

SR-9/I-95 Multimodal Master Plan

(from Palm Beach/Martin County Line to Indian River/Brevard County Line)

MASTER PLAN SUMMARY

*ST LUCIE TPO
Board Meeting*

August 5, 2020

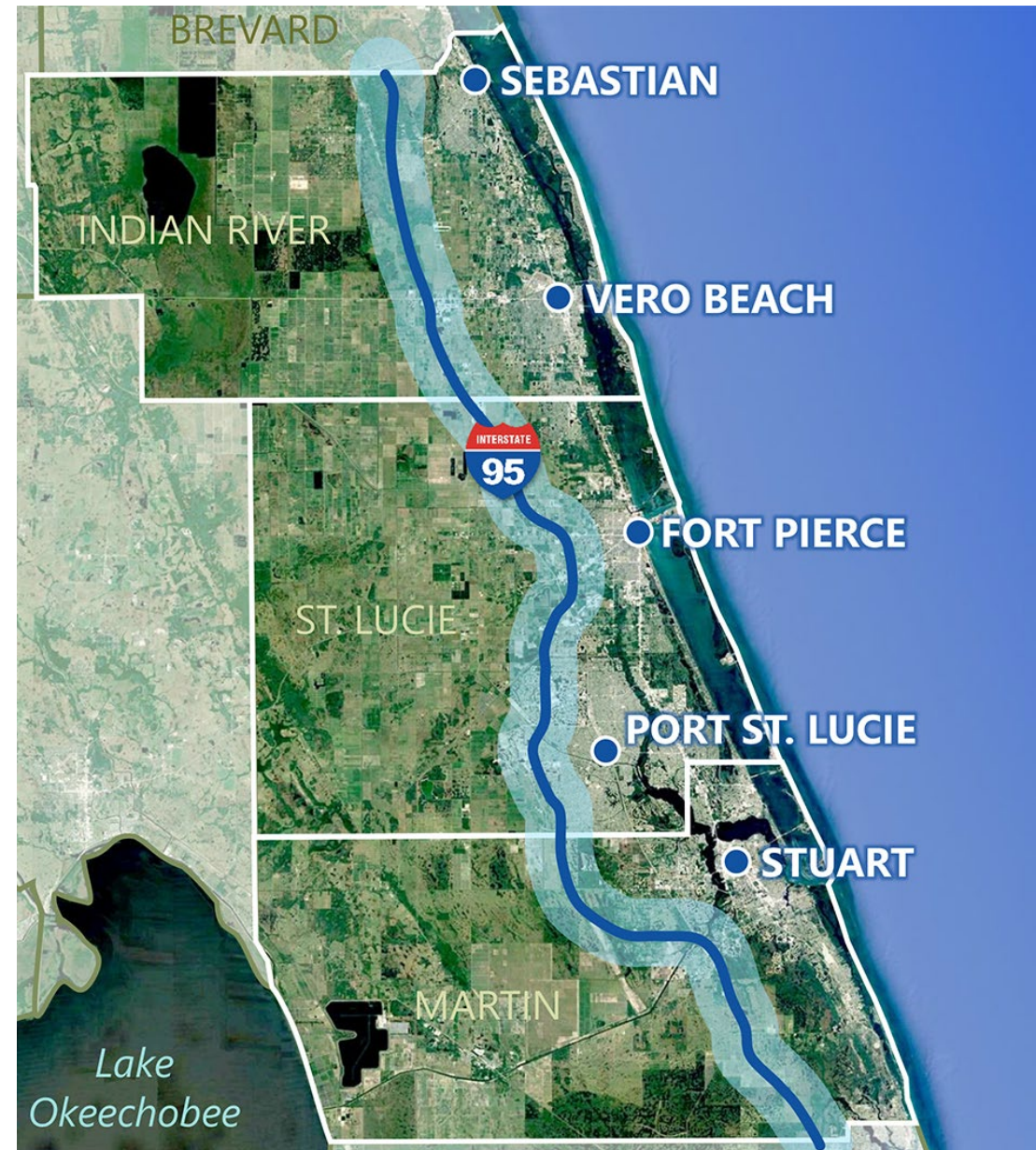


Meeting Purpose

- » Project Overview
- » Objectives
- » I-95 Mainline Improvement Needs
- » Interchange Improvement Needs
- » Work Program Costs and Phases
- » Next Steps
- » Project Schedule

