



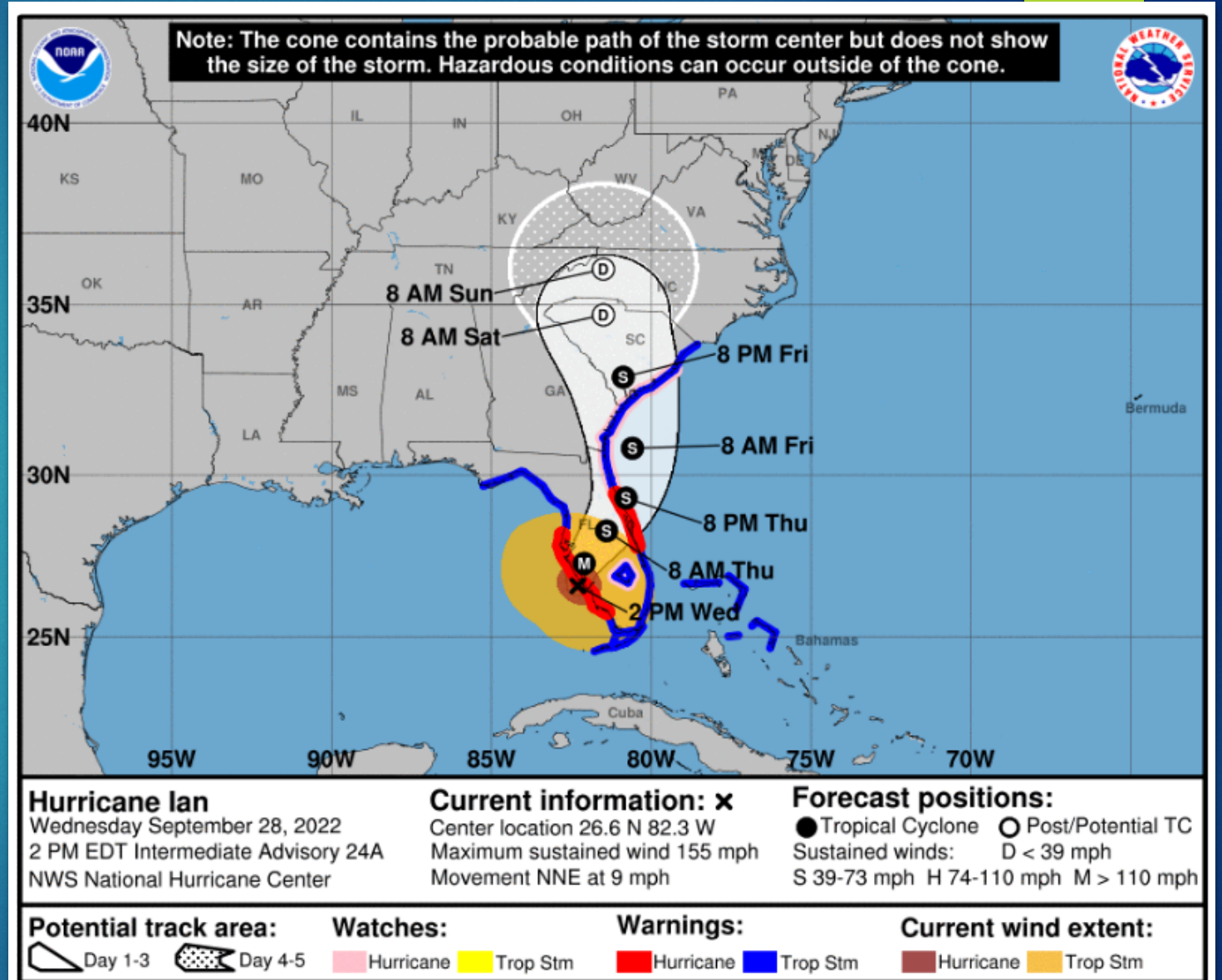
# Sanibel Causeway EMERGENCY RESTORATION

