



Project Development and Environment (PD&E) Study for SR 9/I-95 from 6th Avenue South to SR 704/Okeechobee Boulevard

Financial Project Identification Number: 444202-2-22-02 Efficient Transportation Decision Making (ETDM) Number: 14509



Presentation to Town of Cloud Lake and Glen Ridge

April 14, 2025



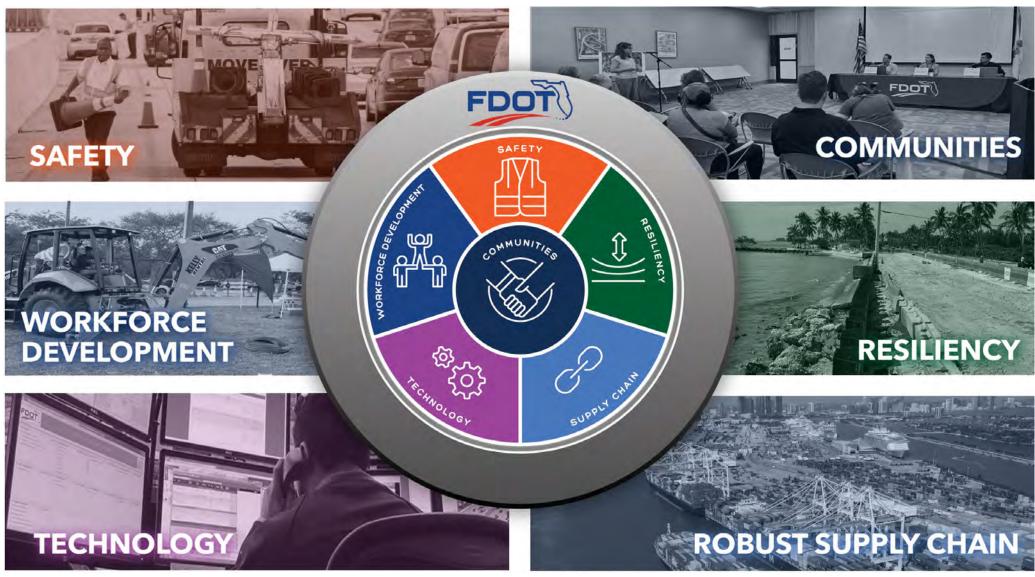
Agenda

- 1) Project History
- 2) Purpose and Need
- 3) Evaluation of Alternatives Under Consideration
- 4) Project Website and Contact Information
- 5) Next Steps





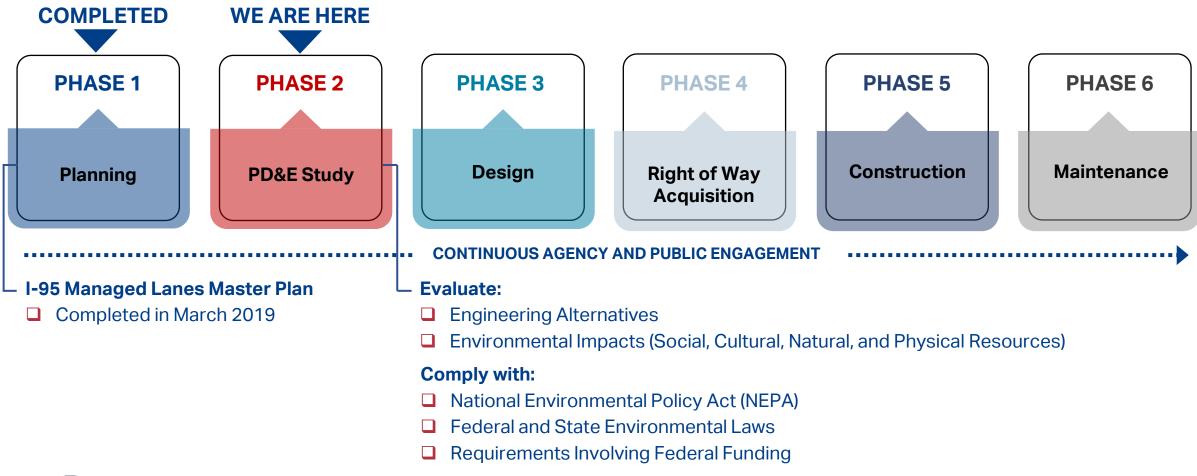
FDOT Compass







Transportation Development Process





PD&E Study Process





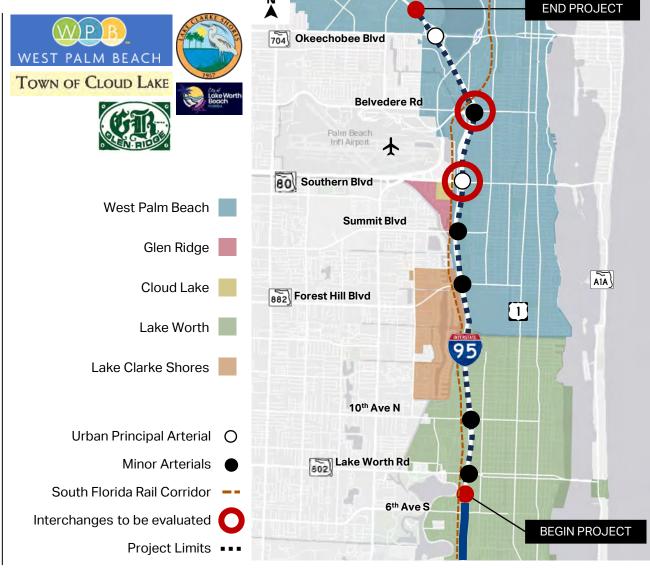


Project Location



Adjacent Projects

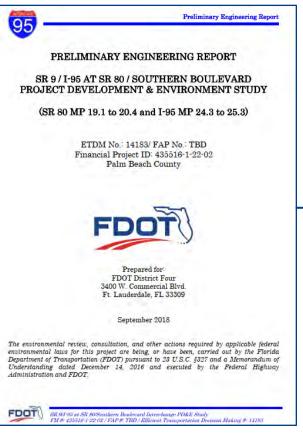
FPID 444202-1-22-02
PD&E Study from Linton Boulevard/CR 782 to 6th Avenue South

