

# SW 10<sup>th</sup> Street Connector and I-95 PD&E Study Community Meeting with Waterford Homes



#### **SW 10<sup>th</sup> Street Connector PD&E Study** FM #439891-1-22-02, ETDM #14291



#### I-95 from SW 10<sup>th</sup> Street to Hillsboro Boulevard PD&E Study FM #436964-1-22-02, ETDM #14244

August 5, 2020

### Agenda

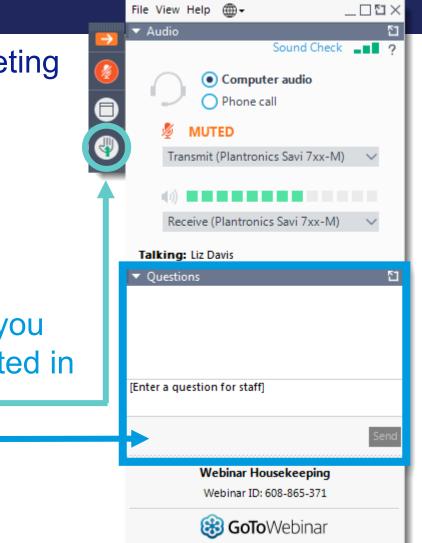
- Welcome and General Items
- Project Background
- Project Development and Environment (PD&E) Process
- PD&E Study Alternative Development / History (including recent changes)
- Preliminary Alternative Comparison
- Rendering Review
- Review Waterford Homes Related Questions
- Next Steps





# **Meeting Tips to Attendee**

- Attendees are Automatically Muted to Start the Meeting
- Downloading Info
  - PDF slideshow available in the handout section
- Asking Questions and Providing Comments during meeting
  - Call 1-800-418-0524
  - Raise hand during specific Q&A Categories that you have a question or clarification, you will be unmuted in order of raising hands, as time permits
  - Submit via the question box
- Get Technical Assistance
  - Call 1-800-418-0524





### **Non-discrimination Policy**

"Public Participation is solicited without regard to race, color, national origin, age, sex, religion, disability, or family status"

#### For questions or concerns, you may contact either:

#### **District Four**

Florida Department of Transportation District 4 Title VI Coordinator

#### Sharon Singh Hagyan

- 3400 West Commercial Boulevard
  Fort Lauderdale, Florida 33309
- (954) 777-4190
- Sharon.SinghHagyan@dot.state.fl.us

#### Tallahassee Office

- Florida Department of Transportation State Title VI Coordinator Jacqueline Paramore
- 605 Suwannee Street, MS 65
- Tallahassee, Florida 32399
- (850) 414-4753
- ⊠ <u>Jacqueline.Paramore@dot.state.fl.us</u>



### **General Information**

- Acknowledgment of Elected Officials in attendance
- Confirmation of current number of attendees
- Introduction of Presentation and Q&A Team
  - Maria Alzate, SW 10<sup>th</sup> Street Connector Public Involvement Team Member
    - Presentation Moderator
  - Robert Bostian, FDOT Project Manager
  - Phil Schwab, SW 10<sup>th</sup> Street Connector PD&E Project Manager
  - Shawn Birst, SW 10<sup>th</sup> Street Connector Traffic Team Member
- Other acknowledgments





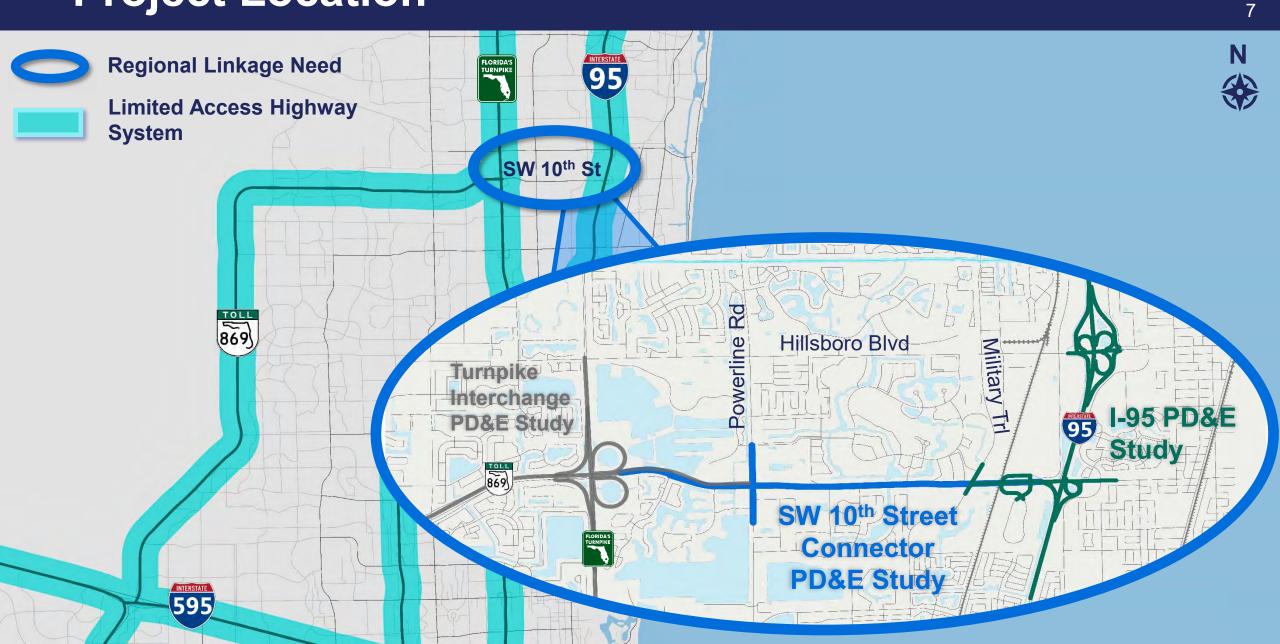
# What has happened since Postponement of Public Hearing in October 2019?

- Multiple coordination Meetings with the City of Deerfield Beach to better define concerns over the project
- Additional analysis to evaluate changes to address concerns
- Development of several exhibits to help explain project details, challenges, and options under consideration
- Conducted three virtual webinars (June 18, June 29, and July 1)
  - 799 Attendees
  - Provided update on project concepts and response to questions
  - All webinar materials (presentation, Q&A slides, Q&A matrices, recordings) are available on the project website, under Webinar Exhibit Room, Webinar Materials





#### **Project Location**



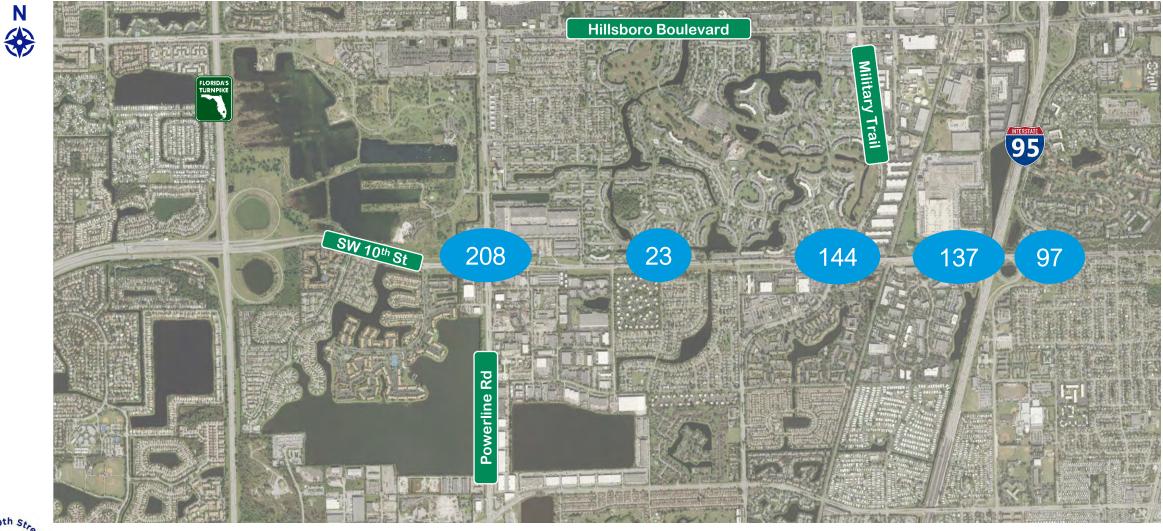
## System Linkage Need

- Regional Weekday Daily Trip Flows
  - Long distance trips
  - Broward
    - West of Turnpike to / from Palm Beach, east of I-95 – 51,000 daily trips
  - Palm Beach
    - West of Turnpike to / from Broward, east of I-95 – 23,000 daily trips





### High Crash Locations (2012-2016 Summaries)







#### Purpose and Need SW 10<sup>th</sup> Street PD&E Study

- Improve connectivity of Strategic Intermodal System (SIS) and limited access facilities
- Address safety and operational issues caused by congestion
- Address local SW 10<sup>th</sup> Street needs
- Enhance intermodal and economic development
- Enhance emergency response times and evacuation operations

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### Purpose and Need – I-95 PD&E Study

- Primary Need
  - Capacity / Operational Deficiencies
  - Safety Higher than the statewide average crash rate
- Secondary Considerations
  - Evacuation and emergency services
  - Transportation demand
  - System connectivity



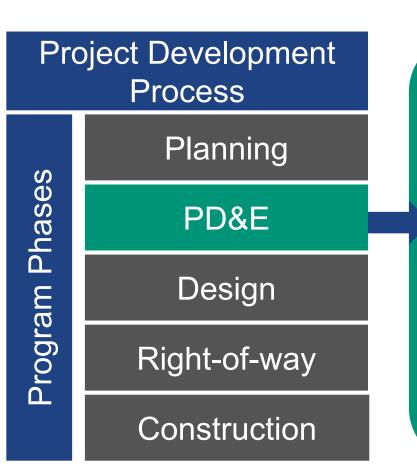






### Where does PD&E fit in the Project Delivery Process?

- FDOT delivers a project utilizing a 5-phase process
- PD&E is the second phase
  - Considers a range of alternatives to address needs
  - Includes a No-Build Alternative
  - Evaluates improvement concepts
  - Includes public and agency involvement



- Existing Conditions
- Future Traffic Needs
- Alternatives Development
- Environmental / Engineering Analysis
- Public Information Meetings
- Draft Environmental & Engineering Documents
- Public Hearing
- Final Environmental & Engineering Documents
- Location and Design
  Concept Acceptance