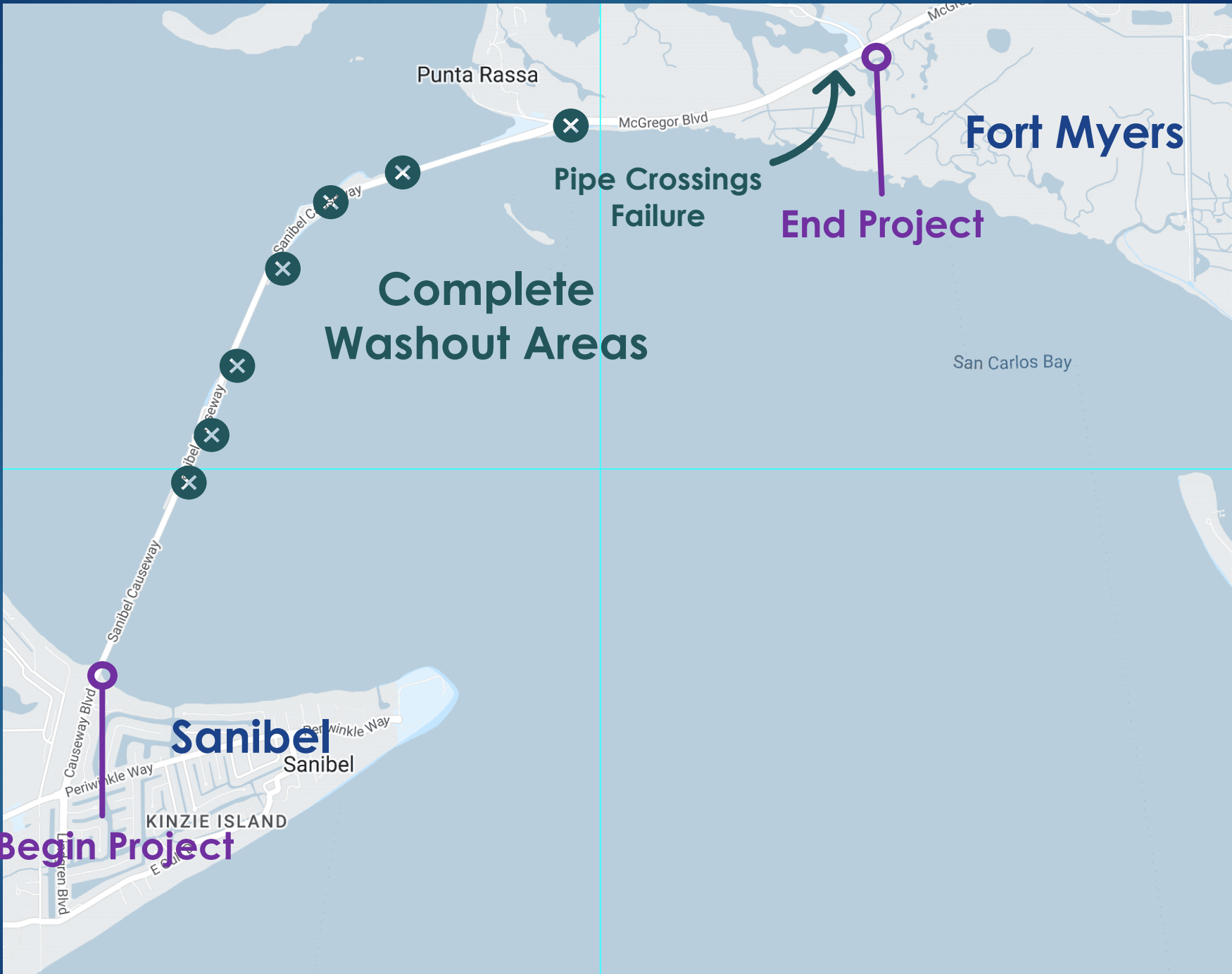
CHARITABLE FOUNDATION OF THE  
ISLANDS LEADERSHIP CLASS