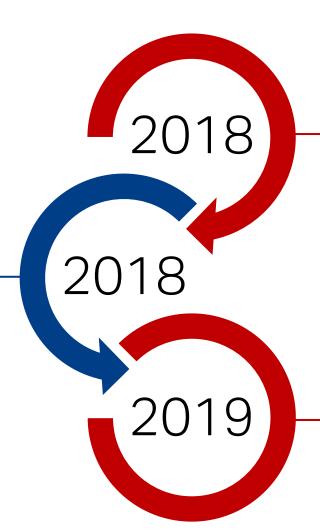






Project History







FINAL REPORT

FROM US-27/SR-25 TO I-95/SR-9, PALM BEACH COUNTY, FLORIDA April 2018





What are Managed Lanes

- MLs are an innovative solution to congestion management
- Limited access to specific vehicle classes by a toll or vehicle volume
- MLs are an alternative to increase capacity
- The Department will prioritize this approach to deploy a transportation system that is:
 - Safe
 - Community centric
 - Accessible







Offer predictable travel times



Manage time congestion



Reduce fuel consumption



Decrease air pollution



Support transit usage





Project Background: I-95 Managed Lanes Master Plan

SOUTH OF LINTON BOULEVARD/CR 782 TO MARTIN COUNTY LINE

Purpose

- Identify long-term capacity needs along the I-95 mainline
- Develop managed lanes design concepts
- Address segments operating below Level of Service (LOS) standard adopted as part of the Strategic Intermodal System (SIS)

Study Objectives

- Identify and document traffic operational deficiencies
- Develop an ultimate capacity improvement plan using traffic demand management and transit techniques
- Compare design constraints, benefits, construction costs, right of way impacts, interagency coordination, and recommendations for further PD&E evaluation









Purpose and Need

Increase capacity by adding managed lanes in each direction on I-95 segment between 6th Avenue South and Okeechobee Boulevard and alleviate congestion in the Southern Boulevard interchange.

Additionally, it aims to find improvements to the issues that impact roadway traffic. These issues may include capacity, modal interrelationships, and safety.



Increase Capacity to Meet Travel Demand



Operational and Safety Needs



Modal Interrelationships





Engineering Analysis

- Roadway Geometry
- Roadway Capacity
- Safety
- Traffic Operations
- Drainage
- Structures
- Right-of-Way Requirements
- Ingress and Egress Access Points
- Multimodal Considerations
- Cost









Environmental Analysis

- Socio-Cultural Evaluation
- Economic Assessment
- Land Uses (Existing/Future)
- ☐ Cultural Resources Assessment
- Recreational Resources
- Wetlands Evaluation
- Mobility
- Water Quality Assessment
- Wildlife and Habitat Assessment
- Noise Study
- Air Quality
- Contamination Screening Evaluation
- Permits Required







Alternatives Under Consideration

Shared-Used Path along borders of DDI

(2) Alternative 8 - Proposed ML egress for SB I-95 in the

Okeechobee Blvd interchange area

Project	I-95 mainline		SR-80 Interchange		Belvedere Ramps				
Alternatives	1 Option Cost in Millions		6 Options		<u>Cost</u> Millions	2 Options	Cost in Millions	Comments	
No-Build Alternative	No-Build	\$ -	No-Build	\$	-	No-Build	\$ -	Does not meet Purpose and Need	
Alternative 1	Option 1 (4 GUL + 2 ML)	\$ 403.44	Option 1 (2018 PD&E)	\$	144.69	Interchangeable	N/A	Violation of Ultimate Flight Path (Alt #1 used for comparison only)	
Alternative 2	Option 1 (4 GUL + 2 ML)	\$ 403.44	Interchangeable		N/A	Option 1* (Ramp to Mercer Ave)	\$ 1.03	Interchangeable with any mainline options	
Alternative 3	Option 1 (4 GUL + 2 ML)	\$ 403.44	Interchangeable		N/A	Option 2* (Ramps split)	\$ 2.25	ROW required / Interchangeable with any mainline options	
Alternative 4	Option 1 (4 GUL + 2 ML)	\$ 415.27	Option 2 (DDI - 2 DC Ramps)	\$	177.21	Interchangeable	N/A	Provides 2 direct connect I-95 to/from SR-80 movements (3)	
Alternative 4A	Option 1 (4 GUL + 2 ML)	\$ 415.27	Option 2 (DDI - 2 DC Ramps) (1)	\$	178.21	Interchangeable	N/A	Provides 2 direct connect I-95 to/from SR-80 movements (3)	
Alternative 5	Option 1 (4 GUL + 2 ML)	\$ 415.27	Option 3 (DDI - 2 DC Ramps at different levels)	\$	179.14	Interchangeable	N/A	Provides 2 direct connect I-95 to/from SR-80 movements (3) / different levels	
Alternative 6	Option 1 (4 GUL + 2 ML)	\$ 418.24	Option 4 (DDI - 4 DC Ramps)	\$	210.26	Interchangeable	N/A	Violation of Ultimate Flight Path / provides 4 direct connect I-95 to/from SR-80 movements	
Alternative 7	Option 1 (4 GUL + 2 ML)	\$ 418.23	al SIA 1451)	Þ	208.15		N/A	Feasible alternative if north PBIA runway is not extended to the east (4)	
Alternative 7A	Option 1 (4 GUL + 2 ML)	\$ 418.23	Option 5 (DDI - 3 DC Ramps + Braided Ramp at STA 1455)	\$	208.15	Interchangeable	N/A	Feasible alternative with additional ROW required	
Alternative 8	Option 1 (4 GUL + 2 ML)	\$ 417.05	Option 6 (DDI - 3 DC Ramps + at grade ML egress) (2)	\$	190.70	Interchangeable	N/A	Feasible / provides 3 direct connect ramps I-95 to/from SR-80 + 1 at grade ML exit	
			(1) Alternative 4A - Proposed alternative design with		*Options 1 or 2 for the Belvedere can be selected as		(3) Alternatives 4 / 4A / 5 provide two direct connect		



