

DUVAL STREET REVITALIZATION AND RESILIENCY PLAN

SUMMARY PRESENTATION TO CITY COMMISSION
DECEMBER 2, 2025



Stantec

PLAN PURPOSE AND OVERVIEW

Why

undertake this project



Duval Street flooding during Hurricane Rita in 2005

Understanding the corridor's **resiliency challenges**: this feasibility study and concept design is funded by a state grant for economic development and resiliency

KEY WEST'S CHALLENGES



Image Source: Gainesville Sun

Key West faces not only the risks of catastrophic flooding in major hurricanes, but also inundation and flooding from more typical rain events and tides.

VULNERABILITY ASSESSMENT

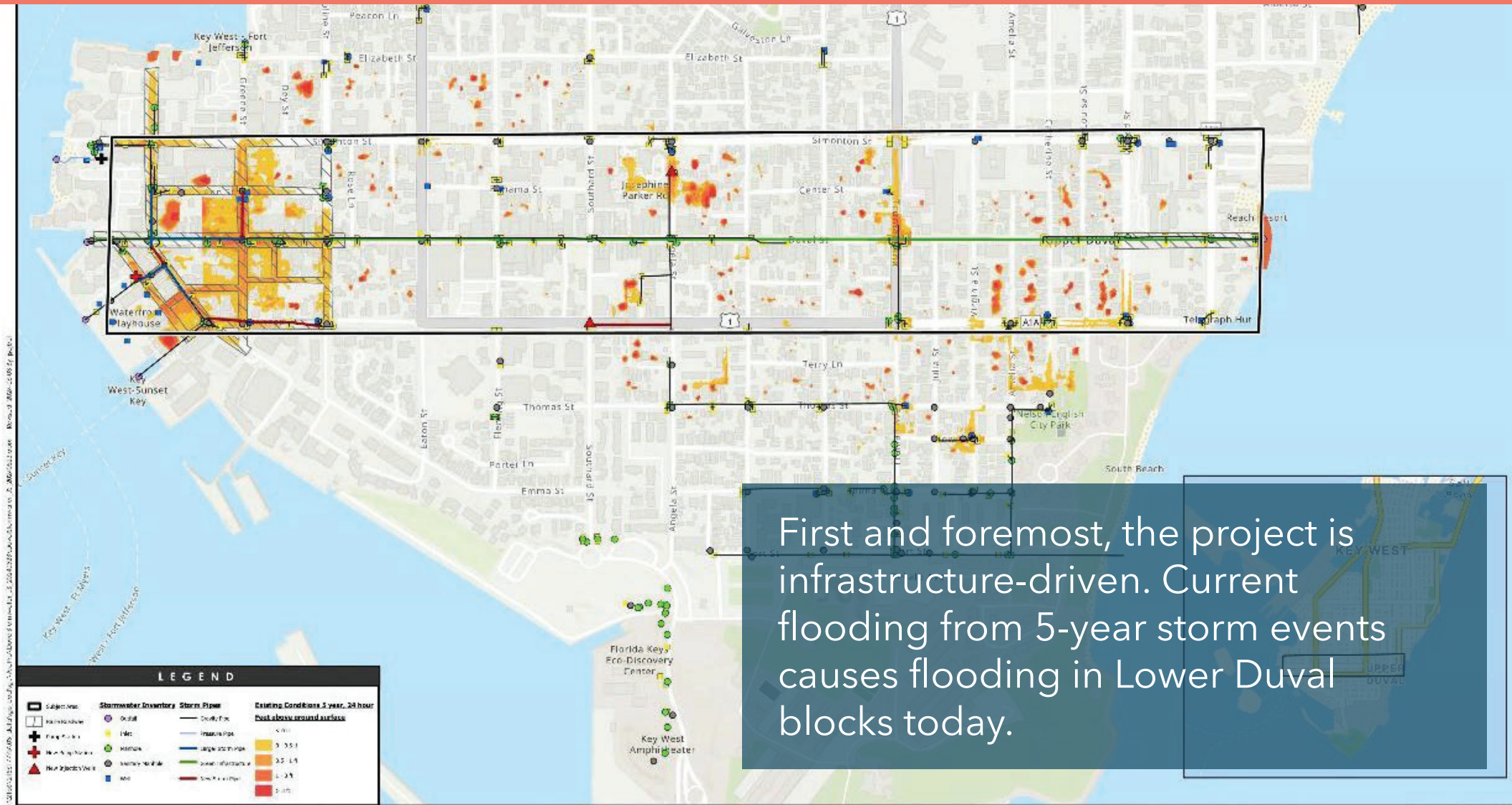


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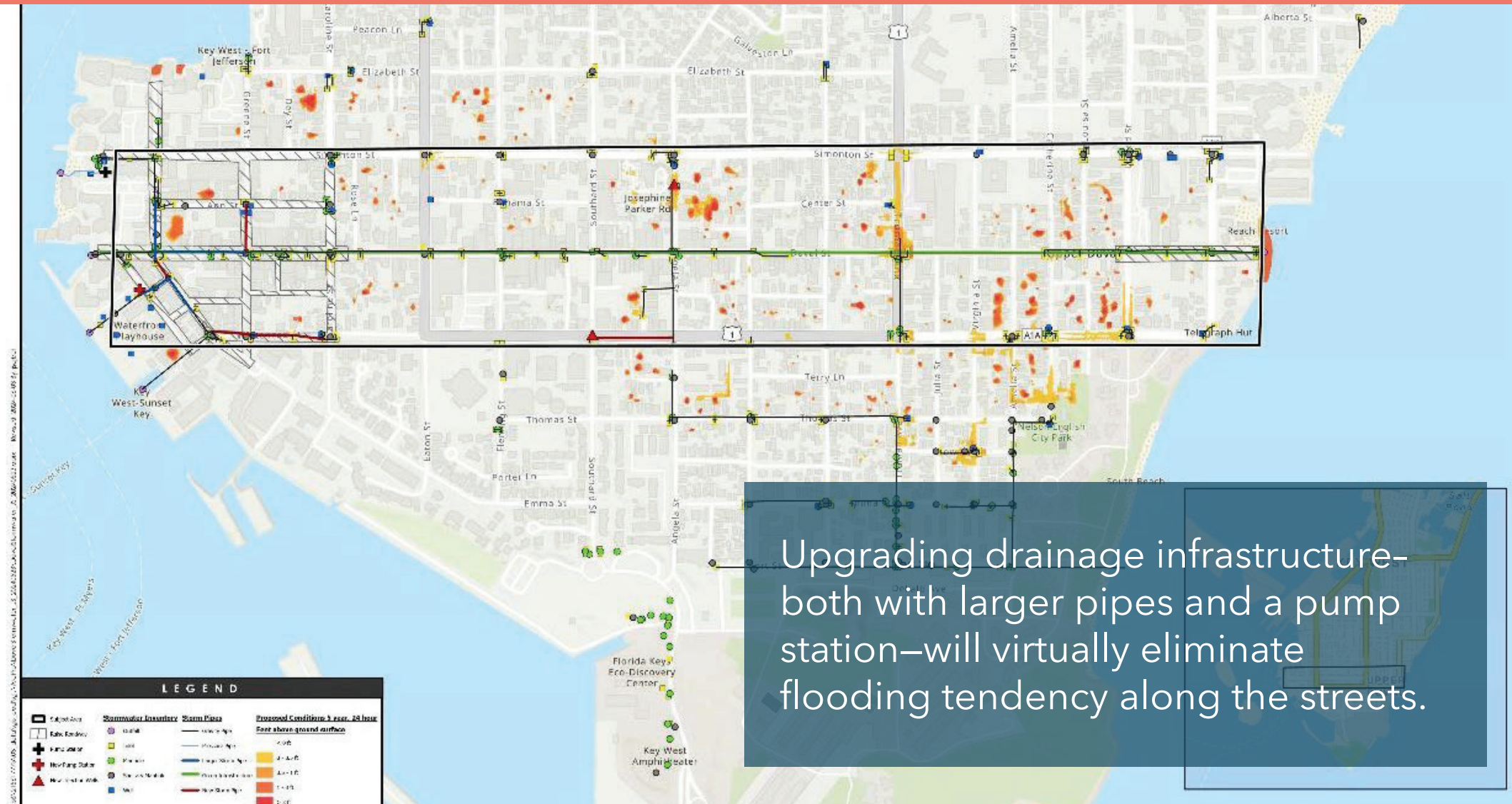