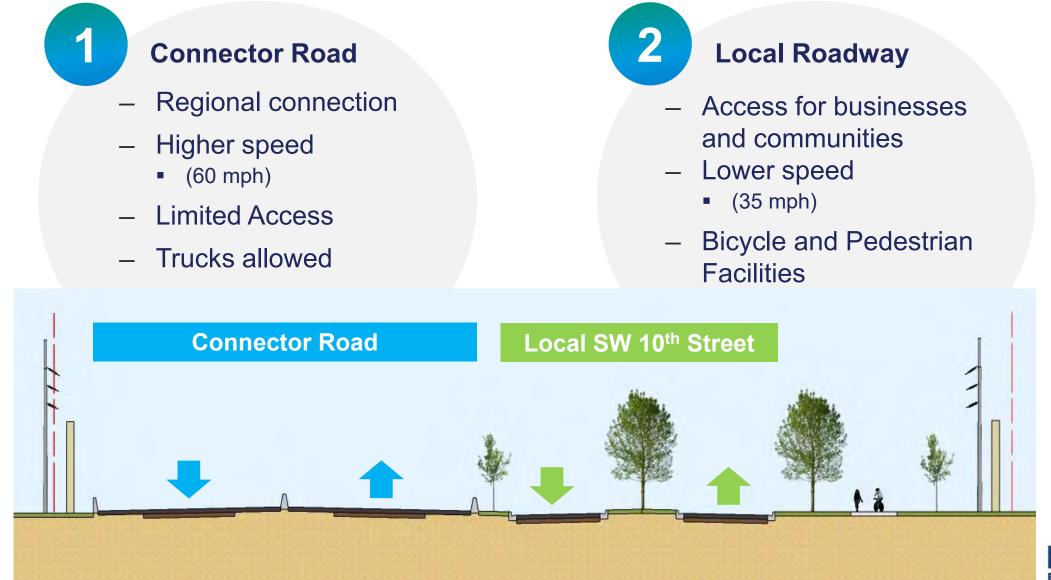




### **Overview: One Corridor, Dual Facilities**

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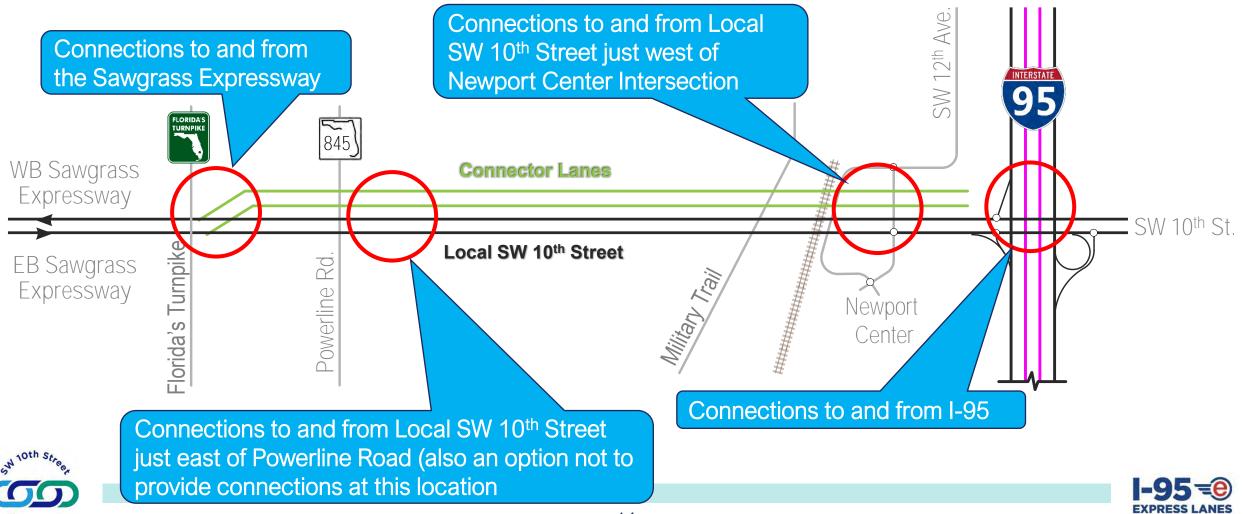
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Typical Section Looking East (without local access ramps)

### **Overview: Access to the Connector Lanes**

NOTE: Local SW 10<sup>th</sup> Street will have some median opening modifications as well as some combined driveways will require individual connections to Local SW 10<sup>th</sup> Street.



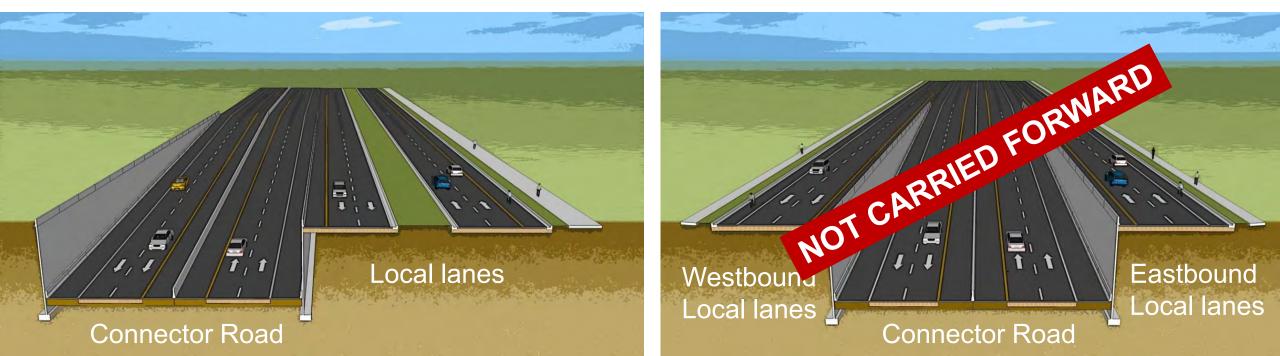
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#### **Alternatives Development – Workshop #1**

- Alternatives Public Workshop No. 1 April 24, 2018
  - North and Center Alignment were presented
    - Both assumed fully depressed Connector Road (west of Powerline to west of Military Trail)
  - No Build Alternative

#### **North Alignment**

**Center Alignment** 



### Increase the Length of Depressed Roadway

#### West Constraints

Quiet Waters Park

- North / South Utility Impacts
- Business Impacts
- C-3 Canal Impact

#### Section 4(f) Impacts

- **Minimal benefits**
- Closest house is 342 feet away from +/- 18-foot wall

Depressed Westbound Exit Ramp avoids elevating roadway in front of residential properties in the middle of the corridor

#### **East Constraints**

C-2 Canal

Century Village

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- Roads must elevate over Military Trail
- Roads must elevate over the Railroad

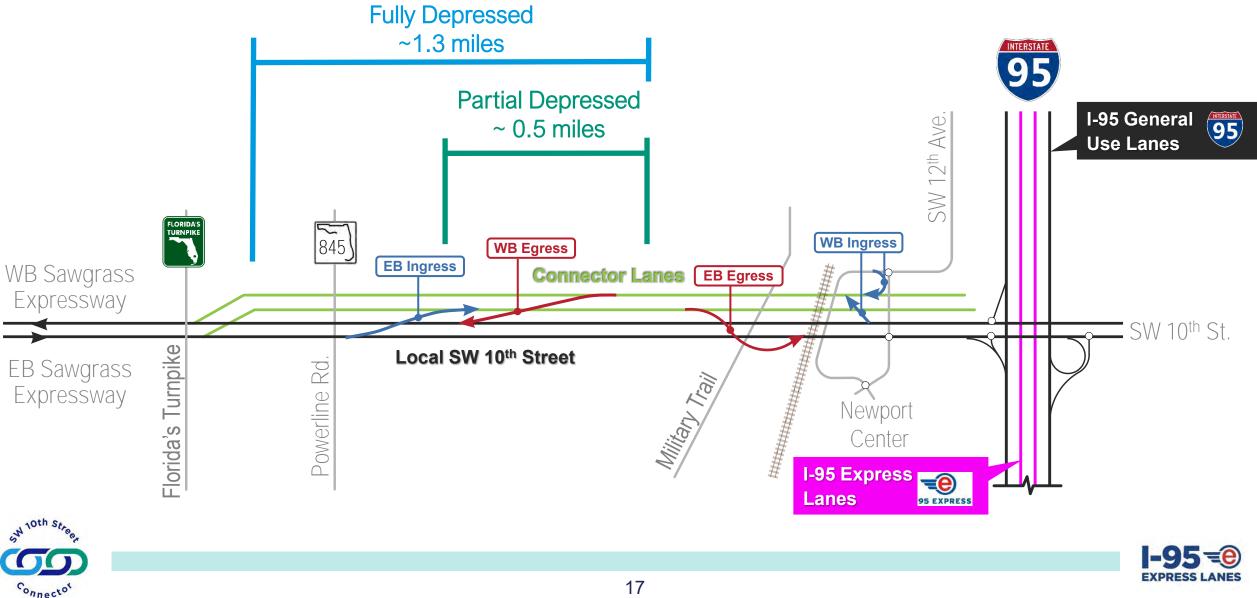
#### **Minimal benefits**

- Closest house on south is more than 230
  feet from the start elevation increase
- Century Village has expressed desire for noise wall



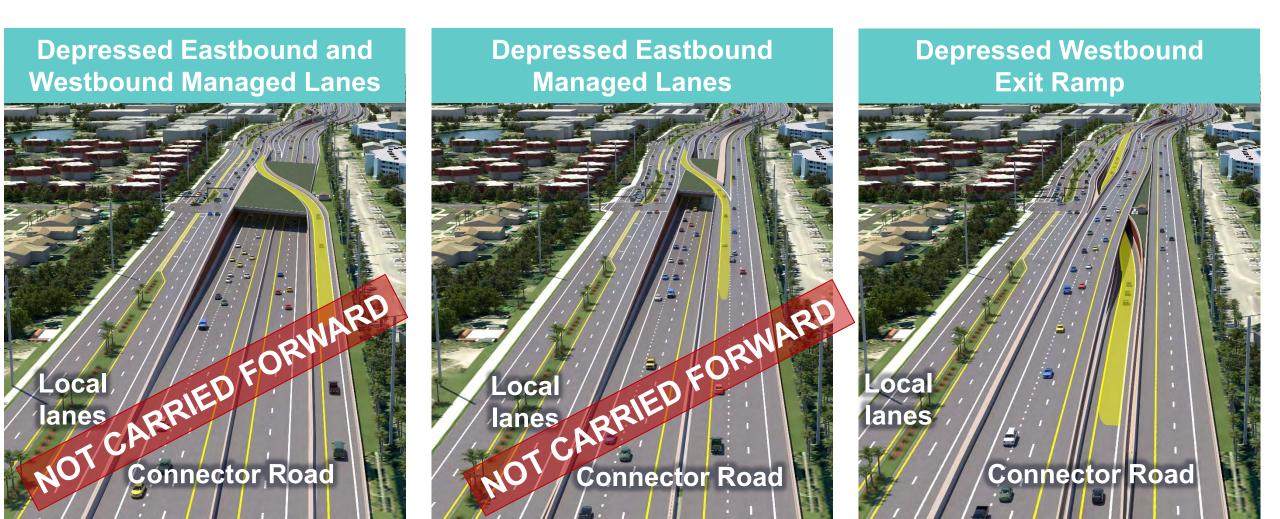


#### Length of Depressed Roadways Evaluated



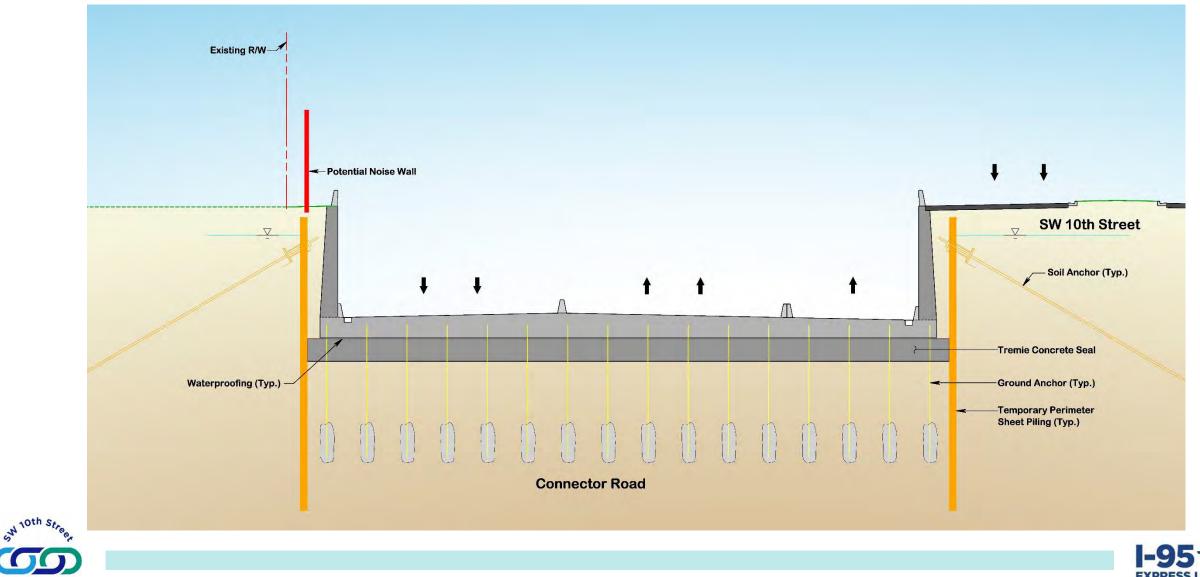
#### Alternatives Development – Partial Depressed Options