Project Overview

- » Project Limits & Study Area
 - 71-mile I-95 corridor
 - 6 lanes; 8 lanes from SR 70 to Indrio Rd
 - 15 interchanges including Oslo Road interchange
 - Explore Multimodal Alternatives
 - Identify Needs and Their Timing
 - Short Term
 - Long Term (2045)



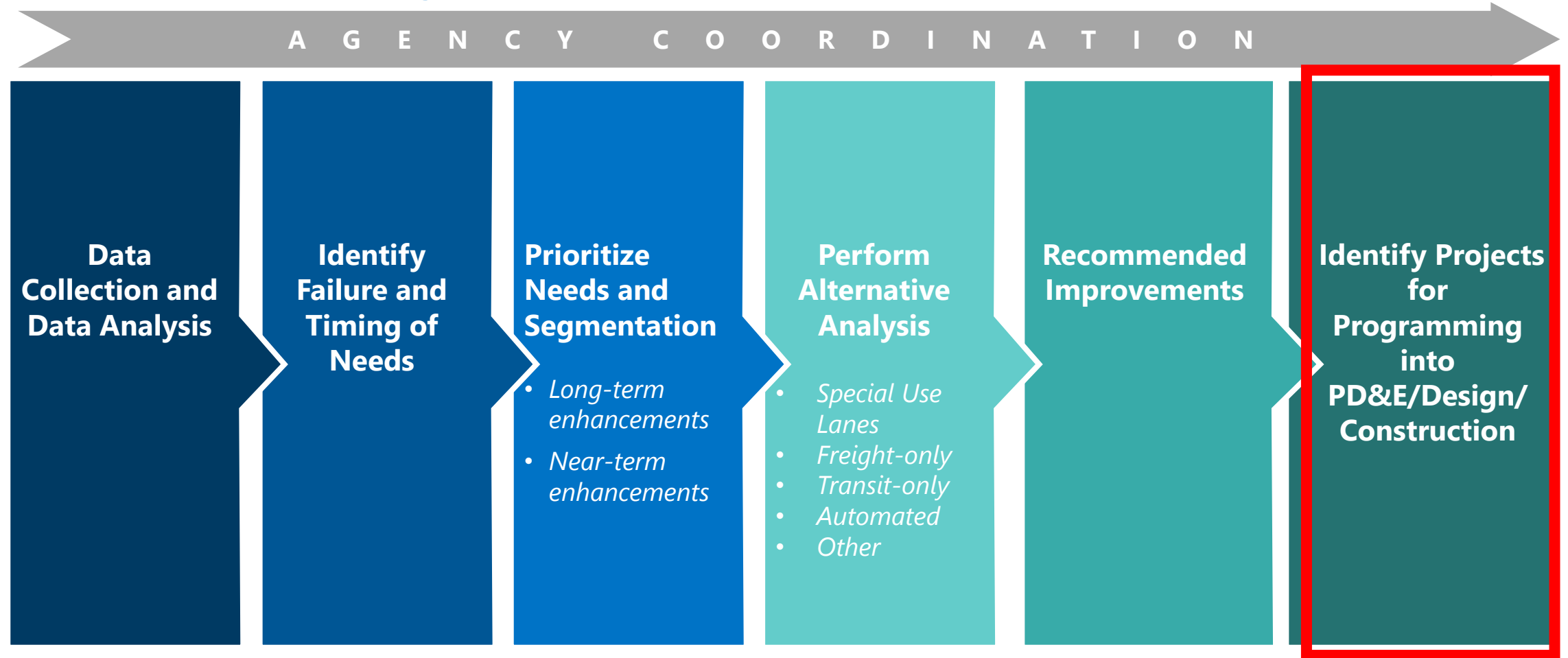
Master Plan Objectives

- » Develop Multimodal Master Plan
 - Collaborative approach
 - Regional support
- » Define and Analyze Conceptual Design Alternatives
 - Improvement needs
 - Short-term and long-term
- » Interstate and Other Roadway Needs
 - Timing of improvements
 - Funding
 - Prioritization