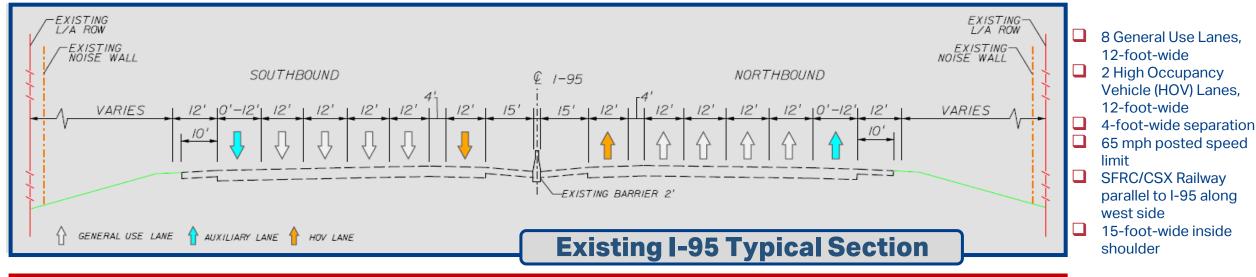
(4) Alternative 7 will be acceptable if north PBIA runway is not extended as part of the Airport Master Plan

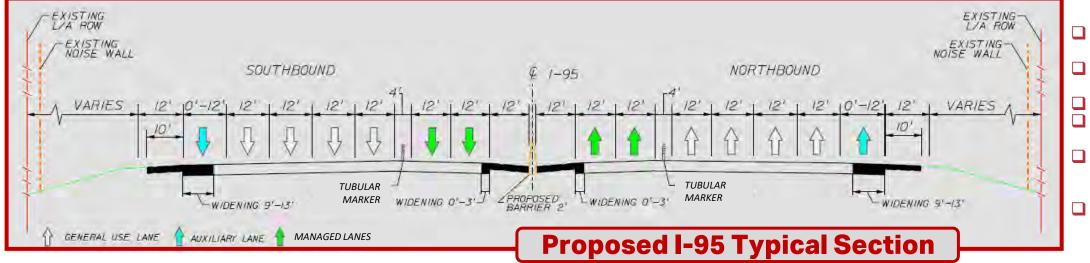
movements: NB I-95 to WB SR-80; EB SR-80 to NB I-95

improvements to Alternatives 4, 4A, 5, 6, 7, 7A, or 8



I-95: For all Build Alternatives (1 thru 8)



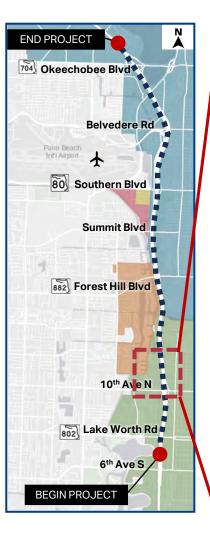


- 8 General Use Lanes,12-foot-wide4 Managed Lanes, 12-
- foot-wide
- 4-foot-wide separation 65 mph posted speed limit
- SFRC/CSX Railway parallel to I-95 along west side
 - 12-foot-wide inside shoulder





I-95 mainline with Access Points: For all Build Alternatives (1 thru 8)