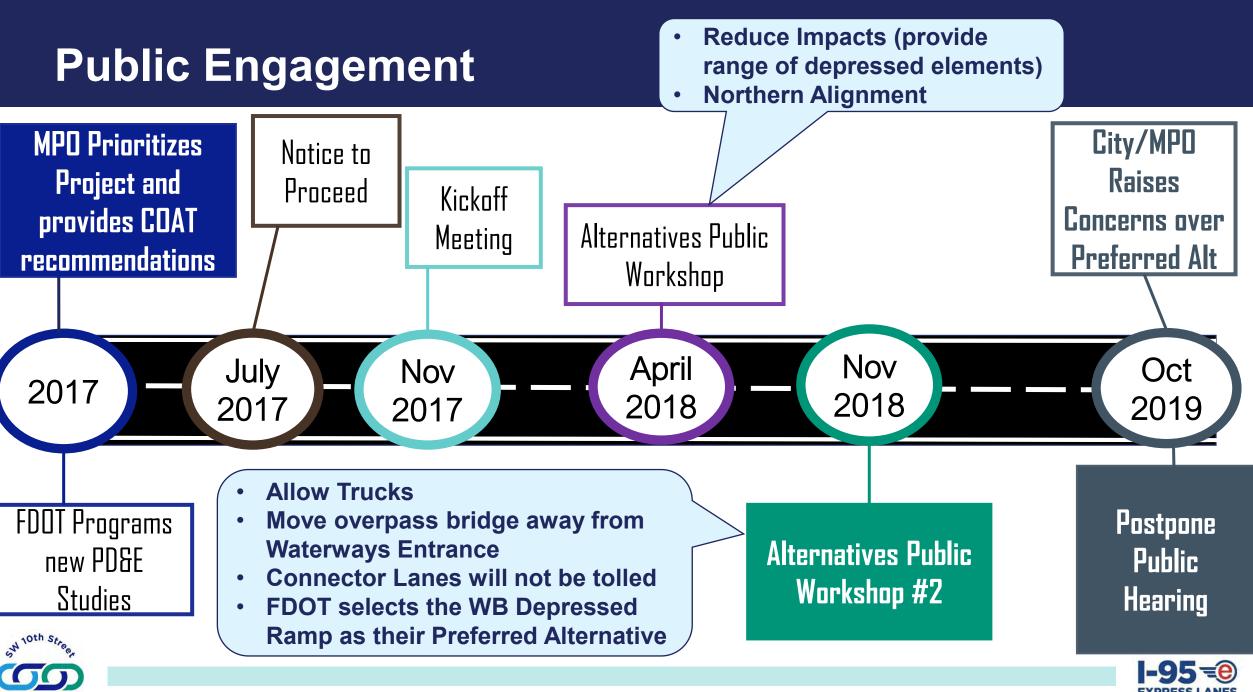
 Alternatives Public Workshop No. 2 - November 18, 2018 (additional alternatives to full depressed north alignment and at-grade with no local access)



#### **Depressed Section Challenges**

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### Addressing Concerns



<u>1. Does not connect to I-95 General Purpose Lanes</u> **PROPOSED SOLUTION – Project now includes connecting to both I-95 General Purpose Lanes and I-95 Express Lanes.** 





3. Not enough depressed section elements (Aesthetics & Noise) PROPOSED SOLUTION – FDOT has evaluated several depressed alternatives. Neither build option has an elevated roadway in the middle of the corridor near residences and landscaping and buffer areas have been enhanced in all build options.

4. Not enough green space PROPOSED SOLUTION – Additional green space has been added to all build options. One option adds an additional 30 feet of green space in the middle of the corridor and moves the road approximately 50 feet further away from homes.



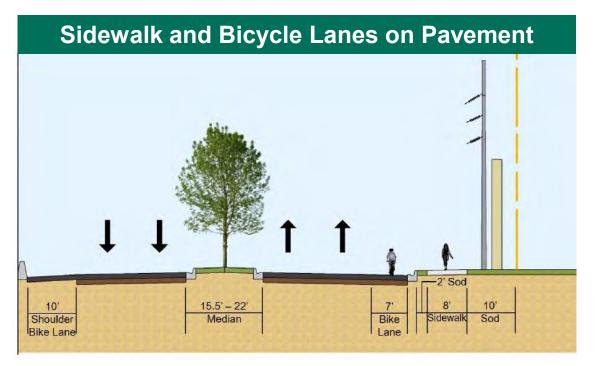
5. Does not provide full access to/from Turnpike from SW 10<sup>th</sup> Street Local PROPOSED SOLUTION – FTE has dropped its express lane concept for Sawgrass Expressway and will make a general use lane

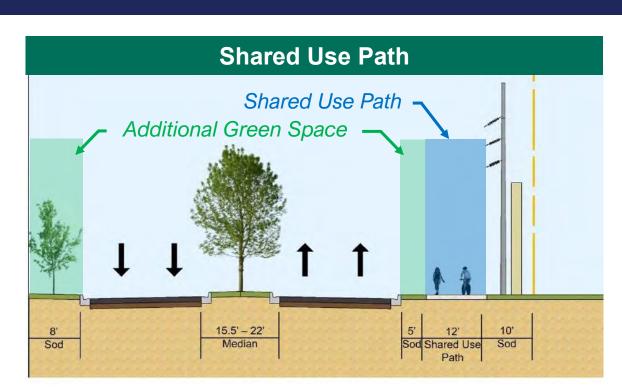
connection to the connector lanes from the south.





### Make Local 10<sup>th</sup> a Complete Street





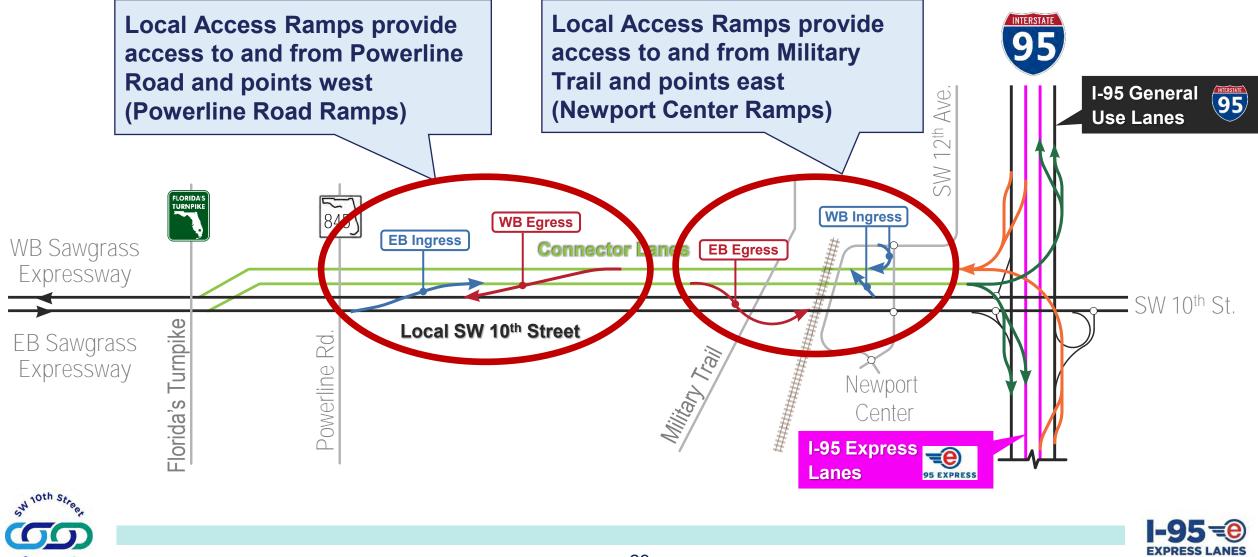
- Provides additional green space
- City concerned with bicycles interacting with local access ramps
- FDM now allows for removal of bike lanes on the pavement in lieu of shared use path
- City staff and officials very supportive of the change





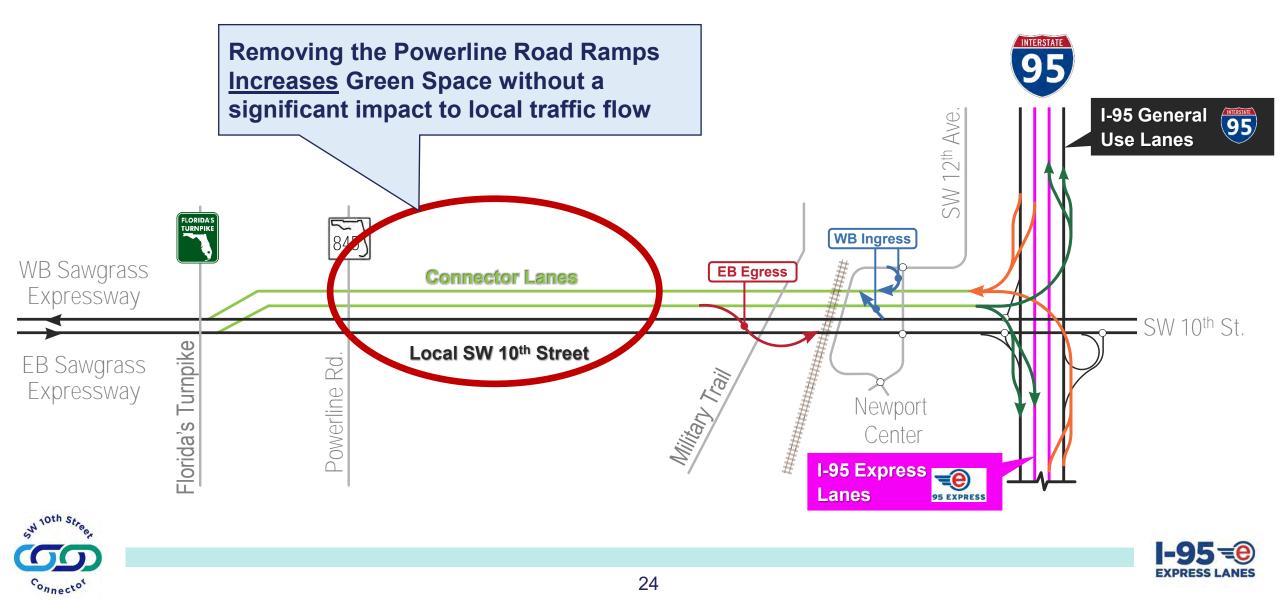
# Eliminate Local Access Ramps (to Increase Green Space)