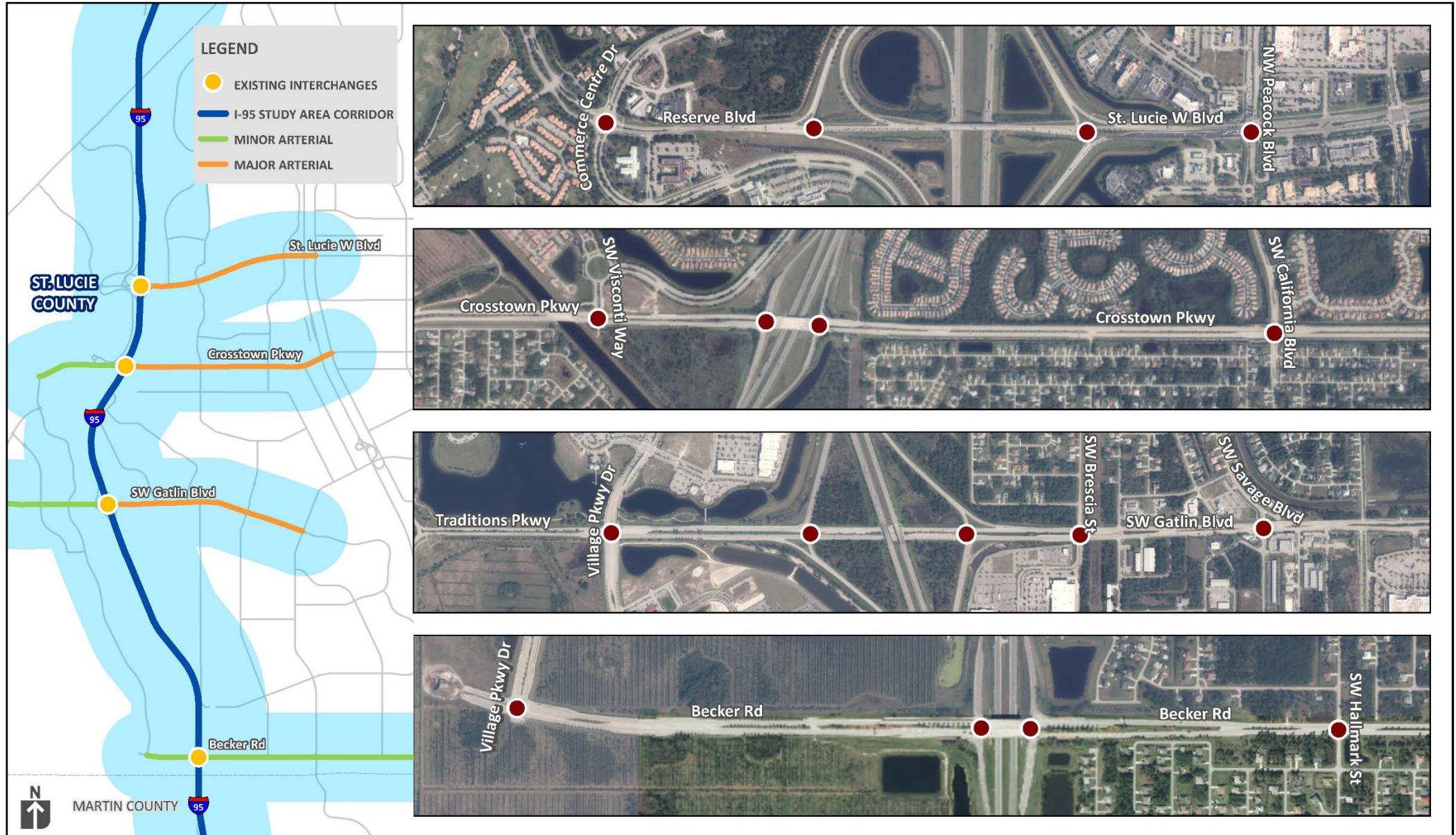


Multimodal Master Plan - Process

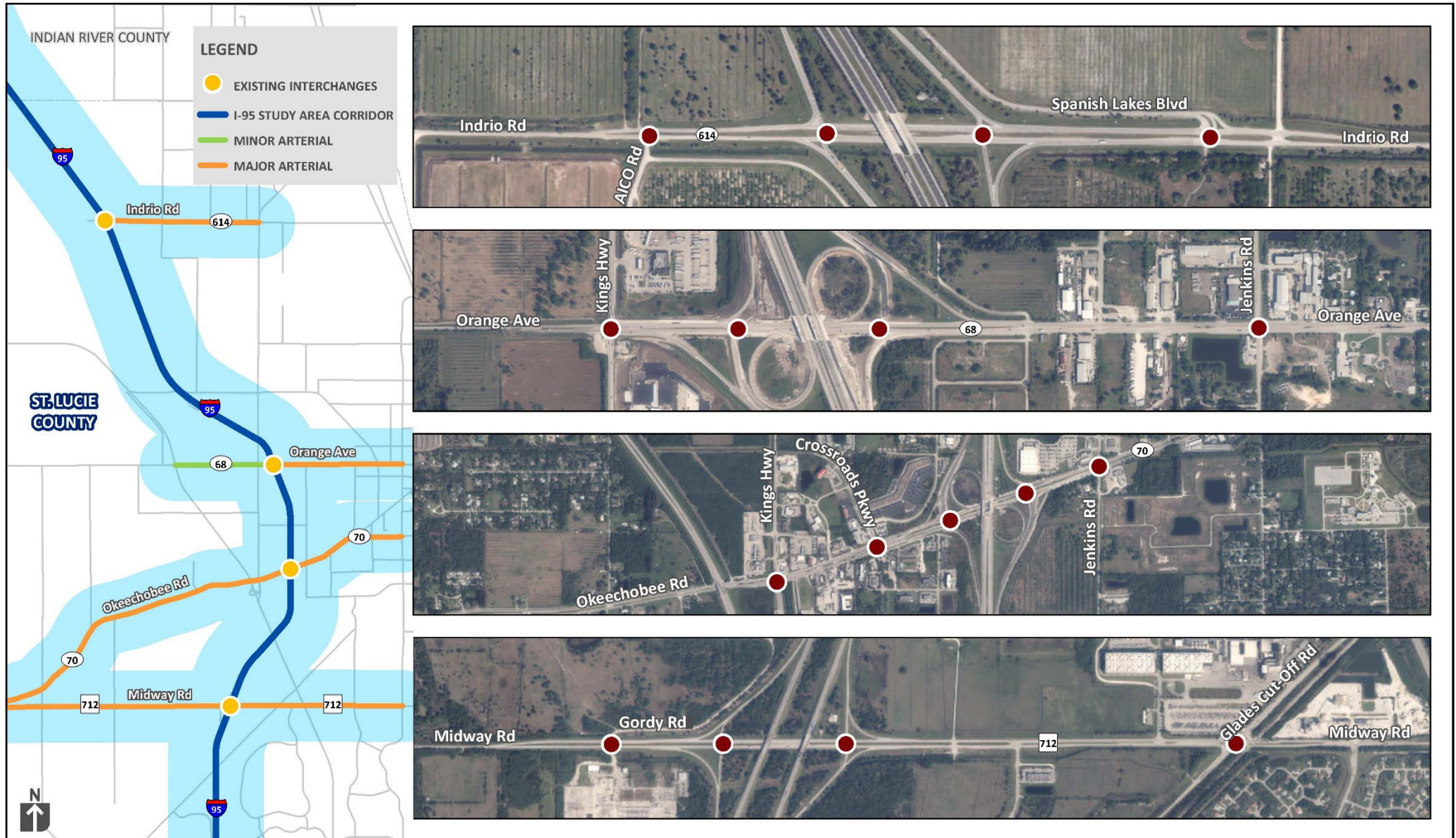
Mainline & Interchange Influence Areas



Interchange Study Areas (south St Lucie County)