JANUARY 25, 2024

# Hurricane Ian Category 4

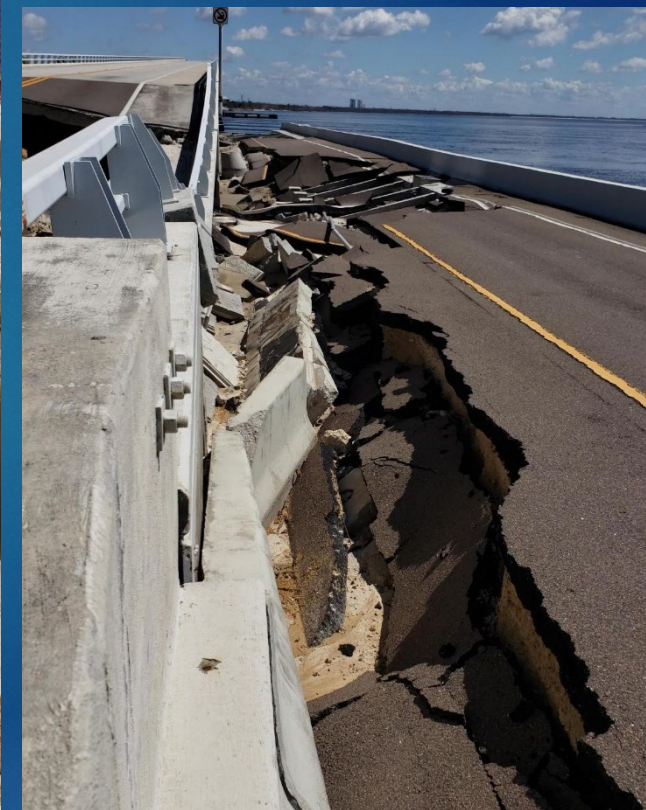
- ▶ Wednesday, September 28, 2022
- ▶ Landfall: Cayo Costa





# THE BEGINNING

► October 2022



# Causeway Washouts A-B

Before Hurricane Ian

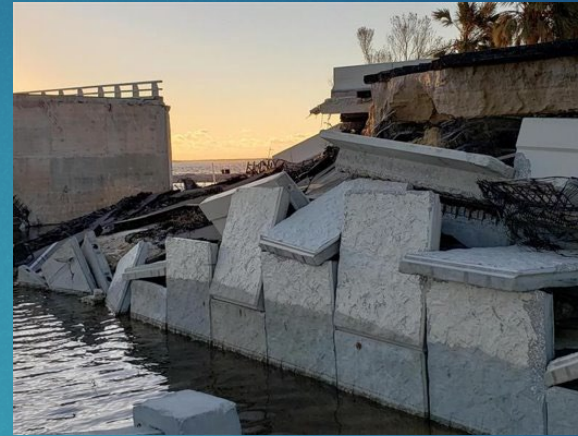


After Hurricane Ian



# Causeway A-B

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# Causeway A-B

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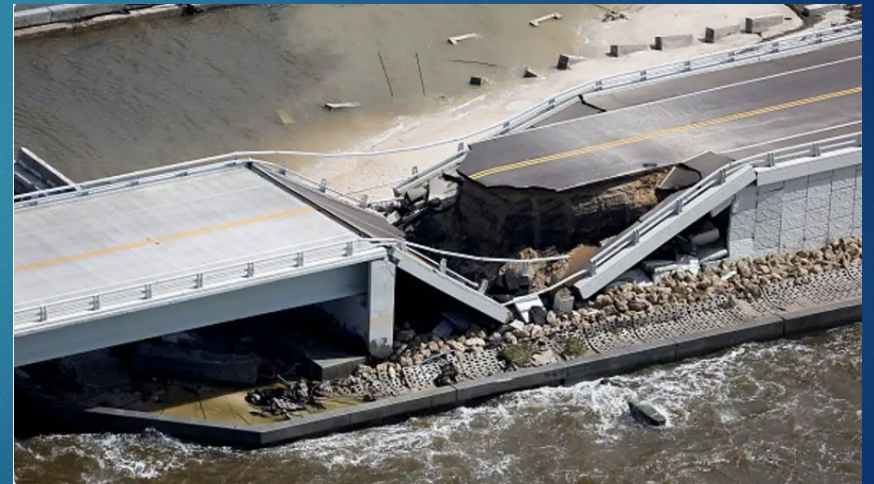


# Causeway B-C





# Causeway B-C



# Access to Sanibel Island – Temporary Repairs

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## Anticipated Scope of Work:

- Clearing of debris as needed to install temporary repairs
- Rebuild stable roadbed for acceptable driving surface
- Stabilize (rebuild) approach slabs to bridges
- Provide two-lane access from Fort Myers (mainland) to Sanibel Island.

