Arterial Connectivity Study along I-595 Corridor

FM No. 441954-1-12-01

Broward MPO Metropolitan Planning Organization

FDOT

A Joint MPO and FDOT Project

Broward MPO Complete Streets Advisory Committee (CSAC) Meeting

May 10, 2021

Agenda

I. ***Study Overview & Schedule***

II. ***Completed Tasks***

   a. Stakeholder & Public Outreach

   b. Existing Conditions Analysis & Future 2045 Conditions Analysis

   c. Needs Identification

III. ***Current Tasks***

   a. Mitigation Concepts

      - New River Greenway

IV. ***Next Steps***

   a. Improvements List

   b. Stakeholder Outreach

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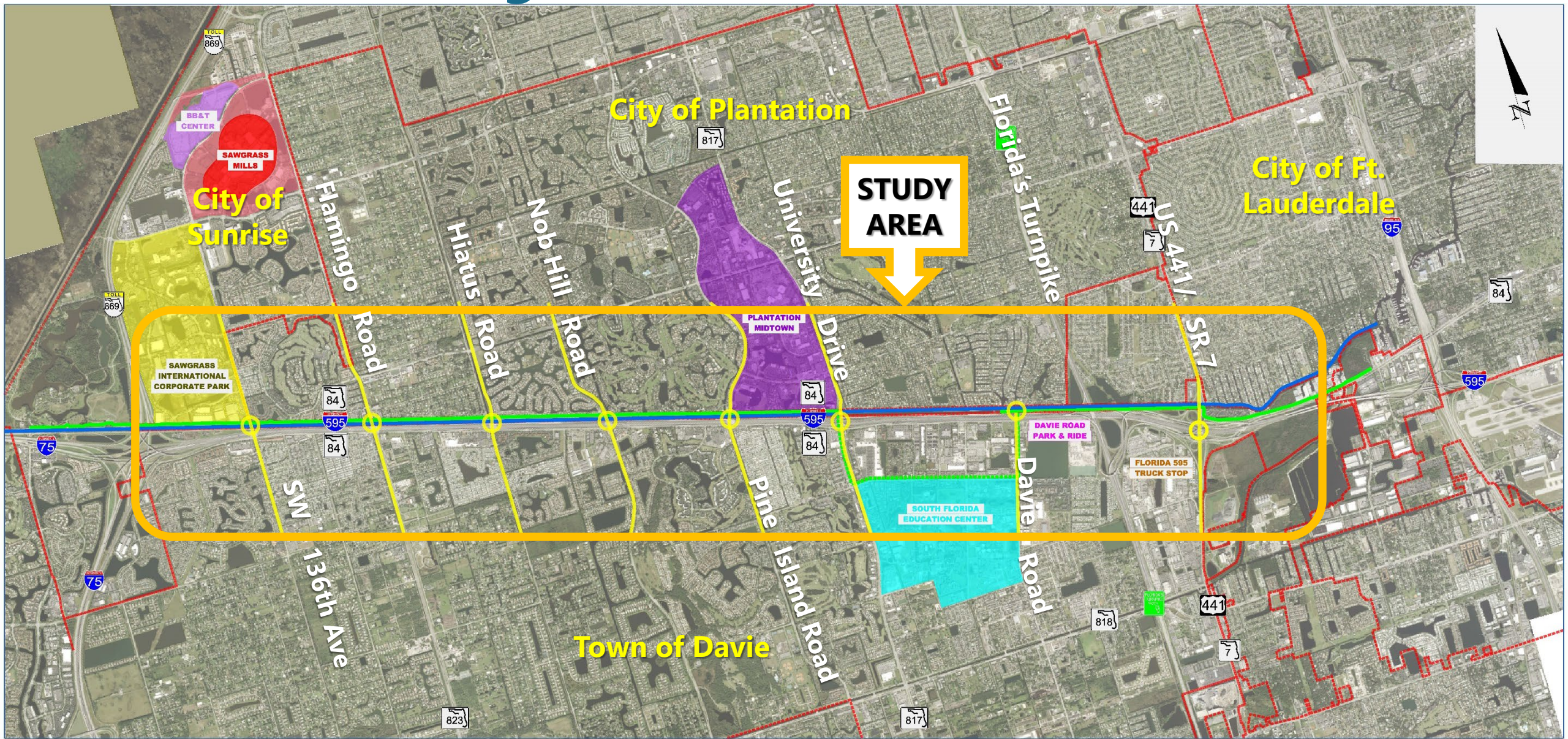
Study Area: North-South Arterials and SR 84 along I-595 from I-75 to east of SR 7



Goal and Objectives

Goal: Provide congestion relief for north-south travel and improve access to/from SR 84 and I-595

Key Objectives:

- **Identify Deficiencies**
  - Preserve mobility of I-595/SR 84 and surrounding roadway network
  - Understand trip generators & traffic flow patterns
  - Identify traffic operations, safety, pedestrian, bicycle, and transit deficiencies
- **Collaborate with stakeholders to develop effective solutions**
  - Identify short- and long-term congestion relief improvements
  - Identify and recommend local land use strategies; and connectivity improvements for bicyclists & pedestrians
  - Package into projects for funding and implementation
- **Implement Plan for Mitigation Measures**
  - Estimate costs and impacts of mitigation measures
  - Identify funding sources