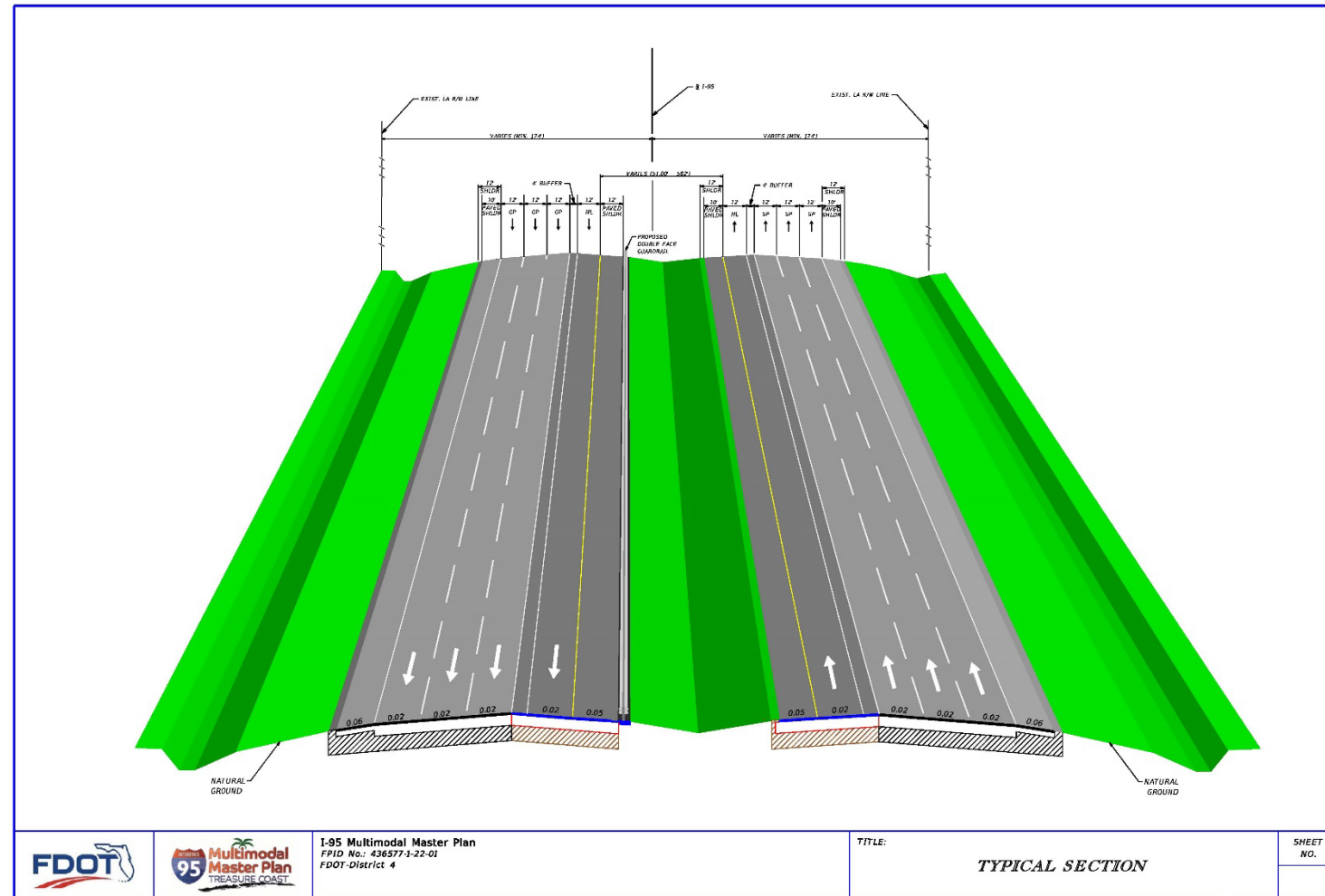


Interchange Study Areas (north St Lucie County)



I-95 Mainline Needs and Potential Impacts

- » Add Managed Lane from Palm Beach county line to SR 70
 - Add 16 feet to roadway width
 - Assuming all design standards met for lanes and shoulders
- » Widening to 8-Lanes is already noted in LRTPs
- » PD&E Phase Programmed for 2025