**Initial Estimated Cost:** \$20-40 Million

**Estimated Time:** 25 Days (October 29<sup>th</sup>)

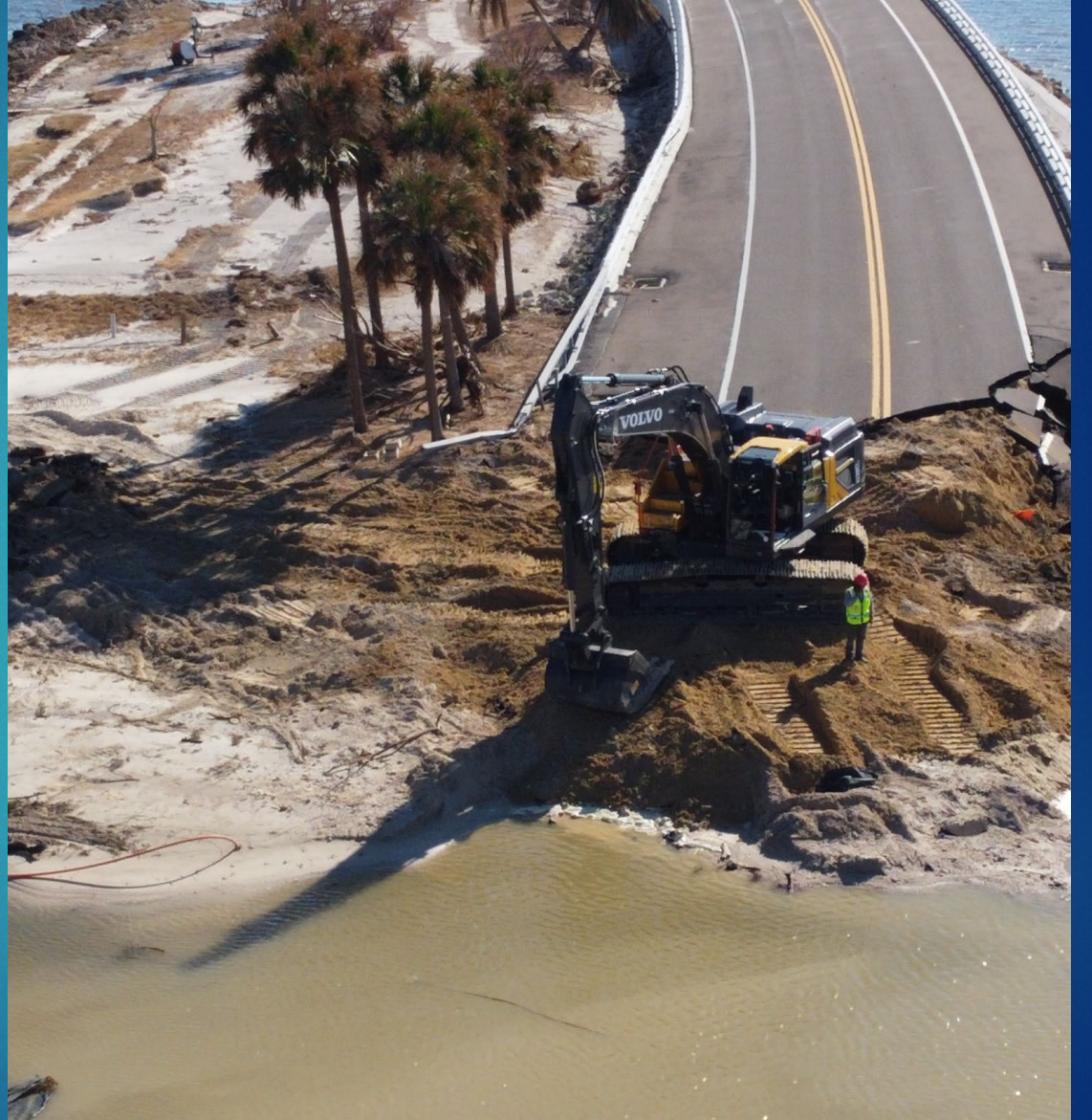


DAY 1

Wednesday, October 5, 2022

Mobilization











DAY 7

Tuesday, October 11, 2022  
Convoy Crossing





## DAY 15

Wednesday, October 19, 2022

Temporary Roadway  
Open to Hurricane Pass Holders

- ▶ Over 100 crew per day
- ▶ Over 36,000 workforce hours
- ▶ Work Schedule - 24/7 for 15 Days
- ▶ Over 70 pieces of heavy equipment operating daily
  - 4 Barges
  - 7 Cranes
  - 2 Dredges
  - 5 Boats