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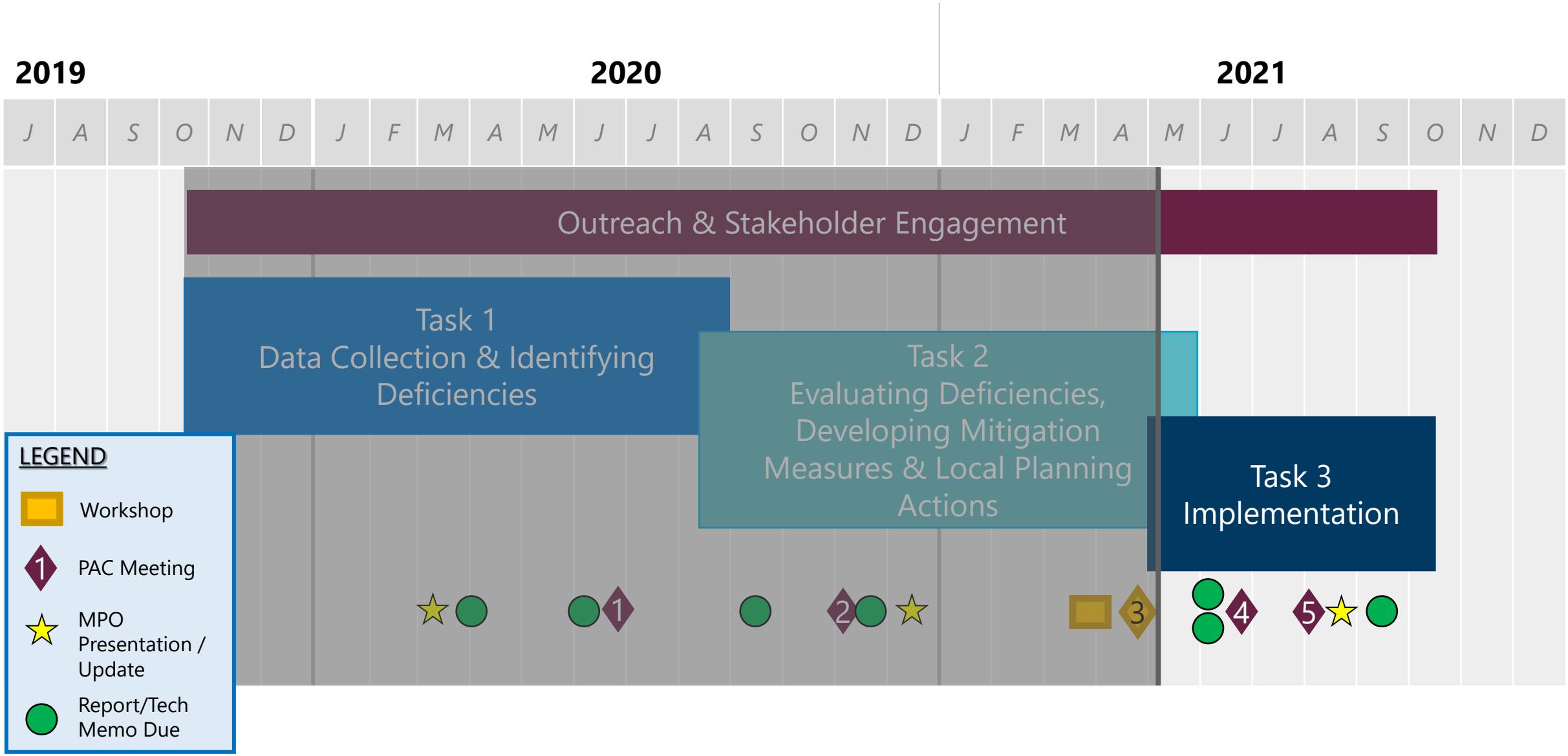
Schedule


2019
2020
2021
J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D
Outreach & Stakeholder Engagement
Task 1
Data Collection & Identifying Deficiencies
Task 2
Evaluating Deficiencies, Developing Mitigation Measures & Local Planning Actions
Task 3
Implementation
LEGEND
Workshop
PAC Meeting
MPO Presentation / Update
Report/Tech Memo Due
1
2
3
4
5

