



SEVEN MILE BRIDGE



Hybrid Public Kick-off Meeting

SR 5/US 1/Overseas Highway Seven Mile Bridge (Bridge No. 900101) over the Moser Channel PD&E Study
Financial Management Number: 448207-1-22-01 | ETDM 14513

May 16, 2024

How to Participate Tonight



Virtual

Virtually via a computer, tablet, or smartphone using GoToWebinar

Attendees will remain muted throughout the meeting. Questions and comments can be submitted in the Question Pane. If you wish to speak, click the “Raise Hand” button and you will be unmuted during the Question-and-Answer session.



In-person

Marathon Government Center –
BOCC 2798 Overseas Highway,
2nd Floor, Marathon, FL 33050
Attendees may fill out a comment form or a speaker card to provide verbal comment.



Dial-in

Dial-in Attendees are in “listen only” mode

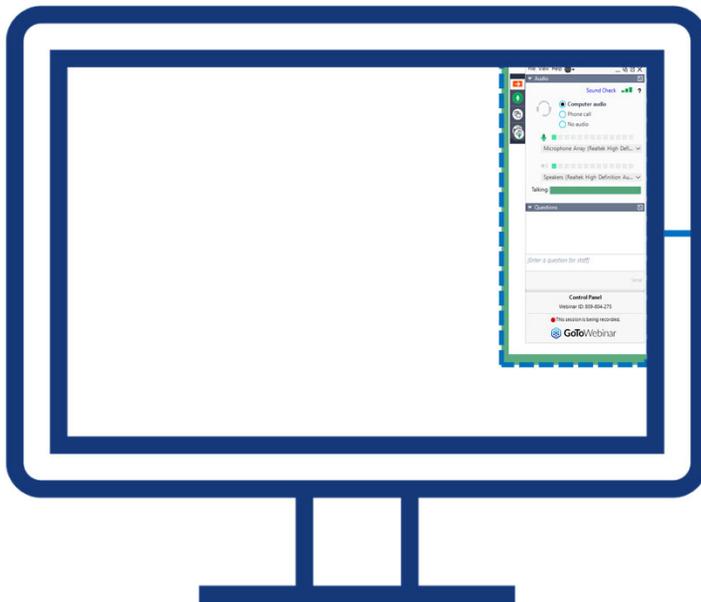
*If you are calling via a phone, you can submit your comments via the project website:
www.SevenMileBridge.com*



Broadcast

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MCTV/76

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Type your issue in Question Pane of the Control Panel. We will do our best to assist you.

Liz.Campos@hdrinc.com
(917) 913-9638

¿Habla español?

Si necesita traducción por favor comuníquese con nosotros.

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Raul.Quintela@dot.state.fl.us

Public Notice



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**Florida Administrative
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Pop-up Event

7 Mile Bridge Run Registration



Title VI Non-discrimination Statement and Contacts

The Florida Department of Transportation is required to comply with various **non-discrimination laws and regulations**, including **Title VI of the Civil Rights Act of 1964**. **Public participation is solicited without regard to race, color, national origin, age, sex, religion, disability, or family status.**

Persons wishing to express concerns about Title VI may do so by contacting either:

Tish Burgher (Interim)

District 6 Title VI Coordinator

1000 NW 111th Ave, Miami, FL 33172

(305) 470-5277, Tish.Burgher@dot.state.fl.us

Stefan Kulakowski, Statewide Title VI Coordinator

605 Suwannee Street, Tallahassee, FL 32399

(850) 414-4742, Stefan.Kulakowski@dot.state.fl.us

www.fdot.gov/equalopportunity/titlevicontacts.shtm

Federal-State Partnership

The environmental review, consultation, and other actions required by applicable federal environmental laws for this project are being, or have been, carried out by the Florida Department of Transportation (FDOT) pursuant to 23 U.S.C. §327 and a Memorandum of Understanding dated May 26, 2022, and executed by the Federal Highway Administration (FHWA) and FDOT.