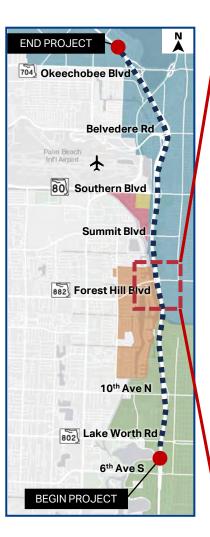


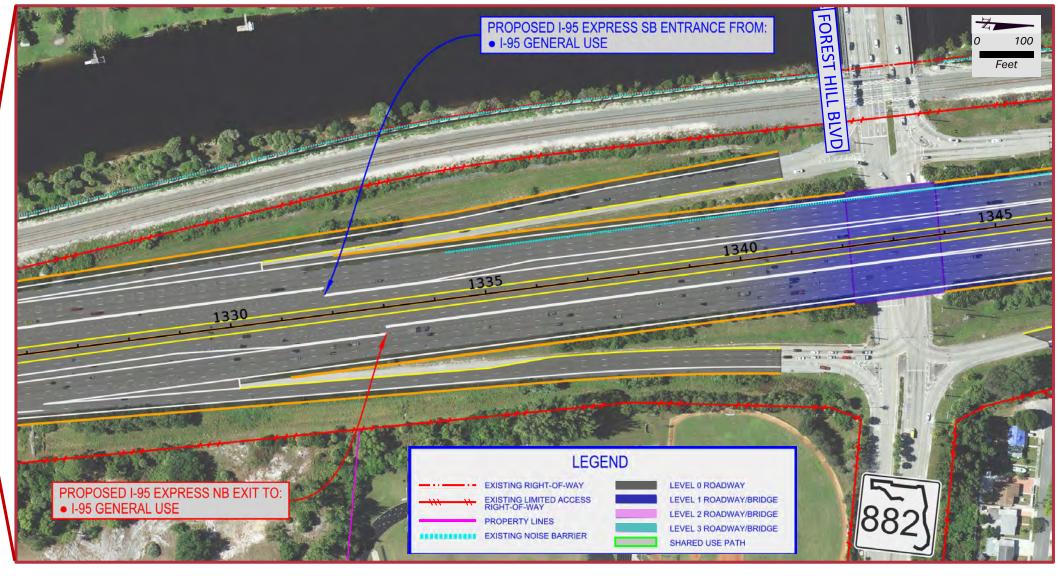






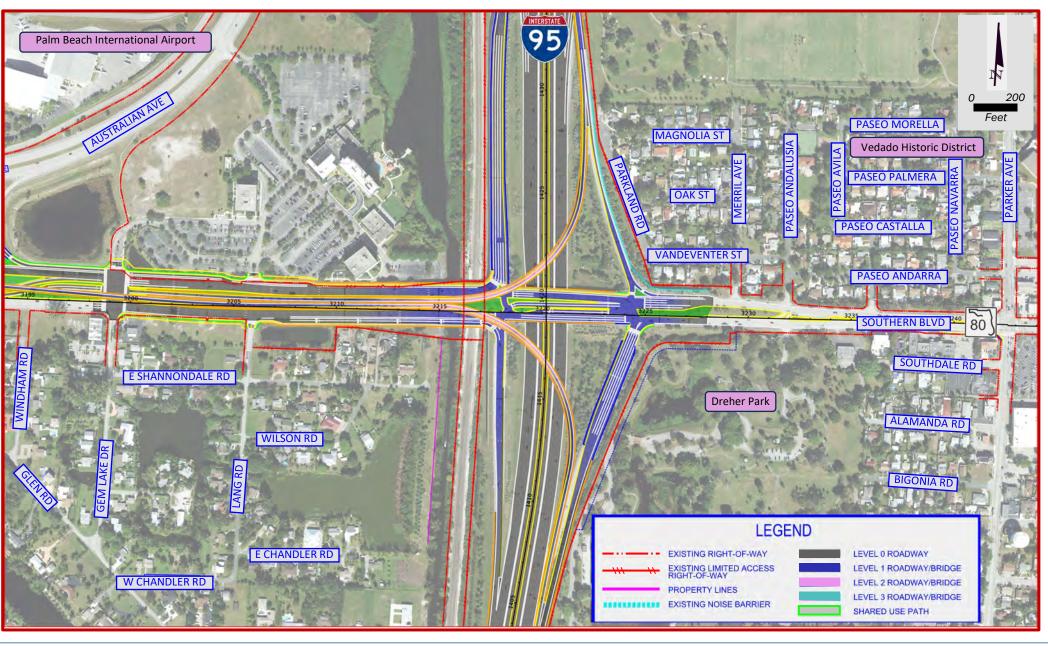
I-95 mainline with Access Points: For all Build Alternatives (1 thru 8)