Stakeholder Involvement / Public Outreach

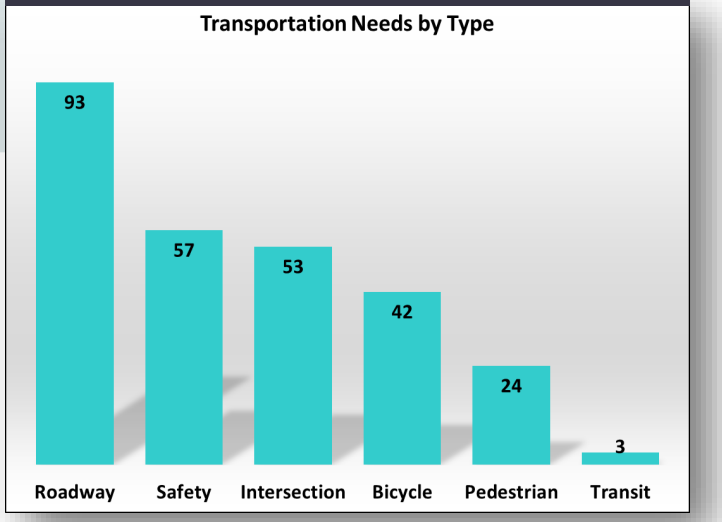
Stakeholder Involvement

- Initial Stakeholder Meetings
- Broward MPO and advisory committee presentations / updates
- Project Advisory Committee (PAC) Meetings
  - ➢ *Adjacent municipalities*
  - ➢ *Broward County*
  - ➢ *FDOT*
  - ➢ *Broward MPO*

Public Outreach

- Online Public Survey Conducted Jul. to Aug. 2020
- Factsheet
- Project Flyer
- Social Media
- Study Websites
- Email message for partner distribution

Online Public Survey Results



- Connectivity
- Safety
- Congestion

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Deficiencies Identified

Greenway

- Consider signals or elevating New River Greenway ped/bike crossings
- Address connectivity gaps to the Greenway
- Vehicular & ped/bike conflicts at crossings on north/south roads

Sidewalk

- Sidewalk gaps on all study roads except Davie Road & SR 84

Bicycle Lanes

- Missing or inadequate bicycle facilities along study roads
- Buffered bike lanes are preferred

Transit

- Consider regional transit plans & local bus circulator needs
- Bus stop facilities, shelters and benches

Deficiencies Identified from
Existing & Future (2045) Conditions Analysis

Roadway Capacity Needs

- 3 study roadways exceed capacity today
- 6 study roadways will exceed capacity by 2045

Intersection Capacity Needs

- 17 study intersections exceed capacity today, including the SR 84 interchanges
- 31 study intersections will exceed capacity by 2045

Safety Improvement Needs

- 36 high crash locations within study area, crashes concentrated along SR 84, University Drive
- Bicycle and pedestrian crashes concentrated along SR 84, University Drive, and SR 7

