 & SE Port St. Lucie Boulevard	3.4	4 (42 points)
Midway Road	I-95 Interchange & Midway Road	3.5	5 (30 points)
St. Lucie West	I-95 Interchange & St. Lucie West Boulevard	3.6	6 (21 points)
Crosstown Parkway	I-95 Interchange and Crosstown Parkway	3.7	7 (21 points)
Port St. Lucie Boulevard & Airoso Boulevard	Port St. Lucie Boulevard & Florida's Turnpike / Airoso Boulevard	3.8	8 (21 points)
Orange Avenue	I-95 Interchange and Orange Avenue	3.9	9 (20 points)
Indrio Road Planned Development	I-95 Interchange & Indrio Road	3.10	10* (17 points)

* Coordination of Indrio project with proposed Indrio & I-95 and Indrio Town Center mixed-use developments may change priority and timeline.

Map 3.1
ACES Mobility Hubs Concept Prioritized Hubs



3.1 Fort Pierce Downtown

Mobility Centroid

Orange Avenue (SR-68)
& FEC Railroad

Boundaries

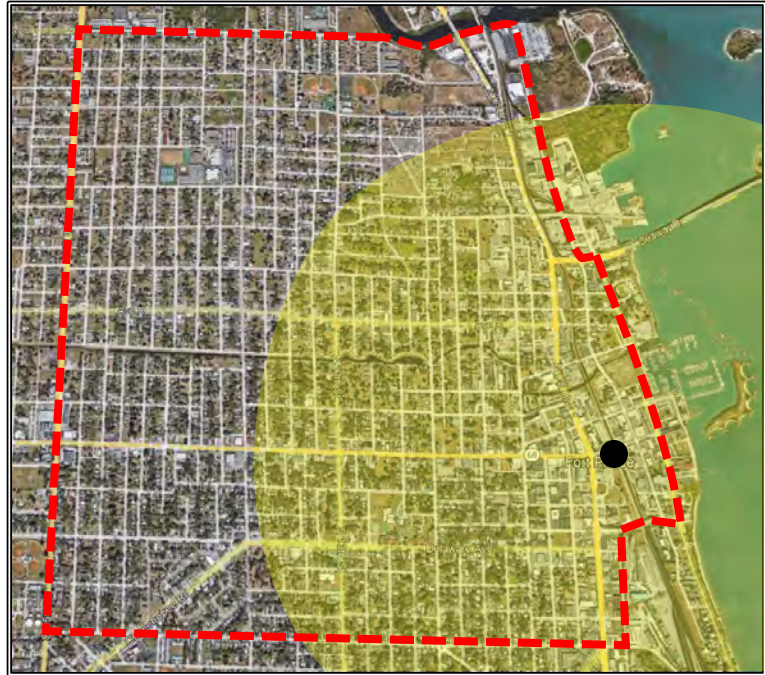
North: Avenue Q
South: Georgia Avenue
East: FEC Railroad
West: S. 25th Street

Area Type

Downtown: mixed-use destination
and civic / business center

Major Transportation Infrastructure

US-1 (SR-5)
Orange Avenue (SR-68)
Okeechobee Road / Delaware Av.
Seaway Drive (A-1A)
Florida East Coast (FEC) Railroad



Fort Pierce Downtown

ACES Mobility Infrastructure Opportunity/Gap Area

- red dashed line = boundary of TAZs and criteria that identify area
- black dot is opportunity area mobility centroid
- yellow shaded circle is 1-mile radius around mobility centroid

Table 3.2

Fort Pierce Downtown ACES EVSE Infrastructure Opportunity Area Criteria

Criteria	Finding	Score	Comments
State Intermodal System Driveshed	No	0	nearest edge is 2.7 miles from I-95 interchange
Evacuation Route	Yes	3	US-1, Orange Avenue (SR-68), Seaway Drive
Population Density Existing	Yes	9	1 TAZ 15+ density, 3 TAZ at 10-15 density
Population Density 2045	Yes	28	6 TAZ at 15+ density, 5 TAZ at 10-15 density
Employment Density - Existing	Yes	11	1 TAZ at 40+ emp. density, 6 at 20-40, 3 at 10-20
Employment Density 2045	Yes	11	1 TAZ at 40+ emp. density, 6 at 20-40, 3 at 10-20
Major Retail Activity Center (MAC)	Yes	3	Downtown Fort Pierce (over 1,000,000 sq. ft.)
Mixed-Use Development	Yes	3	Downtown Fort Pierce
Hospitals	Yes	1	Florida Lawnwood Hospital is 1.6 mi. from centroid
Rail Station	Yes	3	Potential for Brightline Station (unconfirmed)
Transit Hubs	Yes	3	Fort Pierce Bus Terminal: Avenue D & N. 8 th St.
Disadvantaged Community Investment	Yes	22	11 TAZ are identified as J40 areas
Publicly Controlled Vacant Land	Yes	1	The Depot Drive Site (3 parcels totaling 1.3 acres) has been proposed by the City of Fort Pierce for the Brightline Station site. Status is not confirmed.
Vacant Private Land P3 Potential	TBD	3	HD King Plan Site (7.2 acres) has been proposed by the City for Brightline site. Status is not confirmed.
TOTAL SCORE		101	

3.2 Becker Road

Mobility Centroid

I-95 Interchange and
Becker Road

Boundaries

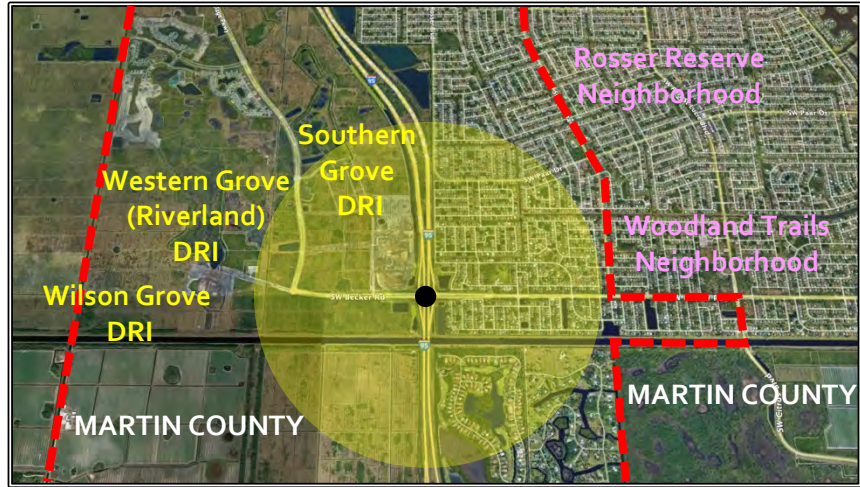
North SW Hunnicut Avenue
South County Line
East SW Savona Blvd.
West w.o. SW Village Pkwy.

Area Type

State Highway Interchange
Rural and Suburban Edge

Major Roadways

I-95
Becker Road



Becker Road ACES EVSE Infrastructure Opportunity/Gap Area

- red dashed line = boundary of TAZs and criteria that identify area
- black dot is opportunity area mobility centroid
- yellow shaded circle is 1-mile radius around mobility centroid

**Table 3.3
Becker Road ACES EVSE Infrastructure Opportunity/Gap Area Criteria**

Criteria	Finding	Score	Comments
State Intermodal System Driveshed	Yes	2	I-95 interchange and Becker Road
Evacuation Route	Yes	2	I-95, Becker Road
Population Density Existing	No	0	1 TAZ at 6-10 density, 6 TAZ at 1-6 density, 19 TAZ at 0-1
Population Density 2045	No	0	7 TAZ at 6-10 density, 6 TAZ at 1-6 density, 12 TAZ at 0-1 density
Employment Density - Existing	No	0	7 TAZ at 0-10 emp. density
Employment Density 2045	Yes	0	7 TAZ at 0-10 emp. density
Major Retail Activity Center (MAC)	Yes	7	Future Retail MAC with DRIs at 1.8-million sq ft, 893,000 sq. ft., and 765,000 sq. ft.
Mixed-Use Development	Yes	50	Southern Grove DRI: 7,388 HH; employment, 14,069. Western Grove DRI: 11,700 HH; employment, 4,412. Wilson Grove DRI: 7,700 HH; employment, 4,412.
Hospitals	No	0	None
Rail Station	No	0	No rail station existing or planned
Transit Hubs	No	0	None
Disadvantaged Community Investment	No	0	No TAZ are identified as J40 areas
Publicly Controlled Vacant Land	Yes	3	City of Port St. Lucie owns 15.4 acres on the east side of the interchange; however, it is used for storm water retention and not suitable. The City also owns 2.9 acres along the south side of Becker Road that may be suitable, noting that it is adjacent to single family homes, so facilities must be small and low impact.
Vacant Private Land P3 Potential	Yes	9	DRI: Southern Grove, Western Grove, Wilson Grove
TOTAL SCORE		73	

3.3 Okeechobee Road: I-95 to Fort Pierce

Mobility Centroid

Interchange of I-95 and Okeechobee Road

Boundaries

- North Georgia Avenue
- South Virginia Avenue
Edwards Road
- East S. 7th Street
SW 23rd Steet
McNeil Road
- West I-95

Area Type

State Highway Interchange
Commercial Corridors



Okeechobee Road / I-95 / Fort Pierce West

ACES EVSE Infrastructure Opportunity/Gap Area

- red dashed line = boundary of TAZs and criteria that identify area
- black dot is opportunity area mobility centroid
- yellow shaded circle is 1-mile radius around mobility centroid

Major Roadways

- I-95
- Florida’s Turnpike
- Okeechobee Road
- South Kings Highway

Table 3.4

Okeechobee Road: I-95 to Ft. Pierce West ACES EVSE Infrastructure Opportunity/Gap Area Criteria

Criteria	Finding	Score	Comments
State Intermodal System Driveshed	Yes	2	I-95 interchange and FI Turnpike at Okeechobee
Evacuation Route	Yes	4	I-95, Fl. Turnpike, Okeechobee Rd (SR-70), Kings Hwy
Population Density Existing	Yes	4	2 TAZ at 10-15 density
Population Density 2045	Yes	18	2 TAZ at 15+ density, 6 TAZ at 10-15 density
Employment Density - Existing	Yes	4	1 TAZ at 20-40 emp. density, 2 at 10-20 emp. density
Employment Density 2045	Yes	6	2 TAZ at 20-40 emp. density, 2 at 10-20 emp. density
Major Retail Activity Center (MAC)	Yes	3	Walmart (220,000 sq. ft.), Indian River State College
Mixed-Use Development	No	0	Okeechobee corridor not walkable to MF residential
Hospitals	Yes	1	Florida Lawnwood Hospital is 3.1 mi. from centroid
Rail Station	No	0	No rail station existing or planned
Transit Hubs	No	0	St. Lucie ART Route 3 bus stops. No Transit hub.
Disadvantaged Community Investment	Yes	14	7 TAZ are identified as J40 areas
Publicly Controlled Vacant Land	Yes	8	One mile west, a 13-acre parcel south of Okeechobee and west of Kings Hwy with the western 3 acres used for maintenance equipment may be repurposed. On the south side of Okeechobee, Indian River State College owns a 5.7-acre vacant parcel, 1 mile from the centroid. It is designated for general commercial use. Intended use is not known.
Vacant Private Land P3 Potential	TBD	0	None
TOTAL SCORE		64	

3.4 US-1 & Port SE Port St. Lucie Boulevard

Mobility Centroid

US-1 and
Port St. Lucie Boulevard

Boundaries

North Crosstown Parkway
SE Walton Road
South County Line
East SE Lennard Road
West SE Midport Road

Area Type

Commercial Corridor
Intersection with Major Arterial

Major Roadways

US-1
SE Port St. Lucie Boulevard
SE Walton Road
NW Jensen Beach Boulevard



Port St. Lucie US-1 ACES Infrastructure Opportunity/Gap Area

- red dashed line = boundary of TAZs and criteria that identify area
- black dot is opportunity area mobility centroid
- yellow shaded circle is 1-mile radius around mobility centroid

**Table 3.5
US-1 & SE Port St. Lucie Blvd. ACES EVSE Infrastructure Opportunity/Gap Area Criteria**

Criteria	Finding	Score	Comments
State Intermodal System Driveshed	No	0	I-95 interchange is 4.3 miles west
Evacuation Route	Yes	4	US-1, Crosstown Pkwy, SE Walton Rd, SE PSL Blvd.
Population Density Existing	Yes	6	3 TAZ at 10-15 density
Population Density 2045	Yes	11	1 TAZ at 15+ density, 4 TAZ at 10-15 density
Employment Density - Existing	Yes	5	1 TAZ at 40+ emp. density, 2 at 20-40, 1 at 10-20
Employment Density 2045	Yes	2	1 TAZ at 40+ emp. density, 2 at 20-40, 1 at 10-20
Major Retail Activity Center (MAC)	Yes	5	Treasure Coast Square (950,000 sq. ft.), Super Center, (450,000 sq. ft.) Walmart (220,000 sq. ft.)
Mixed-Use Development	Yes	6	US-1 commerce with Lyngate neighborhood to west and Sandhill Crossing neighborhood to east
Hospitals	Yes	0	HCA Florida St. Lucie Hospital
Rail Station	No	0	No rail station existing or planned
Transit Hubs	No	3	St. Lucie ART Route 1 & 4 bus stops. No Transit hub.
Disadvantaged Community Investment	No	0	No TAZ are identified as J40 areas
Publicly Controlled Vacant Land	No	0	The City of Port St. Lucie owns 7 acres of vacant land at SE Hillmoor Drive and 32 acres of land on Mariposa Avenue. All are designated for conservation.
Vacant Private Land P3 Potential	TBD	0	At 2002 SE Port St. Lucie Blvd, there is a 4.6-acre parcel belonging to Southern Bell Telephone & Telegraph and used as a communication substation. It is mostly underutilized with an 11,220 sq. ft. building and little parking. P3 potential is not determined.
TOTAL SCORE		42	

3.5 Midway Road

Mobility Centroid

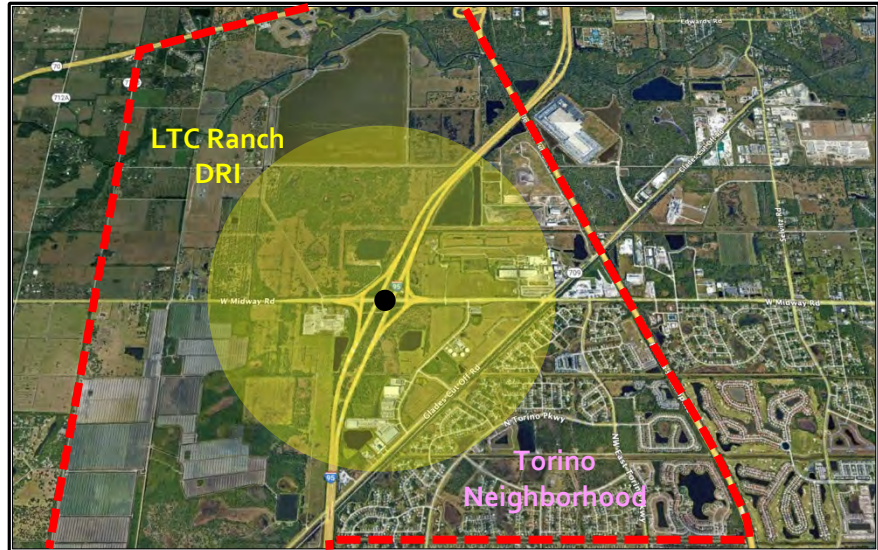
I-95 Interchange and
W. Midway Road

Boundaries

North approximate latitude
where I-95 & Tpk cross
South North Torino Pkwy.
canal s.o. W Blanton
East Florida’s Turnpike
West McCarty Road

Area Type

State Highway Interchange
Rural and Suburban Edge



Midway Road ACES EVSE Infrastructure Opportunity/Gap Area

- red dashed line = boundary of TAZs and criteria that identify area
- black dot is opportunity area mobility centroid
- yellow shaded circle is 1-mile radius around mobility centroid

**Table 3.6
Midway Road ACES EVSE Infrastructure Opportunity/Gap Area Criteria**

Criteria	Finding	Score	Comments
State Intermodal System Driveshed	Yes	2	I-95 interchange and W. Midway Road
Evacuation Route	Yes	2	I-95, W. Midway Road
Population Density Existing	Yes	2	1 TAZ at 10-15 density, 18 TAZ at 1-6 density, 11 TAZ at 0-1 density
Population Density 2045	Yes	4	2 TAZ at 10-15 density, 2 TAZ at 6-10 density, 19 TAZ at 1-6 density, 11 TAZ at 0-1 density
Employment Density - Existing	Yes	0	30 TAZ at 0-10 emp. density
Employment Density 2045	Yes	0	30 TAZ at 0-10 emp. density (LTC approx. 3 / acre)
Major Retail Activity Center (MAC)	Yes	0	None
Mixed-Use Development	Yes	7	LTC Ranch DRI , Wylder Residential Development: 2,500 HH, 980,100 sq. ft. offices, 1,275 employment. Torino neighborhood and Town Center.
Hospitals	No	0	None
Rail Station	No	0	No rail station existing or planned
Transit Hubs	No	0	None
Disadvantaged Community Investment	No	10	5 TAZ are identified as J40 areas
Publicly Controlled Vacant Land	No	0	None
Vacant Private Land P3 Potential	Yes	3	The LTC Ranch DRI is planned as a major mixed-use development encompassing 200 acres north of Midway Road and west of I-95. South of the DRI is a 46-acre parcel owned by FPL and the site of an electric substation. It is not likely for use without hindering safe operation of the substation.
TOTAL SCORE		30	