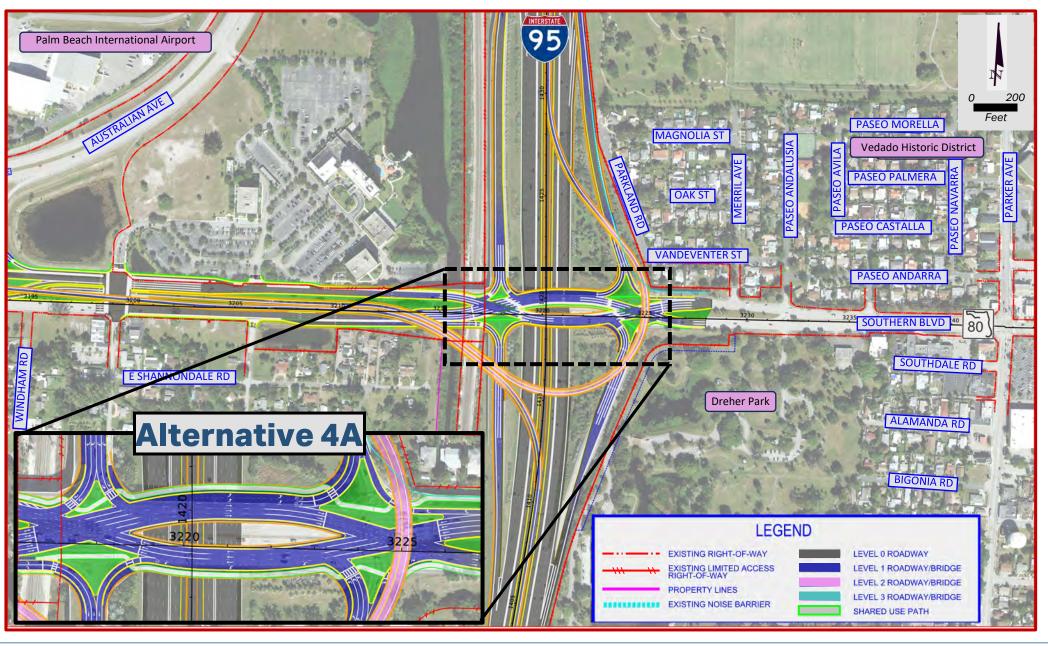


SR-80 Interchange: Alternative 1





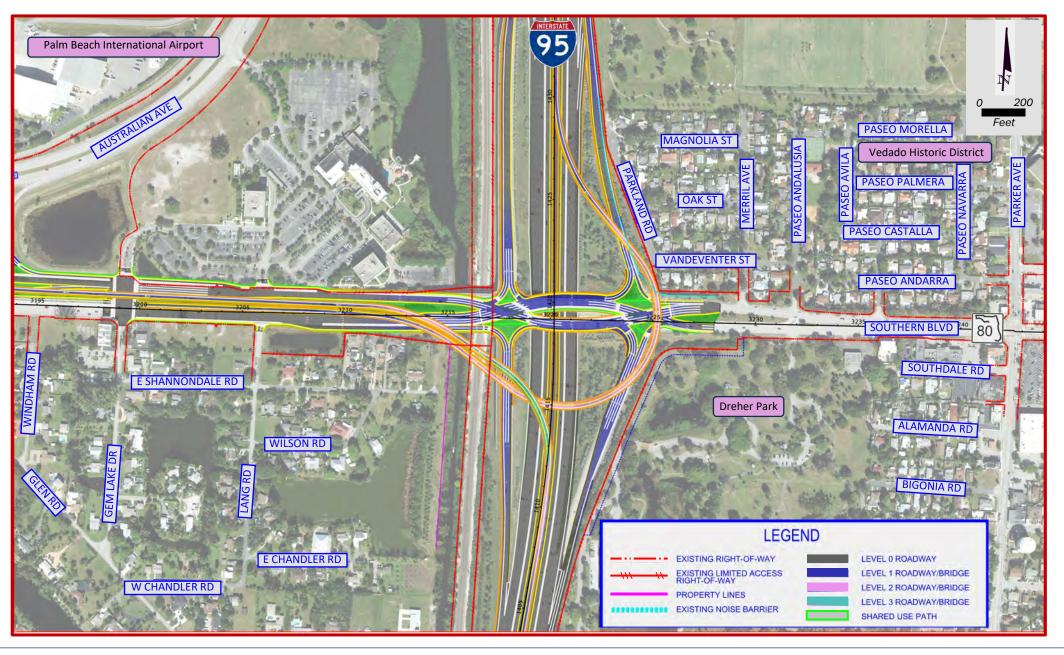
and 4A Interchang **Alternative SR-80**





9 For Post Study Palm Beach County

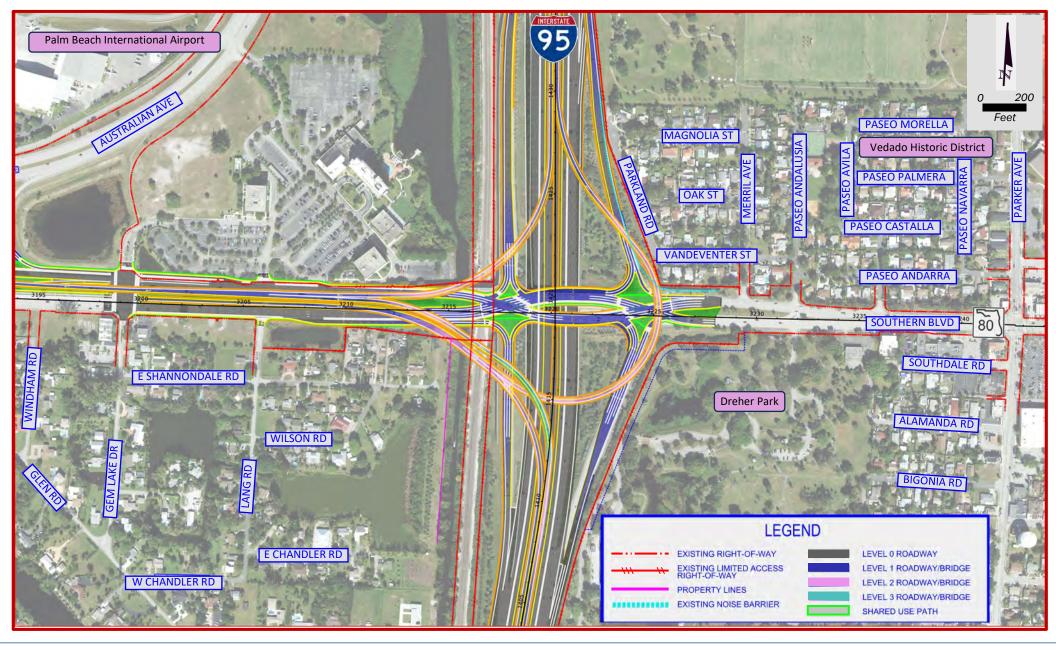
SR-80 Interchange Alternative 5





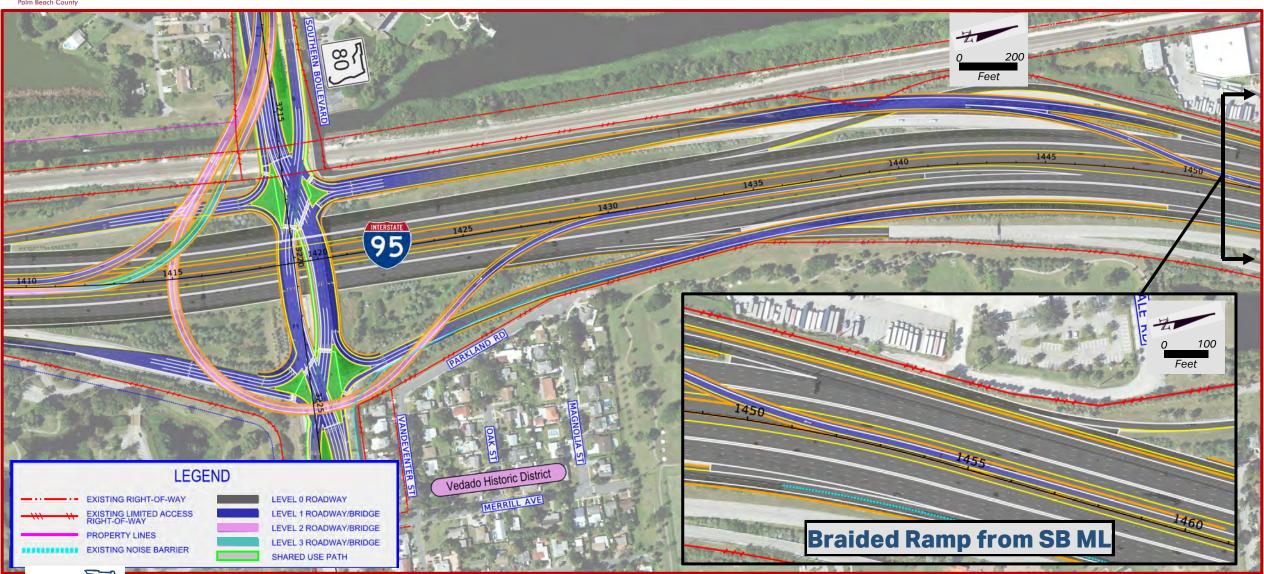
SR 9/1-95 PD&E Study Polm Beach County

SR-80 Interchange Alternative 6



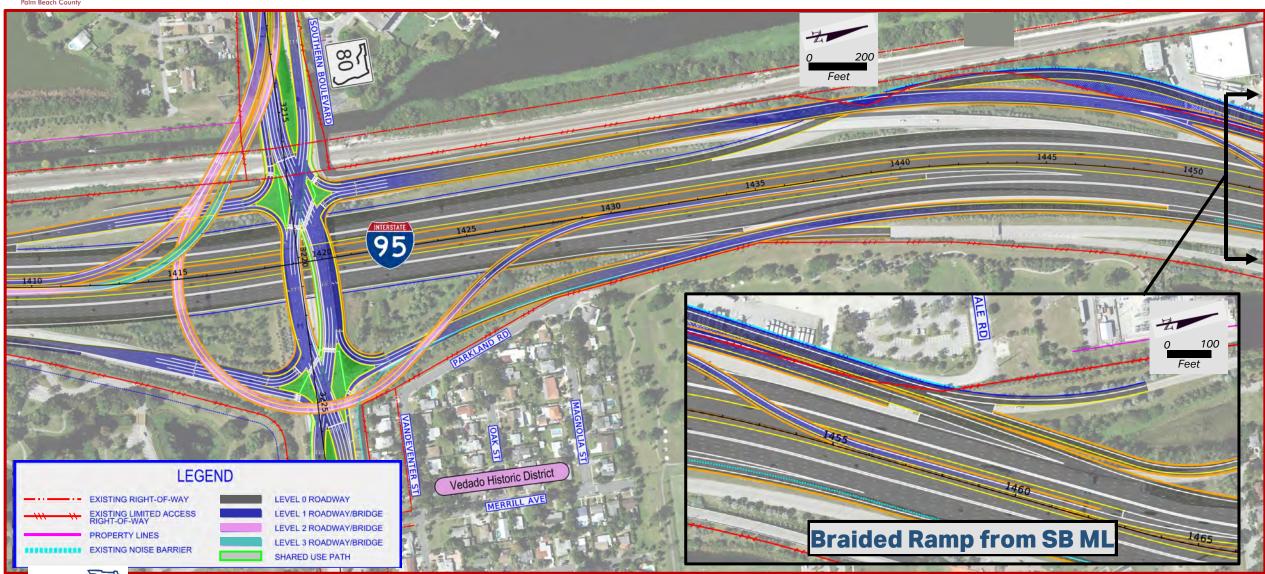


SR-80 Interchange: Alternative 7



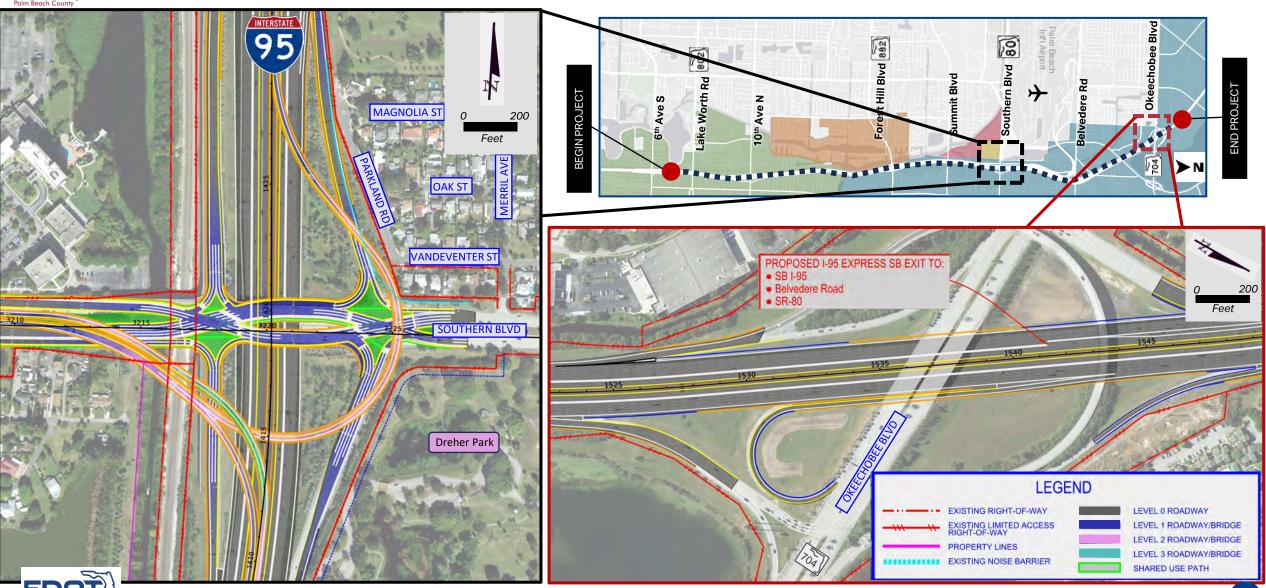


SR-80 Interchange: Alternative 7A



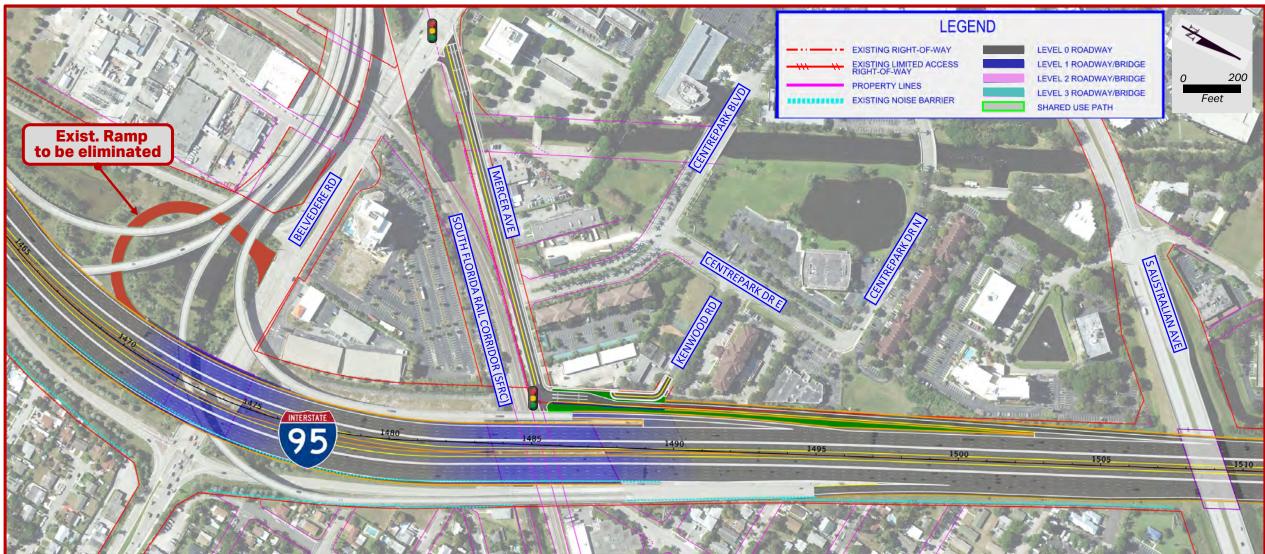


SR-80 Interchange: Alternative 8



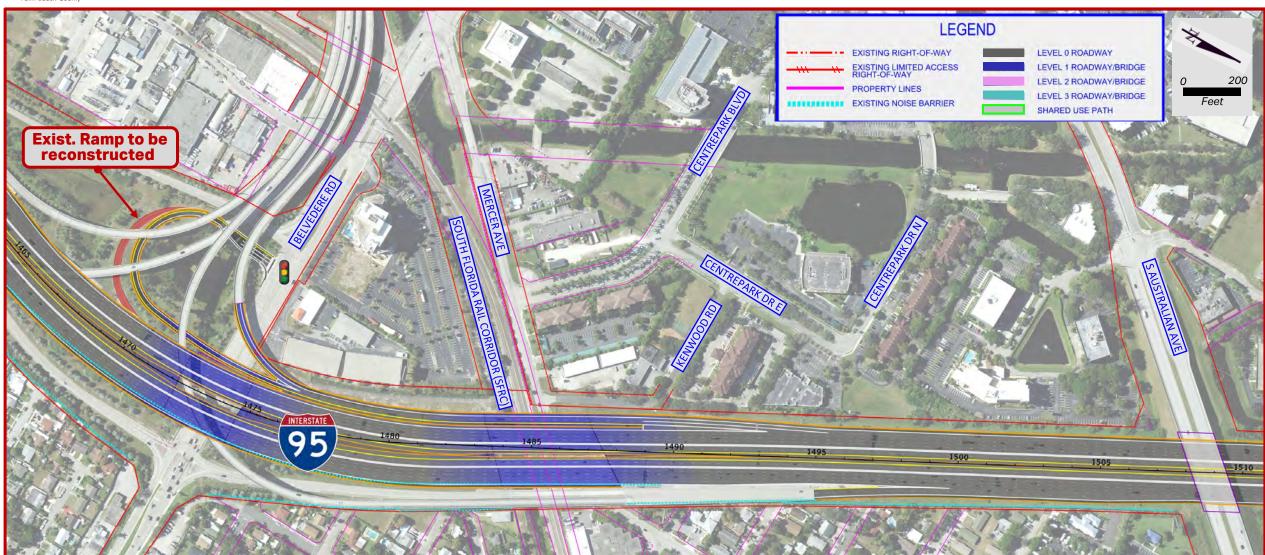


Belvedere Ramps: Alternative 2





Belvedere Ramps: Alternative 3





I-95 mainline and SR-80 Interchange Evaluation Matrix

CRITERIA	NO-BUILD	ALTERNATIVE 1	ALTs 4 AND 4A	ALTERNATIVE 5	ALTERNATIVE 6	ALTERNATIVE 7	ALTERNATIVE 7A	ALTERNATIVE 8
Purpose and Need	Not Met	✓ Met	⊘ Met	✓ Met	✓ Met	✓ Met	⊘ Met	⊘ Met
I-95 Mainline Capacity	Increased Congestion and Delay	Added Capacity	Added Capacity	Added Capacity	Added Capacity	Added Capacity	Added Capacity	Added Capacity