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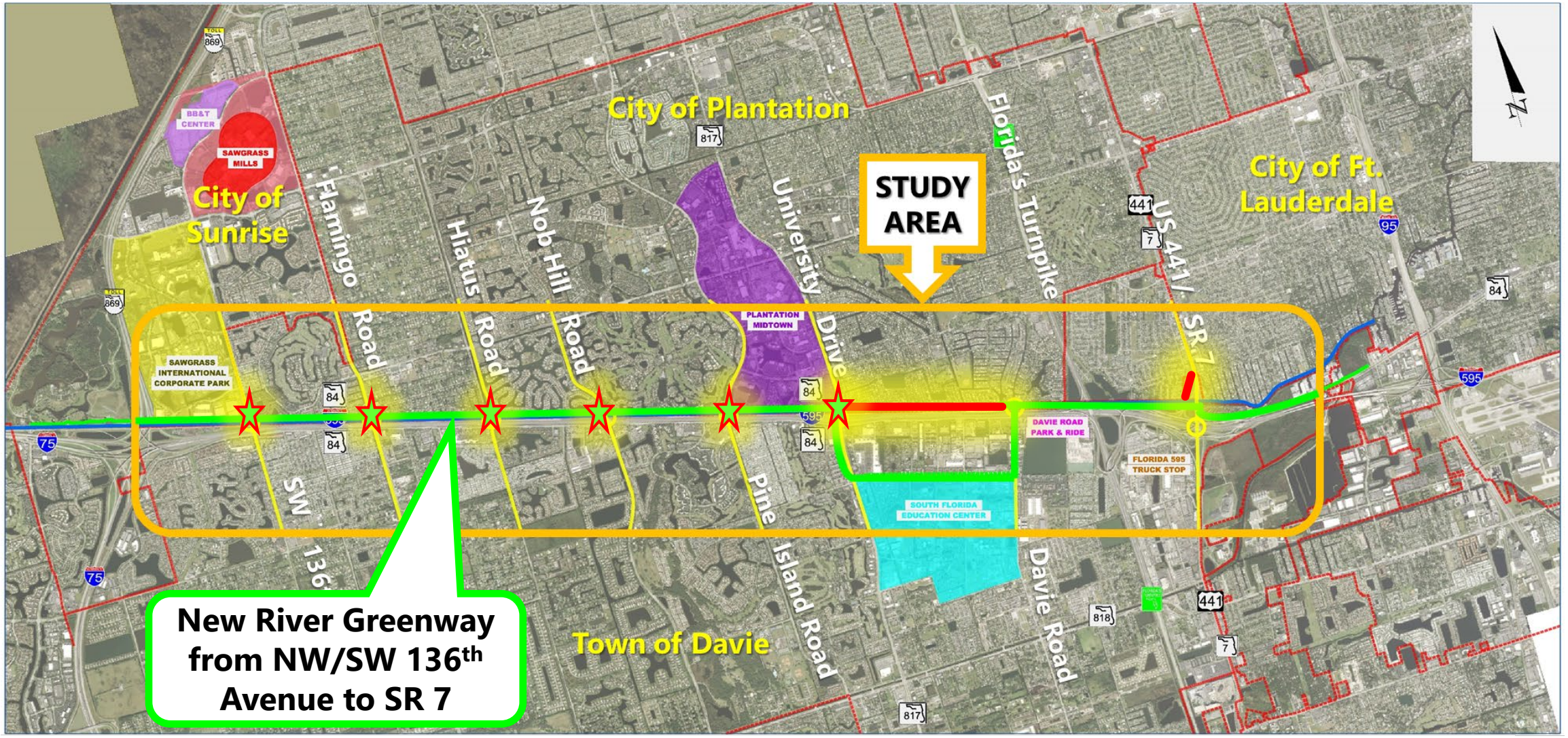
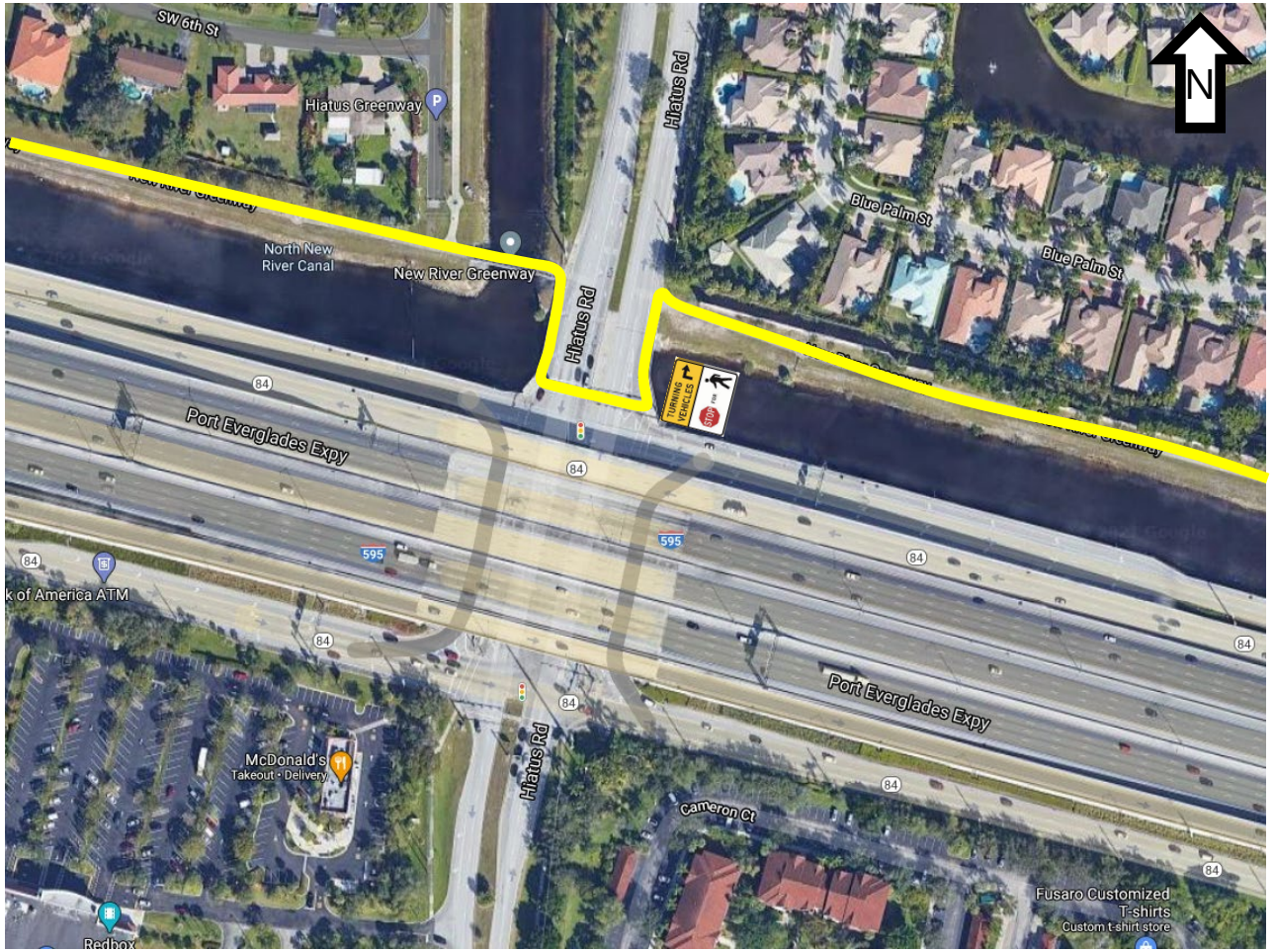
New River Greenway Considerations

- Improve 6 arterial crossings
- Connect to SR 7 / US-441
- Connect between University Drive and Davie Road



New River Greenway Crossings – Considerations

- **Greenway Mobility/Operational & Safety Issues**
  - Circuitous route to cross arterials
  - Designated crossings route users through heavy traffic at SR 84 intersections
  - Some users choose shortest path & do not cross at designated crossings
  - Westbound SR 84 right-turning traffic not always yielding to crossing pedestrians / bicyclists
  - Pedestrian and bicycle crashes occurring along SR 84