3.6 St. Lucie West

Mobility Centroid

I-95 Interchange and
St. Lucie West Boulevard

Boundaries

North NW Peacock Blvd.
South Crosstown Pkwy.
East Country Club Drive
West SW Visconti Way
Glades Cut Off Road

Area Type

State Highway Interchange
Commercial Corridor
Suburban



St. Lucie West ACES EVSE Infrastructure Opportunity/Gap Area

- red dashed line = boundary of TAZs and criteria that identify area
- black dot is opportunity area mobility centroid
- yellow shaded circle is 1-mile radius around mobility centroid

Major Roadways

I-95
St. Lucie West Boulevard

Table 3.7
St. Lucie West ACES EVSE Infrastructure Opportunity/Gap Area Criteria

Criteria	Finding	Score	Comments
State Intermodal System Driveshed	Yes	2	I-95 interchange and St. Lucie West Boulevard
Evacuation Route	Yes	1	I-95 interchange, St. Lucie West Boulevard
Population Density Existing	Yes	2	1 TAZ at 10-15 density
Population Density 2045	Yes	2	1 TAZ at 10-15 density
Employment Density - Existing	Yes	4	4 TAZ at 10-20 emp. density
Employment Density 2045	Yes	4	1 TAZ at 20-40 emp. density, 3 at 10-20
Major Retail Activity Center (MAC)	Yes	3	Town Center at St. Lucie West (920,000 sq. ft.)
Mixed-Use Development	Yes	3	St. Lucie West neighborhoods and Town Center, and Indian River State College, Ken Pruitt Campus
Hospitals	No	0	None
Rail Station	No	0	No rail station existing or planned
Transit Hubs	No	0	St. Lucie ART Route 8 bus stops. No Transit hub.
Disadvantaged Community Investment	No	0	No TAZ are identified as J40 areas
Publicly Controlled Vacant Land	No	0	There are several large parcels east of the interchange that are owed by St. Lucie West Services District; however, they are designated for preservation/conservation.
Vacant Private Land P3 Potential	Yes	0	None
TOTAL SCORE		21	

3.7 Crosstown Parkway

Mobility Centroid

I-95 Interchange and Crosstown Parkway

Boundaries

North s.o. St. Lucie West Blvd / Reserve Blvd.
 South Tanforan Blvd. s.o. Webster Lane
 East w.o. SW California Blvd
 West Novella Way Fairgreen Road

Area Type

State Highway Interchange
 Suburban

Major Roadways

I-95
 Crosstown Parkway



Crosstown Parkway ACES EVSE Infrastructure Opportunity/Gap Area

- red dashed line = boundary of TAZs and criteria that identify area
- black dot is opportunity area mobility centroid
- yellow shaded circle is 1-mile radius around mobility centroid

Table 3.8

Crosstown Parkway ACES EVSE Infrastructure Opportunity/Gap Area Criteria

Criteria	Finding	Score	Comments
State Intermodal System Driveshed	Yes	2	I-95 interchange and Crosstown Parkway
Evacuation Route	Yes	2	I-95 interchange, Crosstown Parkway
Population Density Existing	Yes	0	8 TAZ at 1-6 density, 3 TAZ at 0-1 density
Population Density 2045	Yes	0	3 TAZ at 6-10 density, 6 TAZ at 1-6 density, 2 TAZ at 0-1 density
Employment Density - Existing	Yes	0	11 TAZ at 0-10 emp. density
Employment Density 2045	Yes	0	11 TAZ at 0-10 emp. density
Major Retail Activity Center (MAC)	Yes	3	Future Retail MAC with Verano
Mixed-Use Development	Yes	8	Verano DRI: 7,200 HH, 848,500 sq. ft. commercial, employment of 865
Hospitals	No	0	None
Rail Station	No	0	No rail station existing or planned
Transit Hubs	No	0	None
Disadvantaged Community Investment	No	0	No TAZ are identified as J40 areas
Publicly Controlled Vacant Land	No	0	The City of Port Saint Lucie owns 84.8 acres of land that is designated for electric transmission easement and designated for open space and conservation.
Vacant Private Land P3 Potential	Yes	6	Verano DRI is currently building out. Mostly single-family residential, there is a mixed-use commercial center on the northwest corner of SW Crosstown Parkway and Village Parkway. The 36.7-acre Verano Center Community Development District is located at the southwest corner of the I-95 interchange .
TOTAL SCORE		21	

3.8 SE Port St. Lucie Boulevard & Airoso Blvd. / Florida's Turnpike

Mobility Centroid

Florida's Turnpike and
SE Port St. Lucie Boulevard

Boundaries

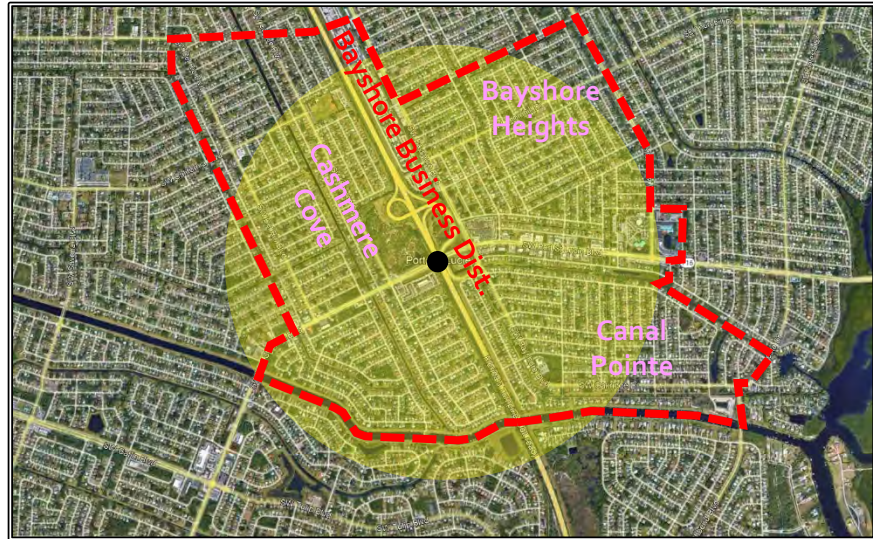
- North Crosstown Parkway
SW Voltair Terrace
- South St. Lucie River
- East SW Airoso Blvd.
SE Floresta Drive
- West SW Susset Lane
SW PSL Blvd.

Area Type

State Highway Interchange
Commercial Corridor
Suburban

Major Roadways

Florida's Turnpike
SE Port St. Lucie Boulevard



**SE Port St. Lucie Boulevard & Florida's Turnpike
ACES EVSE Infrastructure Opportunity/Gap Area**

- red dashed line = boundary of TAZs and criteria that identify area
- black dot is opportunity area mobility centroid
- yellow shaded circle is 1-mile radius around mobility centroid

Table 3.9

SW Port St. Lucie Blvd. & Florida's Tpk. ACES EVSE Infrastructure Opportunity/Gap Area Criteria

Criteria	Finding	Score	Comments
State Intermodal System Driveshed	Yes	2	Turnpike and Port St. Lucie Boulevard interchange
Evacuation Route	Yes	2	Florida's Turnpike, SE Port St. Lucie Boulevard
Population Density Existing	Yes	2	1 TAZ at 10-15 density
Population Density 2045	Yes	2	1 TAZ at 10-15 density; significant densification in area with TAZs growing from density of 1-6 to 6-10.
Employment Density - Existing	No	0	All TAZ at 0-10 emp. density
Employment Density 2045	No	0	All TAZ at 0-10 emp. density
Major Retail Activity Center (MAC)	No	1	PSL Boulevard commercial strip
Mixed-Use Development	Yes	6	Bayshore Business District and PSL Blvd commercial corridor with neighborhoods of Cashmere Cove, Bayshore Heights and Canal Pointe.
Hospitals	No	0	None
Rail Station	No	0	No rail station existing or planned
Transit Hubs	Yes	2	Port St. Lucie Intermodal Transit Facility
Disadvantaged Community Investment	Yes	4	2 TAZ are identified as J40 areas
Publicly Controlled Vacant Land	No	0	None
Vacant Private Land P3 Potential	No	0	At the southeast corner of the interchange is a 5.8-acre parcel owned by FPL and the site of an electric substation. Part of the land is vacant, and access to the site is difficult. It is not likely for use without hindering safe operation of the substation.
TOTAL SCORE		21	

3.9 Orange Avenue

Mobility Centroid

I-95 Interchange and Orange Avenue

Boundaries

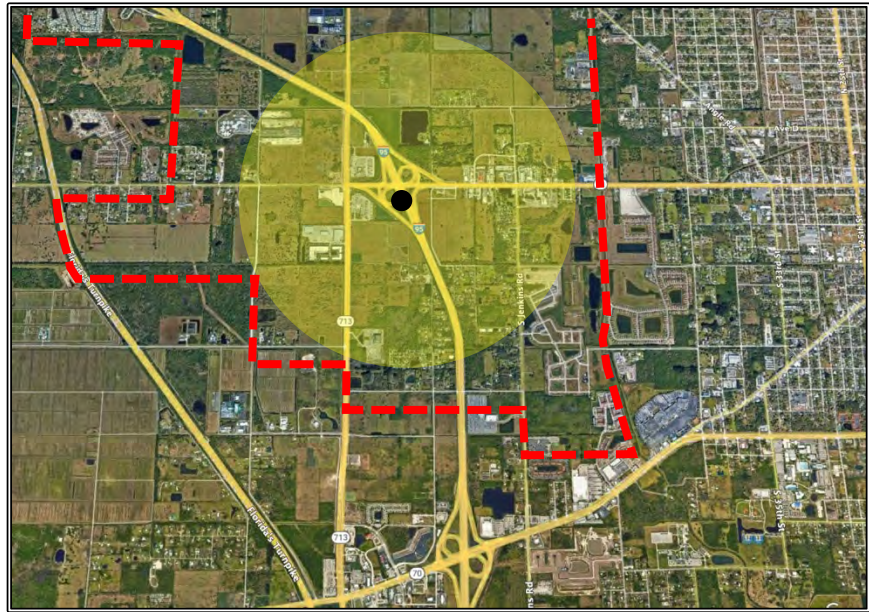
North W Angle Road
South Picos Road, Graham Road
East Panther Lane, canal
West Florida’s Turnpike

Area Type

State Highway Interchange
Rural / Suburban Edge

Major Roadways

I-95
Orange Avenue
Kings Highway



Orange Avenue ACES EVSE Infrastructure Opportunity/Gap Area

- red dashed line = boundary of TAZs and criteria that identify area
- black dot is opportunity area mobility centroid
- yellow shaded circle is 1-mile radius around mobility centroid

Table 3.10
Orange Avenue ACES EVSE Infrastructure Opportunity/Gap Area Criteria

Criteria	Finding	Score	Comments
State Intermodal System Driveshed	Yes	2	I-95 interchange and Orange Avenue
Evacuation Route	Yes	3	I-95 interchange, Orange Avenue, Kings Highway
Population Density Existing	Yes	0	1 TAZ at 1-6 density, 9 TAZ at 0-1 density
Population Density 2045	Yes	0	6 TAZ at 1-6 density, 4 TAZ at 0-1 density
Employment Density - Existing	Yes	0	10 TAZ at 0-10 emp. density
Employment Density 2045	Yes	0	10 TAZ at 0-10 emp. density
Major Retail Activity Center (MAC)	Yes	0	None
Mixed-Use Development	No	0	None
Hospitals	No	0	None
Rail Station	No	0	No rail station existing or planned
Transit Hubs	No	0	None
Disadvantaged Community Investment	No	0	No TAZ are identified as J40 areas
Publicly Controlled Vacant Land	TBD	15	At 5220 Orange Avenue, FDOT owns 28.7 acres of vacant land, 2 miles east of the interchange. It is not right-of-way. The intended purpose is not known.
Vacant Private Land P3 Potential	No	0	There are large lots currently in development for industrial and logistics uses. There are no major planned mixed-use developments.
TOTAL SCORE		20	

3.10 Indrio Road Planned Development

Mobility Centroid

I-95 interchange and Indrio Road

Boundaries

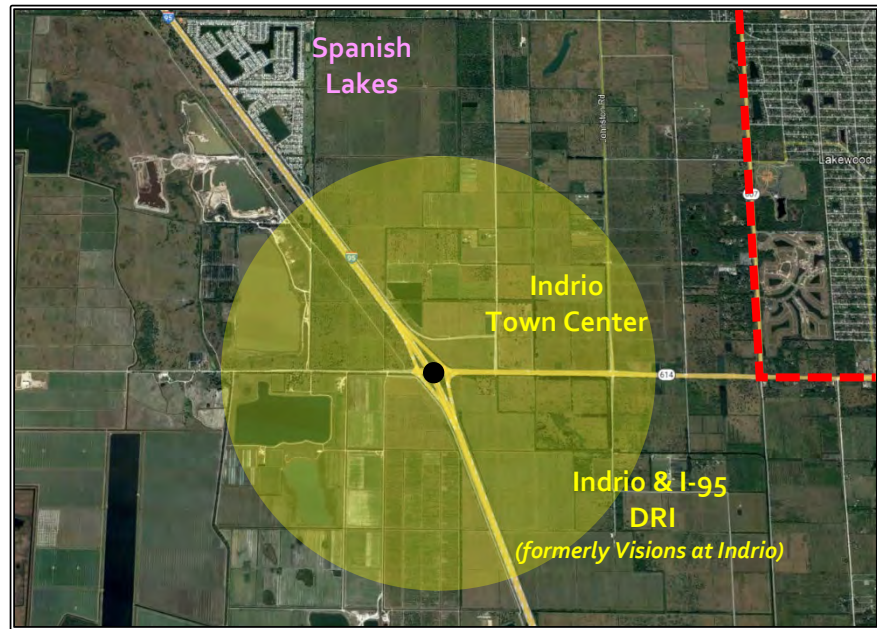
North 25th Street SW
South canal
East Johnston Road
West not defined

Area Type

State Highway Interchange
Rural
Large Planned Mixed-Use Development

Major Roadways

I-95
Indrio Road



Indrio Road ACES EVSE Infrastructure Opportunity/Gap Area

- red dashed line = boundary of TAZs and criteria that identify area
- black dot is opportunity area mobility centroid
- yellow shaded circle is 1-mile radius around mobility centroid

**Table 3.11
Indrio Planned Development ACES EVSE Infrastructure Opportunity/Gap Area Criteria**

Criteria	Finding	Score	Comments
State Intermodal System Driveshed	Yes	2	I-95 interchange and Indrio Road
Evacuation Route	Yes	2	I-95 interchange, Indrio Road
Population Density Existing	No	0	All TAZ at 0-1 and 1-6 density
Population Density 2045	No	0	All TAZ at 0-1 and 1-6 density. Developer plans 2,683 homes – density is not determined.
Employment Density - Existing	No	0	All TAZ at 0-10 emp. density
Employment Density 2045	No	-	All TAZ at 0-10 emp. density
Major Retail Activity Center (MAC)	Yes	3	Future Retail MAC with I-95 and Indrio DRI
Mixed-Use Development	Yes	4	I-95 & Indrio DRI: 2,683 HH, 1,088,00 sq. ft. commercial, employment of 1,109.
Hospitals	No	0	None
Rail Station	No	0	No rail station existing or planned
Transit Hubs	No	0	No transit service. No Transit hub.
Disadvantaged Community Investment	No	0	No TAZ are identified as J40 areas
Publicly Controlled Vacant Land	No	0	None
Vacant Private Land P3 Potential	Yes	6	Indrio & I-95 DRI (837 acres); Indrio Town Center (111 acres). Also, most of the land near the interchange is currently in active agricultural use, with assemblages ranging from 225 acres to 1,850 acres.
TOTAL SCORE		17	

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4 ACES Mobility Hub Concepts

Introduction

In Section 3, eleven opportunity areas are identified as priority areas in which an ACES Mobility Hub may be located that would meet a range of different criteria that address the geography of the St. Lucie County transportation network, emergency response and resiliency considerations, land use, aggregations of population, aggregations of employment, major retail activity centers, existing or planned intermodal hubs, and development of disadvantaged communities. The eleven areas represent a range of opportunities for linking the component of the future ACES network, ranging from a downtown to a major activity center at commercial crossroads, to more highway-focused locations that also serve the State Intermodal System, and to green-fields where major future development is planned.

