

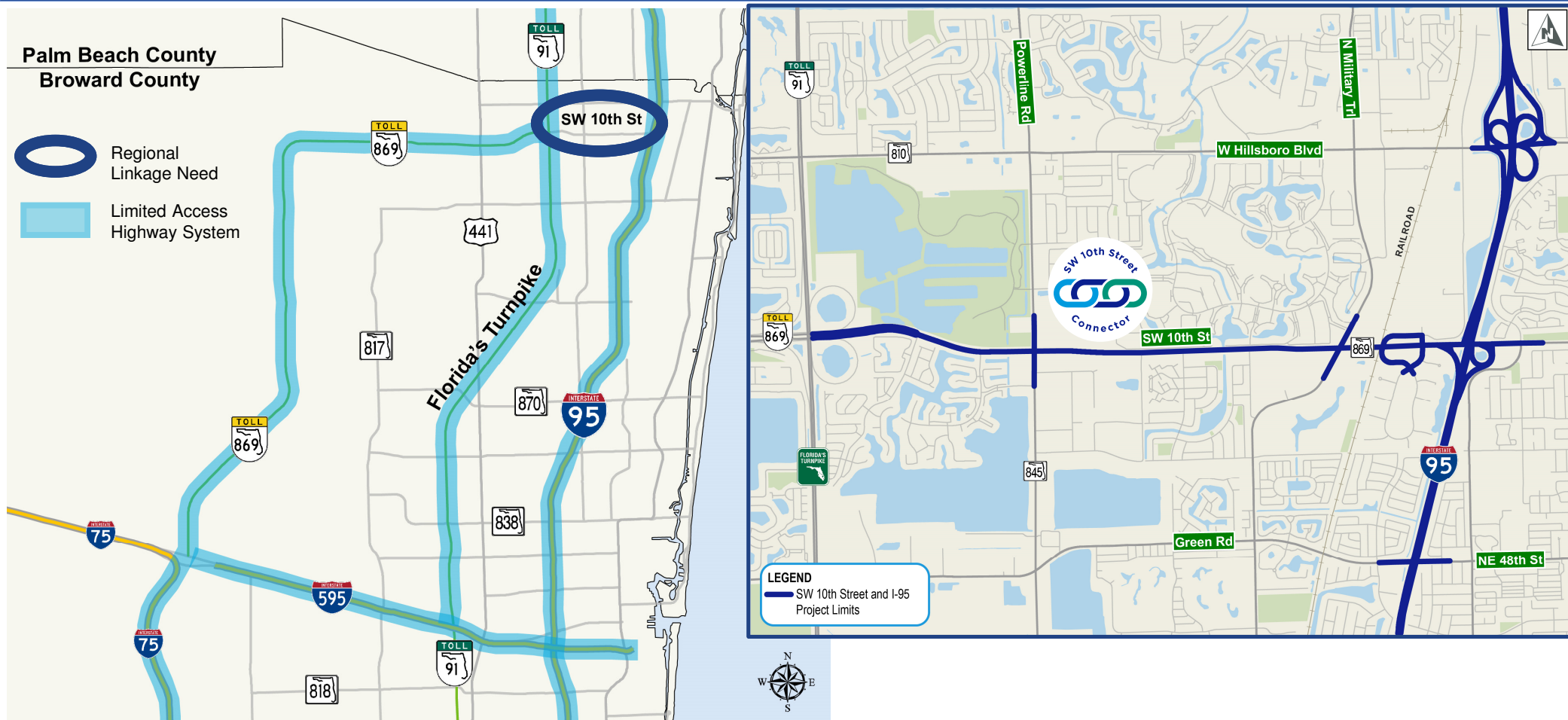


FDOT District Four SW 10th Street Connector Projects