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New River Greenway Concepts

Design Challenges

- **Improve safety & connections for Bicycle and Pedestrian facilities**
  - Reduce traffic conflicts at arterial crossings to improve safety
  - Minimize impacts to arterial traffic operations
  - Reduce crossing time/distance for Greenway users to encourage more use
  - Provide new connections to Greenway to encourage use, provide access to more people
- **Constructability**
  - Avoid impacting existing I-595 mainline, ramps & flyovers
  - Canal crossings
  - Create attractive & safer crossings for users

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New River Greenway

Roadway Crossing Concepts - At-Grade Concept

- **Short-term At-Grade improvement recommended for:**
  - NW 136th Avenue
  - Flamingo Road
  - Hiatus Road
  - Nob Hill Road
  - Pine Island Road

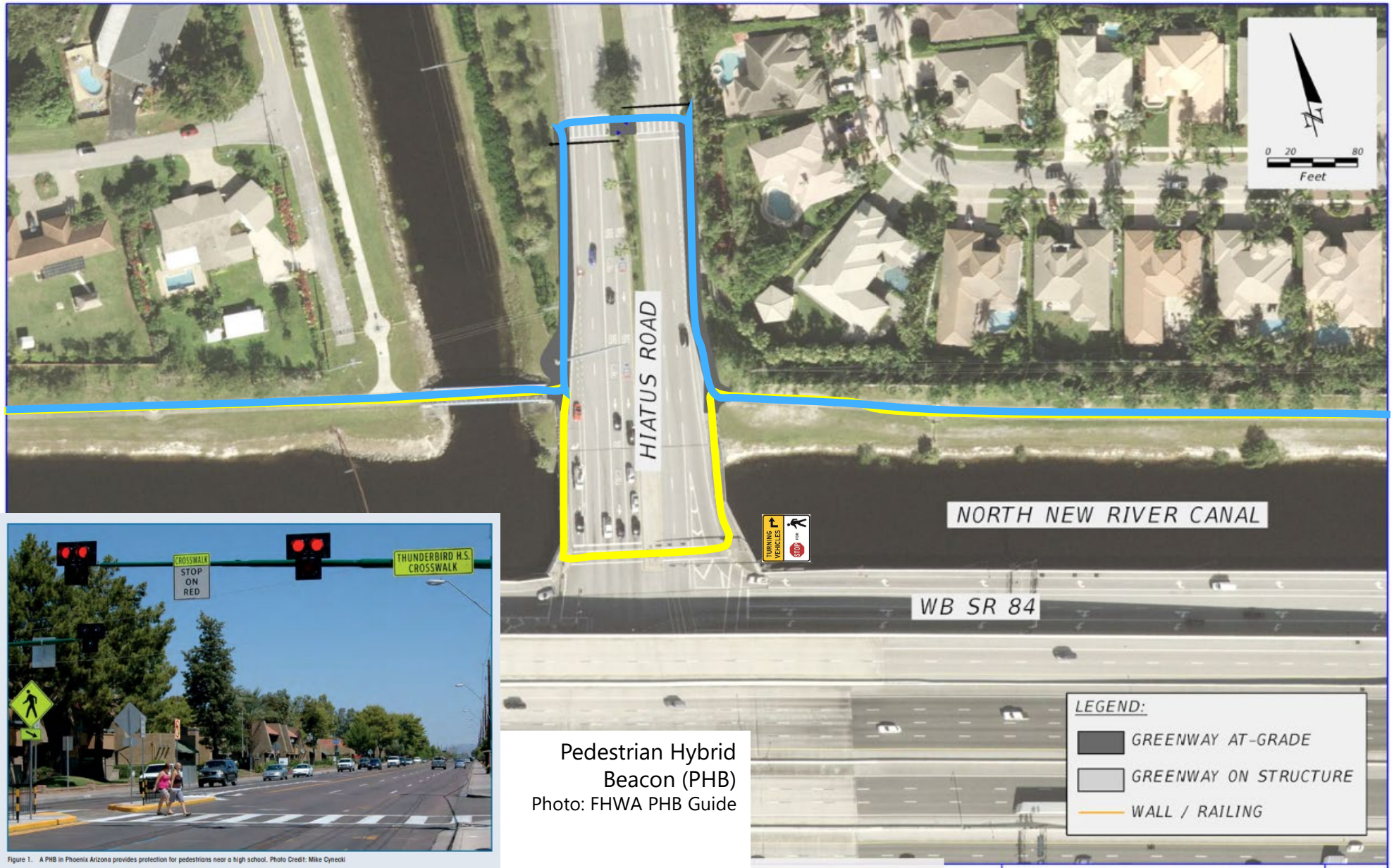

Figure 1. A PHB in Phoenix Arizona provides protection for pedestrians near a high school. Photo Credit: Mike Cynecki