Managed Lanes	Does Not Add Travel Options	Added Travel Options	Added Travel Options	Added Travel Options	Added Travel Options	Added Travel Options	Added Travel Options	Added Travel Options
Roadway Safety & Traffic Operations	No Improvements	Enhanced	Enhanced	Enhanced	Enhanced	Enhanced	Enhanced	Enhanced
Weaving Conflicts	Weaving Remains	Weaving at SR-80 Ramps	Weaving Minimized	Weaving Minimized	Weaving Eliminated	Weaving Eliminated	Weaving Eliminated	Weaving Minimized
SR-80 Interchange	No direct connections for Managed Lanes	No direct connections for Managed Lanes	Two direct connections for Managed Lanes	Two direct connections for Managed Lanes	All four direct connections for Managed Lanes	Three direct connections + Braided Ramp	Three direct connections + Braided Ramp	Three direct connections for Managed Lanes
ROW Impacts	None	Most Impacts	Some Impacts	Some Impacts	Some Impacts	Some Impacts	Most Impacts	Some Impacts
Bridge Clearance	Sub-standard	Standard	Standard Standard	Standard	Standard	Standard	Standard	Standard Standard
Flight Path Clearance	✓ Met	Not Met	✓ Met	✓ Met	Not Met	Not Met Met	✓ Met	⊘ Met