Feet of inundation

STORMWATER INFRASTRUCTURE NEEDS

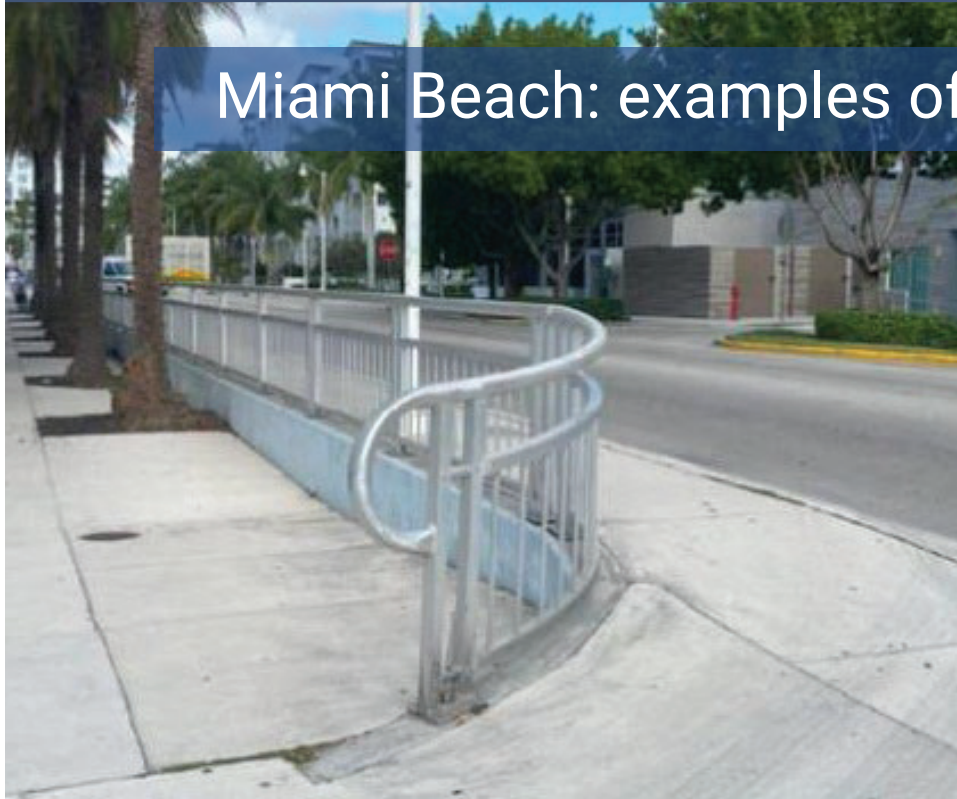


STORMWATER INFRASTRUCTURE NEEDS



STORMWATER SOLUTIONS: THE RIGHT FIT

Miami Beach: examples of raised streets



Duval Street solutions have to balance engineering need with community character

STORMWATER SOLUTIONS: THE RIGHT FIT

Miami Beach: examples of raised streets



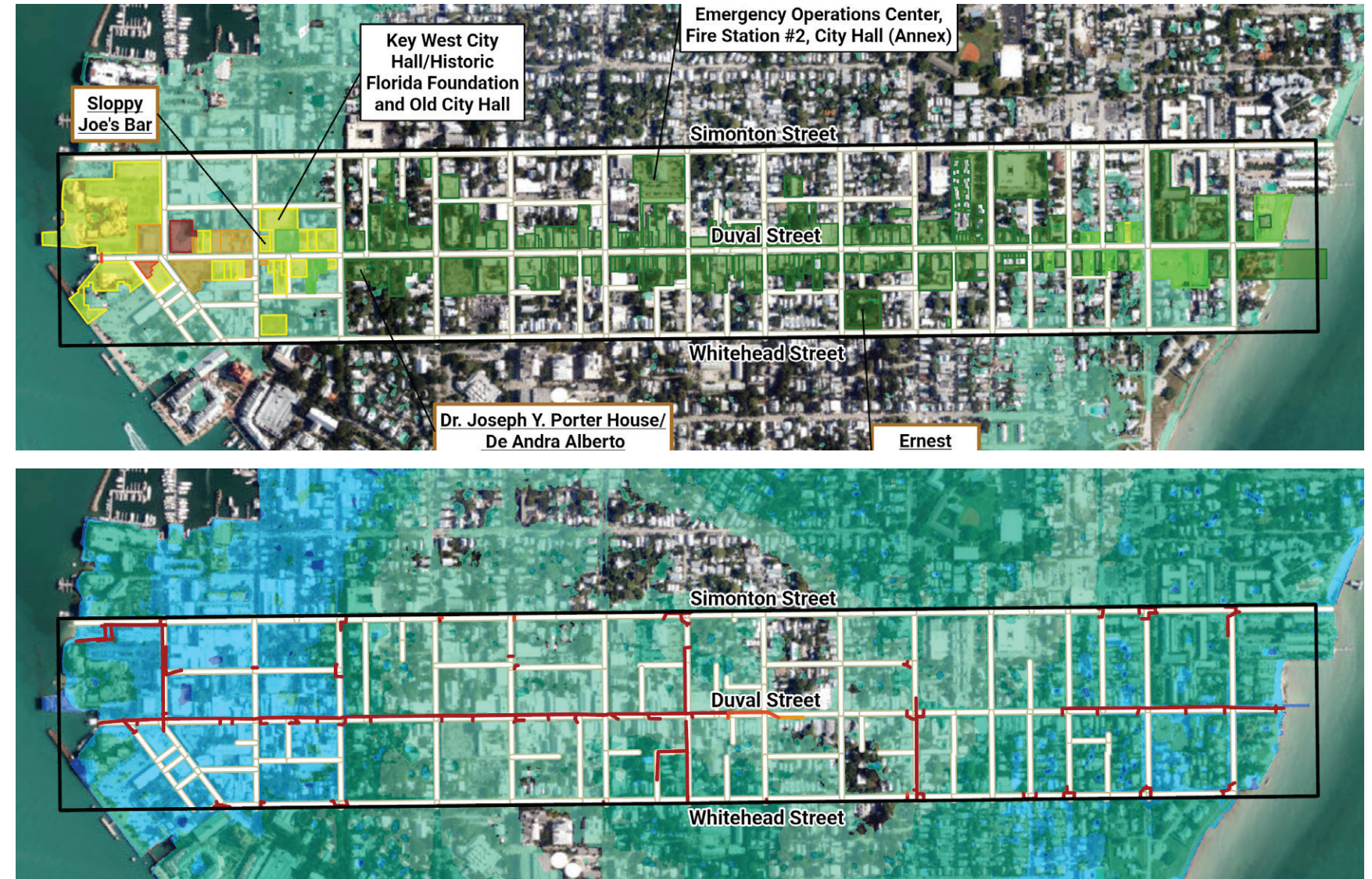
We learned early in our planning that this extensive street-raising would *not* work for Duval Street

WHAT IS INVOLVED IN DOING THIS

Critical Project Driver

INCREASE SYSTEM CAPACITY

Add to pumping capacity
Increase pipe dimensions
Reinforce street sub-bases



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REBUILD STREETS

Reset the cross-section
Use landscaping as infrastructure



RETHINK POLICY

Promoting Duval for walk-bike-roll travel first
Rethink district parking
Provide new approaches for building adaptation
Giving businesses and stakeholders more ownership