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#### Eliminate Local Access Ramps (to Increase Green Space)

#### **Without** Powerline Road Ramps



#### **Alternatives Comparison**



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#### Alternative with the Local Access Ramps to and from Powerline Road

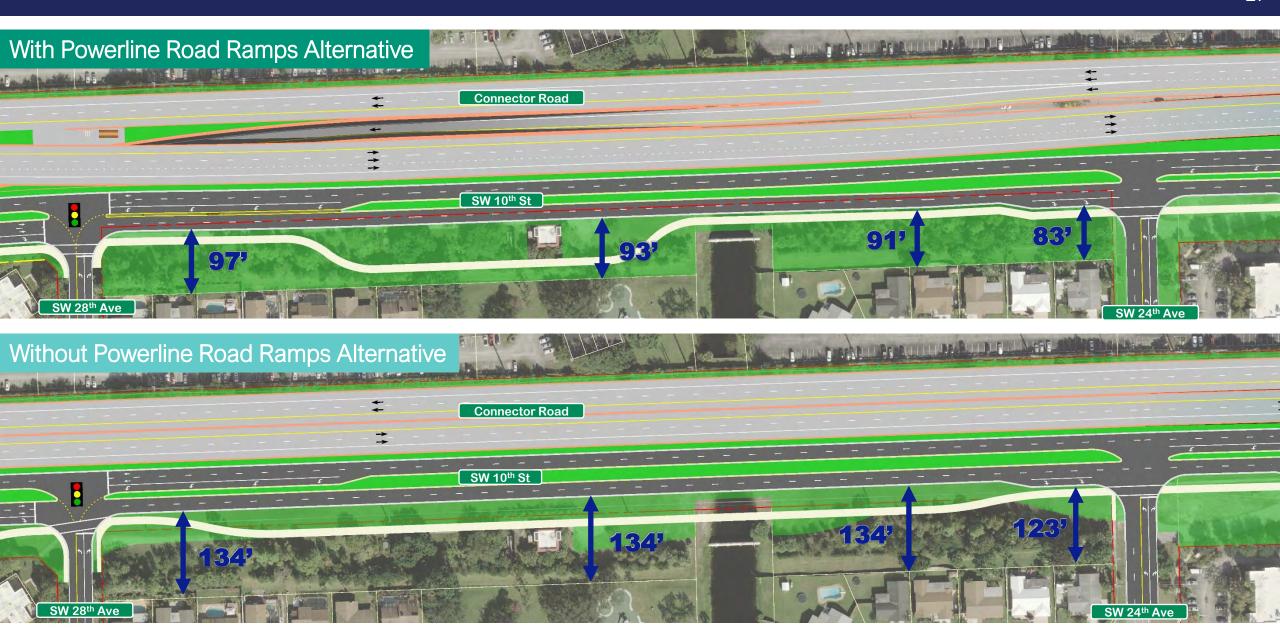


Alternative with No Local Access Ramps to and from Powerline Road

#### **Alternatives Comparison**



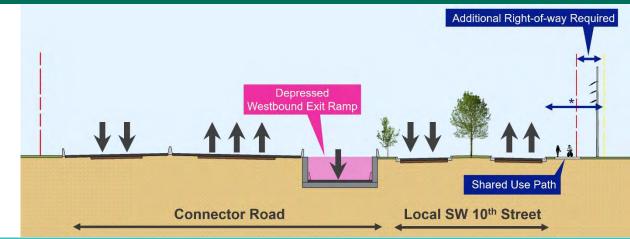
### Alternatives Comparison – Offsets from Property Lines 27



# **Typical Section Comparison**

#### <u>With</u> Powerline Road Ramps (between SW 30<sup>th</sup> Avenue and SW 24<sup>th</sup> Avenue)

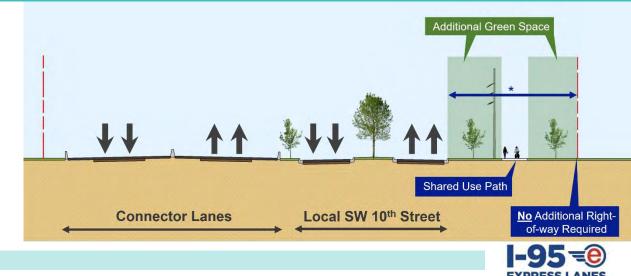
- Four-lane Connector Road and four-lane local SW 10<sup>th</sup> Street
- 12-foot Shared Use Path
- Four feet between curb and shared use path
- Requires additional right-of-way
- Approximate distance from curb to homes (\*):
  - Waterford Courtyard 50 feet
  - o Waterford Homes 90 feet



#### Without Powerline Road Ramps (between SW 30<sup>th</sup> Avenue and SW 24<sup>th</sup> Avenue)

- Four-lane Connector Road and four-lane local SW 10th Street
- 12-foot Shared Use Path
- Provides for an additional 30 feet of green space and buffer area from homes
- Approximate distance from curb to homes (\*):
  - o Waterford Courtyard 95 feet
    - Waterford Homes 125 feet





### **Alternative Comparison**

Renderings Shown East of SW 30<sup>th</sup> Ave – Looking East *(shown <u>without</u> noise walls)* 

#### With Powerline Road Ramps

- Four feet between curb and shared use path
- Requires additional right-of-way
- Requires relocating transmission poles on the south side
- Reduces local traffic peak hour 2040 design year volumes below current traffic level by -73% in the am and -52% in the pm
- Provides access to Connector Lanes for Powerline Road and western communities



#### **Without** Powerline Road Ramps

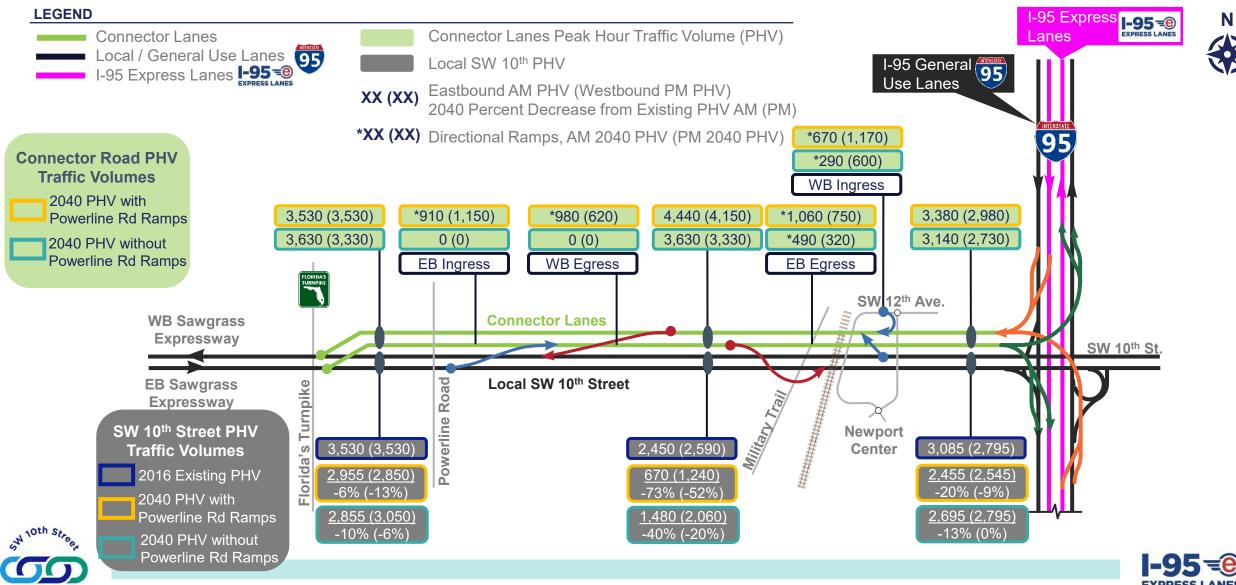
- Provides for an additional 30 feet of green space and buffer area from homes
- Reduces local traffic peak hour 2040 design year volumes below current traffic level by -40% in the am and -20% in the pm
- Does not provides access to Connector Lanes for Powerline Road and western communities





## **Peak Hour Traffic Volumes (Comparison)**

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#### **Rendering Comparison**

Renderings Shown East of SW 30<sup>th</sup> Ave – Looking East *(shown <u>without</u> noise walls)* 

#### **Without** Powerline Road Ramps







### **Rendering Comparison**

Renderings Shown East of SW 30<sup>th</sup> Ave – Looking East *(shown <u>without</u> noise walls)* 

#### **With Powerline Road Ramps**



#### **Without Powerline Road Ramps**







## **DRAFT - Preliminary Evaluation Matrix**



Evaluation Category		COAT Rec #s	No Build	With Powerline Rd. Ramps	Without Powerline Rd. Ramps
COAT Recommendation Categories					
A.	Safety	1, 2			
*	Aesthetics	4, 5, 11			
\$	Improve Traffic Flow	1, 3, 16			
ſ	Accessibility / Local Traffic Volumes	6, 7	•		
<b>(</b> ))	Noise	9			
<b>?</b>	Environmental Impacts	12, 14			
<u>A</u>	Construction Disruption	10, 15, 17, 18			
が法	Multi-Modal	8, 13	0		
	Additional Evaluation Criteria				
	R/W and Utility Impacts	-			
i,	Resiliency	-	•		
<b>E</b>	Construction Costs (\$ million)	-	N/A	\$690 to \$760	\$625 to \$700