Mobility Hub Facility Components

While Mobility Hubs provide a focal point in the transportation network to integrate different modes of transportation with multi-modal supportive infrastructure, they also often include place-making strategies to create activity centers to maximize first-and-last-mile connectivity and provide a destination or semi-destination for creating an attractive location for charging EV. Mobility Hub design and programming include six areas discussed below.

1. Pedestrian Facilities that are related to encouraging walking within the Mobility Hub and to and from connections to connect to existing or planned neighborhoods and commercial districts. Closely related to this are encouraging active uses that focuses on supporting mixed-use environment with quality public space. In addition, the multimodal aspects require infrastructure to ensuring safe and comfortable environment for users with information, intuitive design, comfortable and secure infrastructure, protected road crossings, waiting areas, and improved safety and security.

2. Bike Facilities that are related to encouraging these means as a first-and-last-mile choice to and from a mobility hub. Bike facilities include all modes that provide personal transportation that are road-legal vehicles, Low Speed Electric Vehicles, or golf carts and not pedestrian. This mode includes human-powered bikes, electric bicycles, scooters, and skateboards. Design programming should include continuous connections and storage facilities



*Shared E-Bike solar-powered, charging dock
WeCycle / Sky Hook charging station, Basalt, Colorado*

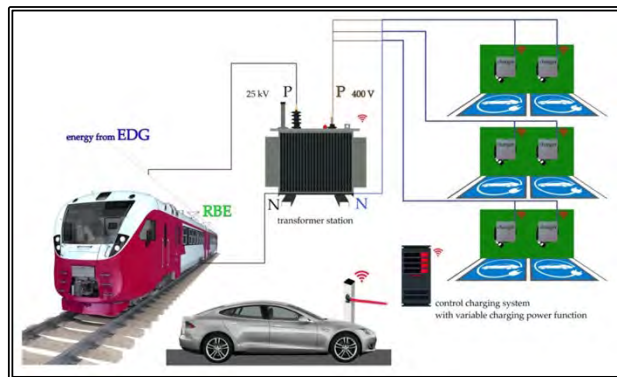
for both personal and shared bicycles, scooters, and skateboards.

3. Vehicle Facilities are related to encouraging and developing ride share, car share, and adoption of alternative fuel sources and green technology such as electric vehicles. This includes adequate parking for the intermodal purposes, as well as adequate capacity of electric Level 3 DC fast chargers charging capacity for EV vehicles and designated spaces for EV shared vehicles (Uber/Lyft delivery model) and short-term rental shared vehicles (Zip-Car/Car2Go delivery model). For highway-focused Mobility Hubs, truck, and other commercial vehicles EV chargers as well as conventional fueling also need to be assessed.

Transit Commuter Parking to provide sufficient EV and non-EV parking capacity to serve the intermodal functions. Whether supporting rail or bus transit, this is a day-parking capacity with little turnover. In addition to forecasting capacity, it is also necessary to have sufficient electrical capacity to provide for conversion of conventional parking spaces to EV parking spaces as EV adoption. Systems are available to control the power requirements depending on space occupancy, level of charge, and the arrival of trains or buses that will temporarily require higher electric current.

The car sharing EV component requires an adequate number of EV spaces that are in high-visibility priority locations both from the transit platforms and from the surrounding neighborhood or commercial district.

Parking capacity is also necessary for the destination retail and public place components of the Mobility Hub. Retail establishments will rely on commuters and non-commuting clientele to thrive. An adequate number of parking spaces (accounting or discounting for commuters and mixed-use pedestrian traffic) is required to support these businesses. These spaces are also in more prioritized locations and include a mix of conventional and EV spaces with the capability to convert more to EV as the EV adoption rate grows.



Example of electric demand control system for intermodal stations with EV charging



Example of dedicated EV car sharing spaces



Example of large EV parking capacity for day use

In addition to the parking needs above, there is also a need for transient EV charging stations that may be included with the retail parking. Particularly at Mobility Hubs that are within the driveshed of highways, these are priority located Level 3 DC fast chargers for travelers to stop and conveniently charge while occupied with retail and restaurant uses, while becoming more familiar with the location. This is akin to an interstate highway rest stop.

Some of the infrastructure planning for the EV automotive recharging needs include:

- Electrical supply that is needed for current and future forecast needs. High-speed DC fast charging requires 480-volt, 3-phase electrical service. The kilowatts for peak demand need to be forecast, along with peak management strategies.
- Space for the electrical infrastructure (electrical panels, remote power cabinets, conduit runs, and the charging stations themselves) in a safe location with access that meets building codes.
- Making chargers easy to find with signage and live wayfinding to an available space.
- How to serve both commercial and passenger vehicles. For most passenger vehicles, pulling or backing into a spot is the most desirable configuration. For larger vehicles, commercial vehicles or vehicles towing trailers, pull-through configurations for EV charging need to be considered.
- EV charging stations and electrical service need to be scaled up in the future.
- How will the EV charging be funded and what can impact expected returns on investment.



Example of DC Fast Charging with conventional pull-through service island

4. Bus Facilities are related to encouraging public transit bus ridership at the levels of: fixed regional routes, smaller area shuttles and trolleys and demand-responsive micro-transit. The facilities vary as the vehicle technology used by each level of transit varies:

- Regional transit buses are typically full-sized 40-foot buses, for which the fleet is running on fossil fuels and does need refueling at a Mobility Hub; however, as the fleet electrifies, enroute charging during layover time may aid the route schedule and duration. For charging in a Mobility Hub, safety will likely require inductive charging, either overhead or embedded in the road surface. and bus layover zones in particular.
- Shuttles and trolleys that travel through smaller service areas, are typically smaller buses either based on a small truck or van chassis. These vehicle fleets are also converting to battery electric propulsion and will require similar facilities as for full size buses; however, the inductive charging equipment may not be the same. In terms of facility programming, stop/layover areas for shuttles must be different from full size buses.
- Demand responsive micro-transit is trending strongly toward use of low-speed electric vehicles (LSEV) with 6 to 10 seats and door opening for each row. In addition to a distinct stop, micro-transit LSEV require an EV charging point. The LSEV technology can use assigned Level 3 EV parking spaces.

For all of the bus types, there must be separate transitway circulation in the Mobility Hub to access and depart the stops. Ideally, separated and or priority operations should be incorporated on the approach to the hub. This is necessary to provide priority to transit that will not be hindered from personal vehicle queues and is especially important near congested intersections and where hubs serve highways at locations near a limited-access highway interchange.



*In ground inductive charging for buses -
Momentum Dynamics, Lynx Transit*

5. Rail Facilities

are related to encouraging public transit ridership at the levels of urban light rail, metro heavy rail, or intercity line-haul, heavy rail. These are appropriate discussions only where there is an existing passenger rail station, or a passenger rail station that is planned or potentially planned in partnership with a rail service operator. In addition to all of the other modes, an additional set of facilities are required that include enough linear space along an active right-of-way for the intended platform length which is related to the rail engine, livery, and number of passenger cars to be in operation at peak times. Electrical needs must be coordinated with the needs of EV charging at a mobility hub. The rail service, in addition to the platform requires a ticketing area and lounge; however, much of the lounge, retail and pedestrian transfer spaces will be shared with the Mobility Hub facilities. Rail operators have their own specific needs for their station locations, and these should be references. Relevant to St. Lucie County, there is an evaluation underway for a Brightline Station in Fort Pierce. Brightline has provided its station requirements, and these are summarized below.

Criteria for Considering Brightline Station Locations in the Treasure Coast *(not all-inclusive)*

source: Brightline Trains, LLC, provided to Treasure Coast Regional Planning Council, August 27, 2018

Ridership Potential

- Population within 30 miles of proposed station
- Population within 5 miles of station
- Proximity to key origins and destinations
- Proximity to business centers, attractions, hotels, and residential populations
- Economic and demographic data to support ridership potential
- Intermodal connections with local transit systems
- Accessibility from local street network

Development Potential

- Parcel(s) must accommodate 1000 linear feet for station platform
- Total available acreage including station
- Adjacent developable parcels and properties
- Existing land use supports residential, hotel, and business development
- Acres of vacant or underutilized parcels within ½ mile
- Nearby parking and transportation network
- Favorable wetland and floodplain conditions

Location

- Distance from other Brightline stations north and south
- Proximity and accessibility to major arterial and collector roads
- Available access points to station from frontage roads
- Proximity to airports
- Proximity to cultural and recreational and commercial destinations
- Area is walkable and compatible with early morning and evening activity
- Location allows continued fluidity of railroad operations for both freight and passenger service
- Location does not cause local vehicular traffic issues

Community Support

- Demonstration of community support for a rail station offering regular intercity passenger service connecting the Treasure Coast to South Florida, Central Florida and eventually Tampa from the proposed location
- Local incentives

6. Information, Public Communication and Data Sharing: To tie together a Mobility Hub as an ACES (Coordinated) Hub, information, public communication, and data sharing is essential. The hub physically brings together many modes into a single, walkable location. For the intermodality to be seamless for the user, efficient for providers, and productive for the County, schedules, availabilities, capacities, demands, and energy use must be coordinated and communicated via smart phone app, large well-located central kiosks within the hub, and signage at the access points outside of the hub.

Mobility Hub Typologies

Each Mobility Hub priority area presents unique opportunities and challenges based on its context and transportation functions. In order to reflect the varying mobility needs and the existing built environment, there are general tiers of Mobility Hubs: Typically, there are three types: Regional Hubs, Central Mobility Hubs, and Neighborhood Mobility Hubs. In the context of creating ACES Mobility Hubs to anchor the St. Lucie county ACES mobility network, an additional category is required to describe hubs that are important to the State Intermodal System (SIS) and Florida ACES and EV plans.

Regional ACES Mobility Hubs are the largest scale station areas in either dense urban areas or end of line stations where they connect to other regional transit providers. The Regional ACES Mobility Hub offers the most intermodal facilities including:

- direct pedestrian access;
- significant conventional parking with market-proportionate EV charging spaces (level 2 for day parking, Level 3 for shorter parking);
- secured bike parking;
- transit bus stops, shuttle bus stops, and layover zones;
- LSEV demand-responsive transit;
- EV car sharing and short-term membership-based EV car rental;
- E-bike sharing, micro-mobility;
- live wayfinding and information kiosks;
- green spaces, art and other placemaking amenities.

Amenities include walkable mixed-use development and on-site amenities built into the Mobility Hub itself. The hub may be a campus design of multiple buildings or have a single multi-story structure consistent with the surrounding development and land cost considerations.

Central ACES Mobility Hubs are typically located in a more suburban context, often at a retail major activity centers (MAC) and at the crossroads of two major mobility facilities. The intermodal facilities may encompass:

- a bus station with one or more bus stops;
- sheltered transfer platforms or lobby to transfer to shuttles and demand responsive micro-transit services;
- a bus EV charging layover facility;
- E-bike sharing and other micro-mobility dock or pod;
- Safe, low stress bicycle paths or buffered lanes leading into and out of the Mobility Hub;
- surface parking that is likely shared with the commercial parking and includes a grouping of several EV charging spaces (level 2 for day parking, mostly level 2 for commuters);
- pedestrian access that safely and comfortably connects to the retail center(s) and the sidewalk network with pedestrian protected, signalized, and marked crossings;
- live wayfinding and information kiosks;
- green spaces, art and other placemaking amenities.

The amenities may be spread throughout the surrounding intersection, while still within easy walking distance from the station itself.

SIS Central ACES Mobility Hubs are a special type of Central Mobility Hub that focuses on providing a resting and recharging location for enroute travelers on the State Intermodal System while providing retail amenities scaled for this market and express connections to the Regional Mobility Hub, a major activity center or a downtown. They may also function as park-and-ride facilities to alleviate traffic congestion to downtowns by providing safe and convenient express transit to downtowns and major activity centers. The SIS ACES Mobility Hubs are located within the 1-mile driveshed of and interchange along I-95 or Florida's Turnpike. The intermodal facilities include:

- Level 3 DC Fast Chargers for through travelers and commercial vehicles in pull-through configurations;
- fossil fuel service stations that can be transitioned to more EV chargers;
- a bus station with one or more bus stops;
- sheltered transfer platforms or lobby to transfer to shuttles and demand responsive micro-transit services;
- a bus EV charging layover facility;
- E-bike sharing and other micro-mobility dock or pod depending on location;
- Safe, low stress bicycle paths or buffered lanes leading into and out of the Mobility Hub if there are bicycle facilities programmed;
- commuter surface parking that includes a grouping of several EV charging spaces (level 2 for commuters);
- safe, separated, pedestrian circulation throughout the facility;
- pedestrian access depending on location;
- live wayfinding and information kiosks
- green spaces, art and other placemaking amenities.

The amenities are arranged in a campus configuration with pedestrian circulation throughout.

Neighborhood Mobility Hubs are smaller ancillary station areas generally found in lower density neighborhoods or at the entrance to planned are developments. They offer a few basic amenities including wayfinding, bike share and bike parking areas. All these amenities are generally immediately visible from the station stop, and generally located across the street or within the same block.

- a bus sheltered station with one or more bus lines serving it;
- transfer to shuttles and demand responsive micro-transit services;
- E-bike sharing and other micro-mobility dock or pod;
- safe, low stress bicycle paths or buffered lanes leading into and out of the Mobility Hub;
- Small off-street surface parking that includes a grouping of two EV charging spaces;
- pedestrian access that safely and comfortably connect to the sidewalk network with pedestrian protected, signalized, and marked crossings;
- live wayfinding and information kiosks;
- green spaces, art and other placemaking amenities.

Table 4.1 summarizes mobility hub components and amenities for planning in terms of necessity for the type of ACES Mobility Hub. For each component or attribute, there is an indication of whether it is vital (green circle), optional (blue triangle), or not included (red square).

Table 4.1
ACES Mobility Hub Components & Attributes

Mobility Mode	Infrastructure	Neighborhood ACES Mobility Hub	Central ACES Mobility Hub	SIS Central ACES Mobility Hub	Regional ACES Mobility Hub
Pedestrian Connections	continuous pedestrian path to and from ACES Mobility Hub	●	●	▲	●
	walkable environment within ACES Mobility Hub	●	●	●	●
	placemaking green spaces, plazas, and points of interest	▲	●	●	●
Bicycle & Personal Modes Connections	continuous bike path to and from ACES Mobility Hub	●	●	▲	●
	bicycle racks	●	●	■	●
	bicycle lockers	●	▲	●	▲
	shared bicycle docks	●	●	▲	●
	shared E-scooter docks/area	●	●	▲	●
Vehicle Connections	access separated from transit, pedestrian, and bicycle ways	▲	▲	●	●
	commuter long-term day parking	●	●	●	●
	commuter long-term day spaces for Level 2 EV charging	●	●	●	●
	short-term priority parking for retail patronage	■	●	■	●
	pick-up drop-off areas for Uber/Lyft type car sharing	●	●	●	●
	priority EV parking for Uber/Lyft type car sharing (L3)	■	●	▲	●
	priority EV parking for short-term rental car sharing (L3)	■	●	▲	●
	Level 3 DC Fast Chargers in pull-through configuration	■	■	●	■
Bus Infrastructure (Express, Regional, Shuttles)	sheltered bus station area with multiple bus stops	■	●	●	●
	single bus stop with shelter and amenities	●	■	■	■
	raised platform waiting and boarding area at stop	▲	●	●	●
	EV charging bus layover zone	■	●	●	●
Demand Responsive Transit	sheltered waiting area with amenities (may be shared with bus stop)	●	●	●	●
	dedicated LSEV charging space for layover/ wait time	▲	●	●	●

Mobility Mode	Infrastructure	Neighborhood ACES Mobility Hub	Central ACES Mobility Hub	SIS Central ACES Mobility Hub	Regional ACES Mobility Hub
Passenger Rail	sheltered station area with platform length and width per rail service requirements	■	■	■	●
	raised platform	■	■	■	●
Information & Coordination	large information kiosks in high pedestrian traffic areas	▲	●	●	●
	real-time schedule information	●	●	●	●
	wi-fi / smartphone real-time information and wayfinding	●	●	●	●
	parking coordination for space and EV charger availability	■	●	●	●
	public information messaging for safety and other concerns	●	●	●	●
	power management for hub EV charging to manage peaks	■	▲	●	●
Support Infrastructure and Active Uses	pedestrian connected waiting areas	●	●	●	●
	retail and eateries with occupancy times that synchronize to DC Fast charging	■	●	▲	●
	community service retail to provide typical daily needs for intermodal commuters	■	●	●	●
	Co-workspaces	■	●	▲	●
	mixed use development within 5-minute walkshed	■	●	▲	●
	package delivery lockers to reduce home delivery trips	▲	▲	▲	●
	waiting areas and lounges with information & infotainment	▲	●	●	●
	green spaces and plazas	▲	●	●	●
	water fountains to help mask the sound of transport vehicles	▲	▲	▲	▲
	art-in-public places to visually relieve pedestrian users	▲	▲	▲	▲
	signage for identity / branding	●	●	●	●

Key:	Vital ●	Optional ▲	Not required or not applicable ■
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The typologies that are appropriate for each of the eleven areas are summarized in Table 4.2.