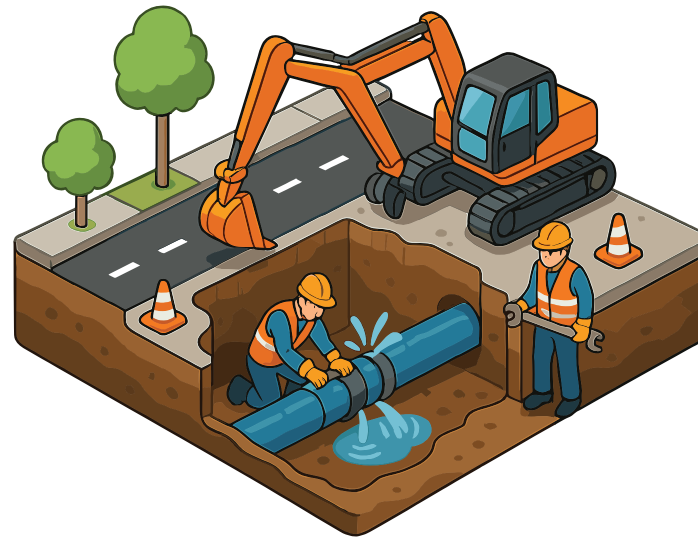
KEY INFRASTRUCTURE COMPONENTS

Pump Station

Increasing to 100 CFS: essential for overall upgrades to pipes and inlets



Street Reconstruction



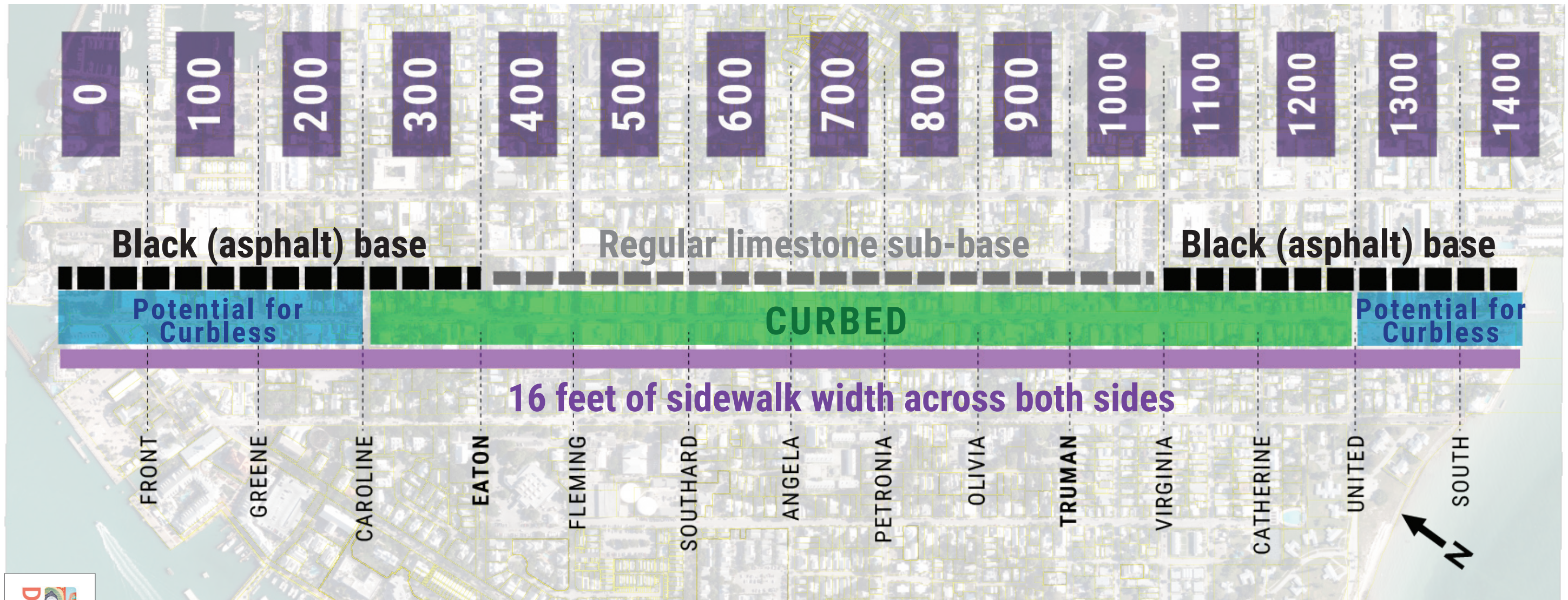
Key stormwater work is underground: with full reconstruction, surface level can be rethought and re-designed as well

Green Infrastructure

Extensive amounts needed: ideal applications would be on every block to meet water quality requirements



