

# DUVAL STREET REVITALIZATION AND RESILIENCY PLAN

SUMMARY PRESENTATION TO CITY COMMISSION  
DECEMBER 2, 2025



# PLAN PURPOSE AND OVERVIEW

## Why undertake this project



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

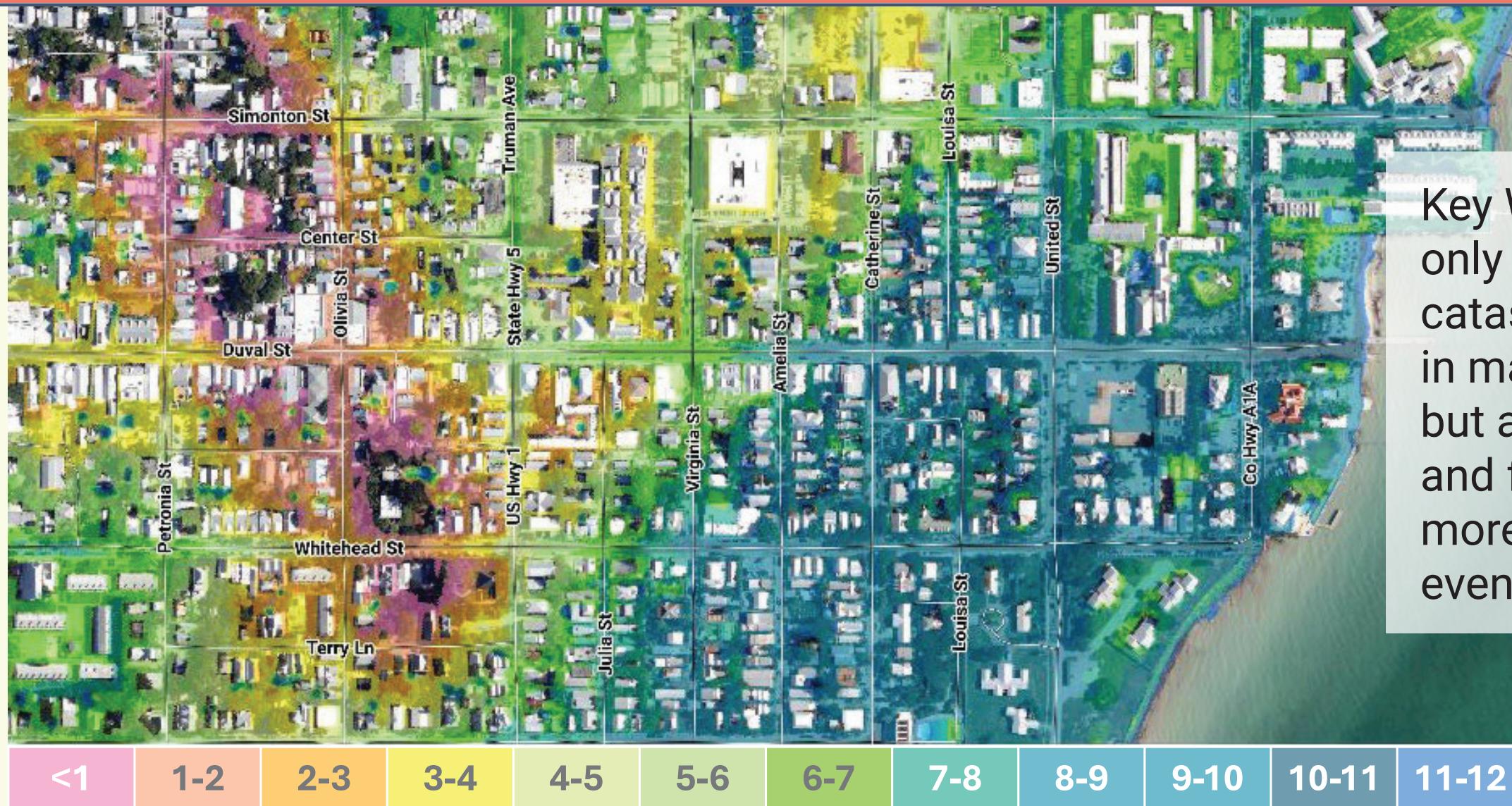
# KEY WEST'S CHALLENGES



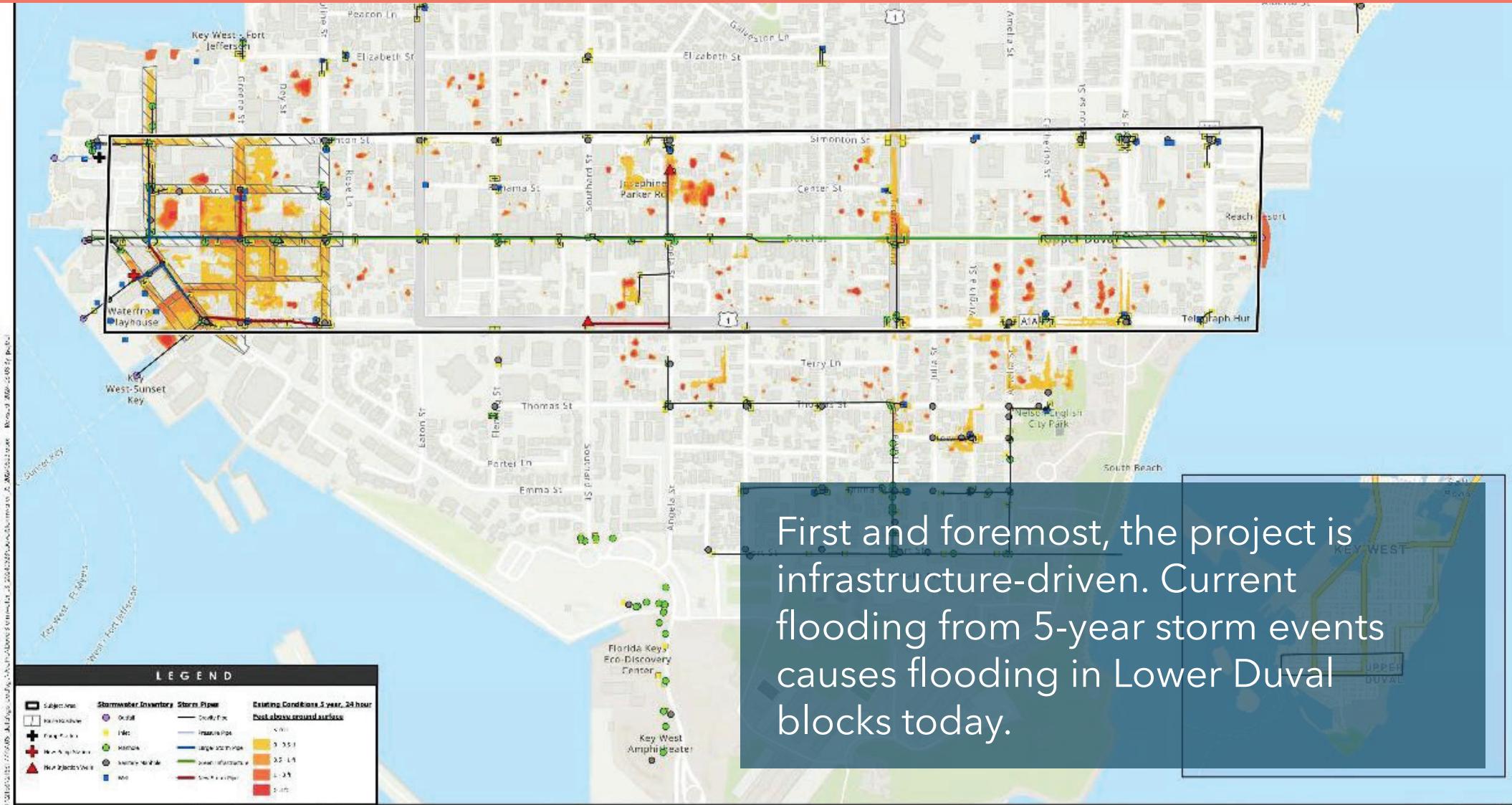