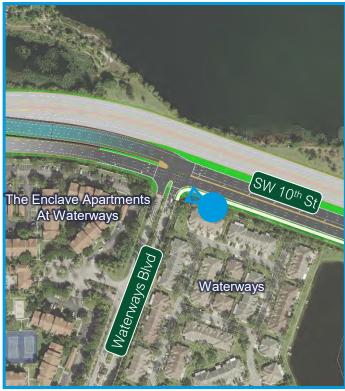




#### **Renderings – At Waterways – Looking West**



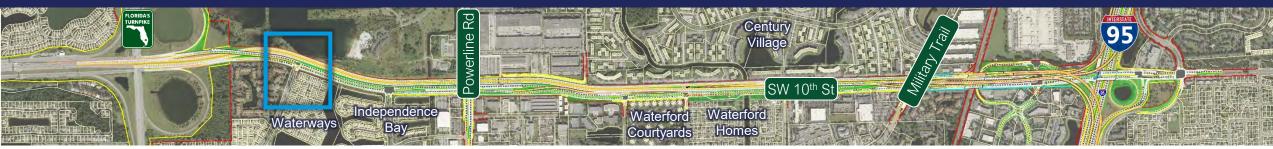






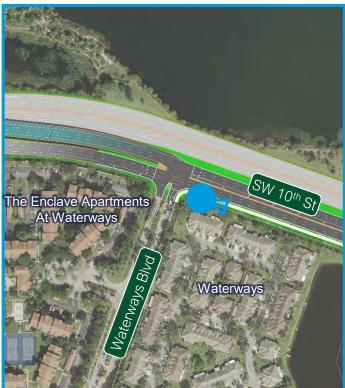


#### **Renderings – At Waterways – Looking East**









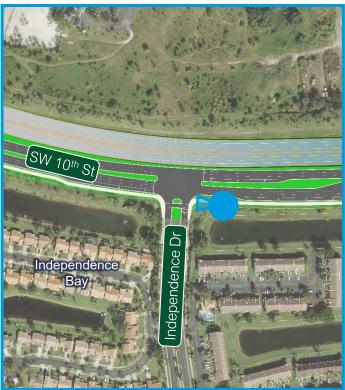


#### **Renderings – Independence Bay – Looking West**











#### **Renderings – Independence Bay – Looking East** *With Ramps to Powerline Rd*











#### Renderings – Independence Bay – Looking East Without Ramps to Powerline Rd











# Renderings – At Powerline Road – Looking North







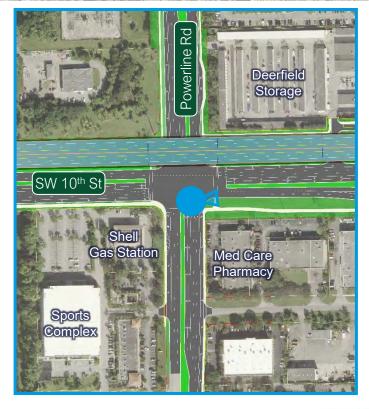




#### Renderings – At Powerline Road – Looking East With Ramps to Powerline Road











#### Renderings – At Powerline Road – Looking East Without Ramps to Powerline Road











#### Renderings – At SW 30<sup>th</sup> Ave – Looking East With Ramps to Powerline Road







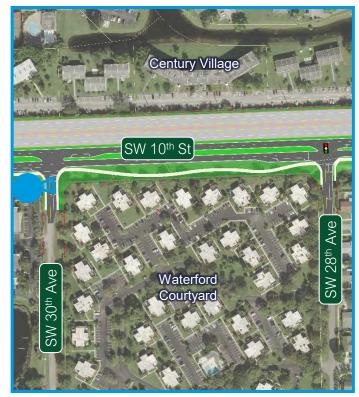




# Renderings – At SW 30<sup>th</sup> Ave – Looking East Without Ramps to Powerline Road











# Renderings – East of SW 30<sup>th</sup> Ave – Looking East With Ramps to Powerline Road











# Renderings – East of SW 30<sup>th</sup> Ave – Looking East *Without Ramps to Powerline Road*











#### Renderings – Waterford Courtyard – Looking West With Ramps to Powerline Road











#### Renderings – Waterford Courtyard – Looking West Without Ramps to Powerline Road











#### Renderings – 24<sup>th</sup> Ave – Looking West *With Powerline Road Ramps*











#### Renderings – 24<sup>th</sup> Ave – Looking West *Without Powerline Road Ramps*



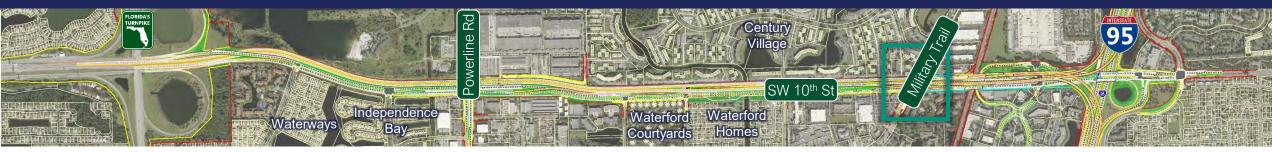








# **Renderings – Military Trail – Looking South**



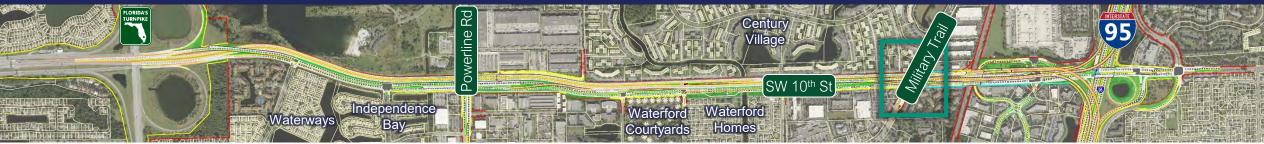






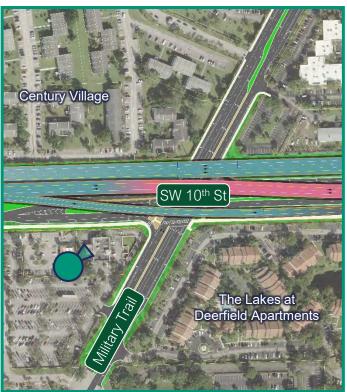


# **Renderings – Military Trail – Looking North**







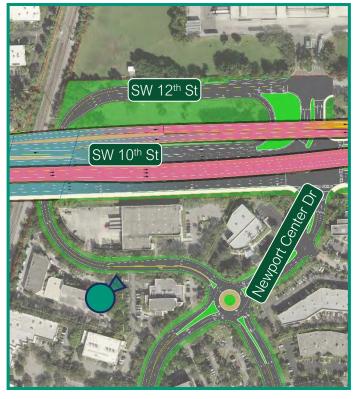




### **Renderings – Newport Center – Looking Northeast**











# **Renderings – I-95 Interchange – Looking South**











# **Renderings – I-95 Interchange – Looking Southwest**





N 10th Stre

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# **Renderings – I-95 Interchange – Looking West**











#### **Renderings – I-95 Interchange – Looking North**











# Waterford Homes Related Questions

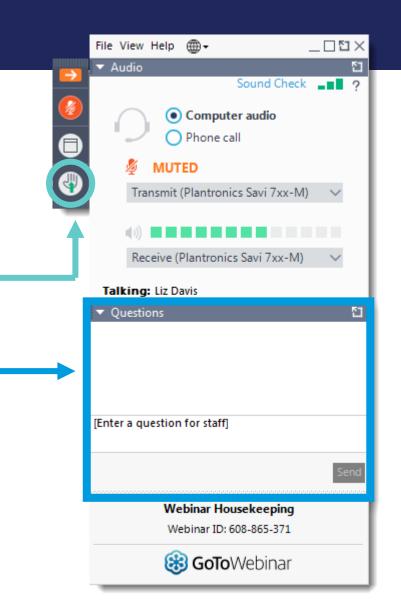
- Questions will be discussed by categories
  - Noise Community Traffic/Access Construction
- After initial discussion, we will call upon attendees in the order they raise their hands, and unmute them to discuss the specific category
- Time will be managed to cover all categories, so questions we are not able to receive during a category could be covered after all categories are covered and may extend the end time for those that wish to continue the meeting
- If you need additional information or would like to continue discussions after the meeting please contact the FDOT project manager or make a request through the project websites
  - www.sw10street.com
  - www.fdot.gov/projects/sr9/index.html





# Recap on how to ask questions

- Asking Questions and Providing Comments during meeting
  - Call 1-800-418-0524
  - Raise hand during specific Q&A Categories that you have a question or clarification, you will be unmuted in order of raising hands and as time permits
  - Submit via the question box







# Waterford Homes Q&A Categories

#### <u>Noise</u>

- Community (Features & Benefits)
- Traffic (and Access)
- <u>Construction</u>







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#### Noise

- How will our neighborhood be impacted by sound by the project?
- What is the proposed height of the noise walls?
- Would the noise walls be placed on the north or south side of the powerlines?
- How many feet from the property line (west side of Waterford Homes) are the proposed noise walls?
- Who will be voting for the implementation of the noise wall (geographically)?
- Would noise walls be constructed prior to construction?

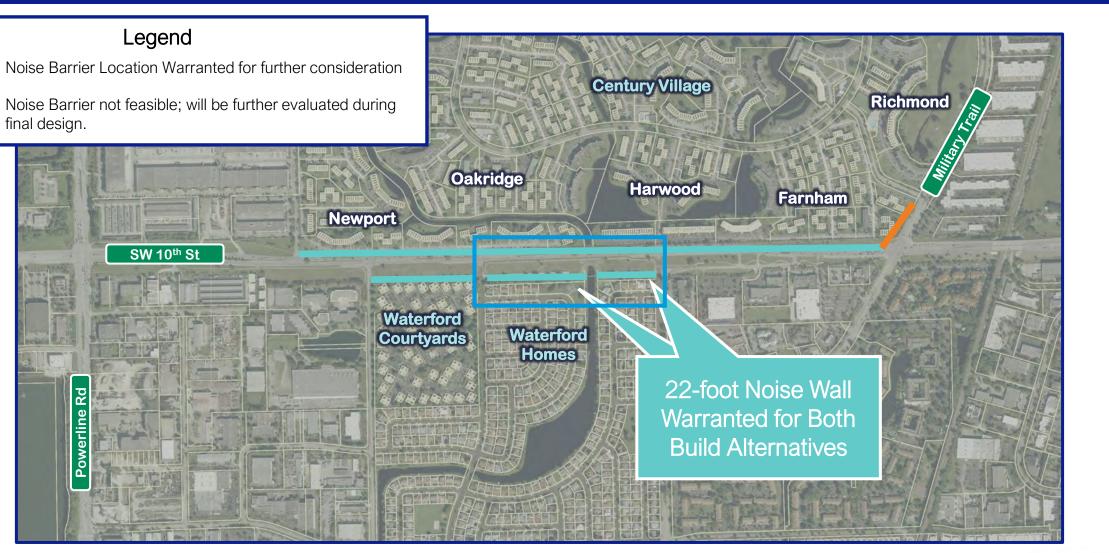






# **Potential Noise Barrier Locations**

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Noise

Community

Traffic

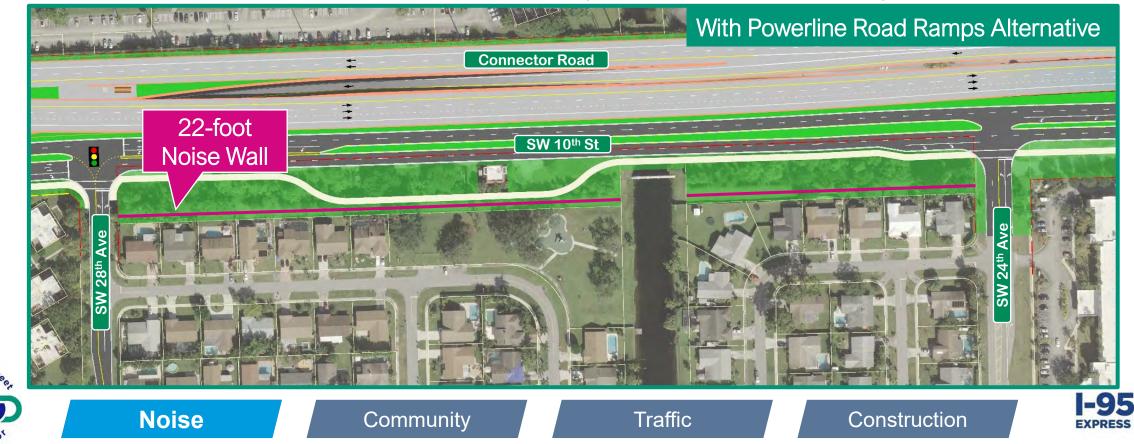
Construction



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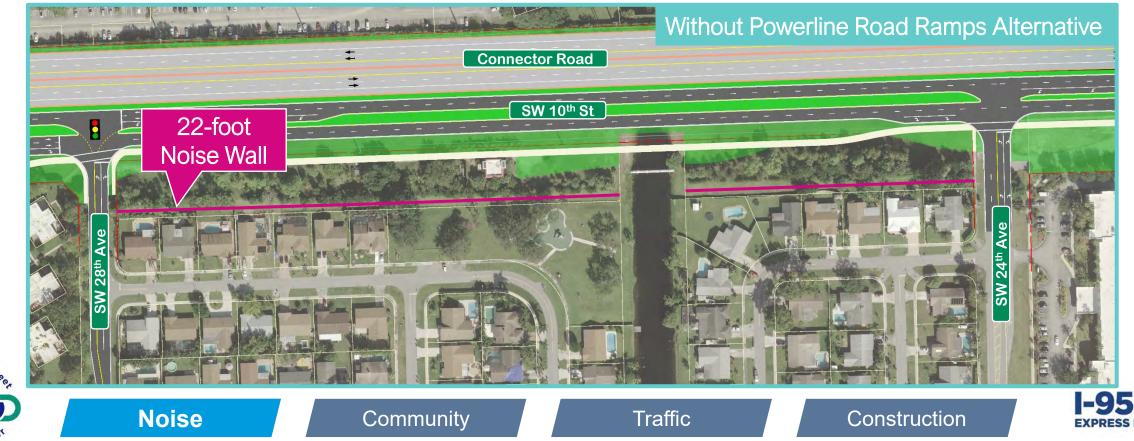
- Noise walls are typically constructed approximately four feet from property line
- Ground Mounted Noise Walls can range in height from 14' to 22', it is anticipated that the noise walls will be 22' tall in front of Waterford Homes
- We anticipate the FP&L poles to be on the roadside (north of the anticipated wall)