Work Program Needs by Cost and Phase

SHORT TERM (2030) PROJECTS

FACILITY	FROM	TO	IMPROVEMENT TYPE	COSTS ¹				
				PD&E (Phase 22)	Design (Phase 32)	ROW (Phase 4x)	Construction (Phase 5x)	CEI (Phase 6x)
SR 70/Okeechobee Rd	Jenkins Rd	I-95 NB Ramp Termini	- WB lane utilization and NB on-ramp concept; - Jenkins Rd intersection (signal timing improvements or SBR overlap phase)	n/a	\$0.24 M	n/a	\$0.95 M	\$0.13 M
I-95	Martin/St Lucie line	SR 70/Okeechobee Rd	- Add 2 Managed Lanes & bridge widening/ replacement (FM #422681-6)	\$3.0 M	\$13.3 M	n/a	\$110.5 M	\$11.6 M
I-95 NB Braided Ramps	Crosstown Parkway	St Lucie West Blvd	- Braided Ramps (Northbound) with 2-lane ramp configuration & local ramp roadway	Improvement included in 2025	\$3.5 M	\$0.6 M	\$28.9 M	\$3.8 M
I-95 SB Braided Ramps ²	St Lucie West Blvd	Crosstown Parkway	- Braided Ramps (Southbound) with 2-lane ramp configuration	I-95 PD&E Study (FM #422681-6)	\$1.72 M	\$0.6 M	\$14.3 M	\$1.86 M
St Lucie West Blvd	at Peacock Blvd		At Peacock Blvd intersection: - Eastbound : Add a third left-turn lane and third through lane - Westbound: Add a second left-turn lane, third through lane, and second right-turn lane; and provide a protected right-turn overlap phase. - Northbound: Add a second through lane, and provide a protected right-turn overlap phase. - Southbound: Add a second through lane and second right turn lane; and provide a protected right-turn overlap phase.	\$1.5 M	\$0.67 M	\$10.6 M	\$3.9 M	\$0.55 M
SR 68/Orange Avenue	Kings Hwy	I-95	- Move I-95 SB on-ramp entrance for EB traffic on Orange Ave about 400 ft east. - At Kings Hwy: Add a second WB right-turn lane, and provide a protected WB right-turn overlap phase. Provide a protected NB right-turn overlap phase.	\$0.3 M	\$0.44 M	\$0.215 M	\$2.4 M	\$0.27 M
Gatlin Blvd	at Village Parkway Drive		- At Village Pkwy, provide free flow NB right turn and free flow WB right turn	\$0.3 M	\$0.49 M	\$9.8 M	\$1.4 M	\$0.19 M
Becker Road	at Village Parkway Drive		- At Village Pkwy, add SB left-turn lane	\$0.3 M	\$0.05 M	n/a	\$0.1 M	\$0.02 M

1. Costs are in 2019 dollars.

2. I-95 SB Braided Ramp improvement is needed by 2045. It is included with the I-95 NB Braided Ramp project (needed by 2030) for the purpose of programming the PD&E phases (Phase 22).

Work Program Needs by Cost and Phase, cont.

LONG TERM (2045) PROJECTS

FACILITY	FROM	TO	IMPROVEMENT TYPE	COSTS [1]				
				PD&E (Phase 22)	Design (Phase 32)	ROW (Phase 4x)	Construction (Phase 5x)	CEI (Phase 6x)
St Lucie West Blvd	west of I-95 SB Ramp Termini	Peacock Blvd	<ul style="list-style-type: none"> - Replace 2L WB bridge with 3L bridge to add 3rd WB through lane from east of Peacock Blvd to WB-to-SB loop ramp; - At I-95 NB Ramp terminal: Add a third westbound through lane and at Peacock Blvd, Add a third SB left-turn lane. 	Improvement included in 2025 I-95 PD&E Study (FM #422681-6)	\$1.34 M	n/a	\$11.1 M	\$1.45 M
Gatlin Blvd	Village Parkway Drive	Savage Blvd	<ul style="list-style-type: none"> - Interchange Modification (Includes DDI Configuration Evaluation) - Add EB/WB through lane east of interchange at Brescia St and Savage Blvd - At Village Pkwy: Add a third SB left-turn lane. Add a third EB through lane. 	Improvement included in 2025 I-95 PD&E Study (FM #422681-6)	\$4.31 M	\$19.6 M	\$28.7 M	\$3.74 M
Crosstown Parkway	west of I-95 SB Ramp Termini	east of I-95 NB Ramp Termini	<ul style="list-style-type: none"> - At I-95 SB Ramp terminal: Add a third WB left-turn lane; Add a sixth EB through lane - At I-95 NB Ramp terminal: Add a third EB left-turn lane; Add a second NB left-turn lane; Add a second WB right-turn lane, and add a 6th WB through lane. 	Improvement included in 2025 I-95 PD&E Study (FM #422681-6)	\$3.24 M	n/a	\$21.6 M	\$2.81 M
SR 70/Okeechobee Road	Kings Highway	Jenkins Road	<ul style="list-style-type: none"> - Interchange Modification (Includes DDI Configuration Evaluation); - At Jenkins Rd add a 3rd NB left turn lane - At Kings Highway: Add a third NB right-turn lane, and provide a protected NB right-turn overlap phase. - At Crossroads Parkway: Provide signal retiming improvements, including protected right-turn overlap phase for northbound right-turn, southbound right-turn, and westbound right-turn lane. 	Improvement included in 2025 I-95 PD&E Study (FM #422681-6)	\$2.54 M	\$1.2 M	\$21.1 M	\$2.75 M