Table 4.2
ACES Mobility Hub Typologies for the Ten Opportunity Areas

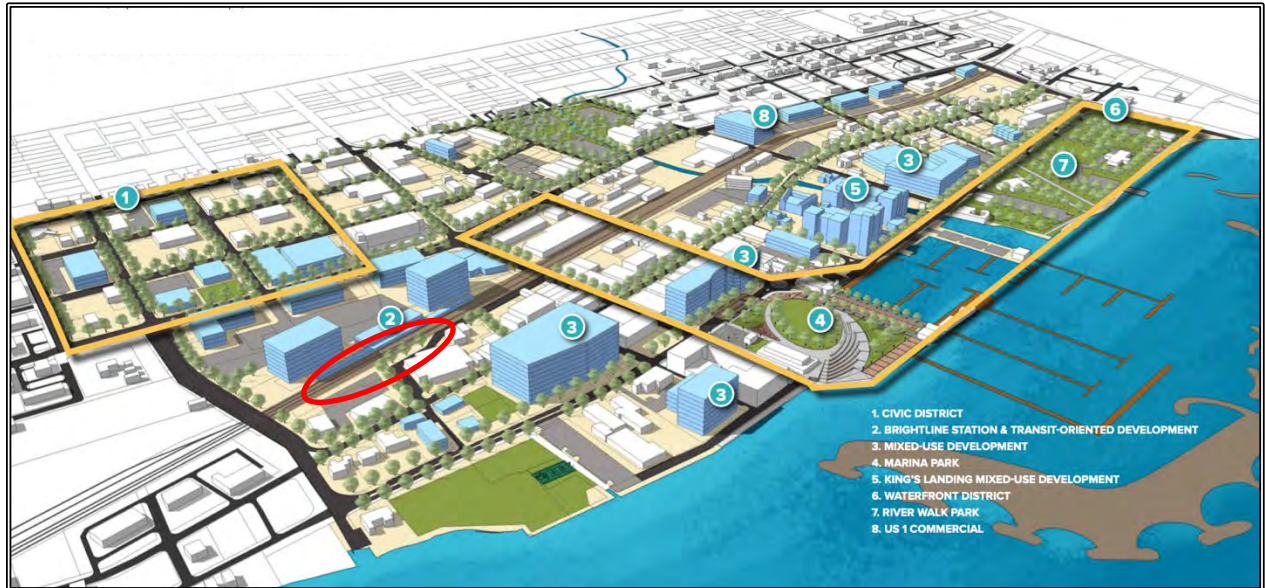
Place	Mobility Centroid	Priority	Mobility Hub Typology
Fort Pierce Downtown	Orange Avenue & FEC Railroad	1	Regional
Becker Road	I-95 Interchange & Becker Road	2	SIS Central
Okeechobee Road	Okeechobee Road: I-95 to Fort Pierce West	3	SIS Central
US-1 & Port St. Lucie Blvd	US-1 & SE Port St. Lucie Boulevard	4	Central
Midway Road	I-95 Interchange & Midway Road	5	SIS Central
St. Lucie West	I-95 Interchange & St. Lucie West Boulevard	6	SIS Central
Crosstown Parkway	I-95 Interchange and Crosstown Parkway	7	SIS Central
Port St. Lucie Boulevard & Airoso Boulevard	Port St. Lucie Boulevard & Florida's Turnpike / Airoso Boulevard	8	SIS Central
Orange Avenue	I-95 Interchange and Orange Avenue	9	SIS Central
Indrio Road Planned Development	I-95 Interchange & Indrio Road	10	SIS Central

In the following sections, the typologies are applied to the top four Mobility Hub priority areas that were identified in Section 3. Each provides an example of how the ACES Mobility Hub attributes can be applied to specific areas to help determine typology, siting, infrastructure, and components. Each represents a different typology of ACES Mobility Hub.

Specific sites are suggested as ideal locations within the area; however, Mobility Hub site selection must be determined with further analysis of public and privately available land within each area, land costs, acreage, access and utilities, area compatibility, land development regulations, and specific opportunities for public-private partnerships. Site selection also goes hand-in-hand with forecasting capacities of the infrastructure components which requires demand forecasting analysis and relevant pro-forma analysis, after which decisions regarding horizontal or vertical development will help determine required land area required and specific location.

Section 1.2 of this report provides some visual examples of urban vertically developed mobility hubs in urban settings (Tacoma Dome Station, Tacoma Washington, p. 12) as well as more suburban horizontally developed mobility hubs. (Kalauao Mobility Hub, Honolulu metropolitan area, Hawaii, conceptual drawing) Additional photo examples are provided for each typology from other areas in the country. Most are also in conceptual or planning stages.

4.1 Fort Pierce ACES Mobility Hub Concept



Fort Pierce Downtown Vision Plan, potential site for Brightline Station a potential site for the Fort Pierce ACES Mobility Hub (indicated by red oval) Source: Fort Pierce Downtown Master Plan, November 2022

The City of Fort Pierce is well-positioned to be selected as a location for a Brightline Station intercity passenger rail station. The *Fort Pierce Downtown Master Plan* has identified several parcels of underutilized and vacant property directly adjacent to the rail corridor that could provide a location for the future Brightline Station as well as provide redevelopment opportunities for mixed-use development. The Brightline Train station will serve as a catalyst for walkable, transit-oriented downtown redevelopment, and connect people by electrically-powered regular passenger service to Orlando, West Palm Beach, Fort Lauderdale, and Miami.

This area is priority #1 as an ACES Mobility Hub. The focus of this ACES Mobility Hub is intercity rail service that can also enable long-distance commuter travel which in turn spins off economic development in down-town Fort Pierce as an employment destination and housing market. The existing waterfront downtown is compact, walkable, and includes restaurants, small shops and a center of government offices and legal services. It is well suited for micro-mobility, transit, and other alternative mobility, for which the rail service establishes an effective hub.



Concept planning for rail station mobility station in Sacramento, California – illustration by Perkins + Will

**Table 4.3
Fort Pierce ACES Mobility Hub Components**

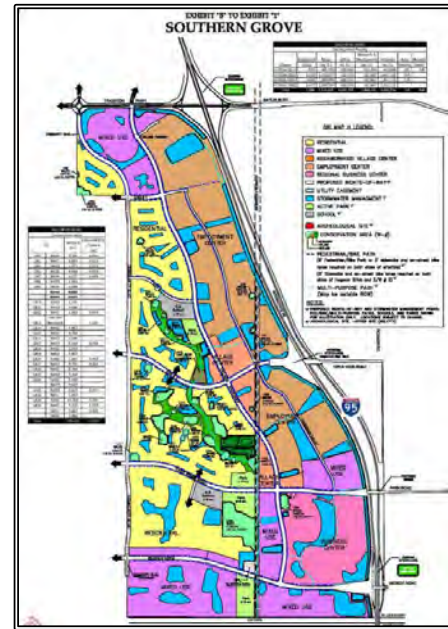
Aces Mobility Hub Type	Regional
City	Fort Pierce
Setting	Urban Downtown
Primary Transportation Mode	Passenger Rail – Intercity
SIS Links	not applicable
Transit	<ul style="list-style-type: none"> • St. Lucie County Area Regional Transit Routes 1, 2, 3, 7, and 8 • Ft. Pierce Downtown Tram
Demand Responsive Modes	<ul style="list-style-type: none"> • micro transit (currently provided by City of Ft. Pierce Freebie) • shared micro-mobility
Site	Suggested by Ft. Pierce Economic Development: former HD King Site and Depot Drive Site
Design Concept	Vertical development with transit transfer, micro-mobility, parking, and EV charging on site with mixed-use amenities in downtown within a 5-minute walk.
On-Site Mobility Amenities	<ul style="list-style-type: none"> • public parking • public pull-in EV charging spaces • shared EV service spaces – membership short-term rentals • shared ride pickup and drop-off zone • shared ride priority EV DC fast charger pull-in spaces • public bicycle racks • shared use bicycle, E-bike • shared-use scooter docks / pods
On-Site Information and Connectivity Amenities	<ul style="list-style-type: none"> • large information kiosks in high pedestrian traffic areas • real-time schedule information • wi-fi / smartphone real-time information and wayfinding • parking coordination for space and EV charger availability • public information messaging for safety and other concerns • power management for hub EV charging to manage peaks
On-Site Amenities	<ul style="list-style-type: none"> • pedestrian connected waiting areas • waiting areas and lounges with information & infotainment • limited snack take-away food and beverage services • package delivery lockers to reduce home delivery trips • signage for identity / branding
Off-Site Support Infrastructure and Active Uses	<ul style="list-style-type: none"> • existing pedestrian network • plan for enhanced pedestrian crosswalks with protected pedestrian crossing phases within the Mobility Hub walkshed • complete bicycle network (planned) • mixed-use development including retail, office employment centers, hotels and future residential uses within 5 minute walk

4.2 Becker Road ACES Mobility Hub Concept



Aerial view of the US-1 & Becker Road SIS Central ACES Mobility Hub area showing initial development of regional business center and employment center between I-95 and SW Village Parkway

The attributes of the I-95 and Becker Road area is suburban single-family neighborhoods to the east, with small vacant publicly owned vacant parcels along Becker Road. To the west of the interchange, the land is under development pursuant to the approved Southern Grove DRI, with the Western Grove, Riverland, and Wilson Groves DRI immediately adjacent to the west and north. In sum, planned and under-construction development includes over 26,000 new households, and approximately 3.5-million square feet of commercial space (retail, office, light industrial and logistics) representing over 22,000 jobs. Based on these characteristics, this would be an SIS Central ACES Mobility Hub type, with emphasis on its functions to intercept highway vehicles and express transit and facilitate intermodal connections to shared-use EV, micro-transit, micro-mobility, and walking. As an SIS Central type, mobility options and amenities will be oriented to integrate into the planned mixed-use in either the “business center” (pink) area or “mixed-use” (purple) area of the DRI Master Plan along Village Parkway or Becker Rd, developed via a P3 agreement.



Above: Southern Grove DRI Master Plan land uses
Below: conceptual suburban mobility hub integral with mixed-use

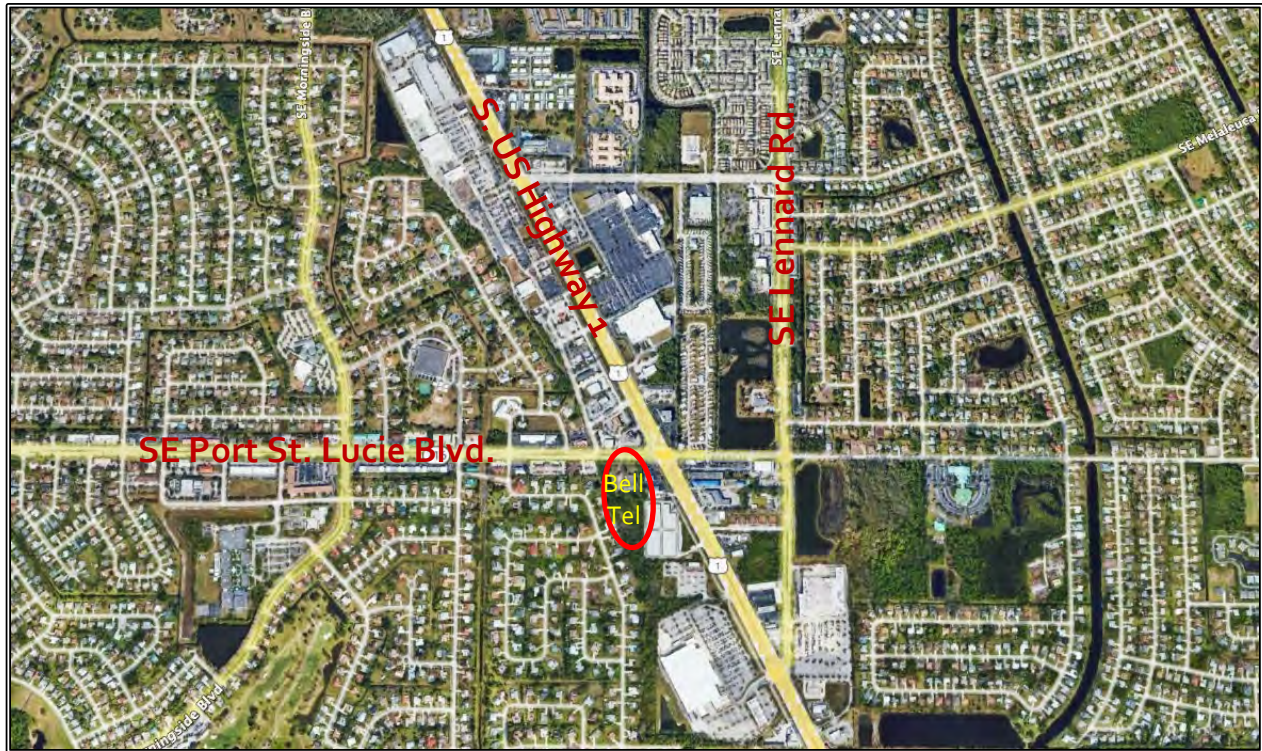
**Table 4.4
Becker Road ACES Mobility Hub Components**

Aces Mobility Hub Type	SIS Central
City	Port St. Lucie
Setting	Suburban new community development: residential, neighborhood commercial, employment center, regional business center
Primary Transportation Mode	Automobile: private EV, shared EV
SIS Links & Evacuation Network	I-95
Transit	St. Lucie County Area Regional Transit Route 5
Demand Responsive Modes	<ul style="list-style-type: none"> shared micro-mobility: ART On-Demand extension of Tradition In Motion(TIM) autonomous micro transit
Site	in the "business center" area or "mixed-use" area of the Southern Grove DRI along Village Parkway or Becker Road, developed via P3 agreement
Design Concept	horizontal or mixed-use vertical development with transit transfer, micro-mobility, parking, and EV charging on single site
On-Site Mobility Amenities	<ul style="list-style-type: none"> public parking public pull-in EV charging spaces pull-through Level 3 DC fast chargers shared EV service spaces – membership short-term rentals shared ride pickup and drop-off zone shared ride priority EV DC fast charger pull-in spaces public bicycle racks shared use bicycle, E-bike shared-use scooter docks / pods
On-Site Information and Connectivity Amenities	<ul style="list-style-type: none"> large information kiosks in high pedestrian traffic areas real-time schedule information wi-fi / smartphone real-time information and wayfinding parking coordination for space and EV charger availability public information messaging for safety and other concerns
On-Site Amenities	<ul style="list-style-type: none"> pedestrian connected waiting areas waiting areas and lounges with information & infotainment package delivery lockers to reduce home delivery trips retail and eateries with occupancy times that synchronize to EV charging time community service retail for daily needs of intermodal commuters signage for identity / branding
Off-Site Support Infrastructure and Active Uses	<ul style="list-style-type: none"> existing pedestrian network existing bicycle network plan pedestrian protected and enhanced pedestrian crossings mixed-use including retail, office employment, and residential uses within a 5 to 10-minute demand-responsive-transit and micro-mobility coverage area

Table 4.5
Okeechobee Road & I-95 ACES Mobility Hub Components

Aces Mobility Hub Type	SIS Central
City	Fort Pierce (Fort Pierce South)
Setting	exurban corridor within 1-mile driveshed of I-95 and Florida’s Turnpike
Primary Transportation Mode	State Intermodal System
SIS Links	I-95, Florida’s Turnpike, Okeechobee Road (SR 70), Kings Hwy (SR 713)
Transit	<ul style="list-style-type: none"> • St. Lucie County Area Regional Transit Route 3 • Express bus route along Okeechobee Road to downtown Ft. Pierce, Lawnwood Hospital (employment center), and the Indian River State College, Massey Campus.
Demand Responsive Modes	micro transit coordinated with or instead of express route along Okeechobee Road
Site	potential sites in vacant land and underutilized commercial development
Design Concept	horizontal development with transit transfer, parking and EV charging on site. Limited retail amenities and transit connection to suburban corridor and downtown Fort Pierce
On-Site Mobility Amenities	<ul style="list-style-type: none"> • public parking • public pull-in EV charging spaces • pull-through Level 3 DC fast chargers • conventional fueling (gasoline, ethanol, diesel) • shared EV service spaces – membership short-term rentals • shared ride pickup and drop-off zone • shared ride priority EV DC fast charger pull-in spaces
On-Site Information and Connectivity Amenities	<ul style="list-style-type: none"> • large information kiosks in high pedestrian traffic areas • real-time schedule information • wi-fi / smartphone real-time information and wayfinding • parking coordination for space and EV charger availability • public information messaging for safety and other concerns
On-Site Amenities	<ul style="list-style-type: none"> • pedestrian connected waiting area internal to site • pedestrian connections to existing and planned sidewalks • waiting areas and lounges with information & infotainment • limited snack take-away food and beverage services • signage for identity / branding
Off-Site Support Infrastructure and Active Uses	<ul style="list-style-type: none"> • shopping along Okeechobee Road Corridor east toward downtown Ft. Pierce to be accessed by transit connection (Walmart) • employment centers (Lawnwood Hospital) along the Okeechobee Road Corridor east toward downtown Ft. Pierce. • Indian River State College, Massey Campus • mixed-use development including retail, office employment centers, hotels, and future residential uses in downtown Ft. Pierce to be accessed by transit connection

4.4 US-1 & Port St. Lucie Boulevard ACES Mobility Hub Concept



Aerial view of the US-1 & SE Port St. Lucie Boulevard Central ACES Mobility Hub area

At the crossroads of US-1 and SE Port St. Lucie Boulevard is the retail and commercial Major Activity Center (MAC) Port Saint Lucie. It is suburban, with commercial development along the major corridors and mostly built-out single-family and low density multi-family development behind the commercial corridors. For the existing context of the area, the southwest site is relatively underutilized from the perspective of community functionality, occupied by single-story mini-storage and a Southern Bell Telephone and Telegraph facility (non-retail) with 3 to 4 acres of underutilized vacant land behind it, and could potentially be a good site for an ACES Mobility Hub located on one of the four corners of the major intersecting roads. The area is located at the intersection of two of the major cardinal direction roads in Port St. Lucie and being the location of a Retail Major Activity Center serving the large residential communities of Lyngate, Sand Hill Crossing, and Morningside. It is the Priority 4 location for an ACES Mobility Hub in the County. The focus of this ACES Mobility Hub is to serve surrounding communities and support the large amount of commerce and employment with multimodal ACES transportation alternatives.