Federal, State, County, or City Officials in Attendance





Agenda

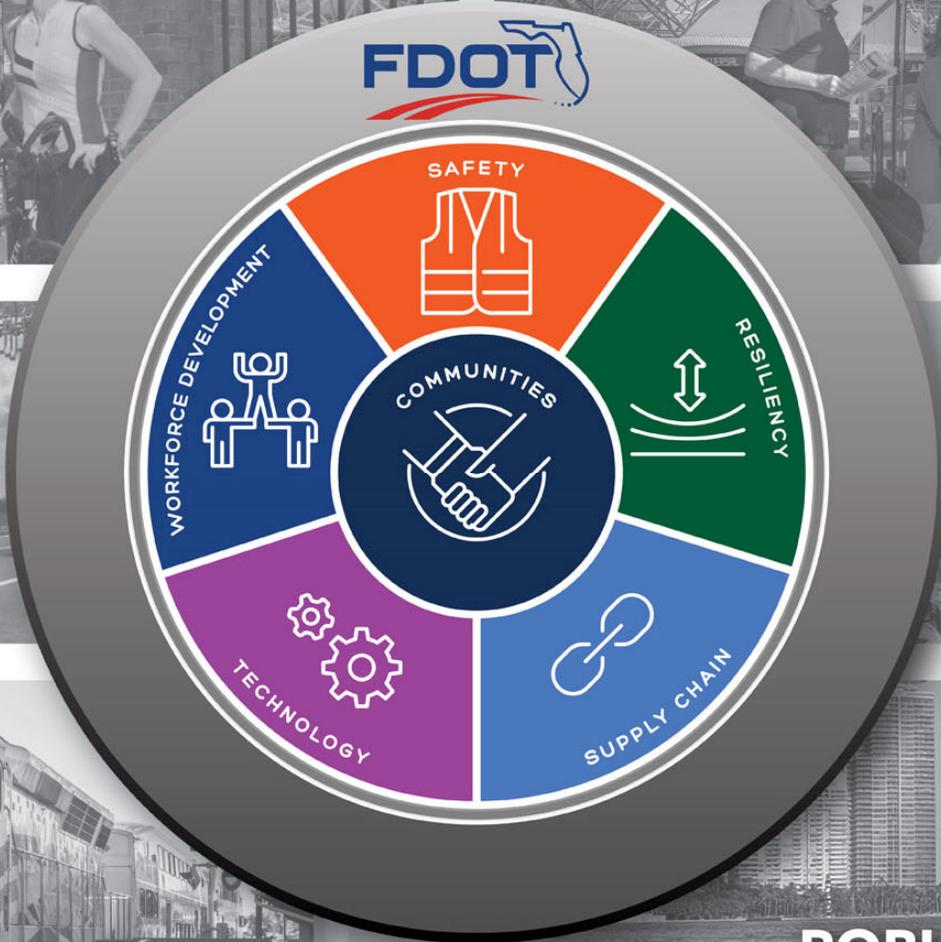
- 1 Project Location
- 2 Transportation Project Delivery Process
- 3 Project Development and Environment (PD&E) Study Process
- 4 Seven Mile Bridge Facts
- 5 Project Purpose and Need
- 6 Alternatives Evaluation Process
- 7 Engineering and Environmental Analysis
- 8 Agency Coordination
- 9 Schedule
- 10 Q&A

Project Location

LEGEND:

- Study area
- Florida Keys Overseas Heritage Trail







Purpose and Need

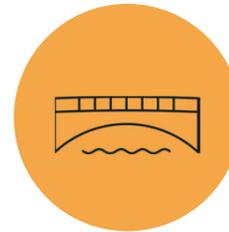
The purpose for this project is to evaluate alternatives to address the structural deficiencies of the existing Seven Mile Bridge. The PD&E Study will evaluate the potential social, economic, and environmental effects associated with the proposed transportation improvements. The alternatives developed will seek to improve:



Safety



Mobility for all users



Structural resiliency



Evacuation & emergency response

Seven Mile Bridge Facts

Florida Keys Scenic Highway and All-American Road



Year Constructed: 1982

Bridge Type: Precast Segmental Box Bridge

Bridge Length: 35,863-ft (6.792 miles)

Navigational Channel: Moser Channel has 65-ft vertical clearance, 90-ft horizontal clearance