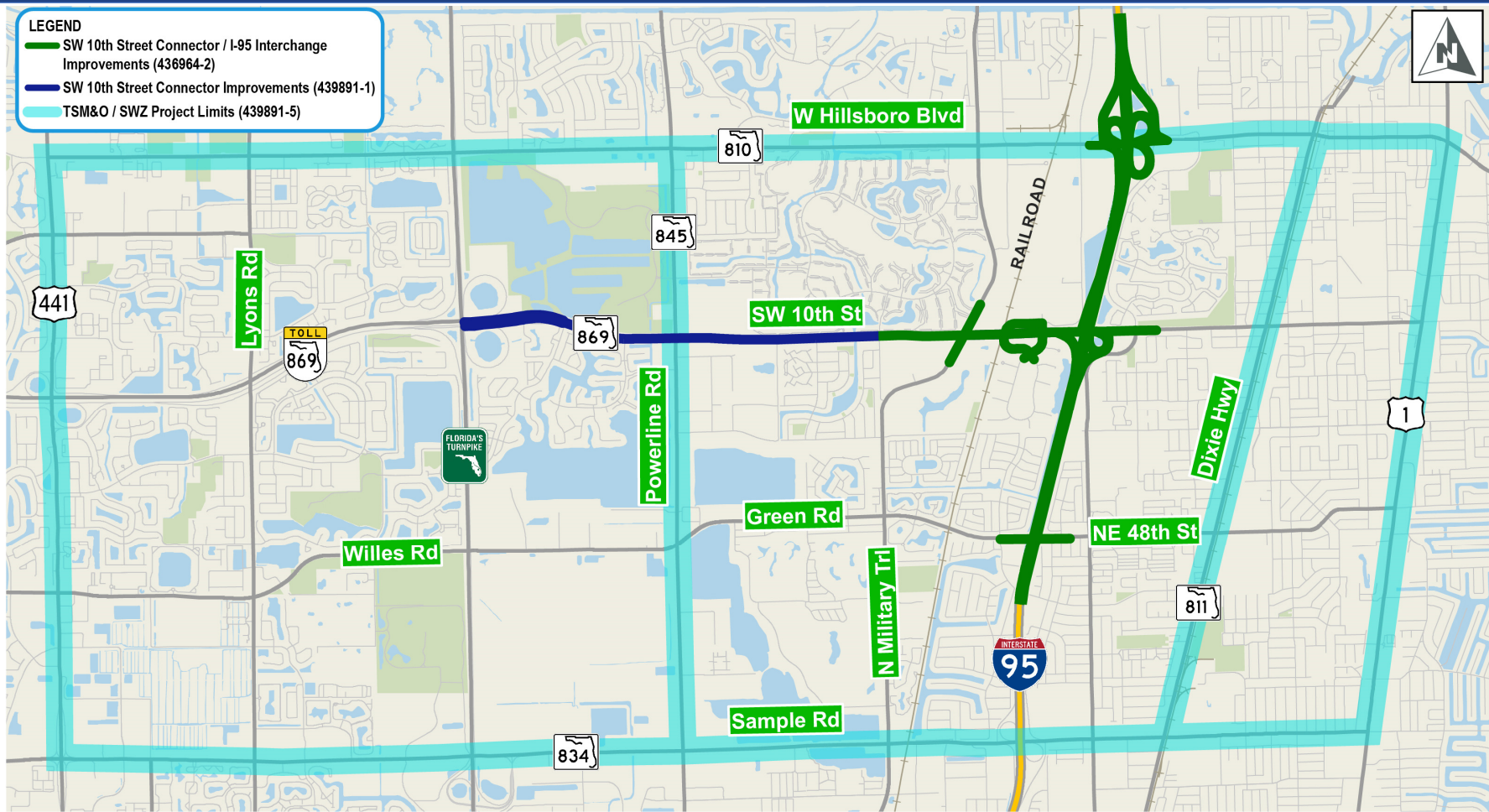
Presentation to Century
Village East, Hosted by City of
Deerfield Beach
Commissioner Parness