Conceptual Suburban Mobility Hub with High Amenity Level at Bend, Oregon

Table 4.6
US-1 & SE Port St. Lucie Boulevard ACES Mobility Hub Components

Aces Mobility Hub Type	Central
City	Port St. Lucie
Setting	Suburban Major Retail Activity Center
Primary Transportation Mode	Automobile: private EV, shared EV
SIS Links	not applicable
Transit	St. Lucie County Area Regional Transit Routes 1 and 4
Demand Responsive Modes	<ul style="list-style-type: none"> • micro transit • shared micro-mobility
Site	among four sites at crossroads of US-1 and SE Port St. Lucie Boulevard, with initial preference for feasibility analysis at the southwest corner
Design Concept	horizontal development with transit transfer, micro-mobility, parking and EV charging on single site or shared with other sites that are interconnected with protected pedestrian paths and crossings
On-Site Mobility Amenities	<ul style="list-style-type: none"> • public parking • public pull-in EV charging spaces • shared EV service spaces – membership short-term rentals • shared ride pickup and drop-off zone • shared ride priority EV DC fast charger pull-in spaces • public bicycle racks • shared use bicycle, E-bike • shared-use scooter docks / pods
On-Site Information and Connectivity Amenities	<ul style="list-style-type: none"> • large information kiosks in high pedestrian traffic areas • real-time schedule information • wi-fi / smartphone real-time information and wayfinding • parking coordination for space and EV charger availability • public information messaging for safety and other concerns
On-Site Amenities	<ul style="list-style-type: none"> • pedestrian connected waiting areas • waiting areas and lounges with information & infotainment • package delivery lockers to reduce home delivery trips • retail and eateries with occupancy times that synchronize to EV charging time • community service retail for daily needs of intermodal commuters • signage for identity / branding
Off-Site Support Infrastructure and Active Uses	<ul style="list-style-type: none"> • existing pedestrian network • plan pedestrian protected and enhanced pedestrian crossing at the intersection of US-1 and SE Port St. Lucie Boulevard • complete bicycle network (planned) • mixed-use horizontal development including retail, office employment, and residential uses within a 5 to 10-minute demand-responsive-transit and micro-mobility coverage area

5 Implementation

Each Mobility Hub presents unique opportunities and challenges based on its context and transportation functions. A variety of partnerships, including public-private partnerships, will be identified to facilitate implementation of the prioritized list of Mobility Hubs mapped below, and listed in Table 5.1.

Map 5.1
ACES Mobility Hubs Concept Prioritized Hubs

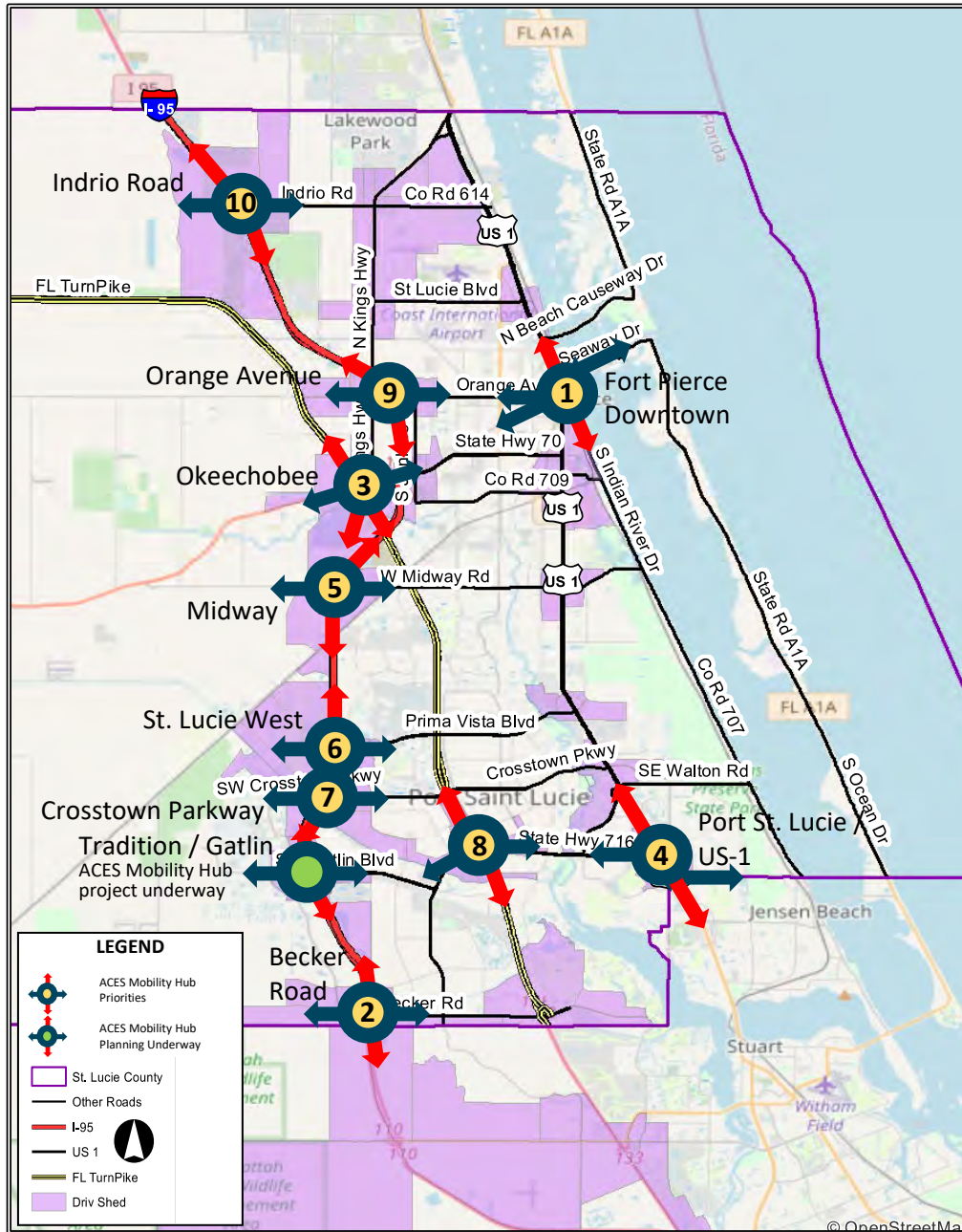


Table 5.1
ACES Mobility Hub Typologies for the Ten Opportunity Areas

Place	Mobility Centroid	Priority	Mobility Hub Typology
Fort Pierce Downtown	Orange Avenue & FEC Railroad	1	Regional
Becker Road	I-95 Interchange & Becker Road	2	SIS Central
Okeechobee Road	Okeechobee Road: I-95 to Fort Pierce West	3	SIS Central
US-1 & Port St. Lucie Blvd	US-1 & SE Port St. Lucie Boulevard	4	Central
Midway Road	I-95 Interchange & Midway Road	5	SIS Central
St. Lucie West	I-95 Interchange & St. Lucie West Boulevard	6	SIS Central
Crosstown Parkway	I-95 Interchange and Crosstown Parkway	7	SIS Central
Port St. Lucie Boulevard & Airoso Boulevard	Port St. Lucie Boulevard & Florida's Turnpike / Airoso Boulevard	8	SIS Central
Orange Avenue	I-95 Interchange and Orange Avenue	9	SIS Central
Indrio Road Planned Development	I-95 Interchange & Indrio Road	10	SIS Central

As shown in the table above, there are three categories of Mobility Hub implementation strategies:

Regional ACES Mobility Hubs - the largest scale station areas in either dense urban areas or end of line stations where they connect to other regional transit providers.

Central ACES Mobility Hubs - typically located in a more suburban context, often at a retail major activity center (MAC) and at the crossroads of two major mobility facilities.

SIS Central ACES Mobility Hubs - a special type of Central Mobility Hub that focuses on providing a resting and recharging location for enroute travelers on the State Intermodal System (SIS) located near interchanges along I-95 or Florida's Turnpike.

Each Mobility Hub will be analyzed in detail for the availability of suitable property acquisition. Priority will be given to publicly owned vacant land or publicly owned underdeveloped properties. Public land facilitates implementation by controlling land acquisition costs and possibly streamlining planning and permitting. The next property acquisition priority would be privately owned vacant or underdeveloped properties. An example would be a shopping mall with a large outparcel available for sale.

Opportunities will be sought to pair Mobility Hubs with large-scale, mixed-use development projects. For instance, the TPO is currently working with the City of Fort Pierce to prepare an initial site plan and conceptual design for a future passenger rail station in downtown Fort Pierce. The #1 priority Fort Pierce Downtown Mobility Hub will be integrated into this planning process.

The colocation of Mobility Hubs with major roadway improvements by FDOT and Florida's Turnpike Enterprise will be explored. When either agency reconfigures a highway interchange the possibility of using surplus land within the interchange right-of-way could be considered as a Mobility Hub location.

To facilitate funding of Mobility Hubs, the projects will be analyzed for inclusion in the TPO's List of Priority Projects (LOPP). The LOPP is a short-term ranking process that is completed annually. After completion, the LOPP is submitted to the Florida Department of Transportation District 4 (FDOT). The projects identified in the LOPP subsequently are funded and included in the FDOT Work Program to the maximum extent feasible. The St. Lucie TPO's Transportation Improvement Program (TIP) is then developed based on the LOPP and the FDOT Work Program. The TIP is the document that includes all the transportation improvement projects within the TPO's boundaries.



AGENDA ITEM SUMMARY

Board/Committee:	St. Lucie TPO Board
Meeting Date:	September 6, 2023
Item Number:	9d
Item Title:	2024 Legislative Priorities
Item Origination:	Unified Planning Work Program (UPWP)
UPWP Reference:	Task 1.1 – Program Management
Requested Action:	Adopt the proposed priorities, adopt with conditions, or do not adopt.
Staff Recommendation:	Based on the recommendations of the TPO Advisory Committees and the consistency of the priorities with the TIP and the Goals and Objectives of the SmartMoves 2045 LRTP, it is recommended that the proposed 2024 Legislative Priorities be adopted.

Attachments

- Staff Report
- Draft 2024 Legislative Priorities



Coco Vista Centre
 466 SW Port St. Lucie Blvd, Suite 111
 Port St. Lucie, Florida 34953
 772-462-1593 www.stlucietpo.org

MEMORANDUM

TO: St. Lucie TPO Board

FROM: Peter Buchwald
 Executive Director

DATE: August 29, 2023

SUBJECT: 2024 Legislative Priorities

BACKGROUND

Task 1.1, *Program Management*, of the FY 2022/23 - FY 2023/24 Unified Planning Work Program (UPWP) of the St. Lucie TPO includes the annual adoption of legislative priorities for the TPO. The proposed 2024 Legislative Priorities (attached) have been developed for review and consideration by the TPO Board.

ANALYSIS

As part of the development of the 2024 Legislative Priorities, the adopted 2023 Legislative Priorities were reevaluated and updated based on the results of the 2023 Florida Legislative Session. The proposed 2024 Legislative Priorities were further developed with consideration of the legislative priorities of other transportation organizations, such as Florida's Pedestrian and Bicycle Safety Coalition (FPBSC) and the Florida Bicycle Association (FBA).

The proposed priorities then were evaluated for consistency with the TPO's priorities established in the Transportation Improvement Program (TIP) and the SmartMoves 2045 Long Range Transportation Plan (LRTP) to which the TPO's TIP/LRTP System Performance Report is linked.

The proposed 2024 Legislative Priorities for the TPO are attached and consist of the following:

- Ø Hands-Free Florida: Would prohibit the handheld use of electronic wireless devices by a driver for any purpose. Almost one half of all the

states already have enacted legislation that prohibits drivers' cell phones or other electronic devices to be in their hands while they drive. This is a proposed FBPSC and FBA priority.

- Ø Moving Florida Forward Forever: Would develop a future replacement for the diminishing and unsustainable State fuel tax revenue by implementing a mileage-based user fee. Until the mileage-based user fee is implemented, alternative-fueled vehicles would be assessed an electric vehicle registration fee equal to the fuel tax paid by gasoline or diesel fueled vehicles. This would assist the local governments in restoring the declining future revenues due to local fuel taxes that are diminishing because of increased fuel efficiencies of newer vehicles and the use of electric and alternative-fueled vehicles.
- Ø Move Over For People: Would protect vulnerable road users, such as pedestrians, bicyclists, and disabled individuals using mobility devices, by expanding the current Move Over Law. The requirements would include vacating the lane being used by or next to the vulnerable road user similar to the requirements for overtaking an emergency vehicle or tow truck and operator on the side of the road. This is a proposed FBPSC and FBA priority.

Based on a review for consistency, the proposed 2024 Legislative Priorities appear to be consistent with the TIP and the SmartMoves 2045 LRTP Goals and Objectives.

At their meetings during the week of August 21st, the TPO Advisory Committees recommended the adoption of the proposed 2024 Legislative Priorities.

RECOMMENDATION

Based on the recommendations of the TPO Advisory Committees and the consistency of the priorities with the TIP and the Goals and Objectives of the SmartMoves 2045 LRTP, it is recommended that the proposed 2024 Legislative Priorities be adopted.



2024 LEGISLATIVE PRIORITIES (Adopted: _____)

The St. Lucie Transportation Planning Organization (TPO) supports legislation that:

- Ø Results in a Hands-Free Florida Act, in support of Vision Zero/Target Zero efforts, that prohibits drivers' cell phones or other electronic devices to be in their hands while they drive.
- Ø Keeps Moving Florida Forward Forever by developing a future replacement for the diminishing and unsustainable State fuel tax revenue such as:
 - Implementing a mileage-based user fee.
 - Assessing alternative-fueled vehicles an electric vehicle registration fee equal to the fuel tax paid by gasoline or diesel-fueled vehicles until the mileage-based user fee is implemented.
- Ø Expands the current Move Over Law to include people and protect vulnerable road users such as pedestrians, bicyclists, and disabled individuals using mobility devices.

Note: Background information on the 2024 Legislative Priorities is provided on the back of this page.

Background Information

Hands-Free Florida: In 2019, the “Wireless Communications While Driving” law was enacted that makes texting while driving a primary offense. Despite the enactment of this law, crashes due to distracted driving continue to increase at an alarming rate, and the law is deemed unenforceable by numerous law enforcement agencies. This legislative priority would increase roadway safety, support law enforcement, and reduce the potential for racial profiling by prohibiting the handheld use of electronic wireless devices by a driver for any purpose. Almost one half of all the states already have enacted legislation that prohibits drivers’ cell phones or other electronic devices to be in their hands while they drive.