Approach Spans: 18-ft ~ 20-ft vertical clearance, 132-ft horizontal clearance

Piers: 236 low-level piers, 29 high level vertically post-tensioned box piers

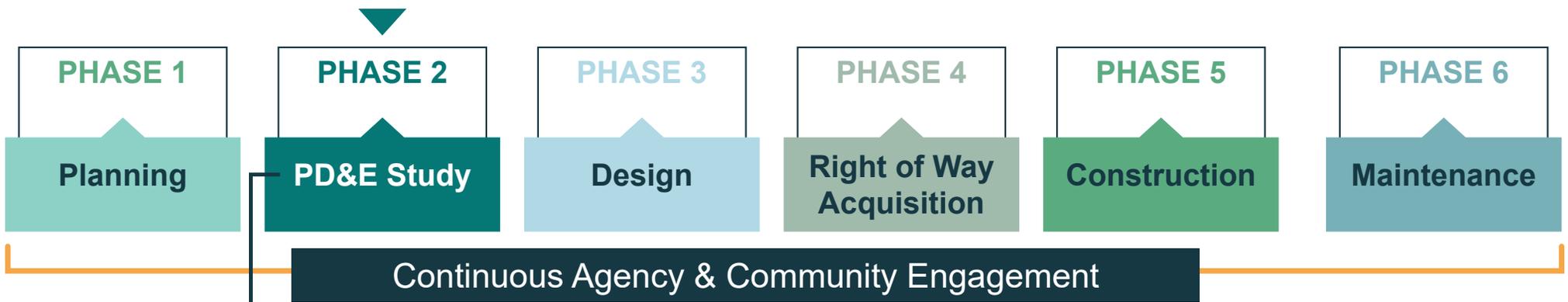
Travel Lanes: Two 12-ft travel lanes

Shoulders: 6-ft shoulders on both sides of the bridge

Sidewalks: No existing sidewalks

Transportation Project Delivery Process

WE ARE HERE



Evaluate:

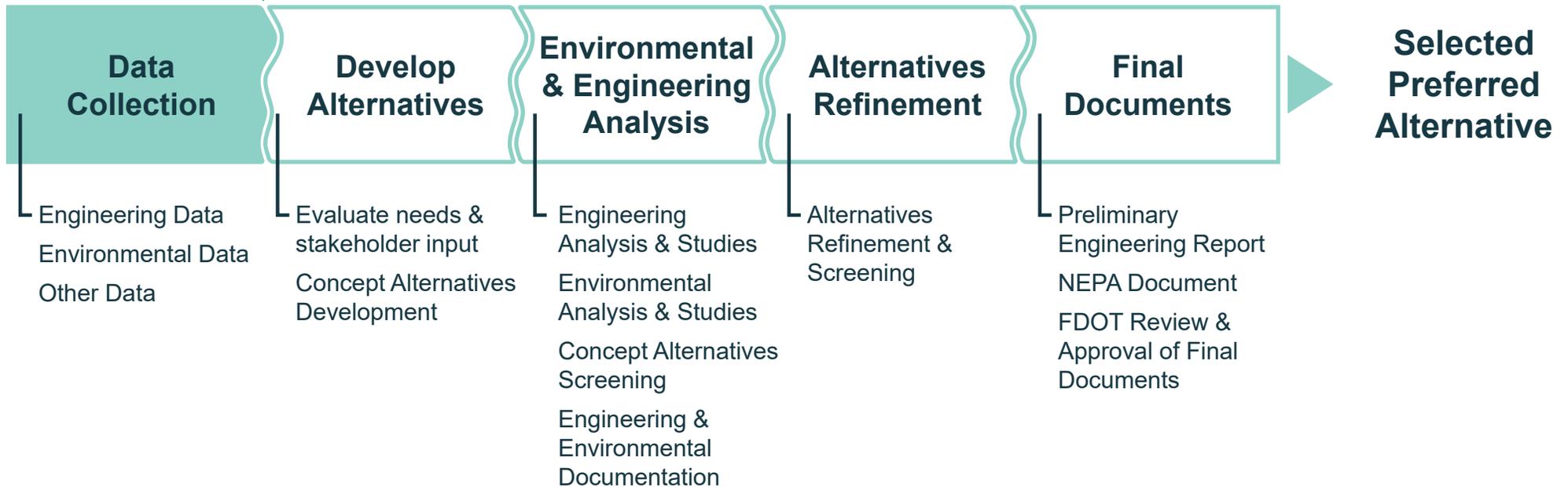
- Engineering Alternatives
- Environmental Impacts (Social, Economic, Cultural, Natural & Physical Resources)