04/25/2022
Vanita Saini, PE
District Four Project Manager

SW 10th St Connector – Overall Program Summary



SW 10th Street Connector – Overall Program Summary

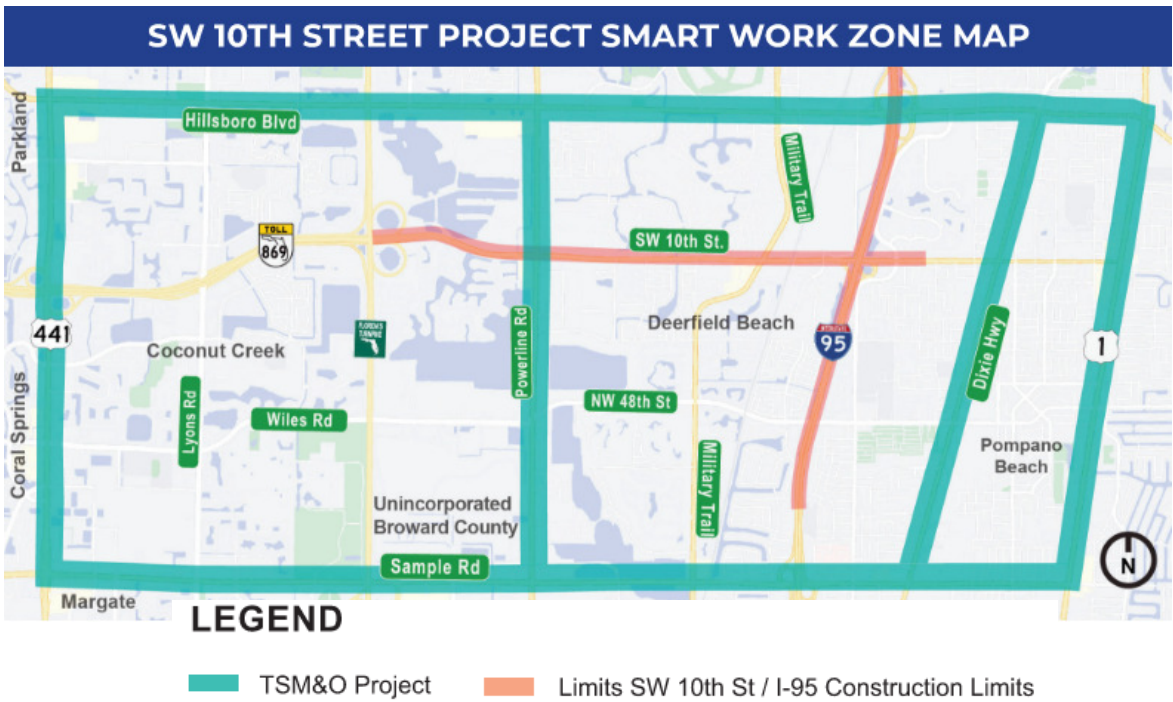


SW 10th Street Connector – Transp. System Management & Operations (TSM&O)

- Objective is to support safety and mobility within the vicinity of the SW 10th Street Connector and Local SW 10th Street Roadway, and regional arterial traffic operations during and after construction

Smart Work Zones will be built-out with technology to:

- Help motorists make informed decisions on the most efficient route through and around the work zone
- Advise of potential congestion and major construction activities in advance



SW 10th Street Connector – Transp. System Management & Operations (TSM&O)

EXAMPLES OF TECHNOLOGY THAT WILL BE USED ARE:



- ✓ Overhead Dynamic Message Signs providing real-time travel information
- ✓ High definition Closed Circuit TV Cameras
- ✓ Fiber communications network
- ✓ Vehicle Detectors
- ✓ Connected vehicle technology which enables vehicles to receive notifications directly from the Transportation Management Center and “talk” to each other

LONG-TERM BENEFITS



Continued support for regional traffic operations after construction



Real-time signal timing adjustments based on demand and capacity



Enhance infrastructure readiness for future technology expansion

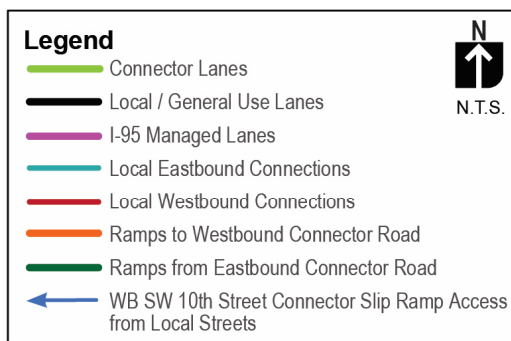


Expansion of network coverage of the Advanced Transportation Management System in Broward County