Moving Florida Forward Forever: As part of the 2023 Session, the Florida Legislature approved Governor Ron DeSantis’ Moving Florida Forward initiative which prioritizes \$4 billion of short-term funding towards the State’s transportation infrastructure. However, beyond the short-term, future transportation funding is in jeopardy. The Florida Transportation Plan Implementation Element (FTP), July 2022, identifies that the “increases in fuel efficiency, growing use of electric and other alternative fuel vehicles, and shifts from driving to other modes mean less revenue from the motor fuel tax, which is the primary source of transportation funding at the state and federal levels”. This loss in revenue has been estimated to be up to 20 percent by 2040. Meanwhile, the costs of construction continue to increase. Therefore, the FTP recommends expanding the use of “user fees” to prepare for “the anticipated decline in the value of the motor fuel tax”. To address the ever-widening gap between the rising cost of needed transportation infrastructure and diminishing and unsustainable revenue sources such as the traditional fuel tax, this legislative priority proposes recommendations to keep Moving Florida Forward toward a replacement funding source for the State fuel tax.

Move Over For People: Florida consistently ranks as one of the worst states for pedestrian fatalities and fatality rates. Current Florida law protecting vulnerable road users is limited to a three-foot passing requirement for motorists approaching bicyclists which is deemed unenforceable by numerous law enforcement agencies. Therefore, this legislative priority seeks to include requirements in the Move Over Law (Florida Statute 316.126) for motorists overtaking vulnerable road users, such as pedestrians, bicyclists, and disabled individuals using mobility devices. The requirements would include vacating the lane being used by or next to the vulnerable road user similar to the requirements for overtaking an emergency vehicle or tow truck and operator on the side of the road.



AGENDA ITEM SUMMARY

Board/Committee:	St. Lucie TPO Board
Meeting Date:	September 6, 2023
Item Number:	9e
Item Title:	Advanced Air Mobility (AAM) Study Phase 2 Scope of Services
Item Origination:	UPWP
UPWP Reference:	Task 3.6- Freight Planning
Requested Action:	Approve the draft Scope of Services, approve with conditions, or do not approve.
Staff Recommendation:	Based on the recommendations of the TPO Advisory Committees and because the proposed AAM Study Phase 2 Scope of Services is consistent with the FY 2022/23 – FY 2023/24 UPWP, it is recommended that the draft Scope of Services be approved.

Attachments

- Staff Report
- Draft AAM Study Phase 2 Scope of Services



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 772-462-1593 www.stlucietpo.org

MEMORANDUM

TO: St. Lucie TPO Board

THROUGH: Peter Buchwald
Executive Director

FROM: Yi Ding
Transportation Systems Manager

DATE: August 29, 2023

SUBJECT: Advanced Air Mobility (AAM) Study Phase 2 Scope of Services

BACKGROUND

The emerging AAM technology is outpacing the development of the regulatory framework. Currently, there is limited AAM-related guidance at the Federal, State, and local levels. In 2022, the St. Lucie TPO retained Kimley-Horn to conduct a Drone Port/AAM Study Phase 1 which provided a preliminary review of the AAM industry and recommended potential opportunities for the TPO to integrate AAM into the future planning activities.

To continue the effort, the AAM Study Phase 2 was included in Task 3.6, *Freight Planning*, of the FY 2022/23 – FY 2023/24 Unified Planning Work Program (UPWP). The attached Scope of Services for the AAM Study Phase 2 has been prepared for review and approval.

ANALYSIS

The draft Scope of Services consists of an AAM demand analysis, use cases evaluation, and airspace and infrastructure visualization and modeling. As part of the Scope of Services, census and other available data will be collected and evaluated to identify a minimum of three (3) suitable destination locations within the TPO area for vertiports/drone ports. Further evaluation will be performed on the Treasure Coast International Airport property to identify potential origin locations for vertiport and related development. A 3D

visualization of the AAM operation will be developed to simulate the AAM integration. Along with the visualization component, basic metrics generated by the simulation will provide how a new AAM system or design may benefit/impact the current transportation network in the TPO area.

The attached Scope of Services will be completed by Kimley-Horn who completed Phase I of the Study and is one of the TPO's General Planning Consultants. The Study will be completed by June 2024 at a cost of \$99,859 which is consistent with the UPWP.

At their meetings during the week of August 21st, the TPO Advisory Committees recommended the approval of the proposed AAM Study Phase 2 Scope of Services.

RECOMMENDATION

Based on the recommendations of the TPO Advisory Committees and because the proposed AAM Study Phase 2 Scope of Services is consistent with the FY 2022/23 – FY 2023/24 UPWP, it is recommended that the draft Scope of Services be approved.

St. Lucie Transportation Planning Organization (TPO)

General Transportation Planning Consultant Services

Advanced Air Mobility Study Phase II– Demand Analysis and Airspace Modeling

PROJECT UNDERSTANDING:

Background

Advanced Air Mobility (AAM) is an air transportation system that moves people and cargo between local, regional, intraregional, and urban places previously served or underserved by aviation. At a mature state, AAM will integrate revolutionary aircraft including Electrical Vertical Take-Off and Landing (eVTOL) aircraft, Short Take-Off and Landing (STOL) aircraft, Unmanned Aircraft Systems (UAS), or drones, fixed-wing aircraft, and helicopters into highly automated networks. The new AAM technology is outpacing the development of the regulatory framework. Currently, there is limited AAM-related guidance at the federal, state, and local levels. As such, the St. Lucie Transportation Planning Organization (TPO) is independently seeking to learn more about this emerging industry and explore the possible integration of AAM into the region.

The TPO has undertaken an initiative as part of its FY 2022/23 Unified Planned Work Program (UPWP) to gain a deeper understanding of the emerging industry. This effort has resulted in the creation of a work product entitled *Drone Port/Advanced Air Mobility Preliminary Review*. Within this document, the report provides recommendations and outlines potential opportunities for TPO to support the integration of AAM in the TPO area. The following scope outlines the short-term opportunities included as part of the roadmap to AAM integration.

Purpose

The purpose of these services is to perform a short-term evaluation identified in the roadmap. This evaluation will involve a series of sequential steps, including identifying the demand, evaluating use cases, and visualizing the potential benefits and possible negative impacts of AAM integration through visualizing the potential use cases operating in the TPO area.

Task 1 – Demand Analysis of St. Lucie TPO Area to Identify Most Suitable Use Cases

Kimley-Horn (the “Consultant”) will conduct an evaluation of local consumer demand for each use case by analyzing the census and other available data to recommend suitable use cases for the TPO area. This evaluation will analyze the Concept of Operations of AAM and Long-Range Transportation Plan’s goals to establish distinctive input variables to provide a result that is current and relevant to the TPO’s objective. The consultant will further evaluate the potential sites for vertiport/droneport within the Treasure Coast International Airport (“FPR” or “the Airport”) property. These sites will serve as origin and destination locations for **Task 2 - Airspace and Infrastructure Modeling/Simulation**.

The duration of Task 1 is estimated at 4-6 months.

1.1 – Inventory of the Existing Data

The consultant will conduct a review of the currently available census data for the TPO area and explore any additional data sources that could be relevant in determining the AAM demand within the region. Below are some examples of data that may be collected for the evaluation:

- Average Commute Time to Work
- Consumer Expenditure on Transportation
- Average Income per Household
- Population Density
- Points of Interest
- Land Use and Zoning
- Future development or transportation plans identified in the Long-Range Transportation Plan (LRTP)

1.2 – Evaluation of the Data

The consultant will assess the collected data, define variables, establish priorities, and assign weights to each variable for running the data simulation analysis. The objective is to identify a minimum of three (3) destination locations within the TPO area that exhibit the demand for AAM services. These identified locations will serve as a potential destination point and a suitable location for a vertiport/droneport.

1.3 – Preliminary Site Review

The consultant will perform a desktop analysis of the Airport property as part of a vertiport preliminary site review. The analyses listed below will be performed as part of this task, and one (1) potential vertiport location on Airport property will be identified as a result of these analyses.

- 1. Integration into airspace/airport operations:** Perform cursory airspace analysis to identify clearance requirements and potential obstructions (e.g., buildings, towers, vegetation) to future vertiport imaginary surfaces, including obstacle clearance surfaces and Part 77 surfaces. This analysis will utilize obstacle data provided by the Airport, if applicable, the Airport's most recent FAA-approved airport layout plan (ALP), data from the FAA's Obstruction Evaluation / Airport Airspace Analysis (OE/AAA) database, and/or the Consultant's knowledge of the project area. As part of this analysis, the vertiport approach, departure, and transitional surfaces, as published in EB 105 and 14 CFR Part 77, respectfully, will be evaluated to determine eVTOL ingress/egress clearance requirements, potential obstructions, and include a review of the Airport's approach and departure procedures, traffic flow, and the surrounding airspace.
- 2. FAA separation standards:** Review FAA separation standards for aircraft operations, utilizing guidance published in EB 105, FAA Advisory Circular (AC) 150/5300-13B - Airport Design, and FAA Order JO 7110.65 - Consolidated Wake Turbulence.
- 3. Potential for future vertiport infrastructure and expansion possibilities:** Review Airport property to identify one (1) area that may be used for future vertiport and related development.

1.4 – Technical Memorandum of the Findings

The Consultant will develop a technical memorandum to document the findings. The technical memorandum will include:

1. Project understanding
2. Inventory of the data
3. Definition and weight of the variables
4. Descriptions and results of analyses
5. Identification of the use cases and demand regions
6. Preliminary Site Investigation on Airport property
7. Summary of findings

A draft technical memorandum will be submitted to the Client electronically in PDF format for review and comment and the consultant will prepare a presentation deck to summarize the content of the draft technical memorandum to serve as a visual aid for a virtual Client briefing meeting. This meeting will be used to obtain Client feedback on the study's findings and recommendations and discuss the next steps. Based on the Client's comments and feedback from the virtual briefing meeting, the Consultant will complete up to one (1) round of revisions to the technical memorandum.

Deliverable: Technical Memorandum and a summary presentation deck

Task 2 – Airspace and Infrastructure Modeling/Simulation

The Consultant will develop 3D visualization of the AAM operation in the region. It's important to note that this material will be preliminary and offer visualization to explore the possibilities of AAM integration. Along with the visualization component, basic metrics generated by the simulation will offer a context regarding how a new system or design may benefit/impact the current transportation network in the TPO area.

The duration of Task 2 is estimated at 2-3 months.

2.1 – Airspace and Infrastructure Visualization and Modeling

The consultant will develop 3D airspace models with dedicated AAM routes so that when the AAM vehicles are ultimately certified by the FAA, users will already have vetted airspace integration concepts. TPO will evaluate the airspace in the TPO area with the objective to understand the required infrastructure to support cargo and/or passenger AAM operations within the community. The findings of the evaluation will be documented and summarized in a technical memorandum that includes:

- Identification of airspace constraints in the TPO area
- Opportunities to integrate last-mile delivery in support of industrial development in the area
- Development a conceptual flight corridor network to support AAM

- Development of a simulation model to perform trade-off studies that identify the most feasible airspace corridors, considering traffic, public safety, etc.

2.2 – Technical Memorandum of the Findings

The Consultant will develop a technical memorandum to document the findings. The technical memorandum will include:

1. Project understanding
2. Airspace and Infrastructure Visualization
3. Descriptions and results of analyses
4. Summary of findings and recommend next steps

A draft technical memorandum will be submitted to the Client electronically in PDF format for review and comment. The consultant will prepare a presentation deck to summarize the content of the draft technical memorandum to serve as a visual aid for a virtual Client briefing meeting. This meeting will be used to obtain Client feedback on the study's findings and recommendations and discuss the next steps. Based on the Client's comments and feedback from the virtual briefing meeting, the Consultant will complete up to one (1) round of revisions to the technical memorandum.

Deliverable: Technical Memorandum and visualization material

Task 3: Stakeholder Support and Advisory Services

Kimley-Horn (the “Consultant”) will conduct up to six (6) virtual meetings with regional partners as follows:

1. St. Lucie TPO
2. City of Fort Pierce
3. City of Port St. Lucie
4. Treasure Coast Intl Airport and Business Park
5. FDOT
6. FAA

The purpose of these meetings is for TPO to coordinate activities with stakeholders as the AAM concept evolves. This includes planning, updates, and recommendations that are required with local, state, and federal transportation agencies.

Kimley-Horn will also attend the TAC, CAC, BPAC and Board meetings in-person to present the study

Schedule

We will provide our services as expeditiously as practicable with the goal of meeting the following schedule:

- Deliverables will be submitted within 8 months of written Notice to Proceed.

Fee

Kimley-Horn will perform the services in Tasks 1 - 3 for the total lump sum fee below. Individual task amounts are informational only.

Task Name		Total
Task 1	Demand Analysis of St. Lucie TPO Area to Identify Most Suitable Use Cases	\$64,823.00
Task 2	Airspace and Infrastructure Modeling/Simulation	\$19,961.00
Task 3	Stakeholder Support and Advisory Services	\$15,075.00
TOTAL FEE		\$99,859.00



AGENDA ITEM SUMMARY

Board/Committee:	St. Lucie TPO Board
Meeting Date:	September 6, 2023
Item Number:	9f
Item Title:	Congestion Management Process (CMP) Major Update Scope of Services
Item Origination:	Unified Planning Work Program (UPWP)
UPWP Reference:	Task 3.4 – CMP
Requested Action:	Approve the draft Scope of Services, approve with conditions, or do not approve.
Staff Recommendation:	Based on the recommendations of the TPO Advisory Committees and because the draft CMP Major Update Scope of Services is consistent with the FY 2022/23 – FY 2023/24 UPWP, it is recommended that the draft Scope of Services be approved.

Attachments

- Staff Report
- Draft CMP Major Update Scope of Services



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MEMORANDUM

TO: St. Lucie TPO Board

THROUGH: Peter Buchwald
 Executive Director

FROM: Yi Ding
 Transportation Systems Manager

DATE: August 29, 2023

SUBJECT: Congestion Management Process (CMP) Major Update
 Scope of Services

BACKGROUND

The Congestion Management Process (CMP) is described by the Federal Highway Administration (FHWA) as a systematic and regionally-accepted approach for managing congestion. It provides accurate, up-to-date information on transportation system performance and assesses alternative strategies for congestion management that meet State and local needs. Federal regulations require Metropolitan Planning Organizations (MPOs) with a population over 200,000 to establish a process for managing congestion.

The St. Lucie TPO's CMP has been utilized to allocate the TPO's CMP box funds of \$300,000- \$400,000 annually towards CMP projects in the TPO's List of Priority Projects (LOPP). The last major update of the CMP was completed in June 2018, and the need to prepare a major update of the CMP was established in the FY 2022/23 – FY 2023/24 Unified Planning Work Program (UPWP) in Task 3.4, *Congestion Management Process (CMP)*.

ANALYSIS

The UPWP identifies the need for consultant assistance in the preparation of the CMP Major Update. The attached Scope of Services for the CMP Major Update was prepared by Benesch, one of the TPO's General Planning Consultants.

The CMP Major Update will update the CMP procedures and performance measures; update the toolbox of strategies to reduce congestion, improve safety, and/or provide mobility options; and prioritize and recommend projects for TPO plans and programs. Below are the tasks that are included in the Scope of Services:

- Goals and Objectives
- Define Network and Identify Available CMP Data
- Identify Performance Measures
- Evaluate System Performance and Prioritize Segments
- Identify Strategies and Prioritize Improvements

In order to effectively identify areas of congestion that are concerns of the community, coordination among St. Lucie County, the City of Fort Pierce, the City of Port St. Lucie, and the Florida Department of Transportation District 4 Traffic Operations and Safety Offices will be conducted to obtain input and identify additional CMP projects.

The Update will be completed by June 2024 at a cost of \$79,962 which is consistent with the UPWP.

At their meetings during the week of August 21st, the TPO Advisory Committees recommended the approval of the proposed CMP Major Update Scope of Services.

RECOMMENDATION

Based on the recommendations of the TPO Advisory Committees and because the draft CMP Major Update Scope of Services is consistent with the FY 2022/23 – FY 2023/24 UPWP, it is recommended that the draft Scope of Services be approved.

St. Lucie Transportation Planning Organization (TPO)

General Transportation Planning Consultant Services

Scope of Services

Congestion Management Process (CMP) Major Update

PURPOSE

The purpose of this scope is to complete the congestion management process (CMP) Major Update and prepare the CMP Major Update report for the St. Lucie TPO (TPO) which complies with all state and federal requirements and is consistent with all current state and federal guidance.

Background

Through the years, federal transportation legislation has emphasized the congestion-related management process requirement, known as the CMP. The TPO has regularly completed minor and major updates of the CMP to meet this requirement and identify and evaluate alternatives to traditional major capacity improvements. This major update will review/update the CMP procedures document and performance measures; review/update toolbox of strategies for consideration to reduce congestion, address safety issues, and/or provide mobility options; and prioritize and recommend projects for TPO plans and programs.

The CMP has evolved in providing technological and multimodal solutions to traffic congestion and safety. Therefore, the system evaluation will consider modal options where the presence and applicability of walking, biking, and public transit can relieve congestion and safety issues and technological options that more cost-effectively address congestion and safety issues.