Archeological/Historic Resource Impacts	None	None	None	None	None	None	None	None
Natural Resources	No Change	Minimal Impacts	Minimal Impacts	Minimal Impacts	Minimal Impacts	Minimal Impacts	Minimal Impacts	Minimal Impacts
Social and Economic	No Change	Enhanced	Enhanced	Enhanced	Enhanced	Enhanced	Enhanced	Enhanced
Contamination	No Change	Minimal Impacts	Minimal Impacts	Minimal Impacts	Minimal Impacts	Minimal Impacts	Minimal Impacts	Minimal Impacts
Section 4(f)	No Change	No Change	No Change	No Change	No Change	No Change	No Change	No Change
Noise Impacts	No Change	Minimal Minimal	Minimal	Minimal	Minimal	Minimal	Minimal	Minimal Minimal
Construction Cost (Not Including ROW Cost)	\$0.00	\$548.13 M	\$593.48 M	\$594.41 M	\$628.50 M	\$626.38 M	\$626.38 M	\$607.75 M





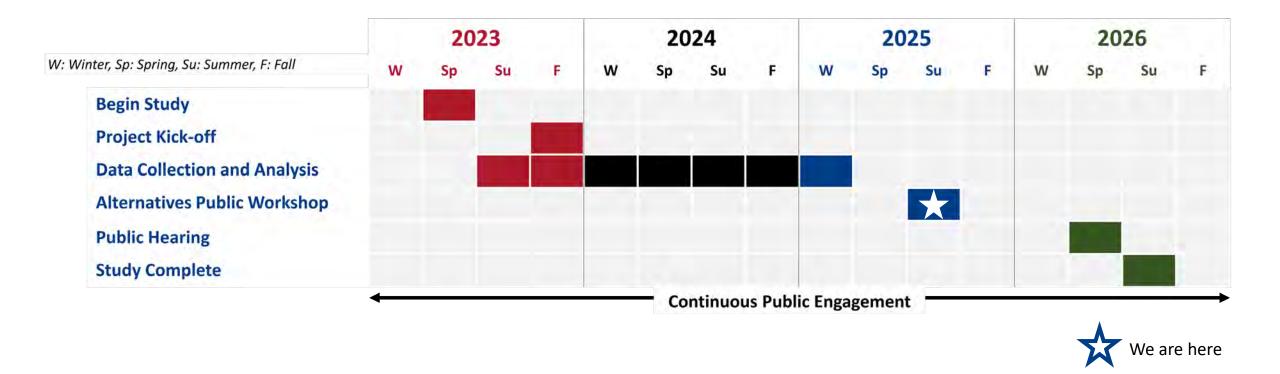
I-95 mainline at Belvedere Ramp Improvements Evaluation Matrix

CRITERIA	NO-BUILD	ALTERNATIVE 2	ALTERNATIVE 3		
Purpose and Need	Not Met	⊘ Met	✓ Met		
I-95 Mainline Capacity	Increased Congestion and Delay	Added Capacity	Added Capacity		
Managed Lanes	Does Not Add Travel Options	Added Travel Options	Added Travel Options		