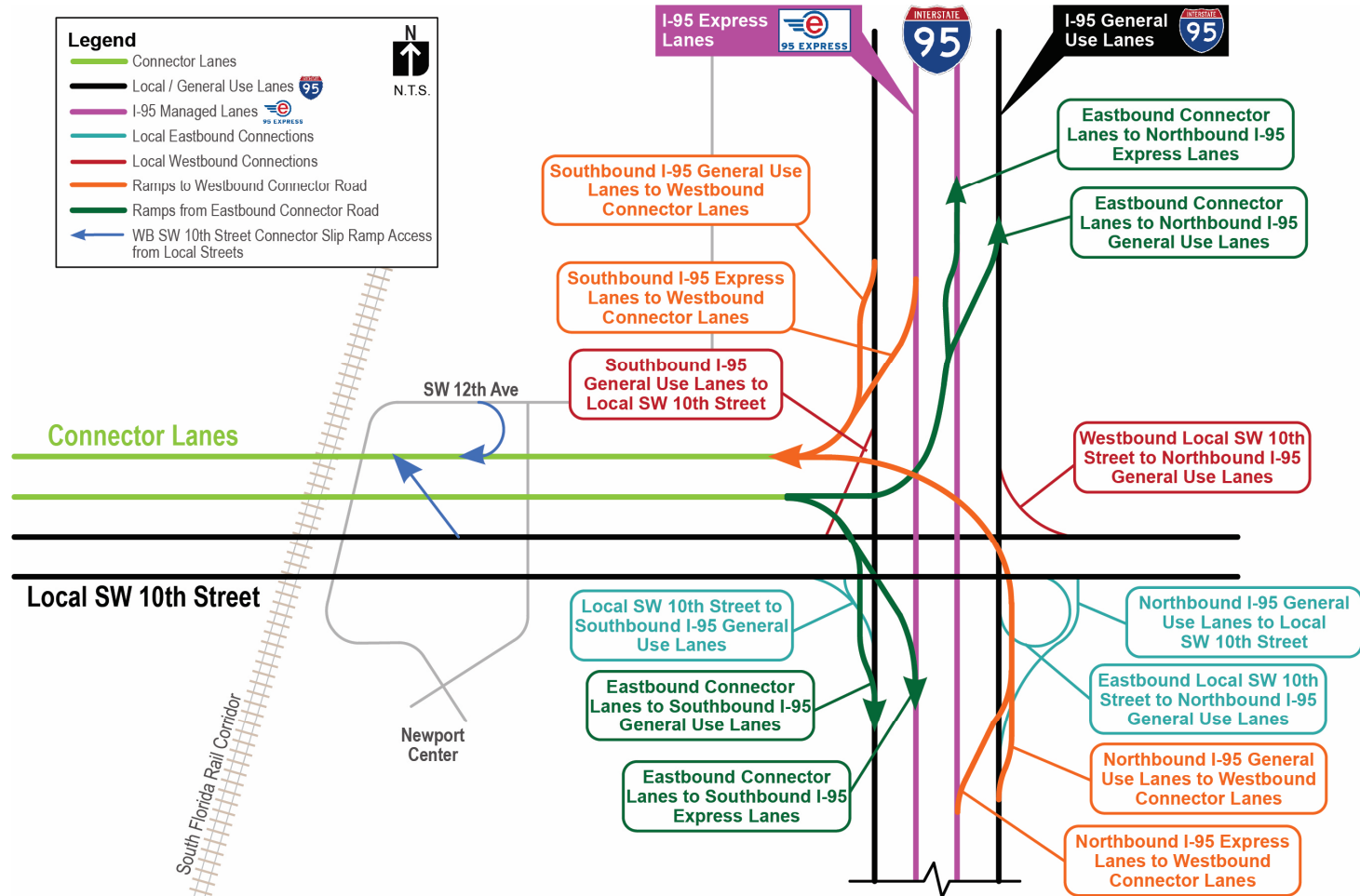


Smartphone Application for direct information dissemination

SW 10th Street Connector Project (436964-2 and 439891-1)



SW 10th Street Connector / I-95 Interchange (436964-2-52-01)



SW 10th St Connector / I-95 Interchange – Looking West



SW 10th Street Connector / I-95 Interchange at Military Trail



SW 10th Street Connector / I-95 Interchange - Roadway

- Addition of second Northbound and Southbound 95 Express Lane between north of Sample Road and north of Hillsboro Boulevard
- Miscellaneous local roadway improvements to Military Trail, Newport Center Drive, and SW 12th Avenue