Image Source: Gainesville Sun

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.

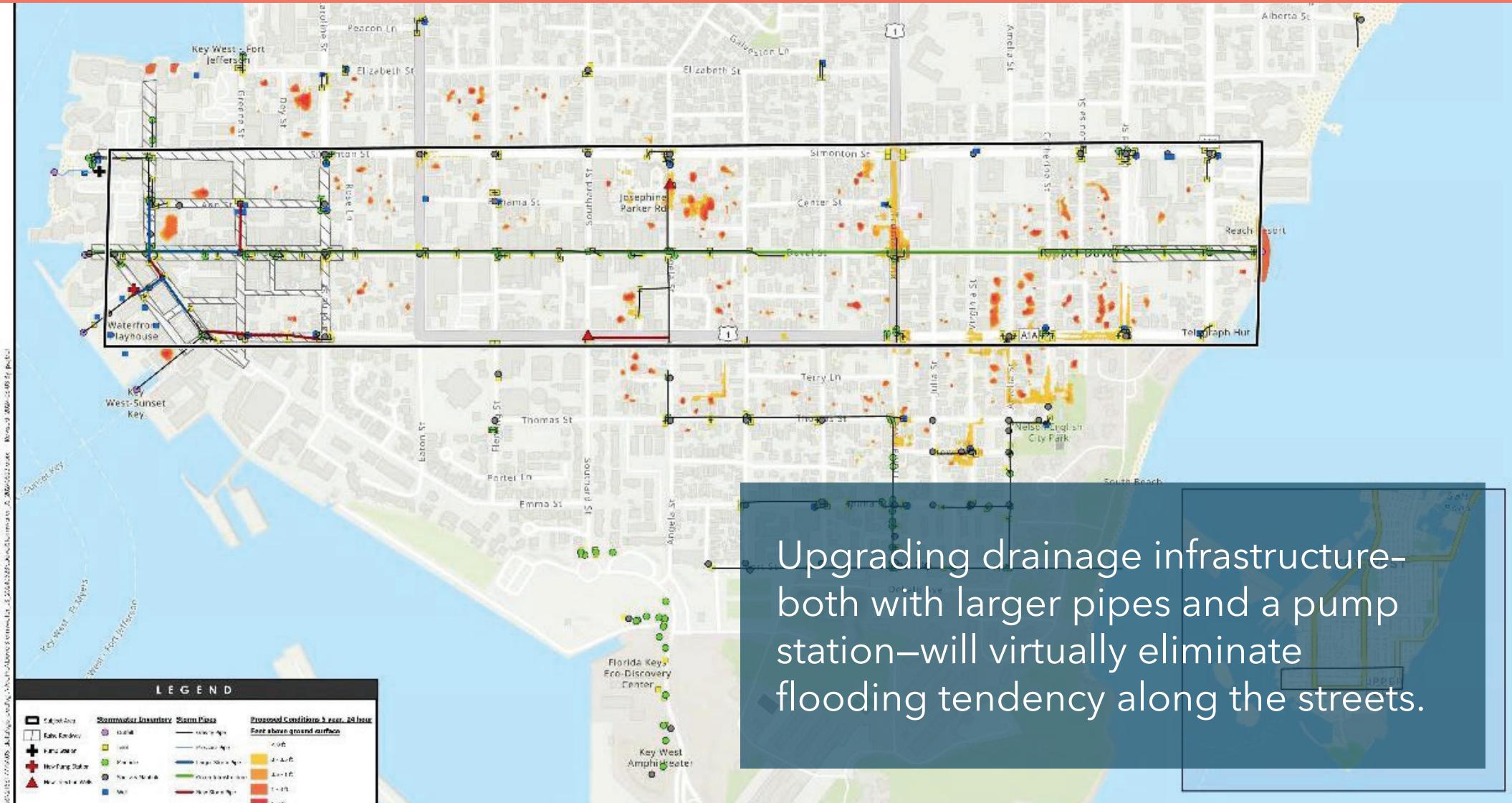
# VULNERABILITY ASSESSMENT



# STORMWATER INFRASTRUCTURE NEEDS



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# STORMWATER SOLUTIONS: THE RIGHT FIT