As with all TPO programs, coordination with local partners and stakeholders will be an important part of the CMP Major Update. For this project, coordination with implementing agencies including St. Lucie County, the City of Fort Pierce, the City of Port St. Lucie, and the Florida Department of Transportation (FDOT) District 4 Traffic Operations and Safety Offices will be important in identifying congestion and safety issues and implementable project solutions.

The tasks outlined below will be completed for the CMP Major Update for the TPO.

Task 1: Goals and Objectives

Goals and objectives which are consistent with the current adopted 2045 Long Range Transportation Plan (LRTP) and other TPO products and programs, including the St. Lucie Advanced Transportation System (ATMS) Master Plan and the Treasure Coast Transportation Systems Management & Operations (TSM&O) Master Plan, will be developed specifically for the CMP. The objectives will ensure that the CMP addresses the operation and management needs of the transportation system.

Deliverable: CMP Goals and Objectives

Task 2: Define Network and Identify Available CMP Data

This task includes identifying the facilities that will comprise the CMP network that will be analyzed as part of the CMP Major Update. This will include roadways and multimodal infrastructure, including bicycle and pedestrian facilities. The network also includes the existing transit system and the current and proposed St. Lucie ATMS and Treasure Coast TSM&O Networks within the metropolitan planning area.

A CMP requires a regular update and evaluation of network performance. Therefore, it is important to identify performance measures with readily available data that can be collected by the TPO and is updated on a regular basis. The TPO and Benesch will identify existing transportation databases maintained by local and state agencies that could be utilized for the CMP.

Deliverable: Map of CMP Network and Selection of CMP Data

Task 3: Performance Measures

Based upon the readily-available data that can be collected by the TPO, performance measures will be identified for each of the transportation modes to measure congestion, safety, and efficiency. These performance measures will support the CMP goals. For consistency with state and federal guidelines and compliance with state and federal requirements, the performance measures of the current TPO CMP, as well as performance measures of CMPs of other select TPOs, will be reviewed.

Deliverable: Performance Measures

Task 4: Evaluate System Performance and Prioritize Segments

An evaluation of current system performance using the identified performance measures will be completed to establish a baseline for comparison as part of the regular update and evaluation of network performance. Congestion, safety, and other system issues will be identified, located on the network, and quantified. The analysis will result in a ranked list of roadway segments based on the specific performance measures developed.

Segment prioritization criteria will be developed and applied to rank identified problem segments of the transportation system. Strategies will be identified to address the transportation issues of the highest ranked segments.

Deliverable: Technical Memorandum Summarizing the Evaluation of System Performance and Prioritization of Segments of Concern

Task 5: Identify Strategies and Prioritize Improvements

Strategies will be identified to address the system performance issues identified in the segments ranked in the previous tasks. This will result in a wide range of specific recommendations which are facility and modally specific.

Strategies will consider both supply (capacity) strategies, including ATMS and TSM&O strategies such as

Cloud-Based Arterial Management, and demand (Transportation Demand Management) strategies. This will result in a recommended strategy for each of the highest-ranked segments or locations of major concern.

CMP projects that implement the strategies will be identified and prioritized according to a methodology developed as part of the CMP Major Update. Estimated costs, potential funding sources and action items will be developed for each CMP project.

Deliverable: CMP Strategies and Projects Considered for Implementation and Inclusion in TPO Plans and Programs

Task 6: Documentation and Meetings

This task includes the development of the Draft CMP document. The CMP Major Update will include up to six (6) stakeholder virtual meetings with local government staff from St. Lucie County, the City of Fort Pierce, and the City of Port St. Lucie and with staff from FDOT District 4 Traffic Operations and Safety Offices.

The Draft CMP document will be submitted and presented in-person to the TPO's Technical Advisory Committee (TAC), Citizens Advisory Committee (CAC), and Bicycle Pedestrian Advisory Committee (BPAC) for review.

Upon receipt of review comments on the draft document, edits will be considered in the development of the final draft CMP document. A final draft will be presented in-person to the TPO Board and final study documentation will follow.

Deliverable: Draft and Final Report Documentation, Meeting Agendas, and Meeting Summaries

Congestion Management Process (CMP) Major Update

ACTIVITY	Principal-in-Charge \$ 284.00	Project Manager \$ 177.00	Chief Planner \$ 278.00	Senior Planner \$ 146.00	Senior Engineer \$ 253.00	Engineer \$ 133.00	GIS Analyst \$ 93.00	Planner \$ 92.00	Graphics \$ 107.00	Admin/Clerical \$ 89.00	TOTAL HOURS	COST BY ACTIVITY	
Congestion Management Process (CMP) Major Update	16	80	12	80	40	100	80	130	22	12	572	\$ 79,962.00	
Task 1 Goals and Objectives	2	2	2	2	0	0	0	2	2	0	12	\$ 2,168.00	
Task 2 Define Network and Identify Available CMP Data	2	2	0	2	2	0	8	4	0	0	20	\$ 2,832.00	
Task 3 Performance Measures	2	4	0	8	2	8	12	24	0	0	60	\$ 7,338.00	
Task 4 Evaluate System Performance and Prioritize Segments	2	16	2	16	8	16	40	60	0	0	160	\$ 19,684.00	
Task 5 Identify Strategies and Prioritize Improvements	4	20	4	40	16	60	0	16	0	0	160	\$ 25,128.00	
Task 6 Documentation and Meetings	4	36	4	12	12	16	20	24	20	12	160	\$ 22,812.00	
Total Hours:	16	80	12	80	40	100	80	130	22	12	572		
Total Labor:	\$ 4,544	\$14,160	\$ 3,336	\$11,680	\$ 10,120	\$13,300	\$ 7,440	#####	\$ 2,354	\$ 1,068	\$ 79,962	\$ 79,962.00	
Direct Expenses													
	Units	Rate	Total									Total Labor:	\$ 79,962.00
Travel to Port St. Lucie	0	\$0.655	\$0.00									Total Expenses:	\$ -
Prinitng, Copying, Binding	0	\$0	\$0.00									TOTAL COSTS:	\$ 79,962.00
Total	0		\$0.00										



AGENDA ITEM SUMMARY

Board/Committee:	St. Lucie TPO Board
Meeting Date:	September 6, 2023
Item Number:	9g
Item Title:	Decennial Apportionment Review
Item Origination:	Florida Statutes and the Florida Department of Transportation (FDOT)
UPWP Reference:	Task 1.1 – Program Management
Requested Action:	Confirm the current Board apportionment or approve an Apportionment Plan or confirm or approve with conditions.
Staff Recommendation:	It is recommended that the Decennial Apportionment Review is further discussed, and the current Board apportionment is confirmed, or an Apportionment Plan is approved.

Attachments

- Staff Report
- Interlocal Agreement for Creation of the Metropolitan Planning Organization dated September 13, 2006



Coco Vista Centre
 466 SW Port St. Lucie Blvd, Suite 111
 Port St. Lucie, FL 34953
 772-462-1593 www.stlucietpo.org

MEMORANDUM

TO: St. Lucie TPO Board

FROM: Peter Buchwald
 Executive Director

DATE: August 30, 2023

SUBJECT: Decennial Apportionment Review

BACKGROUND

Florida Statute 339.175(4) specifies the following:

"4) APPORTIONMENT.—

(a) Each M.P.O. shall review the composition of its membership in conjunction with the decennial census, as prepared by the United States Department of Commerce, Bureau of the Census, and with the agreement of the Governor and the affected general-purpose local government units that constitute the existing M.P.O., reapportion the membership as necessary to comply with subsection (3)."

Since the 2020 Census was completed and the results were released, the Florida Department of Transportation (FDOT) requested that the Florida Metropolitan Planning Organizations (MPOs) initiate the Decennial Apportionment Review in accordance with the Florida Statutes and confirm the current apportionment and/or provide an Apportionment Plan by November 1st.

At its meeting on June 7th, the TPO Board initially discussed the Decennial Apportionment Review. Staff presented at the meeting that there has been little proportional change among the population sizes of the local jurisdictions between the 2010 Census and the 2020 Census. Staff also summarized the Board discussions that occurred in the past regarding Community Transit's membership on various TPO governing and advisory bodies because of the change in July 2020 in the contracted operator of the County's public transportation system from Community Transit to

MV Transportation. The actions taken by the TPO Board as a result of the discussions were also summarized which included the following:

- Ø Postponement of the consideration of Community Transit membership on the TPO Board until the Decennial Apportionment Review.
- Ø Revision of the TPO By-Laws, Rules, and Procedures to change the transit representation on the Technical Advisory Committee (TAC) from a "Community Transit Representative" to a representative of an "Independent Public Transportation Operator" appointed by the Board.
- Ø Appointment of Community Transit to the TAC as the Independent Public Transportation Operator representative.

After discussion by the Board at the June 7th Meeting, it was noted that several current Board Members were not in attendance, and further discussion was deferred to the next Board Meeting. In addition, it was requested that Staff report on the various potential Board apportionment alternatives to inform future deliberations.

Subsequently, the Executive Committee further discussed the Decennial Apportionment Review at its meeting on July 25th which included the discussion of various Board composition alternatives. After the discussion, the Executive Committee recommended that the apportionment of the TPO Board remain the same and that this consistency is maintained across the organization.

The TPO Board is requested to further discuss the Decennial Apportionment Review and confirm the current Board apportionment or approve an Apportionment Plan.

ANALYSIS

The membership on the TPO Board currently is specified in the attached Interlocal Agreement for Creation of the Metropolitan Planning Organization (Creation Agreement) and is apportioned as follows:

Current Apportionment (12 Members)

- Four (4) St. Lucie County Board of County Commissioners
- Four (4) City of Port St. Lucie Councilmembers
- Two (2) City of Fort Pierce Commissioners
- One (1) St. Lucie County School Board member
- One (1) Community Transit representative

Pursuant to the Board's request of Staff at the June 7th Meeting, the following Board apportionment alternatives that appear to be consistent with Federal requirements (23 CFR 450.310) and Florida Statutes (339.175(3) and (4)) are provided along with the anticipated changes to the Creation Agreement to facilitate the alternatives:

A) Community Transit Withdrawal (11 Members)

- Four (4) St. Lucie County Board of County Commissioners
- Four (4) City of Port St. Lucie Councilmembers
- Two (2) City of Fort Pierce Commissioners
- One (1) St. Lucie County School Board member

Creation Agreement: No changes. Withdrawal of Community Transit by notice and memorandum in accordance with Section 7.03(b).

B) Community Transit and School Board Withdrawal (10 Members)

- Four (4) St. Lucie County Board of County Commissioners
- Four (4) City of Port St. Lucie Councilmembers
- Two (2) City of Fort Pierce Commissioners

Creation Agreement: No changes. Withdrawal of Community Transit and School Board by notices and memorandums in accordance with Section 7.03(b).

C) Addition of MV Transportation (13 Members)

- Four (4) St. Lucie County Board of County Commissioners
- Four (4) City of Port St. Lucie Councilmembers
- Two (2) City of Fort Pierce Commissioners
- One (1) St. Lucie County School Board member
- One (1) Community Transit representative
- One (1) MV Transportation representative

Creation Agreement: Amendment to Agreement or new Agreement.

D) Increase City/County Membership (13 Members)

- Five (5) St. Lucie County Board of County Commissioners
- Five (5) City of Port St. Lucie Councilmembers
- Three (3) City of Fort Pierce Commissioners

Creation Agreement: New Agreement and potential redesignation.

RECOMMENDATION

It is recommended that the Decennial Apportionment Review is further discussed, and the current Board apportionment is confirmed, or an Apportionment Plan is approved.

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
**INTERLOCAL AGREEMENT FOR CREATION OF THE
METROPOLITAN PLANNING ORGANIZATION**

13th

THIS INTERLOCAL AGREEMENT is made and entered into this 1 day of September, 2006, by and between the FLORIDA DEPARTMENT OF TRANSPORTATION; the CITY OF FORT PIERCE; the CITY OF PORT ST. LUCIE; ST. LUCIE COUNTY; the ST. LUCIE COUNTY SCHOOL BOARD; COUNCIL ON AGING OF ST. LUCIE, INC.; and the MARTIN COUNTY METROPOLITAN PLANNING ORGANIZATION.

RECITALS

WHEREAS, the Federal Government, under the authority of 23 U.S.C. Section 134 and 49 U.S.C. Section 5303, requires each metropolitan area, as a condition to the receipt of federal capital or operating assistance, to have a continuing, cooperative, and comprehensive transportation planning process that results in plans and programs consistent with the comprehensively planned development of the metropolitan area, and further requires the State Transportation Agency and the Metropolitan Planning Organization to enter into an Agreement clearly identifying the responsibilities of each party for cooperatively carrying out such transportation planning;

WHEREAS, the parties to this Interlocal Agreement desire to participate cooperatively in the performance, on a continuing basis, of a coordinated, comprehensive transportation planning process to assure that highway facilities, mass transit, rail systems, air transportation and other facilities will be properly located and developed in relation to the overall plan of community development;

WHEREAS, 23 U.S.C. Section 134, as amended by the Intermodal Surface Transportation Efficiency Act of 1991 and the Transportation Equity Act for the Twenty-first Century (Public Law 105-178, 112 Stat. 107), 49 U.S.C. Sections 5303-5307, 23 C.F.R. Section 450.306, and Section 339.175, Florida Statutes, provide for the creation of Metropolitan Planning Organizations to develop transportation plans and programs for metropolitan areas;

WHEREAS, pursuant to 23 U.S.C. Section 34(b), 49 U.S.C. Section 5303, 23 C.F.R. Section 450.306(a), and Section 339.175, Florida Statutes, a determination has been made by the Governor and units of general purpose local government representing at least 75% of the affected population (including the central city or cities) in the metropolitan area to designate a Metropolitan Planning Organization;

WHEREAS, pursuant to Section 339.175(3), Florida Statutes, by letter to The Honorable R. "Duke" Nelson dated April 26, 2004, the Governor has agreed to the new membership apportionment plan of the members of the St. Lucie Metropolitan Planning Organization as set forth in this Agreement;

WHEREAS, pursuant to 23 C.F.R. Section 450.306©), and Section 339.175(1)(b), Florida Statutes, an interlocal agreement must be entered into by the Department and the governmental entities designated by the Governor for membership on the MPO;

WHEREAS, the interlocal agreement is required to create the St. Lucie Metropolitan Planning Organization and delineate the provisions for operation of the MPO following the approval of the redesignation and new membership apportionment plan for the MPO by the Governor;

WHEREAS, the undersigned parties have determined that this Interlocal Agreement satisfies the requirements of and is consistent with Section 339.175(1)(b), Florida Statutes;

WHEREAS, pursuant to Section 339.175(1)(b), Florida Statutes, the interlocal agreement must be consistent with statutory requirements set forth in Section 163.01, Florida Statutes, relating to interlocal agreements; and

WHEREAS, the undersigned parties have determined that this Interlocal Agreement is consistent with the requirements of Section 163.01, Florida Statutes.

NOW, THEREFORE, in consideration of the mutual covenants, promises, and representation herein, the parties desiring to be legally bound, do agree as follows:

ARTICLE 1
RECITALS; DEFINITIONS

Section 1.01. Recitals. Each and all of the foregoing recitals are hereby incorporated herein and acknowledged to be true and correct to the best of the parties' knowledge. Failure of any of the foregoing recitals to be true and correct shall not operate to invalidate this Agreement.

Section 1.02. Definitions. The following words when used in this Agreement (unless the context shall clearly indicate the contrary) shall have the following meanings:

Agreement means and refers to this instrument, as amended from time to time.

Department shall mean and refer to the Florida Department of Transportation, an agency of the State of Florida created pursuant to Section 20.23, Florida Statutes.

FHWA means and refers to the Federal Highway Administration.

FTA means and refers to the Federal Transit Administration.

Long-Range Transportation Plan is the 20-year plan which: identifies transportation facilities; includes a financial plan that demonstrates how the plan can be implemented and assesses capital improvements necessary to preserve the existing metropolitan transportation system and make efficient use of existing transportation facilities, indicates proposed transportation enhancement activities; and in ozone/carbon monoxide nonattainment areas is coordinated with the State Implementation Plan, all as required by 23 U.S.C. Section 134(g), 23 C.F.R. Section 450.322, Section 339.175(6), Florida Statutes.

Metropolitan Area means and refers to the planning area as delineated by the MPO for the urbanized area containing at least a population of 50,000 as described in 23 U.S.C. Section 134(b)(1), 49 U.S.C. Section 5303(1), and Section 339.175, Florida Statutes, which shall be subject to the Metropolitan Planning Organization's planning authority.

MPO means and refers to the Metropolitan Planning Organization formed pursuant to this Agreement.

Transportation Improvement Program (TIP) is the is the staged multi-year program of transportation improvement projects developed by a Metropolitan Planning Organization consistent with the Long-Range Transportation Plan and developed pursuant to title 23 U.S.C. Section 134(h), 49 U.S.C. Section 5304, 23 C.F.R. Section 450.324 and Section 339.175, Florida Statutes.