# Access to Sanibel Island – Permanent Repair

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## Anticipated Scope of Work:

- Build the roadway to standards and specifications
- Building permanent bridge approaches
- Restore drainage, lighting, pavement markings and provide access for utility service along the causeways

**Initial Estimated Cost:** \$250 - \$300 Million

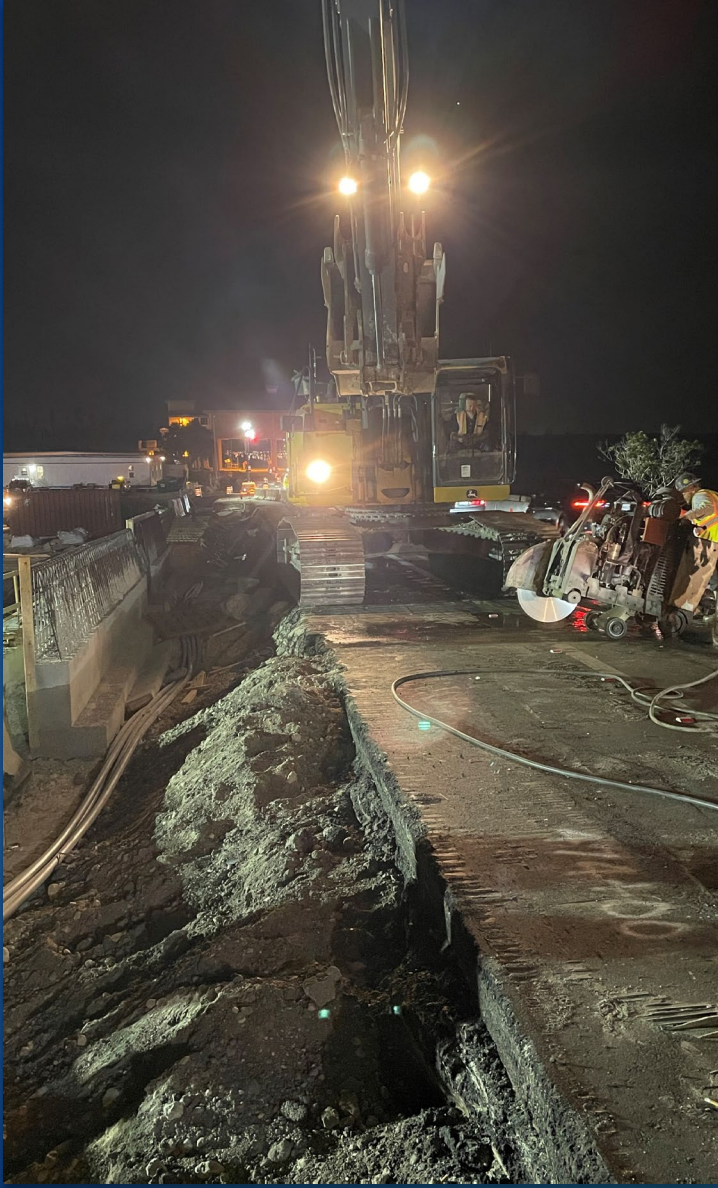
**Estimated Time:** 1 year



# PROGRESS MILESTONES



## ► Temporary Roadway



► Bridge Approaches Rebuilt



# Several New Resiliency Features

- ▶ Several layers of protective sheet pile walls – each with a protective concrete cap
  - ▶ Island walls protect the causeway islands roadway – **completed**
  - ▶ Sea walls protect the bridge approaches – **ongoing**
  - ▶ Retaining walls protect the sides of the bridges – **ongoing**
  - ▶ King pile protect the area near the approach slabs – **completed**
- ▶ Marine mattresses absorb wave energy
- ▶ Armor stone protects bridge abutments
- ▶ Road surface 2' higher
- ▶ Drainage system adjacent to road
- ▶ Green infrastructure