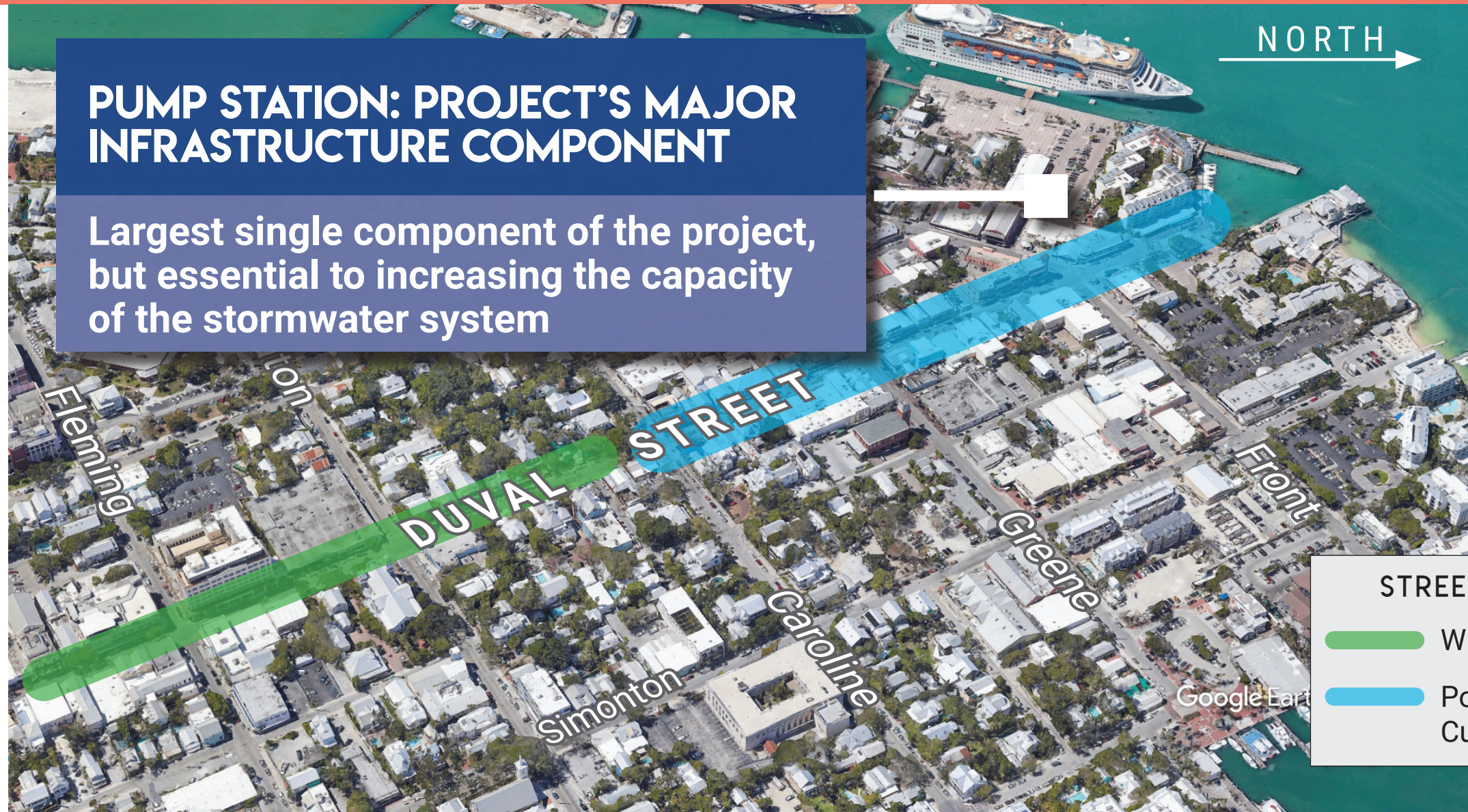
THE DUVAL STREET CONCEPT



CONCEPT: LOWER DUVAL

PUMP STATION: PROJECT'S MAJOR INFRASTRUCTURE COMPONENT

Largest single component of the project, but essential to increasing the capacity of the stormwater system