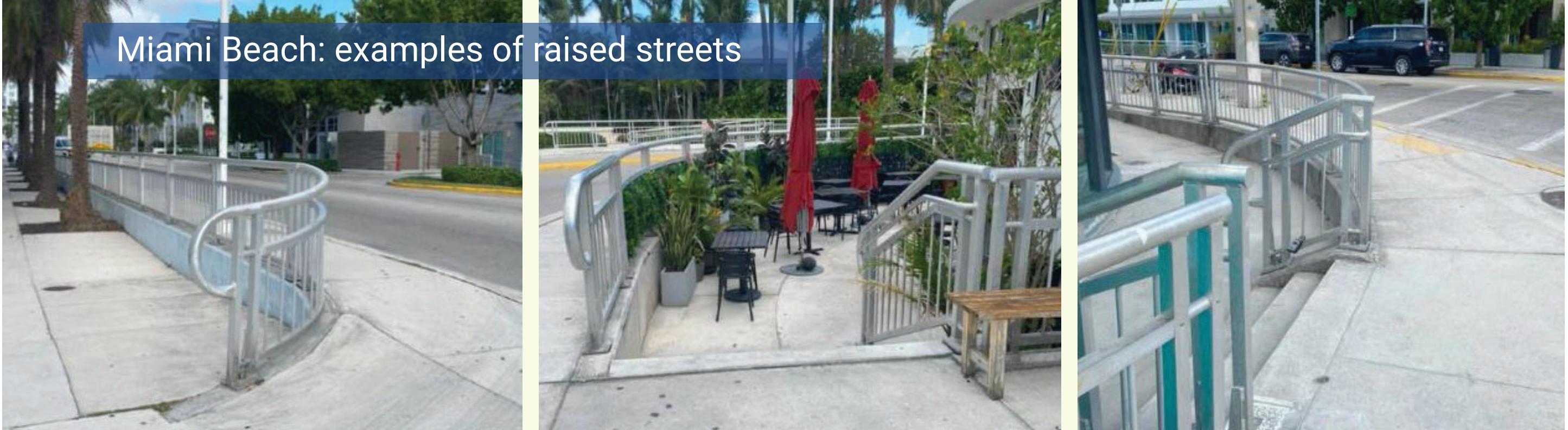
Miami Beach: examples of raised streets



Duval Street solutions have to balance engineering need with community character

# STORMWATER SOLUTIONS: THE RIGHT FIT

Miami Beach: examples of raised streets



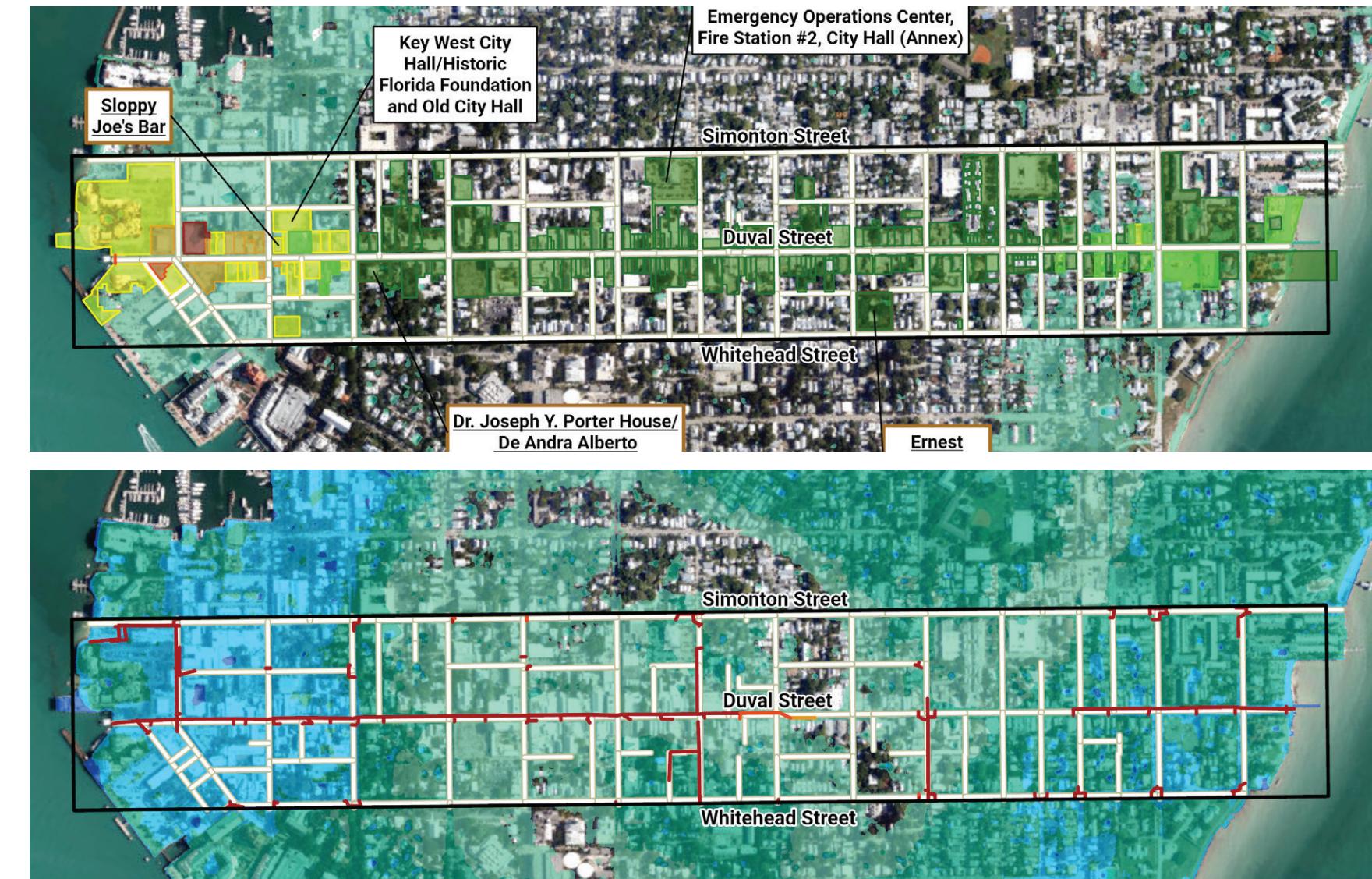
**We learned early in our planning that this extensive street-raising would *not* work for Duval Street**

# 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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## Related Actions

### 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



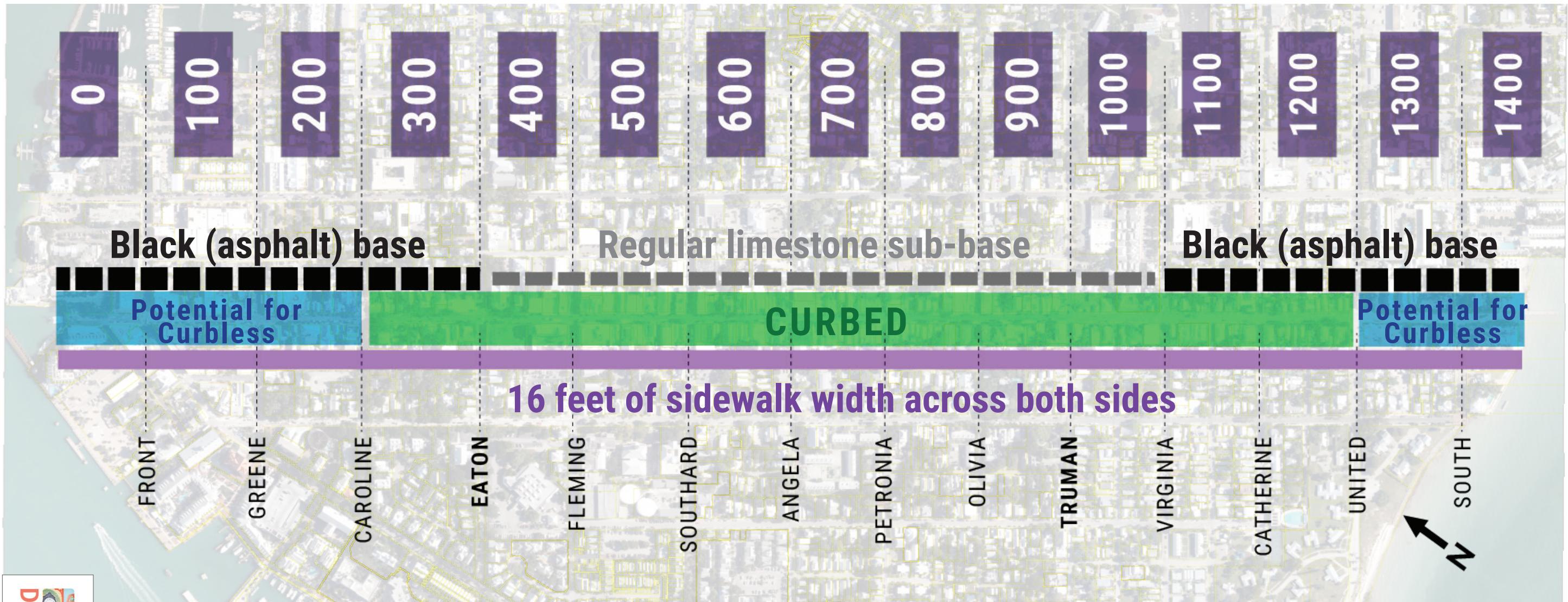
**Key stormwater work is underground:** with full reconstruction, surface level can be rethought and re-designed as well