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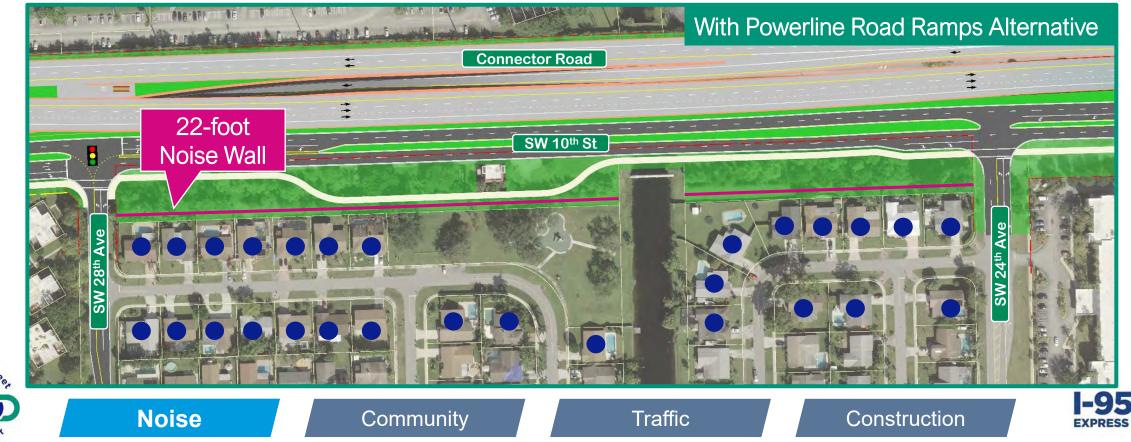
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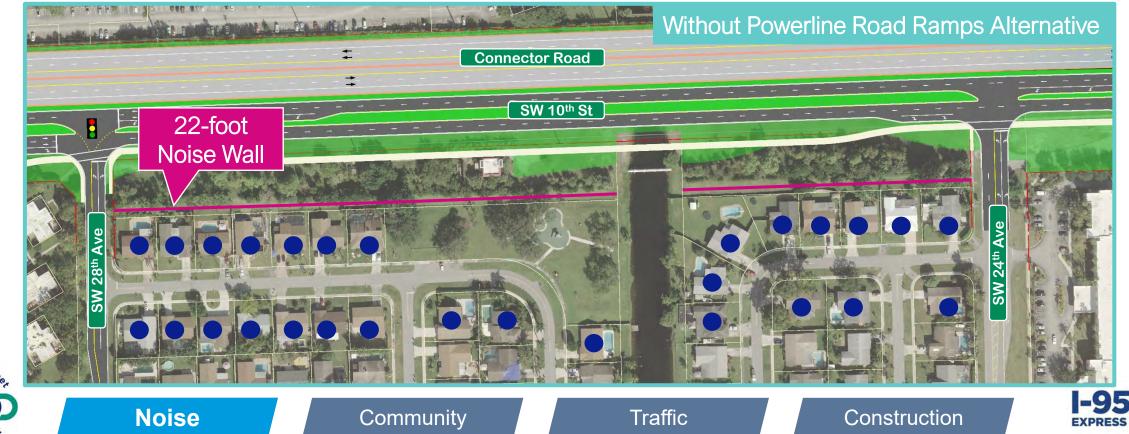
- Difference in noise levels at the residences are negligible between alternatives with noise walls
- <u>If noise walls are not constructed</u>, the noise levels will be approximately 1 decibel higher in the With Ramp Alternative (Both Build Alternatives would be 5 to 7 decibels higher than existing conditions)
- Typically those in the 1<sup>st</sup> or 2<sup>nd</sup> row of homes would be eligible to vote for the noise wall (28 homes)



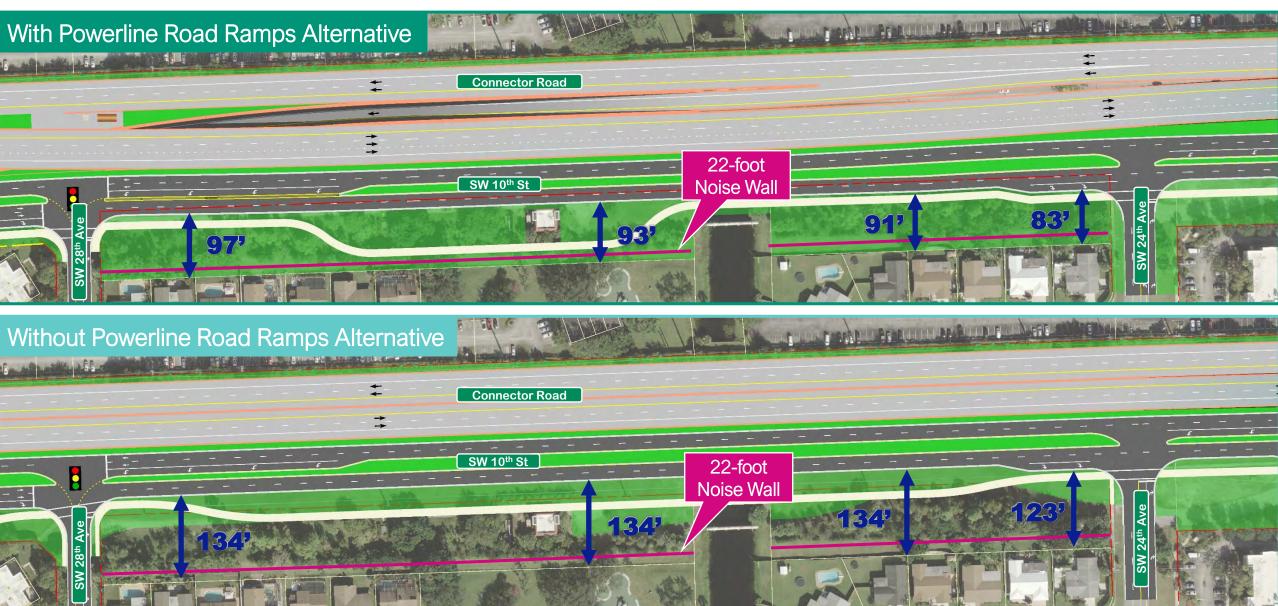
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#### Alternatives Comparison – Offsets from Property Lines



#### Renderings – Looking West With Powerline Road Ramps

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Noise

Community

Traffic

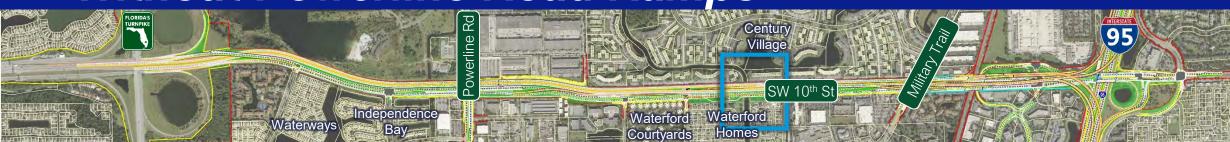




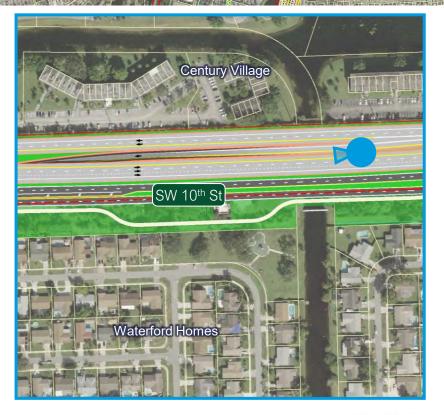
#### Renderings – Looking West Without Powerline Road Ramps



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Noise

Community

Traffic





#### **Noise Evaluation Process - Aesthetics**

- Noise Barrier Aesthetics
  - Heights, limits, color, and texture will be coordinated with the City and Community during Final Design







Noise

Community







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# **Community Features**

- Green space should be mandatory. Would like to see a more "Complete Street" that is pedestrian and bicycle friendly.
- How will this impact pedestrian access and safety?
- Will there be a safe walking area and bicycle path?
- Do the powerlines on the south side of SW 10<sup>th</sup> Street between Powerline Road and Military Trail need to be moved?
- At what point do the alternatives become the same as you go east?







# **One Corridor, Dual Facilities**

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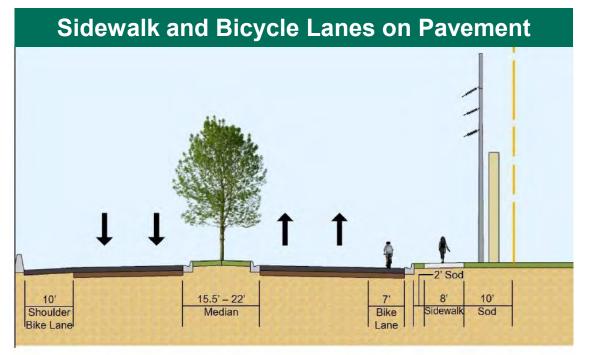
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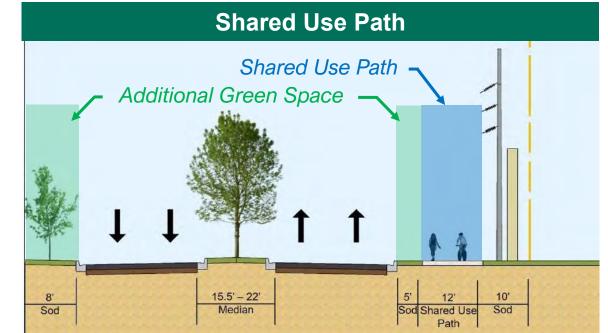
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Typical Section Looking East (without local access ramps)



# Make Local 10<sup>th</sup> a Complete Street





- Provides additional green space
- City concerned with bicycles interacting with local access ramps
- FDM now allows for removal of bike lanes on the pavement in lieu of shared use path
- City staff and officials very supportive of the change