STREET COLORS

- With Curbs
- Potential Curbless Design

CONCEPT: LOWER DUVAL

STREET COLORS

- With Curbs
- Potential Curbless Design



CURBLESS STREET SECTIONS: WATERFRONT TO CAROLINE STREET

Raises street profile to fit larger infrastructure

DUVAL STREET TODAY AT GREENE STREET



NEW DUVAL STREET CONCEPT AT GREENE STREET

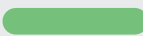

POTENTIAL CURBLESS DESIGN

SIDEWALK WIDENED

STREETSCAPE HELPS TO
DELINEATE STREET ZONES

CONCEPT: MID-DUVAL

STREET COLORS

-  With Curbs
-  Potential Curbless Design



**CURBED SECTIONS
GREEN INFRASTRUCTURE THROUGHOUT**

Helps with flooding, but essential for water quality

DUVAL STREET TODAY AT FLEMING STREET



NEW DUVAL STREET CONCEPT AT FLEMING STREET

CURBS RETAINED

SIDEWALK WIDENED



CURBSIDE MORE CLOSELY MANAGED FOR MANY NEEDS

**STREETScape CONTRIBUTES TO
GREEN INFRASTRUCTURE**

CONCEPT: MID-DUVAL



STREET COLORS

-  With Curbs
-  Potential Curbless Design

CURBED SECTIONS GREEN INFRASTRUCTURE THROUGHOUT

Helps with flooding, but essential for water quality

DUVAL STREET TODAY AT OLIVIA STREET