## Green Infrastructure

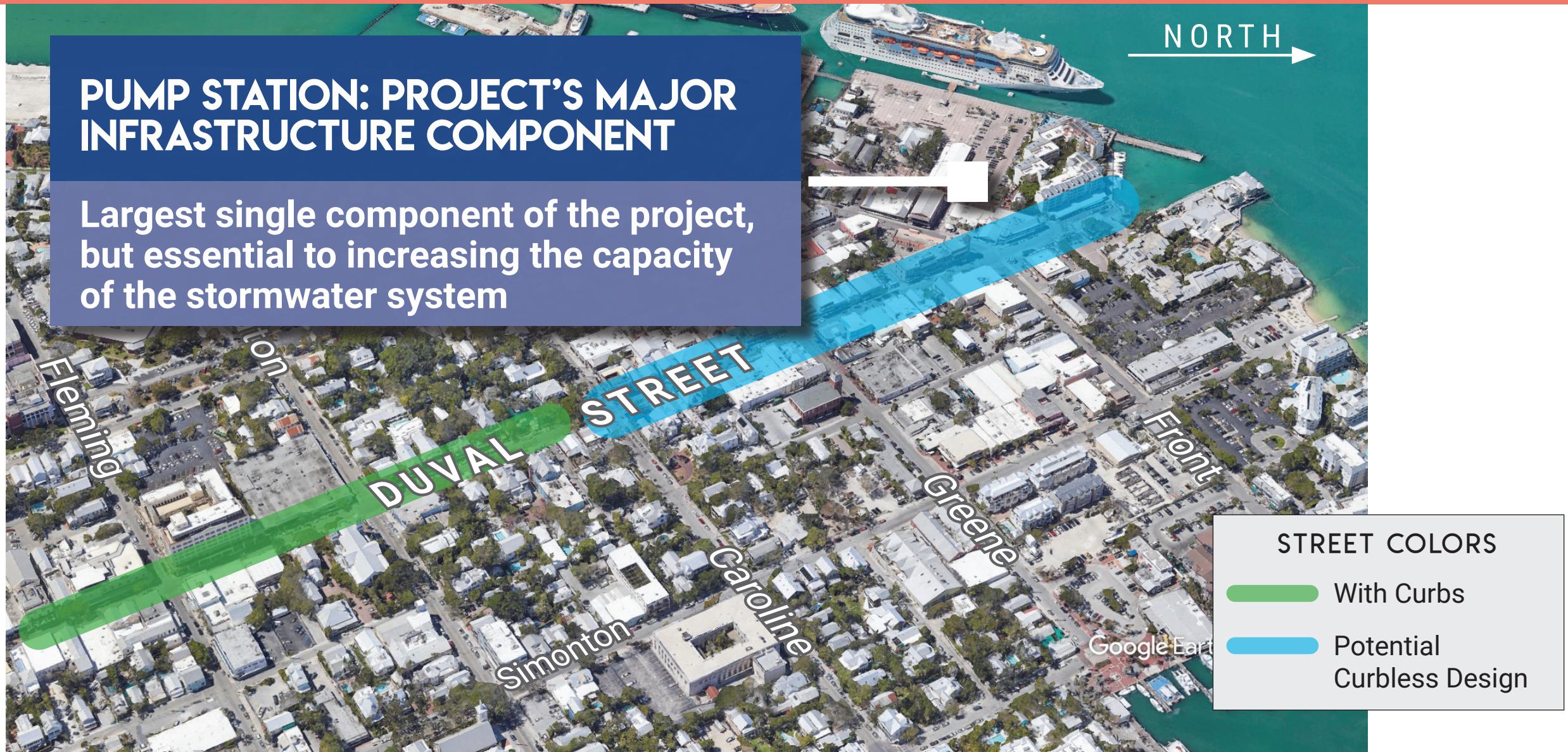
**Extensive amounts needed:** ideal applications would be on every block to meet water quality requirements