Comply With:

- National Environmental Policy Act (NEPA)
- Federal & State Environmental Laws
- Requirements Involving Federal Funding

Project Development & Environment (PD&E) Study Process

Project Kick-off Meeting
May 16, 2024





Sufficiency Rating

Seven Mile Bridge Sufficiency Rating: 49.1

What is a Sufficiency Rating?

- A tool used to help determine whether a bridge should be repaired or replaced.
- A method established by the Federal Highway Administration to **evaluate the health of a bridge**.

What happens when the Sufficiency Rating is **less than 50**?

- The bridge becomes eligible for Federal Highway Bridge Program funding as a replacement.

A low Sufficiency Rating **does not** mean the bridge is unsafe.





Bridge Durability and Maintenance

Seven Mile Bridge is NOT Structurally Deficient

History or Repairs and Rehabilitation

- Recurrent corrosion and maintenance issues
- Major rehabilitation has occurred 6 times since construction
- Substructure rehabilitated in 2019

FDOT Reports Recommend Evaluation of Replacement

- Life Cycle Cost Analysis (LCCA), September 2021
- Seven Mile Bridge Replacement Report, February 2022

Upcoming Bridge Rehabilitation Project, December 2025

- Financial Management No. 446231-1
- Anticipated Completion by October 2026



For more information on the Bridge Rehabilitation project, please contact
hope.sotolongo-miranda@dot.state.fl.us

LEGEND:

-  Study area
-  Florida Keys Overseas Heritage Trail
-  Continuous Seagrass
-  Patchy Seagrass
-  Mile Marker
-  1 Veterans Memorial Beach
-  2 Little Duck Key Wayside Public Boat Ramp
-  Money Key Channel (small vessels)
-  Unnamed Channel (small vessels)
-  Overhead powerlines

Old Seven Mile Bridge

Florida Keys Aqueduct Authority 24-in Watermain (within segmental)



Florida Keys National Marine Sanctuary

Gulf of Mexico

MILE 4 1

MILE 4 2

MILE 4 3

SR 5/US 1/Overseas Highway

INSET

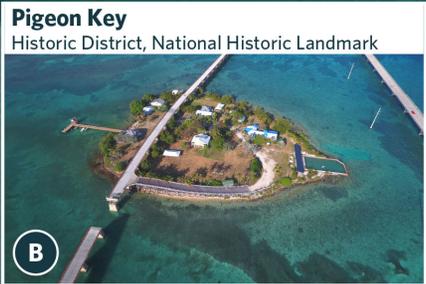
INSET

Little Duck Key

BEGIN STUDY

LOWER KEYS APPROACH





Florida Keys National Marine Sanctuary

Gulf of Mexico

Atlantic Ocean

SR 5/US 1/Overseas Highway

Florida Keys Aqueduct Authority 24-in Watermain (within segmental)

Overseas Heritage Trail/ Old Seven Mile Bridge

MILE 4 7

MILE 4 6

MILE 4 5

MILE 4 4

INSET

END STUDY

INSET

Knights Key

MARATHON APPROACH

LEGEND:

- Study area
- Florida Keys Overseas Heritage Trail
- Continuous Seagrass
- Patchy Seagrass
- Mile Marker
- 1 Sunset Grille and Raw Bar
- 2 Seven Mile Bridge Vista Point
- 3 Rest Area/Scenic Overlook
- \leftrightarrow Moser Channel (USCG Navigable)
- \leftrightarrow Unnamed Channels (small vessels)
- Overhead powerlines