## Framework for the Island Wall caps







► Island Walls –  
On Island Sheet Pile Installation  
Protection you can't see

- ▶ Cranes Placing King Pile – Provide wall structure



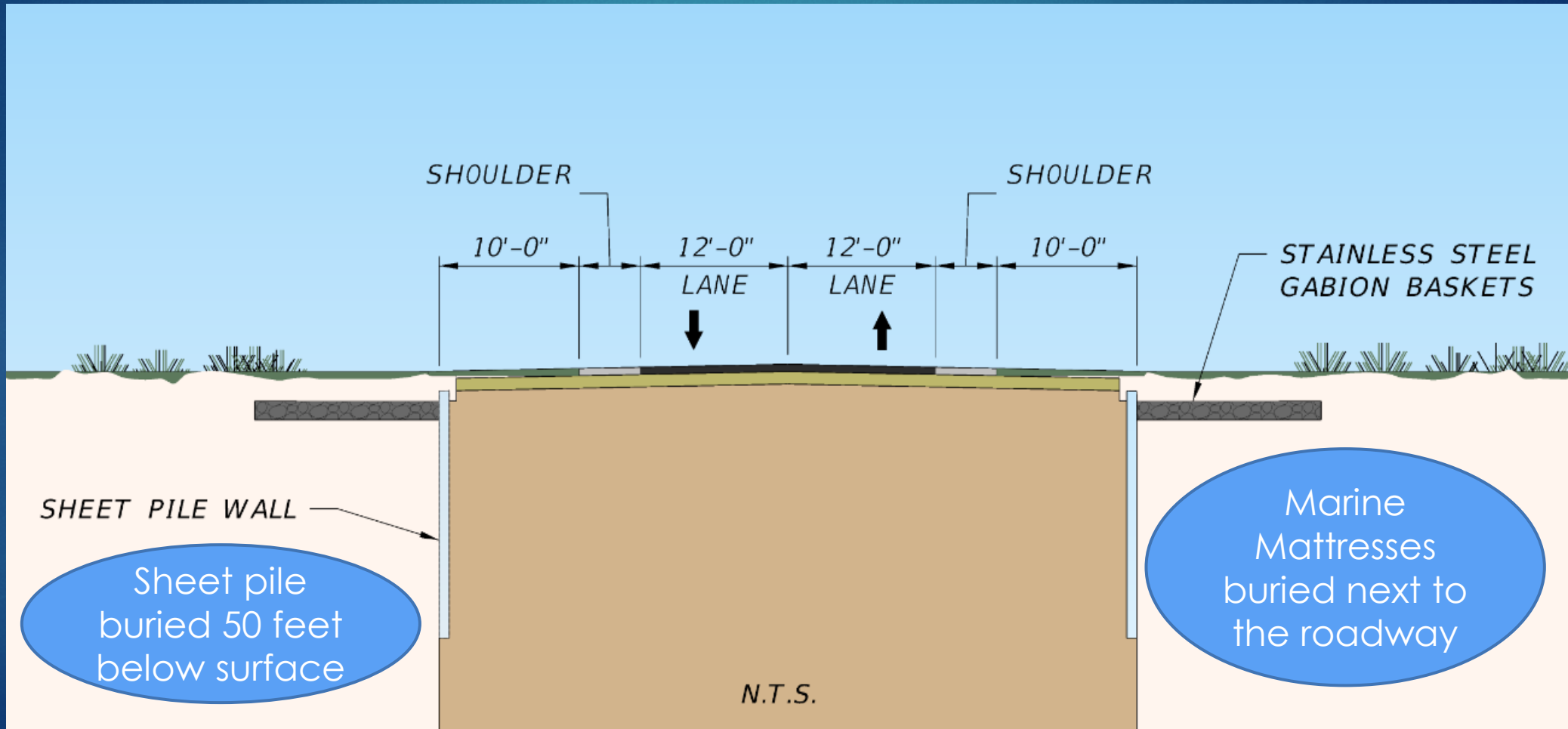


# Installation of Marine Mattresses

- ▶ Fully buried
- ▶ Fastened to retaining walls
- ▶ Absorb wave energy

# Permanent Repairs – Roadway

- ▶ Typical location of sheet pile and marine mattresses



# Green Infrastructure includes:

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- ▶ Native plantings



- ▶ Mangroves



# Substantial Permanent Roadway Completion – Dec. 22, 2023

- ▶ Two, 12-foot lanes through majority of Causeway
- ▶ Shoulders
- ▶ Smoother driving surface
- ▶ Fewer traffic shifts
- ▶ Minimal impacts to traffic



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WHAT'S LEFT TO DO?