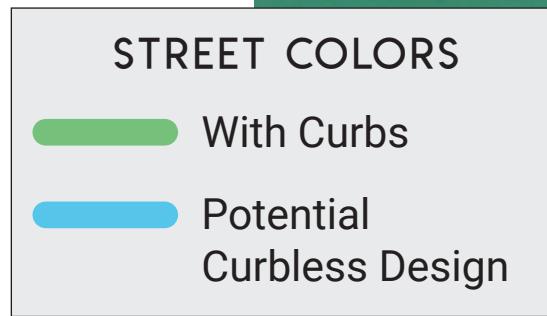
# THE DUVAL STREET CONCEPT



# CONCEPT: LOWER DUVAL



# CONCEPT: LOWER DUVAL



# DUVAL STREET TODAY AT GREENE STREET



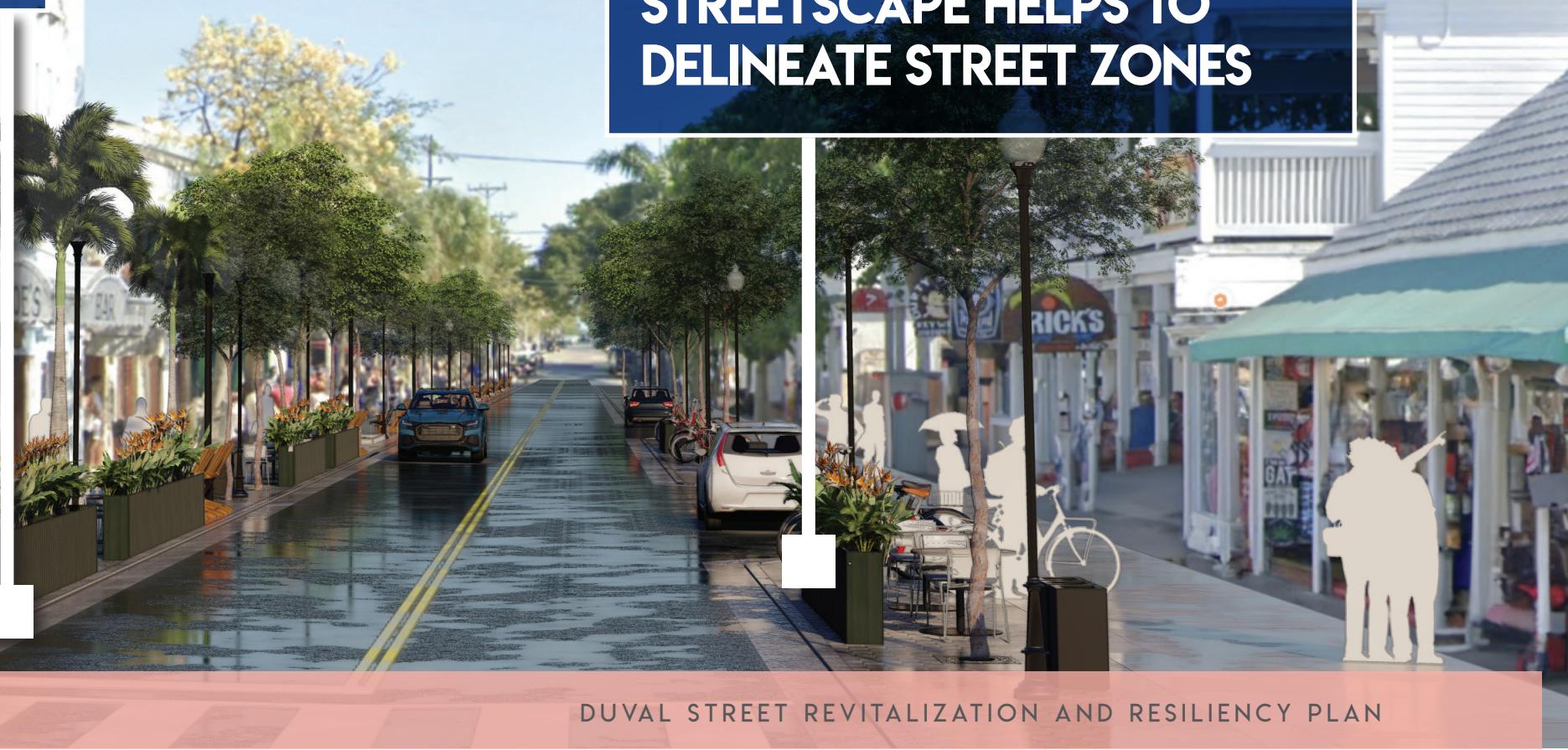
# NEW DUVAL STREET CONCEPT AT GREENE STREET