Work Program Needs by Cost and Phase, cont.

LONG TERM (2045) PROJECTS, cont

FACILITY	FROM	TO	IMPROVEMENT TYPE	COSTS [1]				
				PD&E (Phase 22)	Design (Phase 32)	ROW (Phase 4x)	Construction (Phase 5x)	CEI (Phase 6x)
Becker Rd	Village Parkway Drive	east of I-95 NB Ramp Termini	- At I-95 SB Ramp Terminal: Add a second southbound right-turn lane. At I-95 NB Ramp Terminal: Add a second northbound left-turn lane - At Village Parkway Drive: Add a third SB left-turn lane, and a SB right-turn lane. Channelize the WB right-turn lane, and add a second WB through lane. Add an exclusive NB right-turn lane and restripe NB shared lane to shared left/through lane.	Improvement included in 2025 I-95 PD&E Study (FM #422681-6)	\$2.72 M	\$1.4 M	\$18.1 M	\$2.36 M
Midway Rd	I-95 SB Ramp Termini		At I-95 SB Ramp Intersection: Add a second SB left-turn lane.	Improvement included in 2025 I-95 PD&E Study (FM #422681-6)	\$0.36 M	n/a	\$0.8 M	\$0.11 M
Crosstown Parkway	California Blvd		- Provide a protected EB right-turn overlap phase. Add a second NB through lane. Add a second SB through lane, second SB right-turn lane, and provide a protected SB right-turn overlap phase.	\$0.3 M	\$0.61 M	\$0.32 M	\$3.2 M	\$0.36 M
Becker Road	Hallmark Street		- Add E/W bound through lane improvement at Hallmark St.	\$0.3 M	\$0.75 M	\$2.0 M	\$4.4 M	\$0.62 M
Midway Rd	Glades Cut-Off Rd		- Add an exclusive EB right-turn lane and channelize the EB right-turn lane. - Add a second WB left-turn lane, Add an exclusive WB right-turn lane and channelize the WB right-turn lane.	\$0.3 M	\$0.38 M	\$1.0 M	\$2.0 M	\$0.22 M
I-95 Southbound south of SR 614/Indrio Road	SR 614/Indrio Rd	south of SR 614/Indrio Rd	Adjust SB I-95 lane transition to eliminate merge	n/a	\$0.37 M	n/a	\$2.3 M	\$0.26 M
Various Ramps	n/a	n/a	Lengthen NB off-ramp deceleration lanes at SR 60, SR 614/Indrio Rd, and SR 68/Orange Avenue	n/a	\$0.6 M	n/a	\$3.2 M	\$0.4 M

St Lucie TPO – Next Steps

- » Endorse I-95 Treasure Coast Master Plan's Recommendations
- » Add Non-State Road and Non-SIS projects (2030 and 2045) to
 - 2045 Long Range Transportation Plan (LRTP), and
 - Include in TPO's future Priority Lists
- » Incorporate FDOT's List of SIS projects into 2045 LRTP



Project Schedule

- » TAC/CAC/BPAC Meetings in July 2020 
- » TPO Board Meeting on August 5, 2020
- » Master Plan Final Report Submitted to FDOT by August 2020

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Project Website: www.fdot.gov/projects/sefl/future/95/treasurecoast