# Armor Stone

- ▶ Protects the bridge abutments
- ▶ Will continue into 2025



# Earthwork/ Grading

- ▶ Shape embankments
- ▶ Fine grade to set causeway islands back to pre-storm configuration
- ▶ Prepare for placement of marine mattresses



# Placement of Sod



# WHAT TO EXPECT

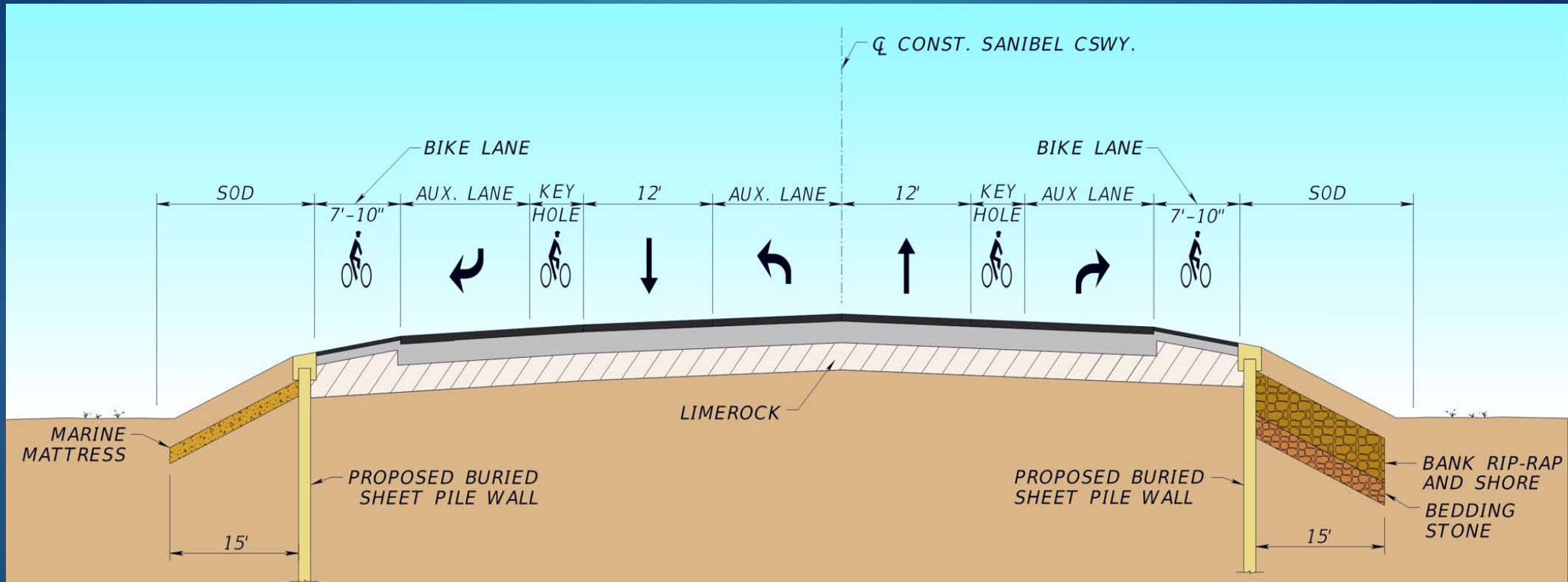


## In the Work Zone

- ▶ Construction vehicles throughout life of project
- ▶ No extended stops are permitted
- ▶ No anticipated flagging during peak hours
- ▶ Crews will be utilizing area behind barrels as much as possible

# Permanent Repairs – Island Roadway Design

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Preliminary - Subject to change



## On McGregor Boulevard

- ▶ Installation of marine mattresses for erosion control
- ▶ One lane continues from toll plaza until Port Comfort Road
- ▶ No access to shoulder