POTENTIAL CURBLESS DESIGN

SIDEWALK WIDENED



STREETSCAPE HELPS TO  
DELINEATE STREET ZONES



# CONCEPT: MID-DUVAL



# 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

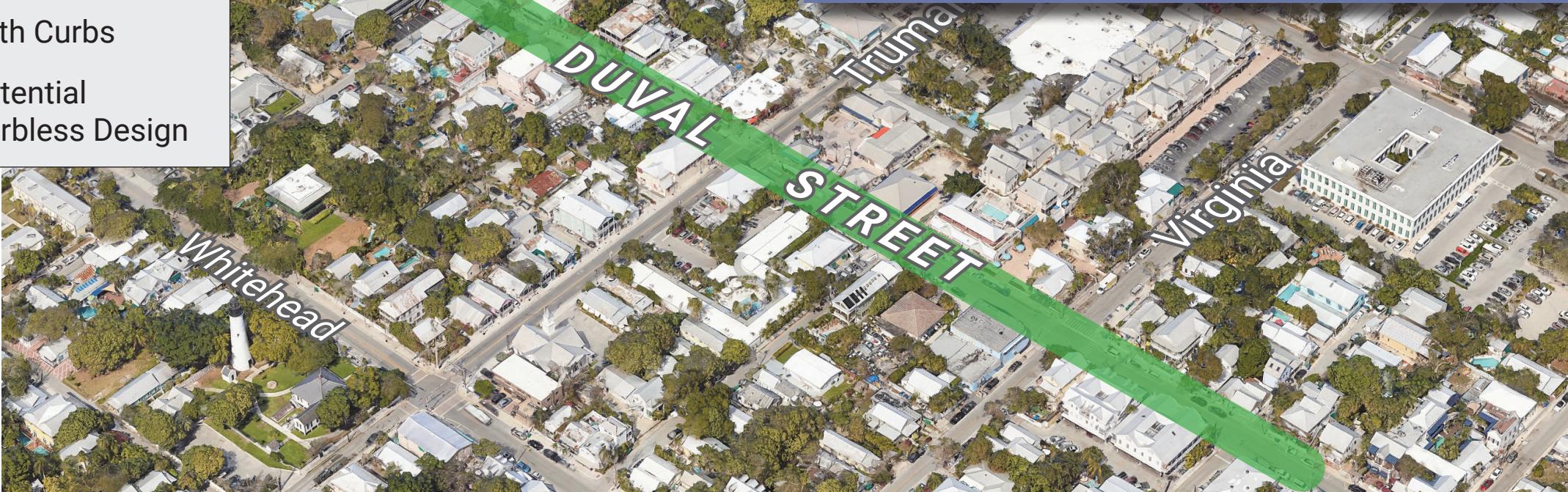


## CURBED SECTIONS GREEN INFRASTRUCTURE THROUGHOUT

Helps with flooding, but essential for water quality

### STREET COLORS

- With Curbs
- Potential Curbless Design



# DUVAL STREET TODAY AT OLIVIA STREET



# NEW DUVAL STREET CONCEPT AT OLIVIA STREET

MORE CONSISTENT SHADE

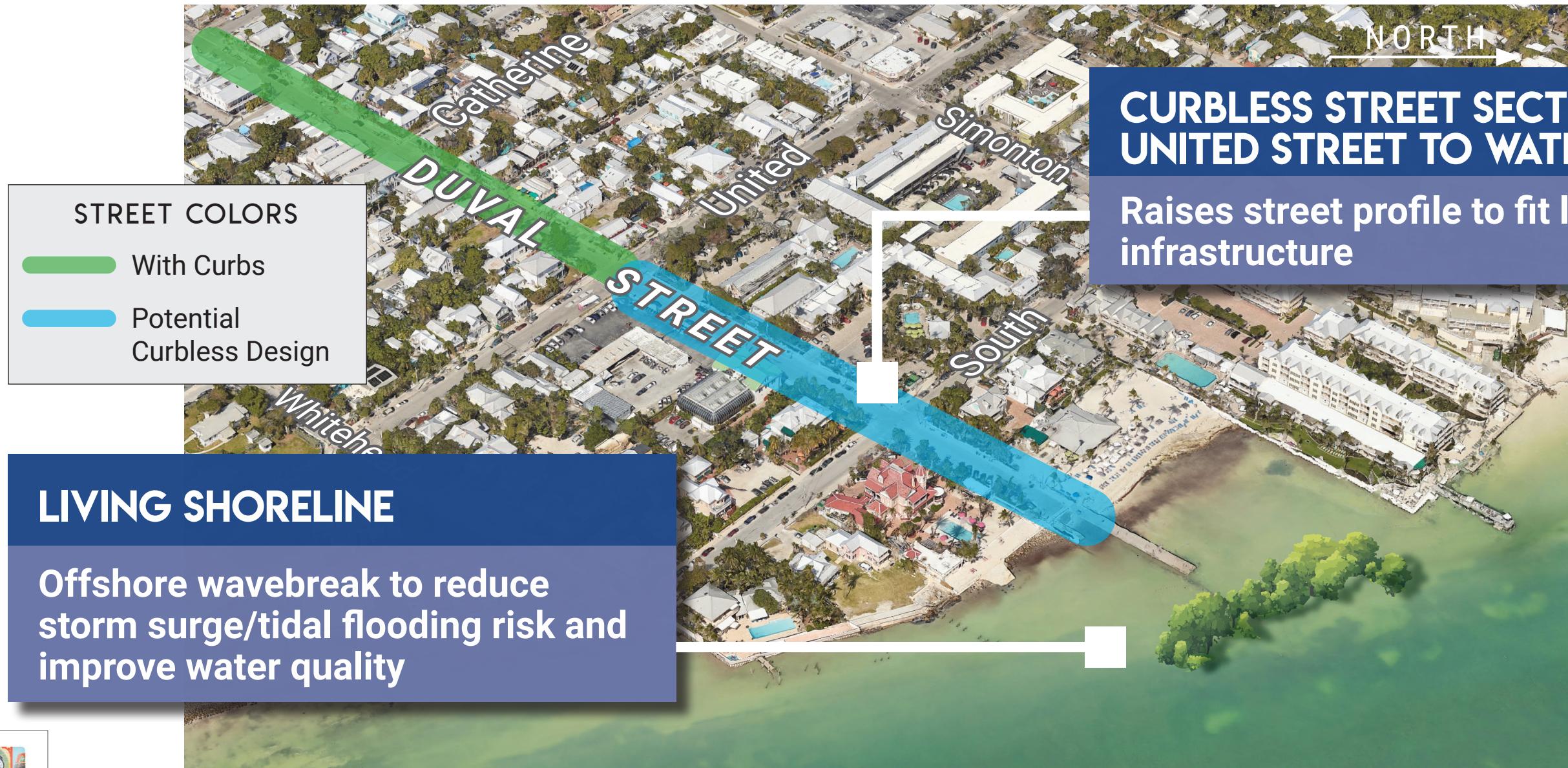
SIDEWALK WIDENED

GREEN INFRASTRUCTURE

STREETSCAPE APPROPRIATE  
TO LAND USE NEEDS



# CONCEPT: UPPER DUVAL



# THE OPPORTUNITIES OF THIS CHANGE



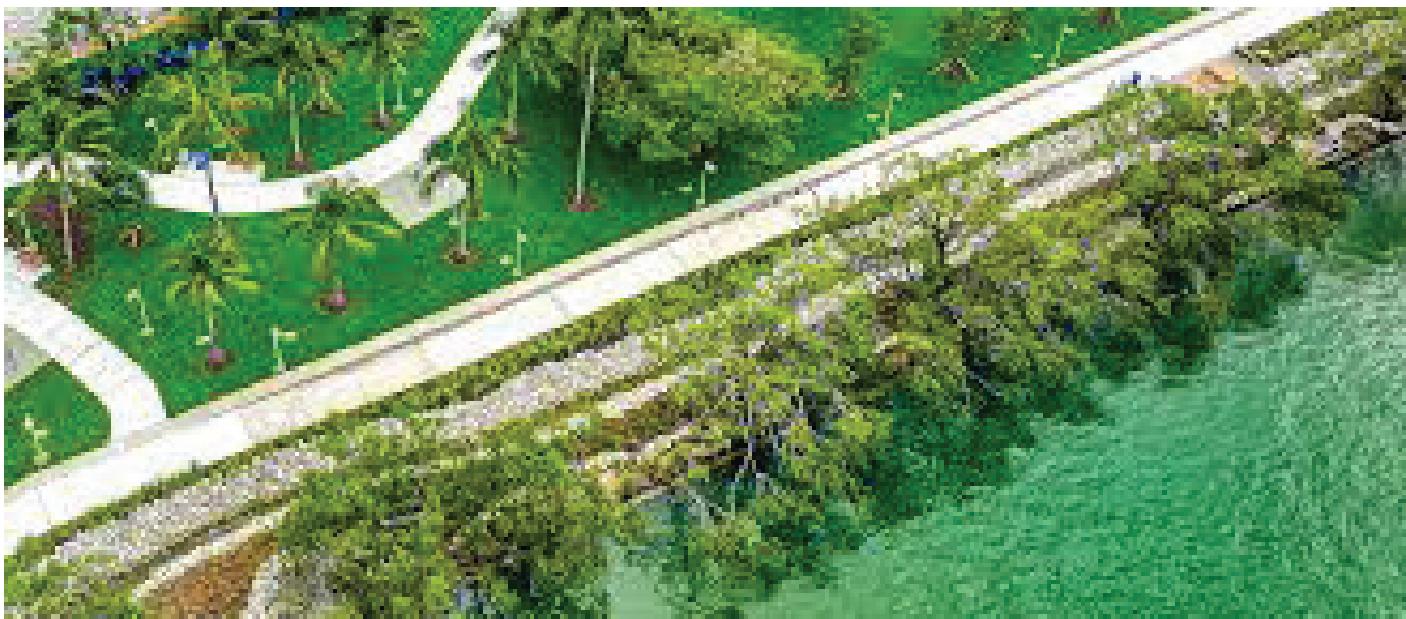
## Balancing The Street

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

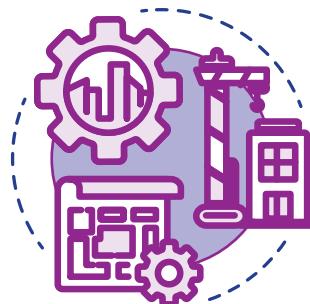
With rebuilding the street, now is the time to reconsider overall street character