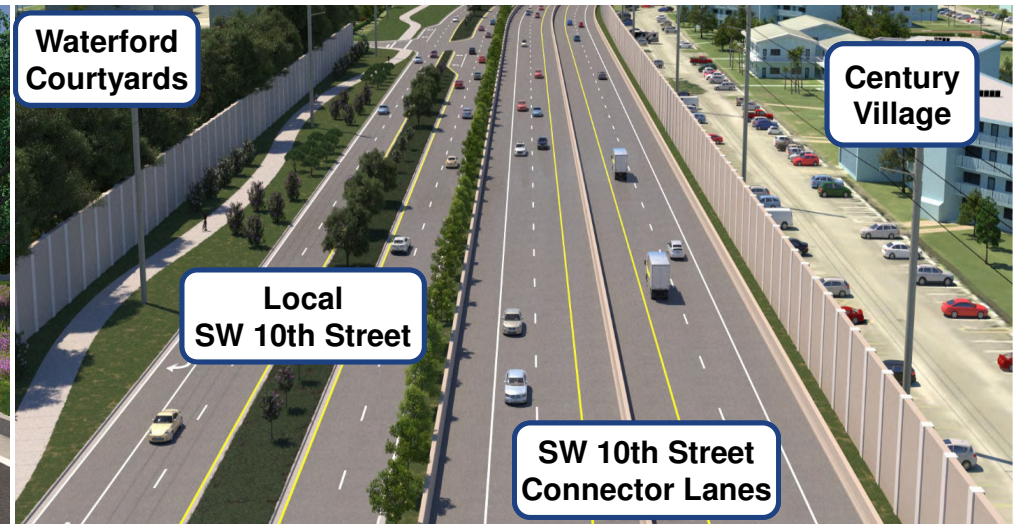
Trees Shown At Maturity

SW 10th Street Connector - Roadway

- New four lane limited access SW 10th Street Connector lanes between Sawgrass Expressway and I-95
- Reconstructed local SW 10th Street with access accommodation for all existing properties and cross-streets
- Miscellaneous local roadway improvements to Powerline Road and minor work on local cross streets



Trees Shown At Maturity



Noise walls shown pending public survey

SW 10th Street Connector – City of Deerfield Beach Coordination

- Aesthetic Plan and Alternatives for City Commission/Community Preferences
 - Bridge Structures
 - Retaining Wall Colors / Form Lining Treatments
 - Landscape Master Plan (installation after Highway/Bridge construction project)
 - Noise Wall Colors / Form Lining Treatments
 - Pedestrian Scale Lighting for local SW 10th St Shared Use Path

SW 10th Street Connector – Century Village Noise Walls

- Predicted noise levels for future traffic conditions
- Determined location of potentially reasonable and feasible noise walls
- Two segment noise barrier system recommended
- 22-foot Tall Ground Mounted Noise Wall
 - From Quiet Waters Business Park to west of Military Trail
- 8-foot Tall Shoulder Mounted Noise Wall
 - Along the proposed outside shoulder of the westbound SW 10th Street Connector lanes that will be elevated in the vicinity of Military Trail.

SW 10th Street Connector – Century Village Noise Walls



Pending final analysis and noise survey.

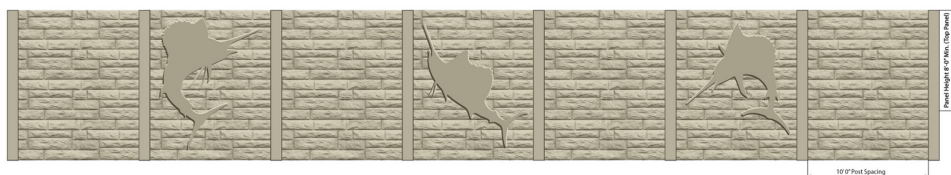
SW 10th Street Connector – Century Village Noise Walls

- Noise Barrier Surveys
 - Input from benefited properties will be used to determine support for noise walls
 - A benefited property is defined as those that would receive at least 5 decibels of noise reduction
 - Survey options:
 - Recommended Noise Barrier
 - No Noise Barrier
 - Survey anticipated to be sent out Summer 2022 to the benefited properties
 - Survey recipients will have two (2) weeks to respond
- Noise Barrier Aesthetics
 - Color and texture will be coordinated with the City and community

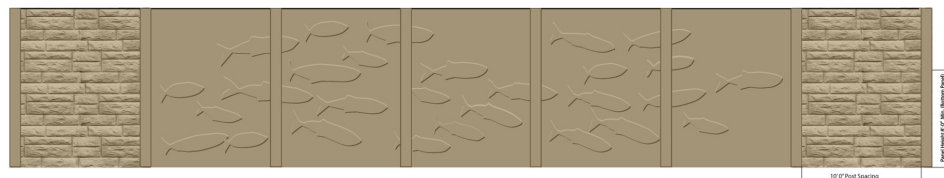
SW 10th Street Connector – Century Village Noise Walls