NEW DUVAL STREET CONCEPT AT OLIVIA STREET

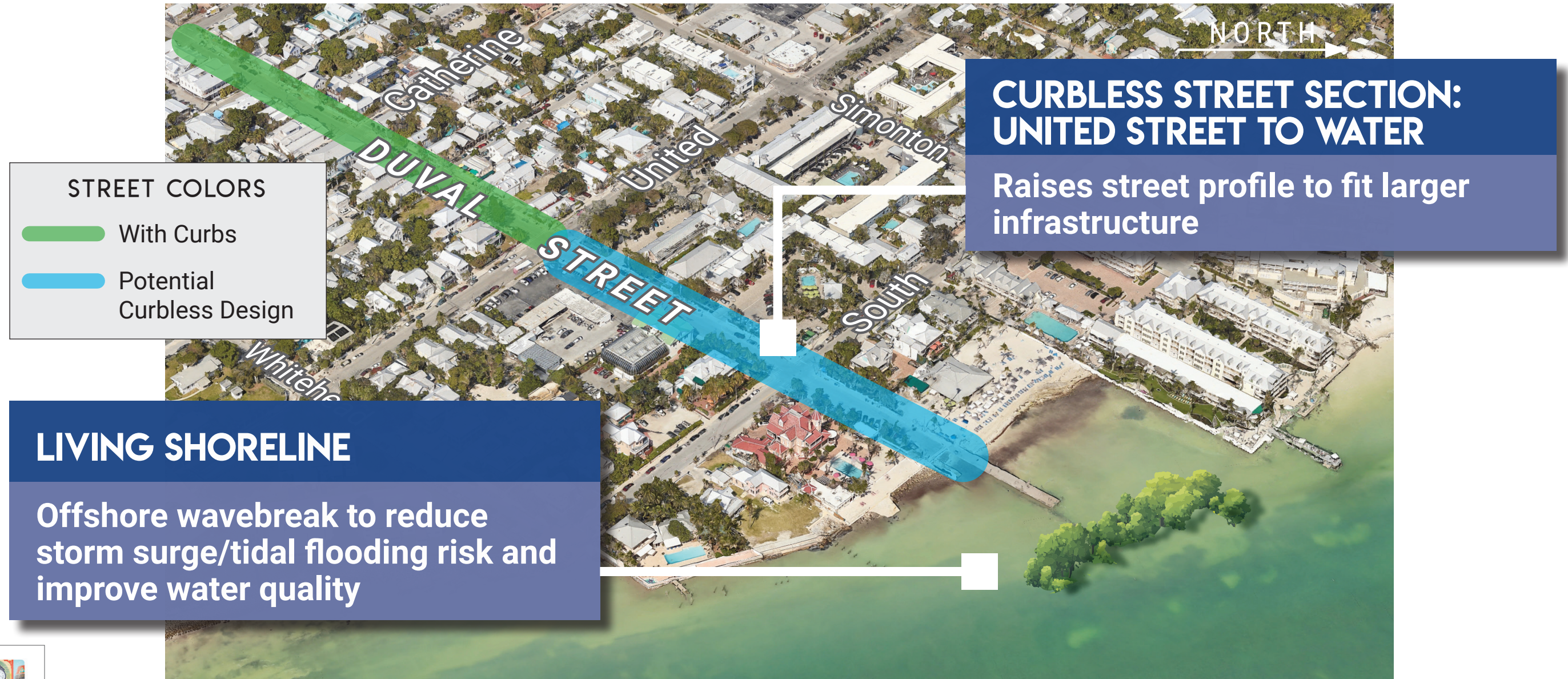
MORE CONSISTENT SHADE

SIDEWALK WIDENED

GREEN INFRASTRUCTURE

**STREETSCAPE APPROPRIATE
TO LAND USE NEEDS**

CONCEPT: UPPER DUVAL



THE OPPORTUNITIES OF THIS CHANGE



Balancing The Street

Prioritize the travel on Duval Street that is already happening

Make the space more a part of the public realm

Manage curbside uses to balance the corridor's evolving needs

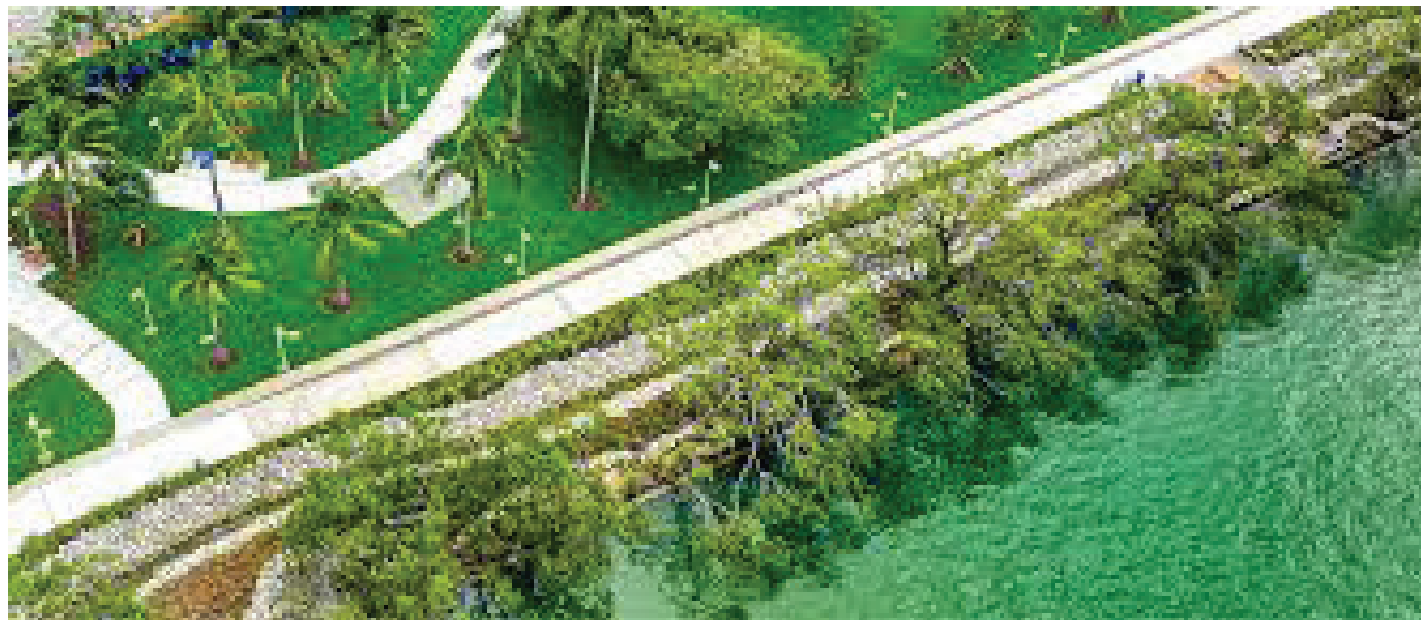


THE OPPORTUNITIES OF THIS CHANGE



Improving Water Quality

Meeting water quality standards needs more than stormwater pipe and pumping capacity



Green infrastructure throughout the corridor—and even off the street—enhances overall resiliency

THE OPPORTUNITIES OF THIS CHANGE



Reinforcing Character

With rebuilding the street, now is the time to reconsider overall street character

Streetscape, how the street is finished with materials and colors, and how Duval Street is programmed—project lets Key West rethink these

HOW THE PLAN WORKS

FIVE DIFFERENT ‘MODULES’