Pedestrian Hybrid Beacon (PHB)
Photo: FHWA PHB Guide

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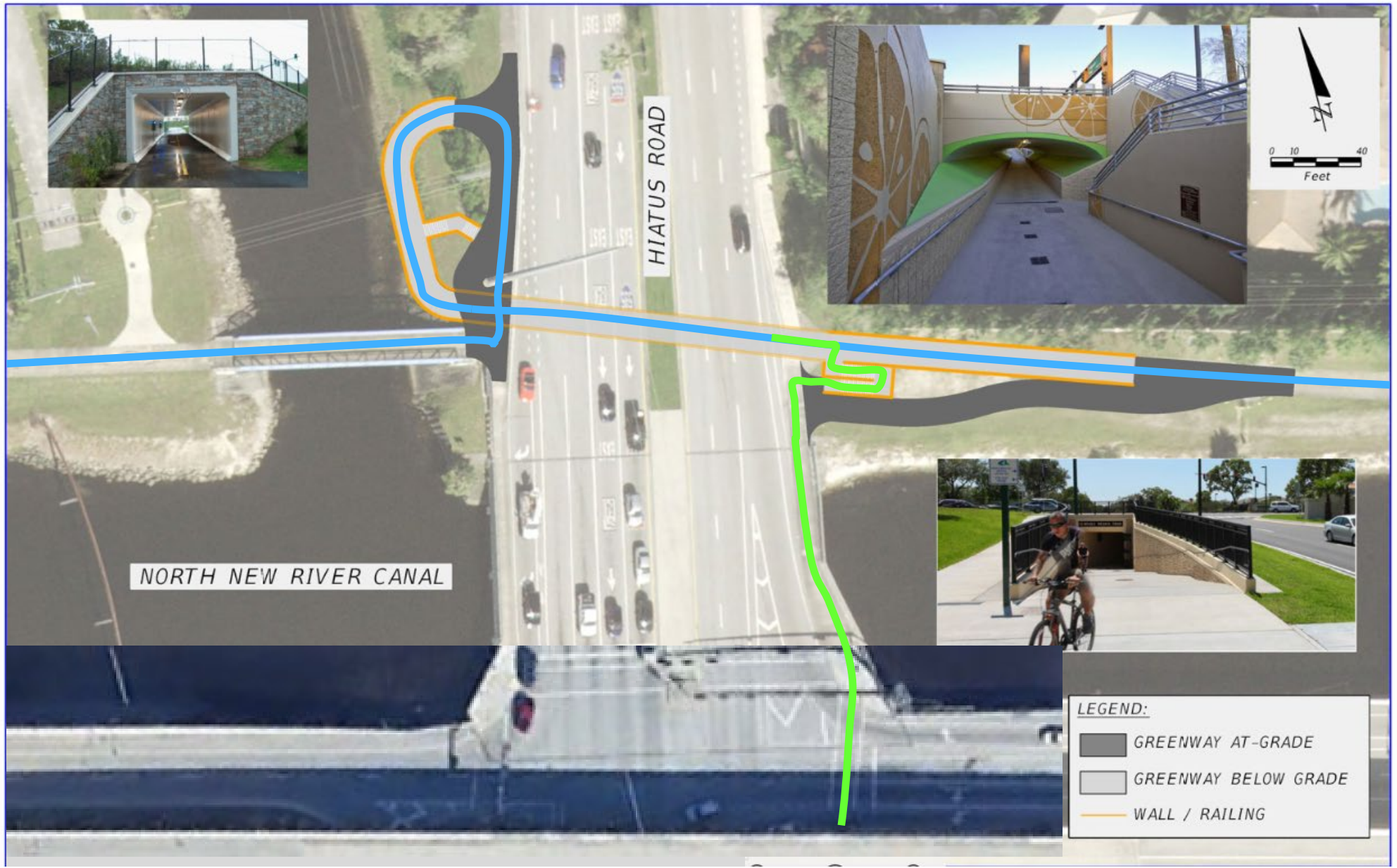
New River Greenway

Roadway Crossing Concepts - Below-Grade Concept

- **Long-term Below-Grade improvement recommended for:**
  - NW 136th Avenue
  - University Drive
- **Option for:**
  - Flamingo Road
  - Hiatus Road
  - Pine Island Road