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

Complexity of  
Implementation  
EASY  
MEDIUM  
DIFFICULT

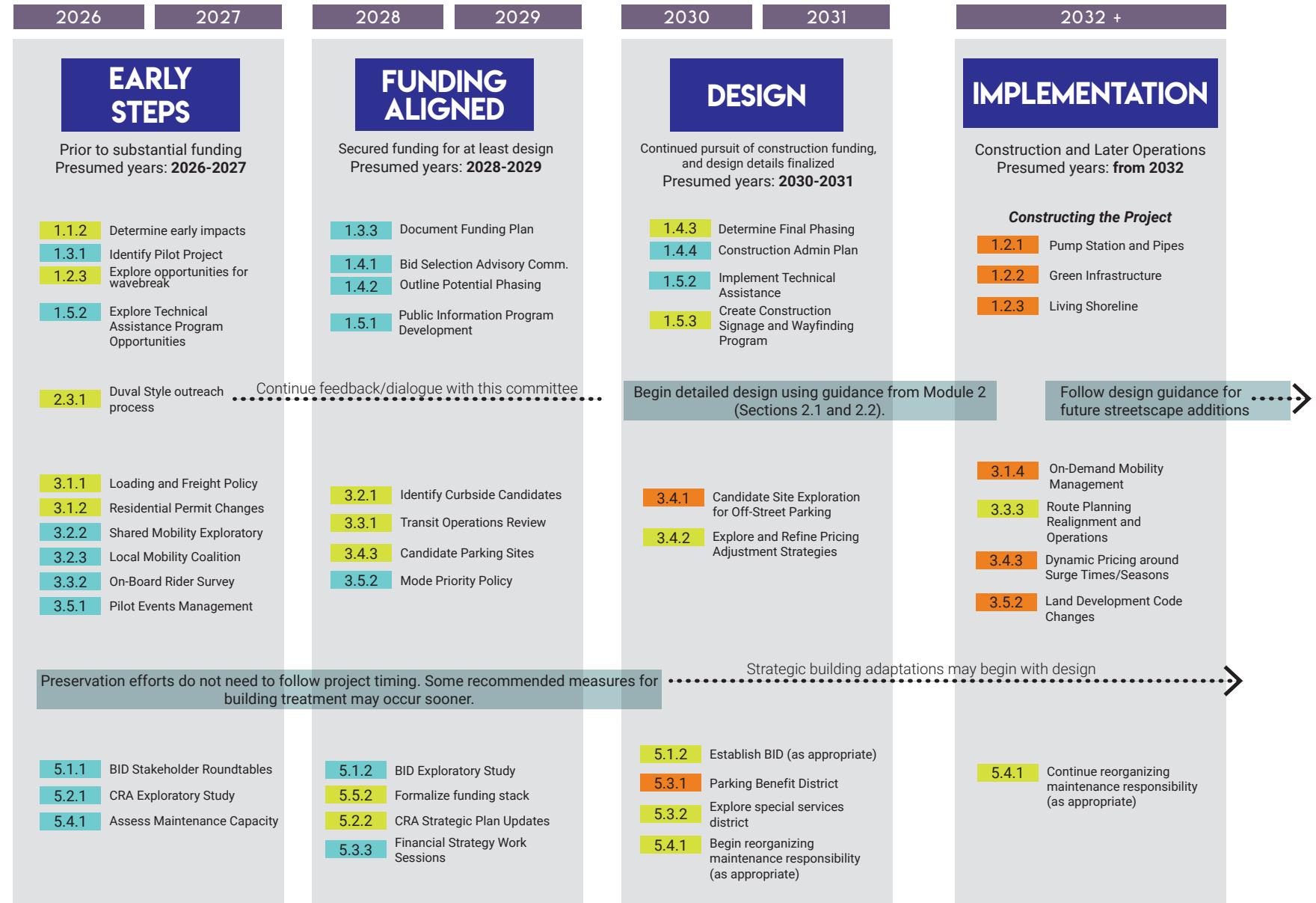
MODULE 1  
CAPITAL  
PROJECT

MODULE 2  
STREETSCAPE

MODULE 3  
MOBILITY

MODULE 4  
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FUNDING

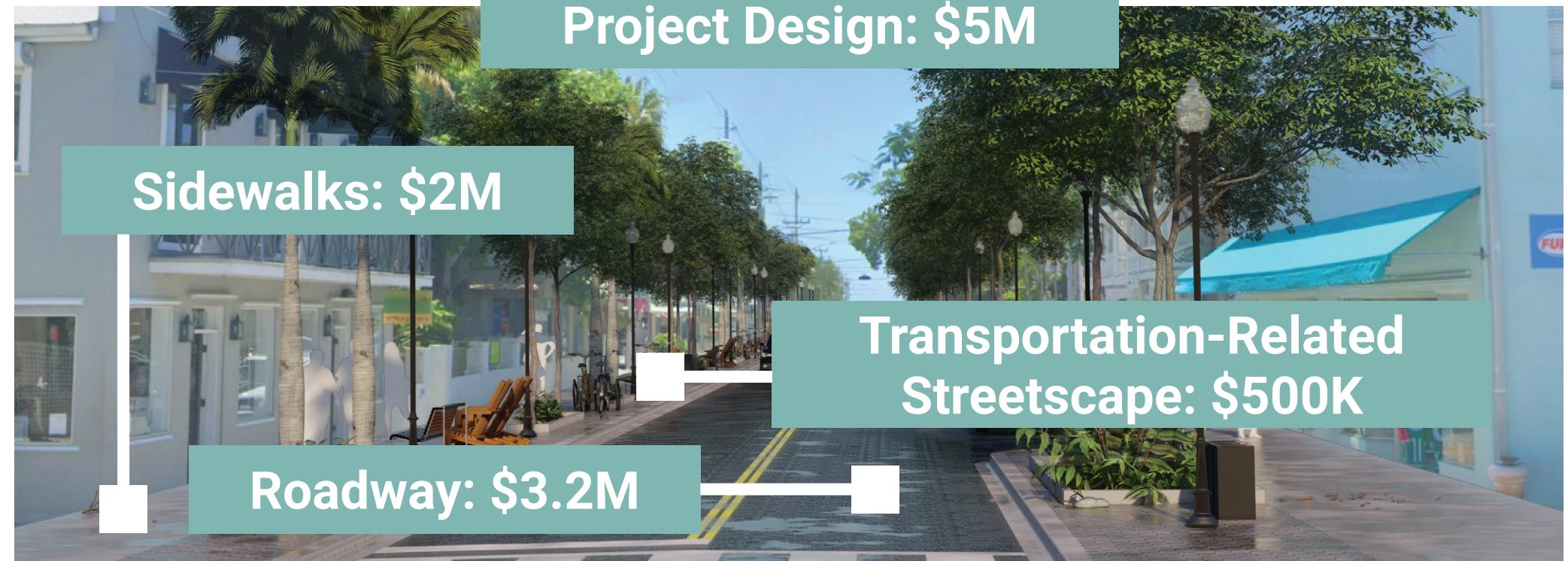


# CITY'S PATH TO PROGRESS

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

## SIMPLE FUNDING SCENARIO

### Federal Sources



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## SIMPLE FUNDING SCENARIO