# Restoration of Punta Rassa Boat Ramp



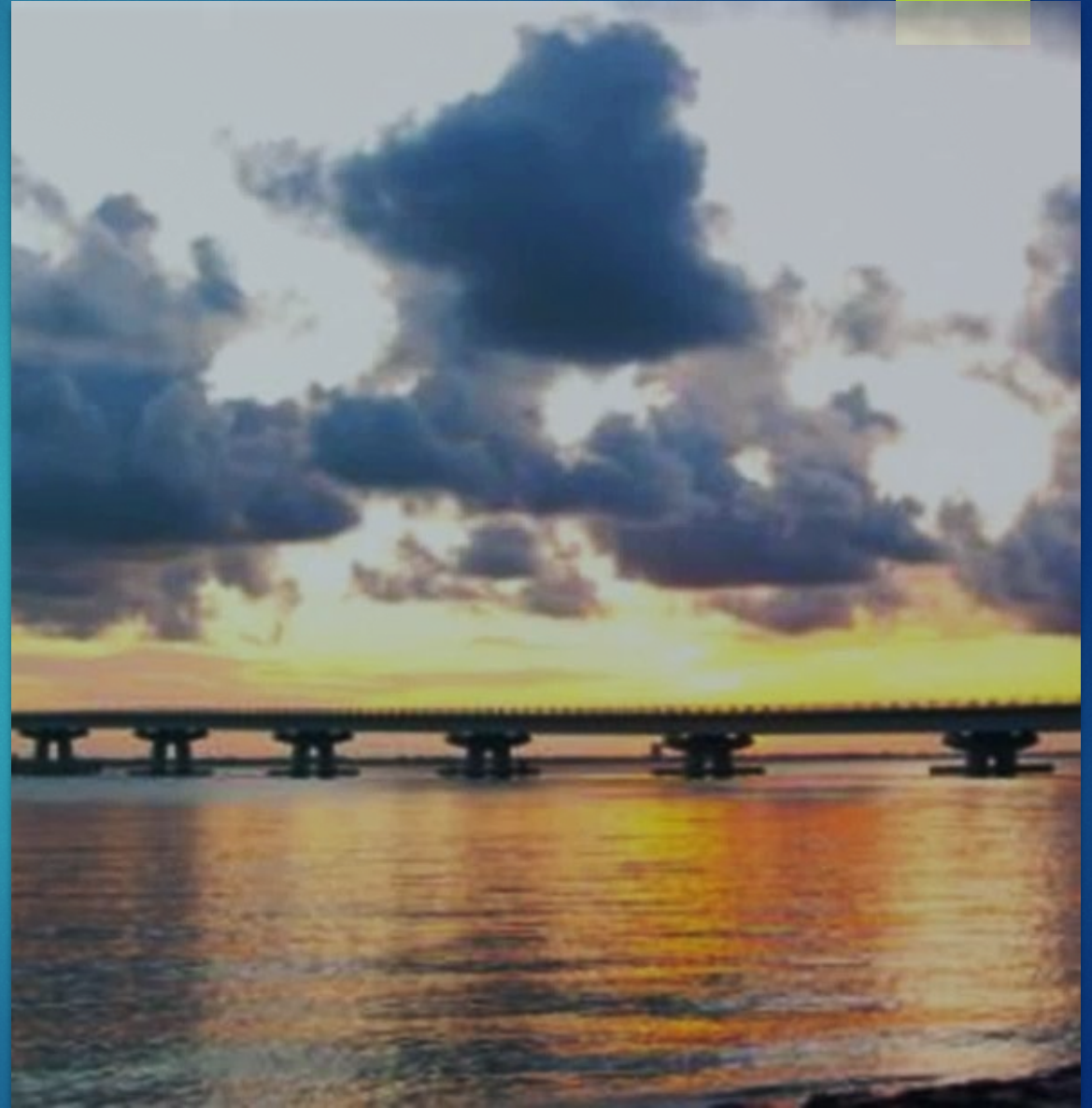


# Restoration of Causeway Islands Park (Lee County)



# Timeline

- ▶ Armoring (bridge protection) estimated completion – early 2025
- ▶ Causeway islands recreation areas restoration – estimated completion – mid 2027



# QUESTIONS?

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Community Liaison

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239-338-7723



**FDOT**

**Hurricane Ian Sanibel Island Access**

from Sextant Drive to Port Comfort Road

[www.swflroads.com/SanibelCauseway](http://www.swflroads.com/SanibelCauseway)

*\*PUBLIC ACCESS TO THE CAUSEWAY ISLANDS IS PROHIBITED DURING CONSTRUCTION\**

[www.swflroads.com/SanibelCauseway](http://www.swflroads.com/SanibelCauseway)