Roadway Safety & Traffic Operations	No Improvements	⊘ Improved	Improved		
Weaving Conflicts	Weaving Remains	Weaving Eliminated	Weaving Eliminated		
Belvedere Ramps	Safety Not Improved	Safety Enhanced	Safety Enhanced		
ROW Impacts	None	Most Impacts	None		
Archeological/Historic Resource Impacts	None	None	None		
Natural Resources	No Change	Minimal Impacts	Minimal Impacts		
Social and Economic	No Change	Enhanced	Enhanced		
Contamination	No Change	Minimal Impacts	Minimal Impacts		
Section 4(f)	No Change in Use	No Change in Use	No Change in Use		
Noise Impacts	No Change	Minimal	Minimal		
Construction Cost (Not Including ROW Cost)	\$0.00	\$1.03	\$2.25		





Project Schedule

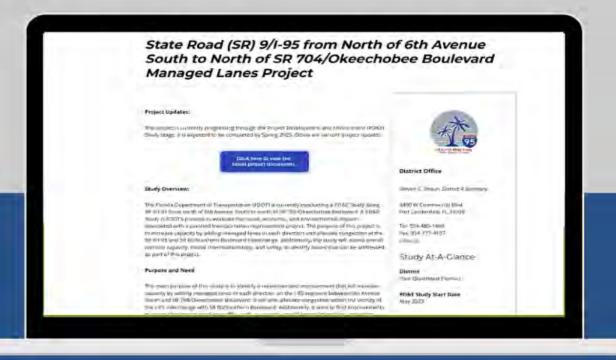






PLEASE VISIT THE PROJECT WEBSITE TO LEARN MORE ABOUT THE STUDY AND TO PROVIDE FEEDBACK.

HTTPS://TINYURL.COM/444202-2-195-PDE



WE ENCOURAGE YOU TO STAY INVOLVED THROUGHOUT THE ENTIRE PROJECT.





Contact Information

Project Website:

https://tinyurl.com/444202-2-I95-PDE

Project Manager Contact Information:

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Please Submit Comments or Questions Below:









Thank You