- Aesthetics: Noise Wall Colors / Form Lining Treatments

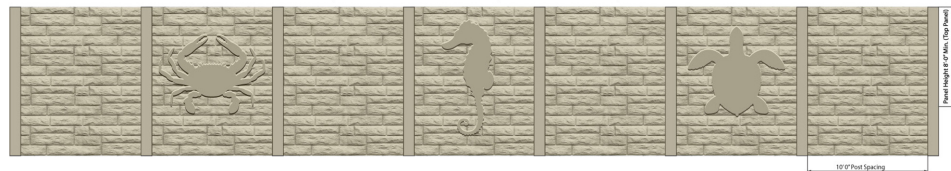
Conceptual Formliner Texture, SW 10th St Only - "Swordfish" (Traffic Side Only)



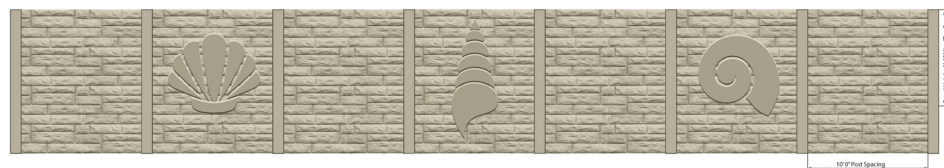
Conceptual Formliner Texture, SW 10th St Only - "School of Fish" (Traffic Side Only)



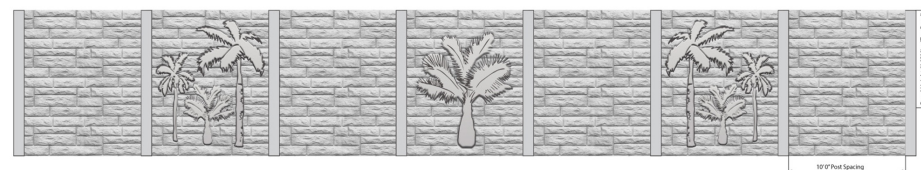
Conceptual Formliner Texture, SW 10th St Only - "Sea Life" (Traffic Side Only)



Conceptual Formliner Texture, SW 10th St Only - "Shell" (Traffic Side Only)



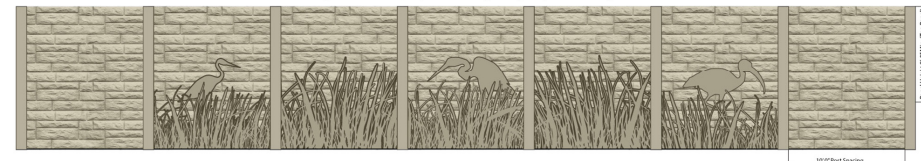
Conceptual Formliner Texture, SW 10th St Only - "Palms" (Traffic Side Only)



Conceptual Formliner Texture, SW 10th St Only - "Locomotive" (Traffic Side Only)



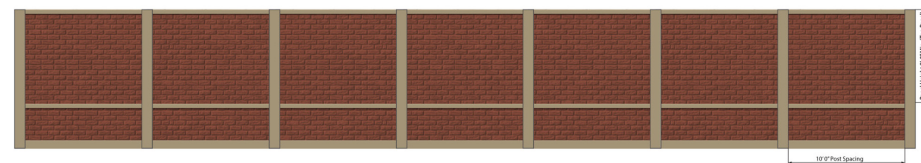
Conceptual Formliner Texture, SW 10th St Only - "Sawgrass" (Traffic Side Only)



Conceptual Formliner Texture, SW 10th St Only - "Angler" (Traffic Side Only)



Conceptual Formliner Texture, SW 10th St Only - "Rustic" (Traffic Side Only)



SW 10th Street Connector Program – Procurement and Construction Starts

- SW 10th St Connector TSM&O (439891-5)
 - Advertise for Design-Build Construction Contract: May 2022
 - Begin Construction: Approximately Q2 2023
- SW 10th St. Connector / I-95 Interchange (436964-2)
 - Advertise for Design-Build Construction Contract: Summer/Fall 2022
 - Begin Construction: Approximately Q1/Q2 2024
- SW 10th St. Connector (west of SW 24th Ave) (439891-1)
 - Advertise for Design-Build Construction Contract: August 2023
 - Begin Construction: Approximately Q1 2025

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