MODULE 1 CAPITAL PROJECT



Guidance on setting the corridor up for the construction project and phasing

MODULE 2 STREETSCAPE



Guidance for finishing the completed street within right-of-way

MODULE 3 MOBILITY



Policies and actions for managing transportation on Duval Street

MODULE 4 PRESERVATION



Guidance for making private buildings more resilient in tandem with the project

MODULE 5 GOVERNANCE/ FUNDING



Guidance for funding and operations strategy including with stakeholder partners

HOW THE PLAN WORKS

EACH WITH ACTION ITEMS

MODULE 1 CAPITAL PROJECT

MODULE 2 STREETSCAPE

MODULE 3 MOBILITY

MODULE 4 PRESERVATION

MODULE 5 GOVERNANCE/ FUNDING

EASIER

Advance the project to design

Start a public process for determining materials

Explore ways to advance easier non-driving travel

Educate and inform building owners and managers

Develop funding strategies and pursue grants

HARDER

Prepare community for construction impacts

Implement based on building and land use context

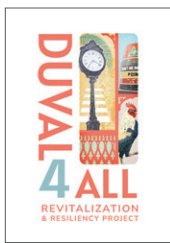
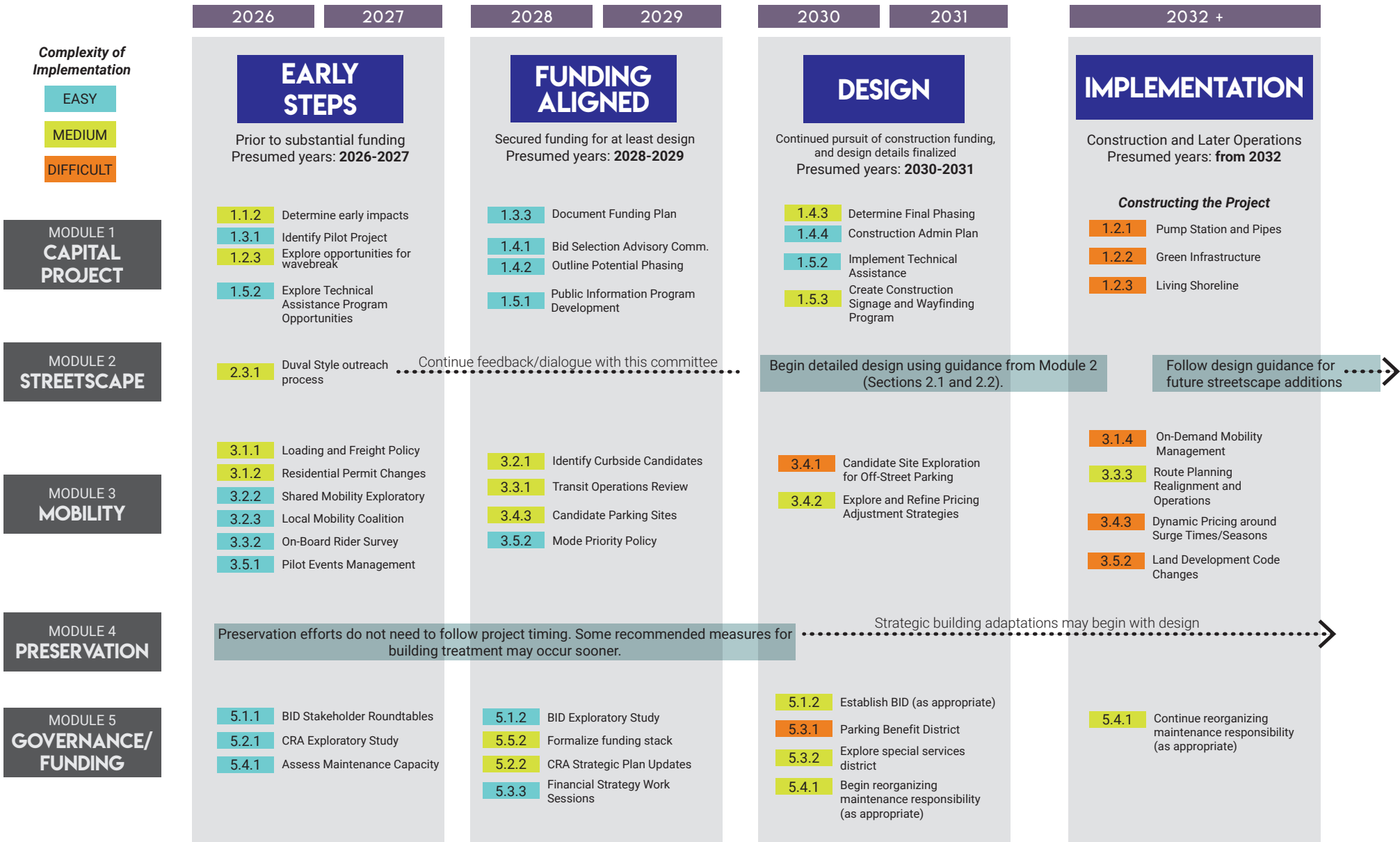
Reset parking and curbside management policy