Unified Planning Work Program (UPWP) is the annual program developed in cooperation with the Department and public transportation providers, that lists all planning tasks to be undertaken during a program year, together with a complete description thereof and an estimated budget, all as required by 23 C.F.R. Section 450.314, and Section 339.175(8), Florida Statutes.

ARTICLE 2 PURPOSE

Section 2.01. General Purpose. The purpose of this Agreement is to establish the St. Lucie Metropolitan Planning Organization:

(a) To assist in the development of transportation systems embracing various modes of transportation in a manner that will maximize the mobility of people and goods within and through this metropolitan area of this state and minimize, to the maximum extent feasible for transportation-related fuel consumption and air pollution;

(b) To develop transportation plans and programs, in cooperation with the Department, which plans and programs provide for the development of transportation facilities that will function as multi-modal and an intermodal transportation system for the metropolitan area;

(c) To implement and ensure a continuing, cooperative, and comprehensive transportation planning process that results in coordinated plans and programs consistent with

the comprehensively planned development of this affected metropolitan area in cooperation with the Department;

(d) To assure eligibility for the receipt of Federal capital and operating assistance pursuant to 23 U.S.C. Section 34 and 49 U.S.C. Sections 5303, 5304, 5305 and 5306; and

(e) To carry out the metropolitan transportation planning process, in cooperation with the Department, as required by 23 U.S.C. 134 and 49 U.S.C. 5303, 5304, 5305 and 5306; 23 C.F.R. 420 and 450, and 49 C.F.R. Part 613, Subpart A; and consistent with Chapter 339, Florida Statutes, and other applicable state and local laws.

Section 2.02. Major MPO Responsibilities. The MPO is intended to be a forum for cooperative decision making by officials of the governmental entities which are party to this Agreement in the development of transportation-related plans and programs, including but not limited to:

(a) The Long-range Transportation Plan;

(b) The Transportation Improvement Program;

(c) The Unified Planning Work Program;

(d) A congestion management system for the metropolitan area as required by state or federal law;

(e) Assisting the Department in mapping transportation planning boundaries required by state or federal law;

(f) Assisting the Department in performing its duties relating to access management, functional classification of roads, and data collection; and

(g) Performing such other tasks presently or hereafter required by state or federal law.

Section 2.03. MPO decisions coordinated with FDOT and consistent with comprehensive plans. Chapter 334, Florida Statutes, grants the broad authority for the Department's role in transportation. Section 334.044, Florida Statutes, shows the legislative intent that the Department shall be responsible for coordinating the planning of a safe, viable and balanced state transportation system serving all regions of the State. Section 339.155, Florida Statutes, requires the Department to develop a statewide transportation plan, which considers, to the maximum extent feasible, strategic regional policy plans, MPO plans, and approved local government comprehensive plans. Section 339.175, Florida Statutes, specifies the authority and responsibility of the MPO and the Department in the management of a continuing, cooperative, and comprehensive transportation planning process for the metropolitan area.

In fulfillment of this purpose and in the exercise of the various powers granted by Chapters 334 and 339, Florida Statutes, the Department and all parties to this Agreement acknowledge that the provisions of the Local Government Comprehensive Planning and Land Development Regulation Act, Sections 163.3161-3215, Florida Statutes, are applicable to this Agreement. The parties to this Agreement shall take particular care that the planning processes and planning integrity of local governments as set forth in aforementioned law shall not be infringed upon.

ARTICLE 3 MPO ORGANIZATION AND CREATION

Section 3.01. Establishment of MPO. The MPO for the metropolitan area as described in the membership apportionment plan approved by the Governor is hereby created and established pursuant to the Agreement to carry out the purposes and functions set forth in Articles 2 and 5. The legal name of this Metropolitan Planning Organization shall be the "St. Lucie Metropolitan Planning Organization".

Section 3.02. MPO to operate pursuant to law. In the event that any election, referendum, approval, permit, notice, other proceeding or authorization is required under applicable law to undertake any power, duty, or responsibility hereunder, or to observe, assume,

or carry out any of the provisions of this Agreement, the MPO will, to the extent of its legal capacity, comply with all applicable laws and requirements.

Section 3.03. Governing board to act as policy-making body of MPO. The governing board established pursuant to Section 4.01 of this Agreement shall be the policy-making body forum of the MPO responsible for cooperative decision-making of actions taken by the MPO and taking the required approval action as the MPO.

Section 3.04. Submission of proceedings; Contracts and other documents. Subject to the right to claim an exemption from the Florida Public Records Law, Chapter 119, Florida Statutes, the Department and the MPO shall submit to each other such data, reports, records, contracts, and other documents relating to the MPO's performance as a metropolitan planning organization as is requested. Charges are to be in accordance with Chapter 119, Florida Statutes.

Section 3.05. Rights of review. All parties to this Agreement, and the affected Federal funding agency (i.e., FHWA, FTA, and FAA) shall have the rights of technical review and comment of MPO projects.

ARTICLE 4 COMPOSITION; MEMBERSHIP; TERMS OF OFFICE

Section 4.01. Composition and membership of governing board.

(a) The membership of the MPO shall consist of twelve (12) voting representatives and ~~one (1)~~ three (3) non voting representatives. The names of the member local governmental entities and the voting apportionment of the governing board as approved by the Governor shall be as follows:

Voting Members:

Non-Voting Members:

City of Fort Pierce 2

City of Port St. Lucie 4


Community Transit 1

St. Lucie County 4

St. Lucie County School Board 1

Florida Department of Transportation 1

Martin ~~County~~ MPO 2



(b) All voting representatives shall be elected officials of general purpose local governments, except to the extent that the MPO includes, as part of its apportioned voting membership, a member of a statutorily authorized planning board or an official of an agency that operates or administers a major mode of transportation. All individuals acting as a representative of the governing board of the county, the city, or authority shall first be selected by said governing board.

(c) As Community Transit is the operator of a major mode of transportation in the Metropolitan Area, the county commission representatives shall constitute no less twenty percent (20%) of the total number of voting members of the MPO in accordance with Section 339.175(2)(a), Florida Statutes.

(d) In the event that a governmental entity that is a member of the MPO fails to fill an assigned appointment to the MPO within sixty days after notification by the Governor of its duty to appoint a representative, that appointment shall be made by the Governor from the eligible individuals of that governmental entity.

Section 4.02. Terms. The term of office of members of the MPO shall be four years. The membership of a member who is a public official automatically terminates upon said official leaving the elective or appointive office for any reason, or may be terminated by a majority vote of the total membership of the governmental entity represented by the member.

A vacancy shall be filled by the original appointing entity. A member may be appointed for one or more additional four year terms.

ARTICLE 5 AUTHORITIES, POWERS, DUTIES AND RESPONSIBILITIES

Section 5.01. General authority. The MPO shall have all authorities, powers and duties, enjoy all rights, privileges, and immunities, exercise all responsibilities and perform all obligations necessary or appropriate to managing a continuing, cooperative, and comprehensive transportation planning process as specified in Section 339.175(4) and (5), Florida Statutes.

Section 5.02. Specific authority and powers. The MPO shall have the following powers and authority:

(a) As provided in Section 339.175(5)(g), Florida Statutes, the MPO may employ personnel and/or may enter into contracts with local or state agencies and private planning or engineering firms to utilize the staff resources of local and/or state agencies;

(b) As provided in Section 163.01(14), Florida Statutes, the MPO may enter into contracts for the performance of service functions of public agencies;

(c) As provided in Section 163.01(5)(j), Florida Statutes, the MPO may acquire, own, operate, maintain, sell, or lease real and personal property;

(d) As provided in Section 163.01(5)(m), Florida Statutes, the MPO may accept funds, grants, assistance, gifts or bequests from local, State, and Federal resources;

(e) The MPO may promulgate rules to effectuate its powers, responsibilities, and obligations enumerated herein; provided, that said rules do not supersede or conflict with applicable local and state laws, rules and regulations; and

(f) The MPO shall have such powers and authority as specifically provided in Sections 163.01 and 339.175, Florida Statutes, and as may otherwise be provided by federal or state law.

Section 5.03. Duties and responsibilities. The MPO shall have the following duties and responsibilities:

(a) As provided in Section 339.175(5)(d), Florida Statutes, the MPO shall create and appoint a technical advisory committee;

(b) As provided in Section 339.175(5)(e), Florida Statutes, the MPO shall create and appoint a citizens' advisory committee;

(c) As provided in Section 163.01(5)(o), Florida Statutes, the MPO membership shall be jointly and severally liable for liabilities, and the MPO may respond to such liabilities through the purchase of insurance or bonds, the retention of legal counsel, and, as appropriate, the approval of settlements of claims by its governing board;

(d) As provided in Section 339.175(8), Florida Statutes, the MPO shall establish a budget which shall operate on a fiscal year basis consistent with any requirements of the Unified Planning Work Program;

(e) The MPO, in cooperation with the Department, shall carry out the metropolitan transportation planning process as required by 23 C.F.R. Parts 420 and 450, and 49 C.F.R. Part 613, Subpart A, and consistent with Chapter 339, Florida Statutes, and other applicable state and local laws;

(f) As provided in Section 339.175(9)(a), Florida Statutes, the MPO shall enter into agreements with the Department, operators of public transportation systems and the metropolitan and regional intergovernmental coordination and review agencies serving the metropolitan area. These agreements will prescribe the cooperative manner in which the transportation planning process will be coordinated and included in the comprehensively planned development of the area;

(g) Prepare the Long-Range Transportation Plan;

- (h) In cooperation with the Department, prepare the Transportation Improvement Program;
- (i) In cooperation with the Department, prepare and annually update the Unified Planning Work Program;
- (j) Prepare a congestion management system for the metropolitan area;
- (k) Assist the Department in mapping transportation planning boundaries required by state or federal law;
- (l) Assist the Department in performing its duties relating to access management, functional classification of roads, and data collection;
- (m) Conduct an analysis to determine the appropriate staffing for the MPO, including the employer and location for the MPO staff;
- (n) Perform such other tasks presently or hereafter required by state or federal law;
- (p) Execute certifications and agreements necessary to comply with state or federal law; and
- (q) Adopt operating rules and procedures.

ARTICLE 6 FUNDING; INVENTORY REPORT; RECORD-KEEPING

Section 6.01. Funding. The Department shall allocate to the MPO for its performance of its transportation planning and programming duties, an appropriate amount of federal transportation planning funds.

Section 6.02. Inventory report. The MPO agrees to inventory, to maintain records of and to insure proper use, control, and disposal of all nonexpendable tangible property

acquired pursuant to funding under this Agreement. This shall be done in accordance with the requirements of 23 C.F.R. Part 420, Subpart A, 49 C.F.R. Part 18, Subpart C, and all other applicable federal regulations.

Section 6.03. Record-keeping and document retention. The Department and the MPO shall prepare and retain all records in accordance with the federal and state requirements, including but not limited to 23 C.F.R. Part 420, Subpart A, 49 C.F.R. Part 18, Subpart C, 49 C.F.R. 18.42, and Chapter 119, Florida Statutes.

ARTICLE 7 MISCELLANEOUS PROVISIONS

Section 7.01. Constitutional or statutory duties and responsibilities of parties. This Agreement shall not be construed to authorize the delegation of the constitutional or statutory duties of any of the parties. In addition, this Agreement does not relieve any of the parties of an obligation or responsibility imposed upon them by law, except to the extent of actual and timely performance thereof by one or more of the parties to this Agreement or any legal or administrative entity created or authorized by this Agreement, in which case this performance may be offered in satisfaction of the obligation or responsibility.

Section 7.02. Amendment of Agreement. Amendments or modifications of this Agreement may only be made by written agreement signed by all parties here to with the same formalities as the original Agreement. No amendment may alter the apportionment or jurisdictional boundaries of the MPO without approval by the Governor.

Section 7.03. Duration; withdrawal procedure.

(a) Duration. This Agreement shall remain in effect until terminated by the parties to this Agreement; provided, however, that by no later than October 1, 2009, and at least every five years thereafter, the Governor shall examine the composition of the MPO membership and reapportion it as necessary to comply with Section 339.175, Florida Statutes, as appropriate. During examination of the MPO apportionment every five years by the Governor, this

Agreement shall be reviewed by the MPO and the Department to confirm the validity of the contents and to recommend amendments, if any, that are required.

(b) Withdrawal procedure. Any party, except St. Lucie County and the United States Bureau of the Census designated center city(ies), may withdraw from this Agreement after presenting in written form a notice of intent to withdraw to the other parties to this Agreement and the MPO, at least 90 days prior to the intended date of withdrawal. Upon receipt of the intended notice of withdrawal:

(1) The withdrawing member and the MPO shall execute a memorandum reflecting the withdrawal of the member and alteration of the list of member governments that are signatories to this Agreement. The memorandum shall be filed in the Office of the Clerk of the Circuit Court of each county in which a party hereto is located; and

(2) The Office of the Governor shall be contacted, and the Governor, with the agreement of the remaining members of the MPO, shall determine whether any reapportionment of the membership shall be appropriate. The Governor and the MPO shall review the previous MPO designation, applicable Florida and local law, and MPO rules for appropriate revision. In the event that another entity is to accorded membership in the place of the member withdrawing from the MPO, the parties acknowledge that pursuant to 23 C.F.R. 450.306(k), adding membership to the MPO does not automatically require redesignation of the MPO. In the event that a party who is not a signatory to this Agreement is accorded membership on the MPO, membership shall not become effective until this Agreement is amended to reflect that the new member has joined the MPO.

Section 7.04. Notices. All notices, demands and correspondence required or provided for under this Agreement shall be in writing and delivered in person or dispatched by certified mail, postage prepaid, return receipt requested. Notice required to be given shall be addressed as follows:

City of Fort Pierce:

City Manager
100 North U.S. 1
Fort Pierce, Florida 34982

With copy to:

City Attorney
100 North U.S. 1
Fort Pierce, Florida 34982

City of Port St. Lucie:

City Manager
Port St. Lucie City Hall
121 Southwest Port St. Lucie Boulevard
Port St. Lucie, Florida 34984

With copy to:

City Attorney
Port St. Lucie City Hall
121 S.W. Port St. Lucie Blvd.
Port St. Lucie, Florida 34984

St. Lucie County:

County Administrator
2300 Virginia Avenue
Fort Pierce, Florida 34982

With copy to:

County Attorney
2300 Virginia Avenue
Fort Pierce, Florida 34982

St. Lucie County School Board:

Superintendent of Schools
4204 Okeechobee Road
Fort Pierce, Florida 34947

With copy to:


School Board Attorney
4204 Okeechobee Road
Fort Pierce, Florida 34947

Council on Aging:

Council on Aging of St. Lucie, Inc.
2501 SW Bayshore Boulevard
Port St. Lucie, Florida 34984

Florida Department of Transportation:

District 4 Secretary
 3400 West Commercial Boulevard
 Fort Lauderdale, Florida 33309



Martin County MPO:
 Martin County MPO Administrator
 2401 SE Monterey Road
 Stuart, Florida 34996

A party may unilaterally change its address or addressee by giving notice in writing to the other parties as provided in this section. Thereafter, notices, demands and other pertinent correspondence shall be addressed and transmitted to the new address.

Section 7.05. Interpretation.

(a) Drafters of Agreement. The Department and the members of the MPO were each represented by or afforded the opportunity for representation by legal counsel and participated in the drafting of this Agreement and in choice of wording. Consequently, no provision hereof should be more strongly construed against any party as drafter of this Agreement.

(b) Severability. Invalidation of any one of the provisions of this Agreement or any part, clause or word hereof, or the application thereof in specific circumstances, by judgement, court order, or administrative hearing or order shall not affect any other provisions or applications in other circumstances, all of which shall remain in full force and effect; provided, that such remainder would then continue to conform to the terms and requirements of applicable law.

(c) Rules of construction. In interpreting this Agreement, the following rules of construction shall apply unless the context indicates otherwise:

- (1) The singular of any word or term includes the plural;
- (2) The masculine gender includes the feminine gender; and
- (3) The word "shall" is mandatory, and "may" is permissive.

Section 7.06. Enforcement by parties hereto. In the event of any judicial or administrative action to enforce or interpret this Agreement by any party hereto, each party shall bear its own attorney's fees in connection with such proceeding.

Section 7.07. Agreement execution; Use of counterpart signature pages. This Agreement, and any amendments hereto, may be simultaneously executed in several counterparts, each of which so executed shall be deemed to be an original, and such counterparts together shall constitute one and the same instrument.

Section 7.08. Effective date; Cost of recordation.

(a) Effective date. This Agreement shall become effective upon its filing in the Office of the Clerk of the Circuit Court of each county in which a party hereto is located. Any amendment hereto shall become effective only upon its filing in the Office of the Clerk of the Circuit Court for each county in which a party hereto is located.

(b) Recordation. St. Lucie County hereby agrees to pay for any costs of recordation or filing of this Agreement in the Office of the Circuit Court for each county in which a party is hereto located. The recorded or filed original hereof, or any amendment, shall be returned to the MPO for filing in its records.