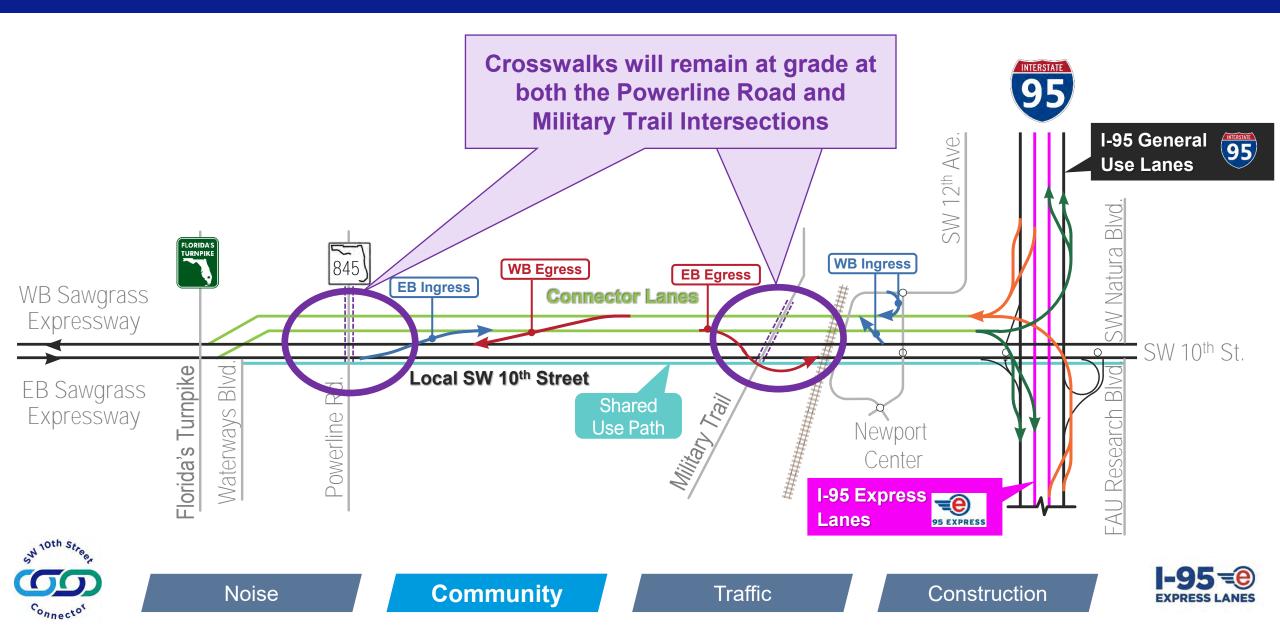








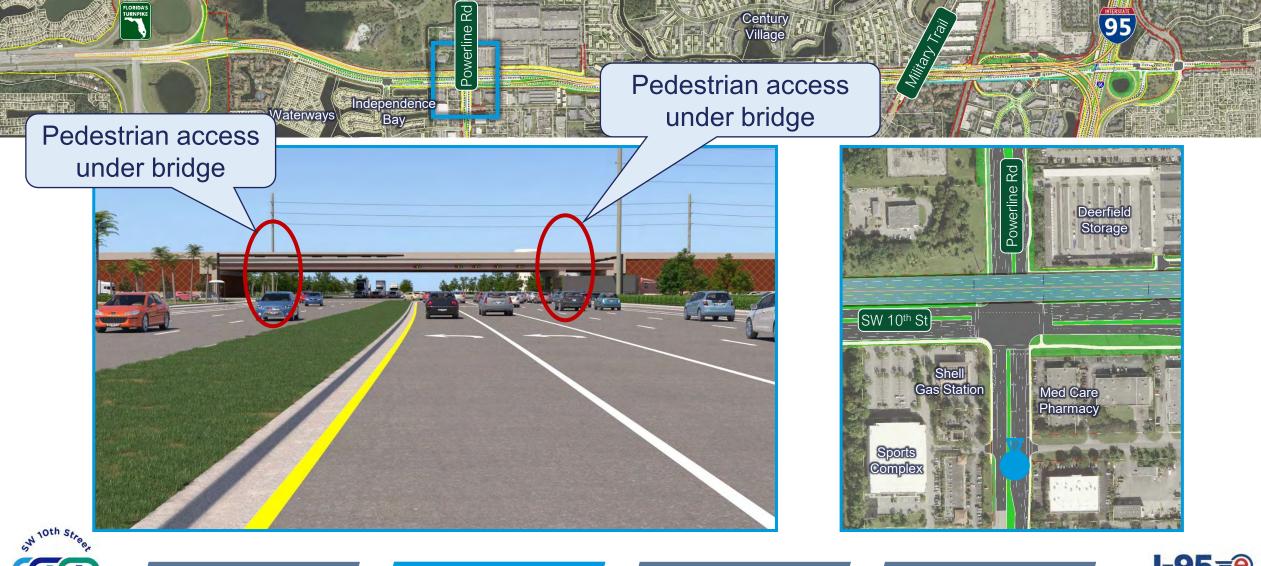
### **Bicycle and Pedestrian Connections**



**Q&A** Categories

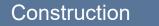
#### Renderings – At Powerline Road – Looking North

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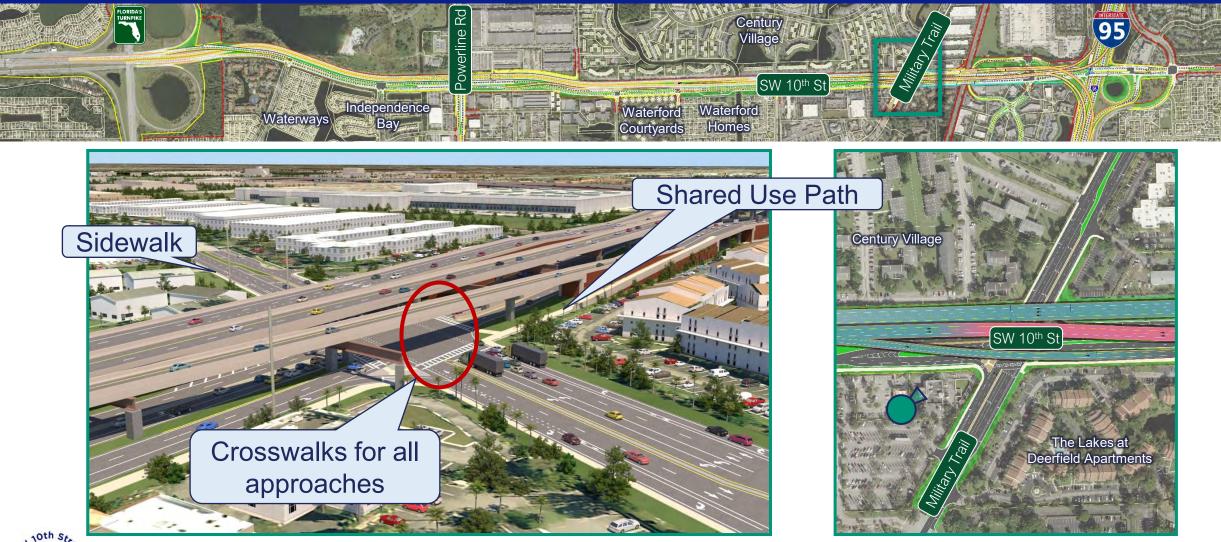
Community



# **Renderings – Military Trail – Looking North**

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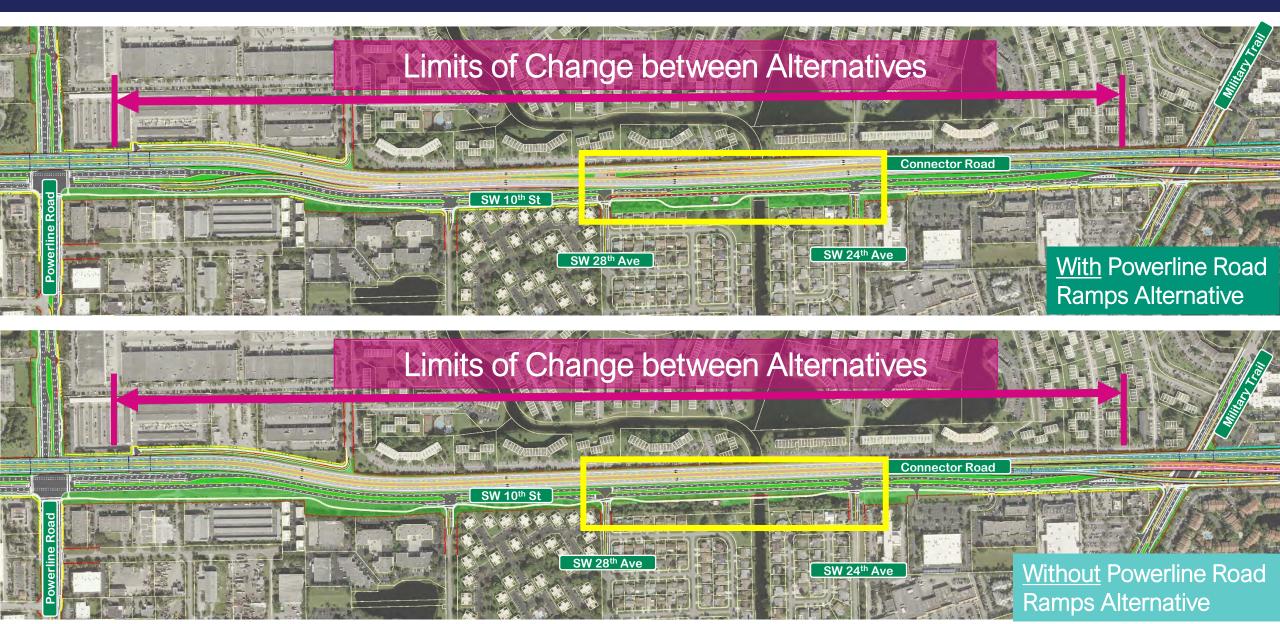


Noise

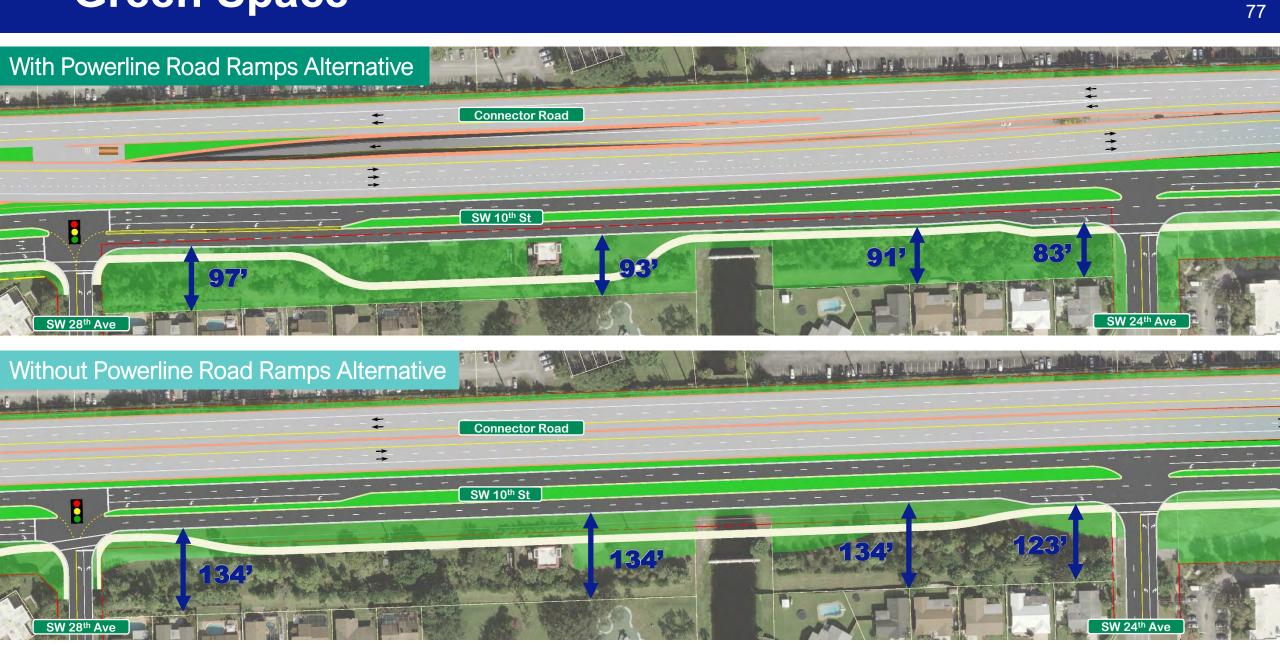
Community



#### **Alternatives Comparison**



#### **Green Space**



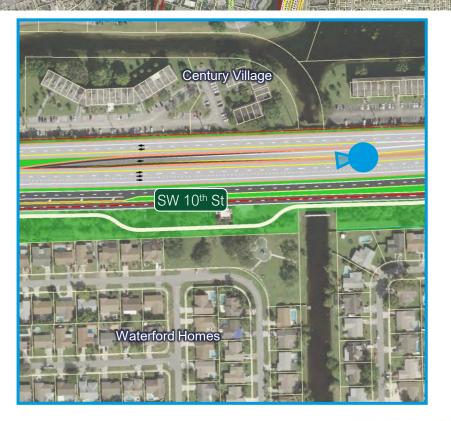
#### Renderings – Looking West With Powerline Road Ramps