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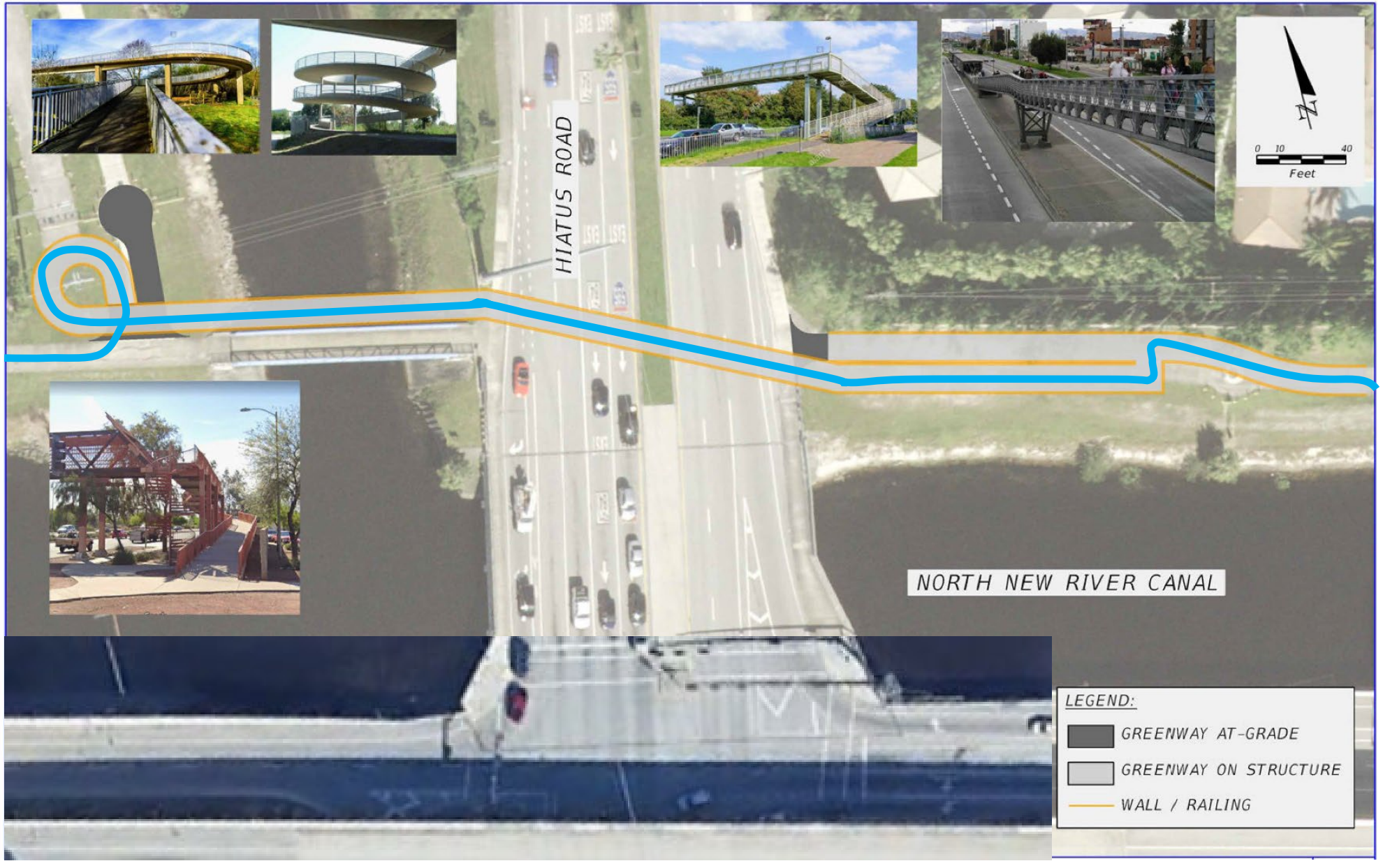
Roadway Crossing Concepts - Above-Grade Concept

- **Long-term Above-Grade improvement recommended for:**
  - Nob Hill Road
- **Option for:**
  - Flamingo Road
  - Hiatus Road
  - Pine Island Road



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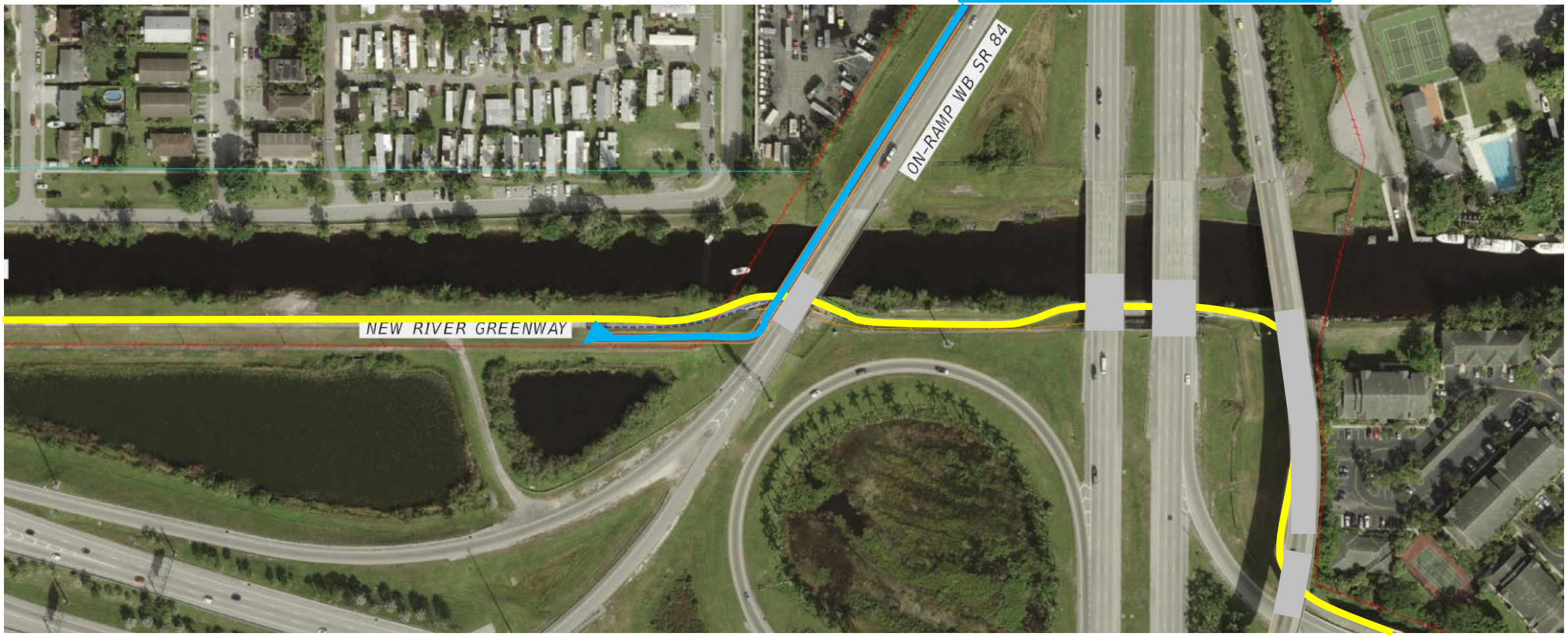
New River Greenway
SR 7 / US-441 Connection Concept