Alternatives Evaluation Process

No Action (or No Build) Alternative

- No improvements
- Serves as baseline for comparison to other alternatives

Transportation System Management and Operations (TSM&O) Alternative

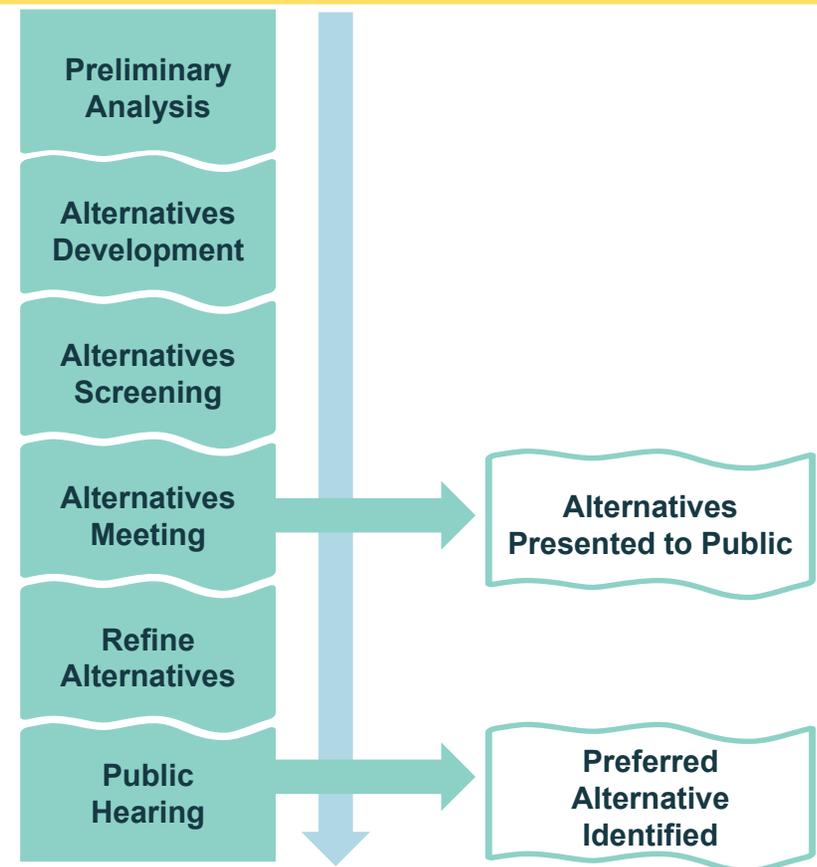
- Improvement of existing traffic signals and other traffic management technologies

Rehabilitation/Repair Alternative

- Serves as baseline for comparison to Build Alternatives
- Documents the need to replace versus rehabilitation or repair of the existing bridge

Build Alternatives

- Several options to be explored



Development of Alternatives in Steps

Step 1: Preliminary Analysis of Alternative Concepts

Alignment

Position of the bridge along a specified path

Typical Section

Illustration of lanes, direction of travel, and pedestrian facilities on the bridge

Screening

High level screening and comparison of Alternative Concepts



Step 2: Development of Build Alternatives

Detailed Alignment and Analysis

Alternative Concepts approved in Step 1 proceed to detailed engineering and environmental analysis

Continuous Community Engagement



Engineering Analysis



Bridge

- Horizontal and Vertical Clearances
- Navigational Channel
- Bridge Horizontal Alignment
- Bridge Type
- Bridge Hydraulics
- Bridge Aesthetics/Features
- Bridge Bicycle and Pedestrian Facilities

Roadway

- Roadway Safety
- Roadway Alignment
- Access to Boat Ramp, Beach, and Vista Point
- Roadway Right of Way
- Shared Use Path and Bicycle Facilities
- Temporary Traffic Control

Other Areas of Analysis

- Utilities
- Drainage/Coastal Influences
- Geotechnical
- Constructability
- Miscellaneous Structures



Environmental Analysis



Social and Cultural

- Economic
- Land Use
- Mobility
- Aesthetics
- Community Resources
- Section 4(f) Recreational Resources
- Historic and Archaeological Sites

Natural

- Wetlands and Other Surface Waters
- Water Quality
- Wildlife and Habitat

Physical

- Noise
- Air Quality
- Contamination



Agency Coordination

- Cooperating Agency:

- US Coast Guard



NATIONAL MARINE
SANCTUARIES
FLORIDA KEYS



US Army Corps
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Historical Resources