95

78









Noise

Community

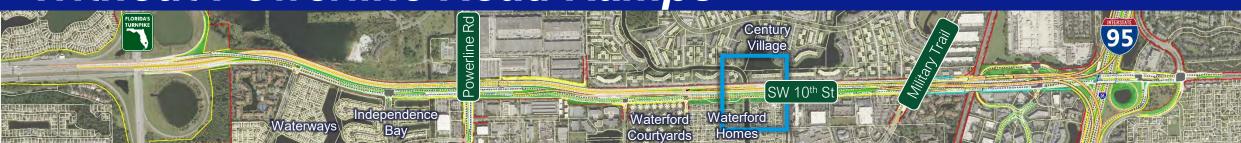




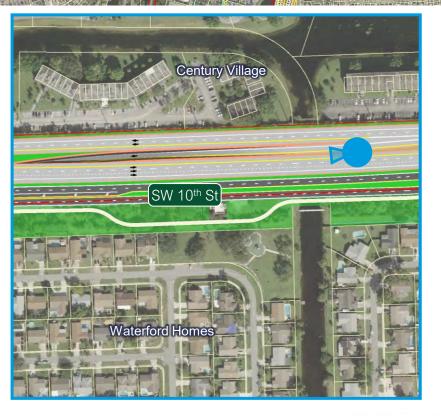
#### Renderings – Looking West Without Powerline Road Ramps

**Q&A** Categories

79









Noise

Community





- What does the No-Build Alternative include? Is there an interim plan to relieve traffic (i.e. 6 lanes)?
- Is there consideration for the Connector Road to have one-lane in each direction?
- Will both SW 28<sup>th</sup> Avenue and SW 24<sup>th</sup> Avenue have access to local SW 10<sup>th</sup> Street? And be able to go both east and west?
- How will our entrance look on SW 28<sup>th</sup> Avenue? Will there be a structure / entrance for Waterford?
- Will there be egress at SW 28<sup>th</sup> Avenue?
- Due to COVID-19, we have seen a dramatic increase in people working from home. Has anyone analyzed the decrease in traffic and is this Connector really necessary if work-from-home continues?
- Are bus only lanes being considered?







## Alternative Analysis including the 'No-Build Alternative'

- The No-Build Alternative serves as the baseline, or benchmark against which the Build Alternatives are evaluated. The No-Build Alternative is defined as the alternative in which the proposed project activity would not take place.
- Build Alternatives must meet the Purpose and Need for the Project.
- The No-Build Alternative does not meet the Purpose and Need for the project but will remain in consideration throughout the PD&E process.
- If No-Build Alternative is selected as the Preferred Alternative there is no interim plan to address traffic issues. The No-Build Alternative does not include any additional capacity / lanes.
- One lane in each direction of the Connector Road will not meet the future demand for the corridor and was therefore not considered as a viable alternative.
- Adding lanes to the Local Road only will not meet future demand or improve the current congestion as well as not meet the Purpose and Need for the project.







#### Intersections – Same Movements that Exist Today HALL BRANK LL BENKLULINAS PULLING LL MISSE

82

With Powerline Road Ramps Alternative

**Connector Road** 



#### SW 28<sup>th</sup> Ave

SW 24<sup>th</sup> Ave



## **Transit Considerations**

• Bus only lanes are not being considered as this corridor does not serve a bus route other than local bus service and according to Broward County Transit, a future bus routes is not proposed.



#### EAST/WEST ROUTE Weekdays Only Broward (10)SUPER Court BCT 48 House HILLSBORO BLVD. HILLSBORO BL CENTURY PLAZA BLVI GOOLSBY DIXIEHWY TURA BLVD. Quiet Waters Park SW 12 AVE B'NAI BRITH **APARTMENTS** BCT 50 BCT 14 BRANDS PALM TRAIL PLAZA S.W. 10 ST. S.W. 10 ST. WALMART NEIGHBORHOOD MAR



Noise

Community

#### Traffic

CITY OF DEERFIELD BEACH EXPRESS I

Construction



**Q&A** Categories

84

#### **Construction**

- This project will be very impactful to our neighborhood. What are the plans for how we are going to get into our community during construction?
- How close will construction come to Waterford?
- How will we get onto SW 10<sup>th</sup> Street from SW 28<sup>th</sup> Avenue to get to Powerline Road or Military Trail when construction starts?
- At what point during construction would the sound wall be built?
- What is the timeline for construction and order of events?
- How much will we be hearing and feeling as the project begins?
- Will our homes be surveyed for damage? If there is an existing foundation crack, how will further damage be prevented? (Many homes are settling, and this project could cause issues)







## **Construction Information**

- ties will have **temporary** air noise, water quality traffic flow, and visual impacts for
- Construction activities will have temporary air, noise, water quality, traffic flow, and visual impacts for those residents and travelers within the immediate vicinity of the project.
- Impacts will be minimized by adherence to applicable state regulations and to applicable FDOT Standard Specifications for Road and Bridge Construction
  - Air pollution associated with the creation of airborne particles will be effectively controlled using watering or the application of calcium chloride.
  - Water quality impacts resulting from erosion and sedimentation will be controlled in accordance with FDOT's Standard Specifications for Road and Bridge Construction and using BMPs.
  - Stormwater pollution prevention measures will be developed per FDOT standards and in accordance with National Pollutant Discharge Elimination System (NPDES) permit requirements.
  - Dust will be controlled by wetting, covering, or other means as approved by the Engineer.
  - Vibration Monitoring When specified in the plans, continuously monitor and record ground vibrations levels near the structures specified during the operation of any equipment causing vibrations. Vibration monitoring equipment capable of detecting velocities of 0.01 inches per second. If vibration level reach 0.5 inches per second, or damage to the structure, immediately stop, and submit corrective action plan.







# **Construction Information**

- All residences and businesses that currently have access to SW 10<sup>th</sup> Street will retain access to local SW 10<sup>th</sup> Street during construction
- FDOT commits to constructing ground-mounted noise walls that are warranted and desired by a majority of the benefited residents as early as possible in the construction phase.
- Monitor the work zone with Bluetooth, and cameras, use adaptive signal control to manage congestion, notify drivers of delays using dynamic message signs, email, text, social media, and radio.
- More detail on construction phasing will be available in next phase



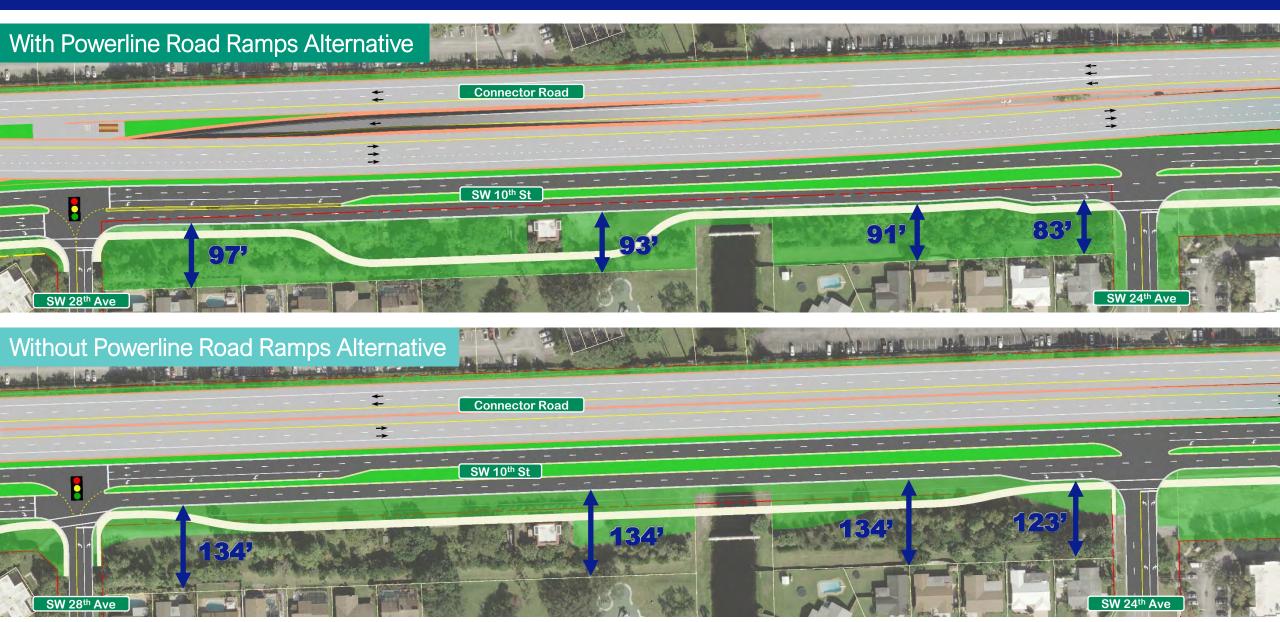






**Construction** 

#### **Alternatives - Offsets to Property Lines**



# Next Steps - Public Engagement Plan (SW 10<sup>th</sup> & I-95)

- Summer / Fall
  - Additional Individual HOA and Stakeholder Virtual Meeting in combination with face to face when permitted
  - Continued Coordination with City of Deerfield Beach
  - Social media updates / flyers
  - Elected Official Meetings
  - City Updates
  - Public Hearing (Anticipated in September)
  - Location Design Concept Acceptance (LDCA) (Anticipated Spring 2021)
  - Construction Funding in Fiscal Year 2023





#### Schedule

Project	2017		2018									2019										2020										2021			
Milestones	S O N	D J	F	A N	м	JJ	А	s c	D N	D	J	F	М	А	M J	J	Α	s	0	N D	J	F	м	AN	I J	J	A	s	0	N	D J	F	м	A M	ΛJ
Public Engagement																																			
Kickoff Meeting																																			
Engineering Analysis																																			
Environmental Analysis																																			
Alternatives Public Workshop #1																																			
Alternatives Public Workshop #2																																			
Project Update Webinars																									* *	•									
Public Hearing																																			
Location Design Concept Acceptance																																			





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www.fdot.gov/projects/sr9/index.html