State Sources

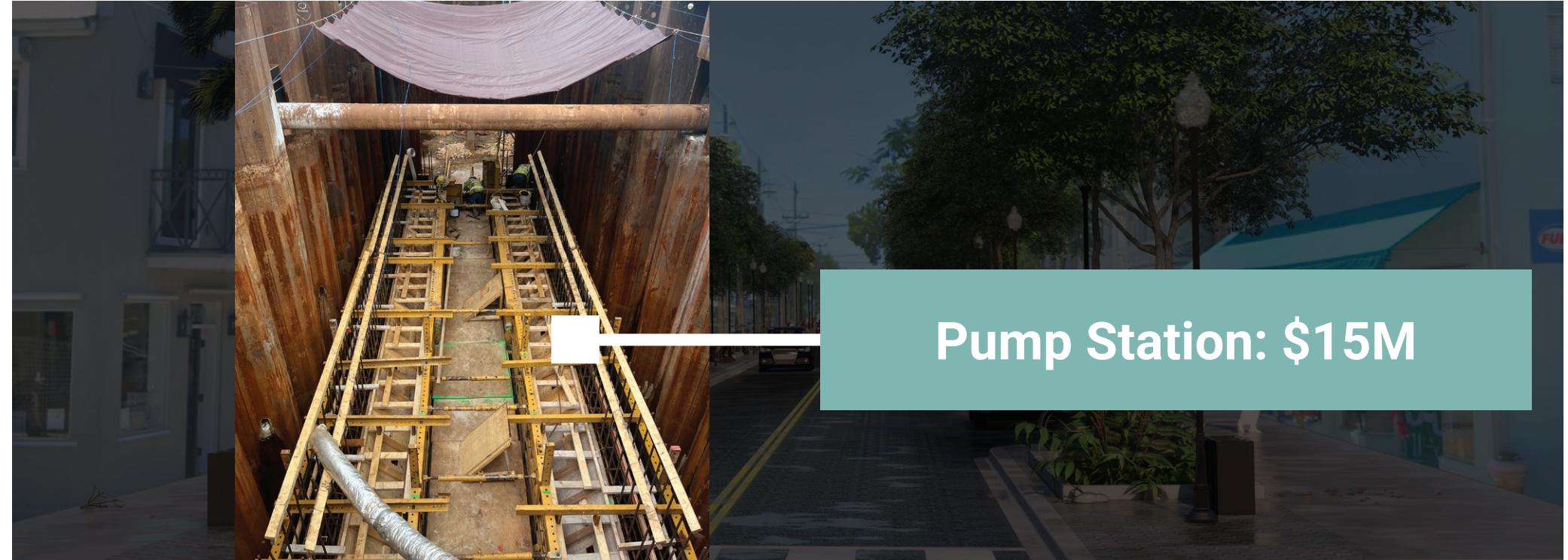


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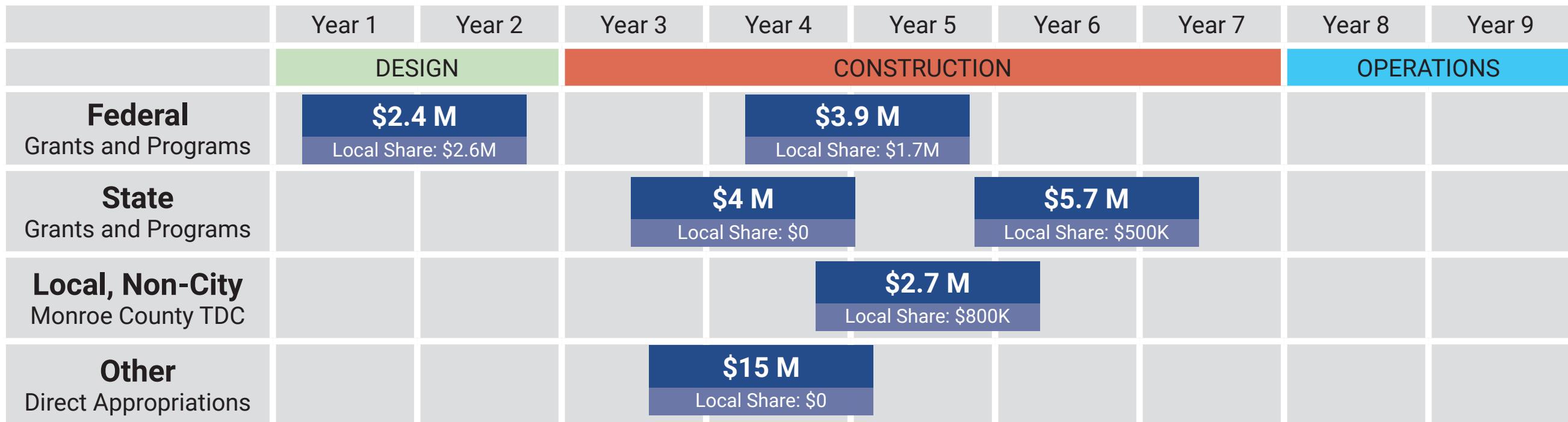
## SIMPLE FUNDING SCENARIO

### US Congress/Florida Legislature Lobbying

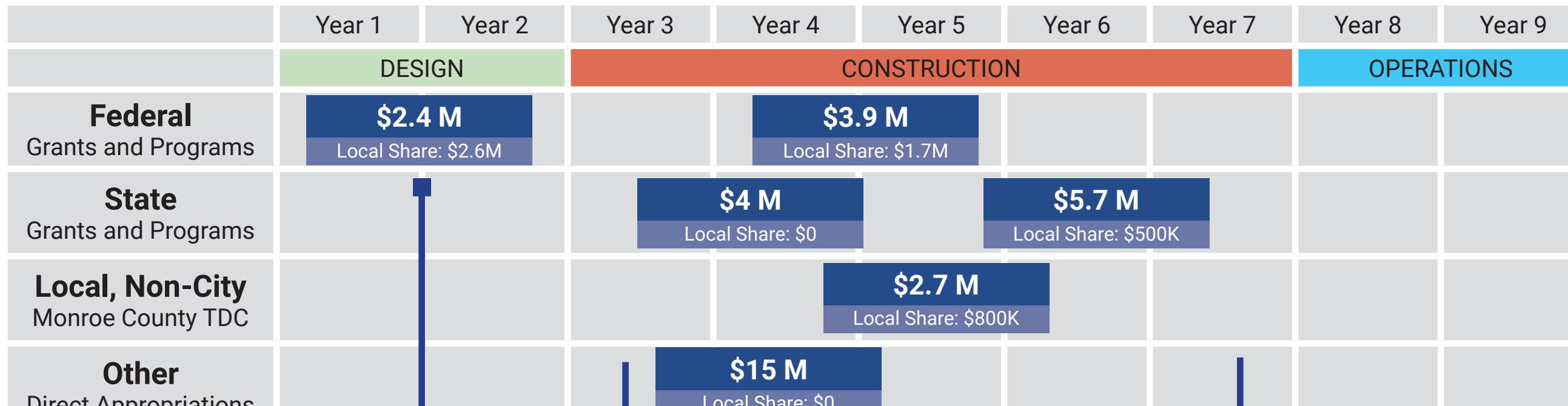


**Pump Station: \$15M**

# CITY'S PATH TO PROGRESS



# CITY'S PATH TO PROGRESS



**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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Stantec