» **Connect SR 7 sidewalk to Greenway**

Extend SR 7 sidewalk along west side from SW 21st Street to Greenway



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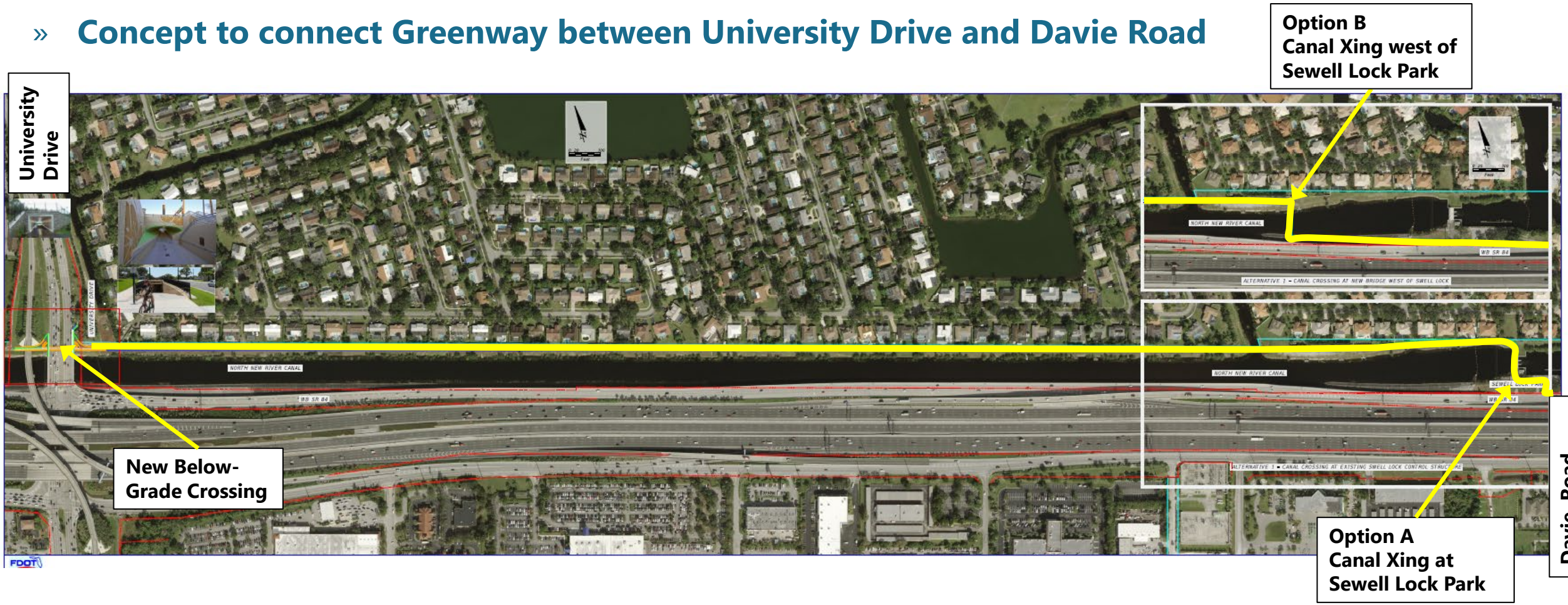
New River Greenway
University Drive to Davie Road Connection Concept

» Concept to connect Greenway between University Drive and Davie Road



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Questions / Comments

Next Steps

- **May - July**
  - Deficiency Mitigation Measures Report
  - Local Planning Actions Report
  - Develop & evaluate improvement list with FDOT/MPO staff and PAC
- **July – August**
  - Final round of stakeholder meetings & presentations
- **September**
  - Submit master improvement list
- **October**
  - Finalize study, close out contract

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Thank You

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Websites:

- https://www.browardmpo.org/current-projects-studies/arterial-connectivity-study-along-i-595-corridor
- https://www.d4fdot.com/bcfdot/arterial_connectivity_study_along_I-595_corridor.asp

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