Rethink review and permitting process for resiliency-based enhancements

Enact partner or parallel organizations such as BIDs to help with management

RELATIONSHIP OF THESE ACTIONS

Organized
around major
components of
achieving the
project

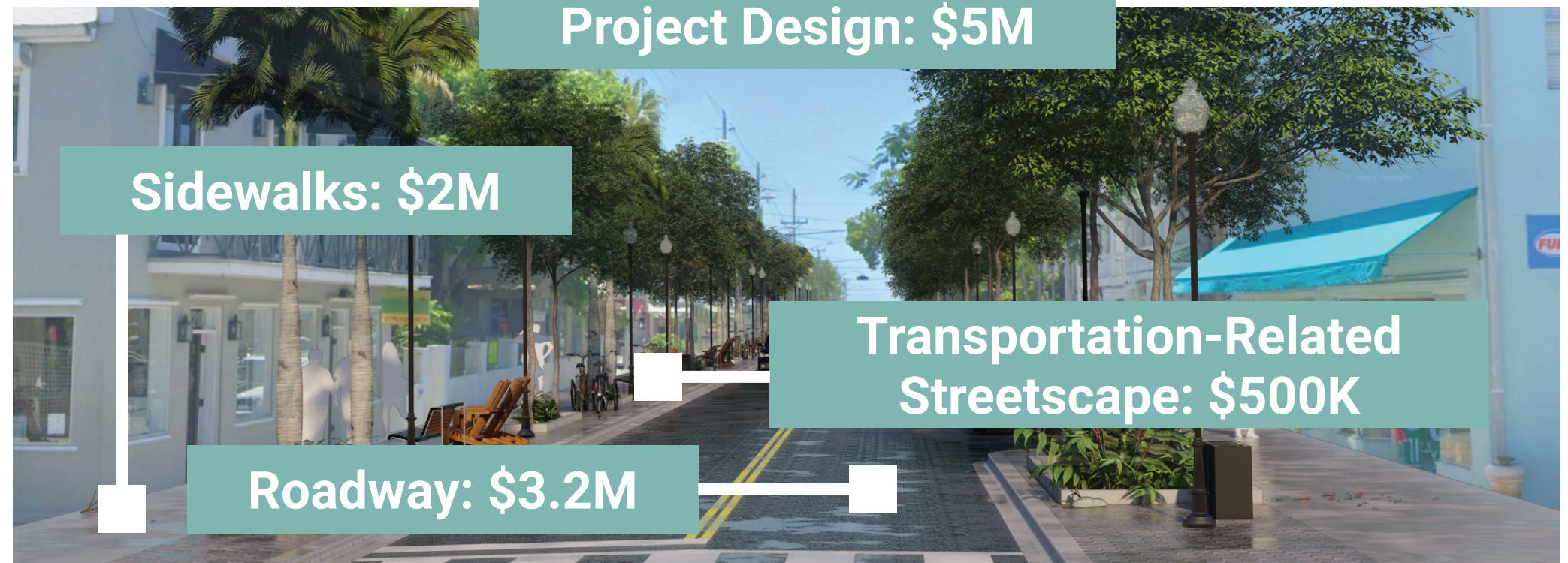


CITY'S PATH TO PROGRESS

Funding is what will ultimately power the project, and City begins financial strategy approaches from the beginning

SIMPLE FUNDING SCENARIO

Federal Sources



CITY'S PATH TO PROGRESS

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SIMPLE FUNDING SCENARIO

State Sources

Green Infrastructure and Living Shoreline: \$4.5M

Other Streetscape: \$1.2M

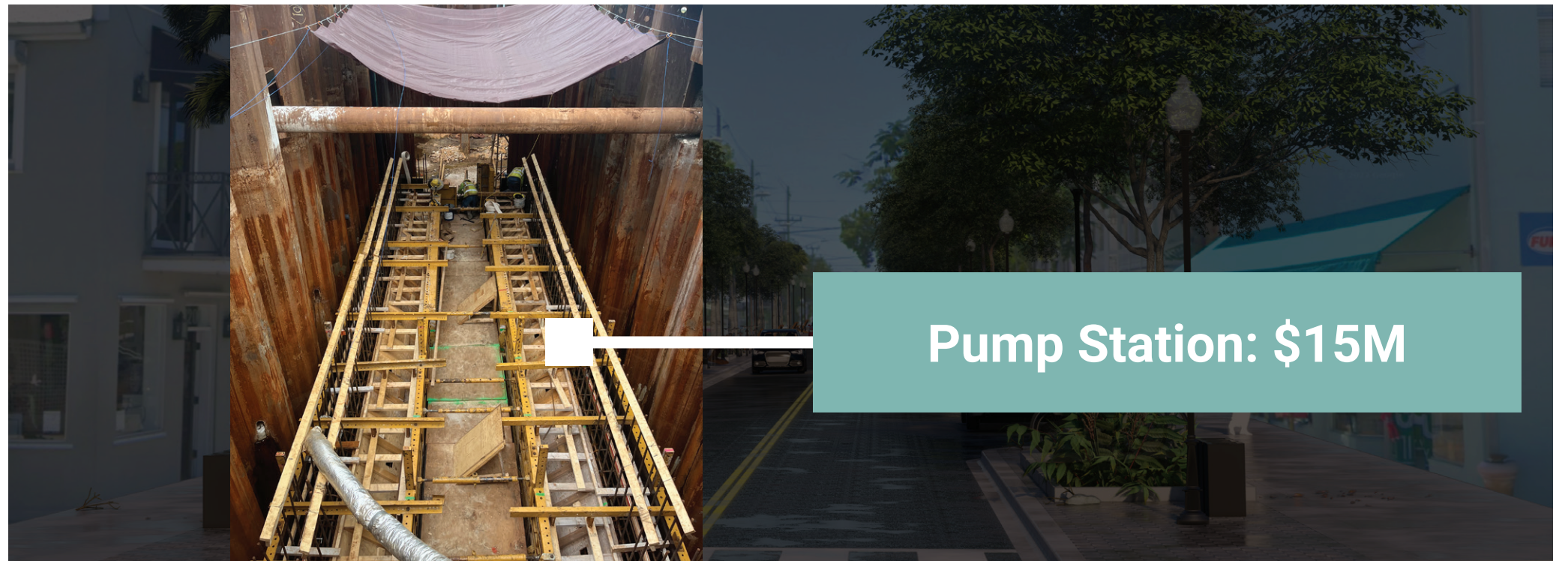
Pipe Upgrades and Roadway Base: \$4M

CITY'S PATH TO PROGRESS

Funding is what will ultimately power the project, and City begins financial strategy approaches from the beginning

SIMPLE FUNDING SCENARIO

US Congress/Florida Legislature Lobbying



CITY'S PATH TO PROGRESS

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9
	DESIGN		CONSTRUCTION				OPERATIONS		
Federal Grants and Programs	\$2.4 M Local Share: \$2.6M			\$3.9 M Local Share: \$1.7M					
State Grants and Programs			\$4 M Local Share: \$0			\$5.7 M Local Share: \$500K			
Local, Non-City Monroe County TDC					\$2.7 M Local Share: \$800K				
Other Direct Appropriations			\$15 M Local Share: \$0						

CITY'S PATH TO PROGRESS

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9
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City Share: \$2.6M

City Share: \$5.5M

Funding Gap: \$12M
Average \$1.5M/year

NEXT STEPS AND QUESTIONS

COORDINATE



Staff coordination on roles and responsibilities

DELEGATE



Staff identifies key team leads for advancing plan recommendations

OPERATIONALIZE

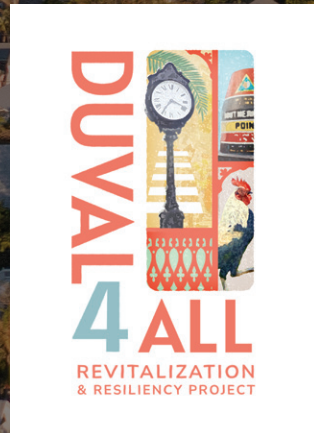


Staff sets key tasks to begin in FY 2026

COMMUNICATE



Early actions involving committees and stakeholder outreach begin in 2026



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