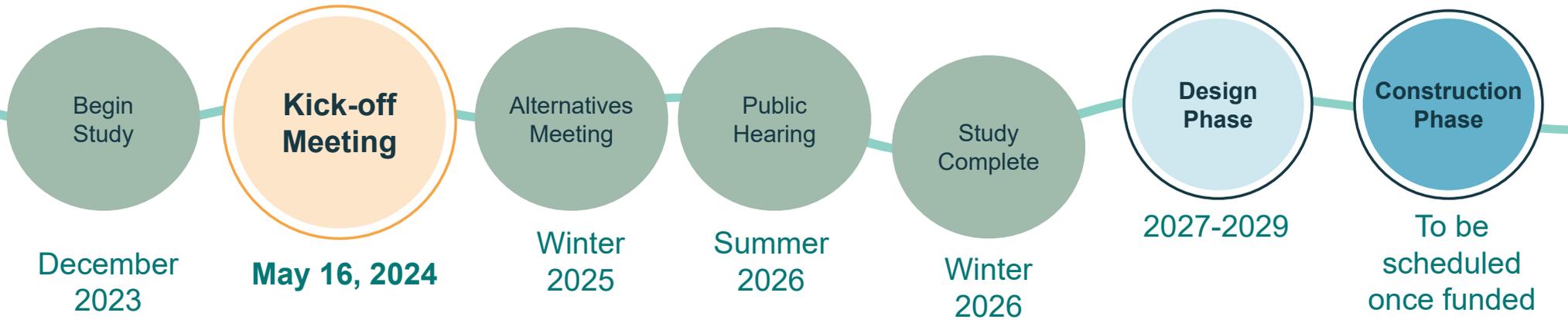


NOAA
FISHERIES



Where Are We?

WE ARE HERE

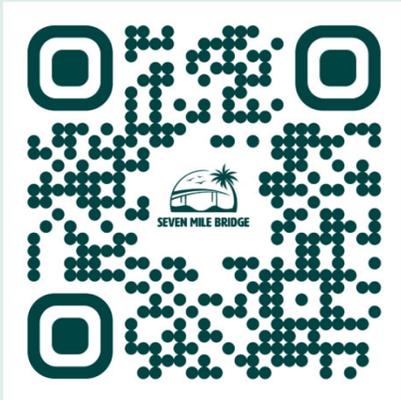


Continuous Community Engagement



Stay Connected

Project Website



www.SevenMileBridge.com

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**BEHIND THE
WHEEL, THE FOCUS
MUST BE ON ONE AND
ONLY ONE TASK:
SAFE
DRIVING**

LET'S GET EVERYONE HOME.

TARGET
ZERO
FATALITIES & SERIOUS INJURIES



Comments & Questions



How to Comment



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Fill out speaker card at comment table and you will be called in the order your card was received.



Call

(305) 470-5271



E-mail

Raul.Quintela@dot.state.fl.us



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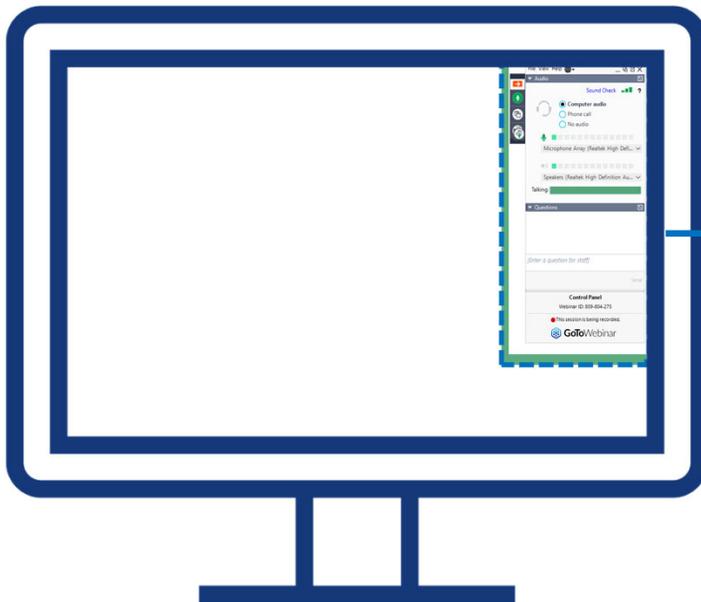
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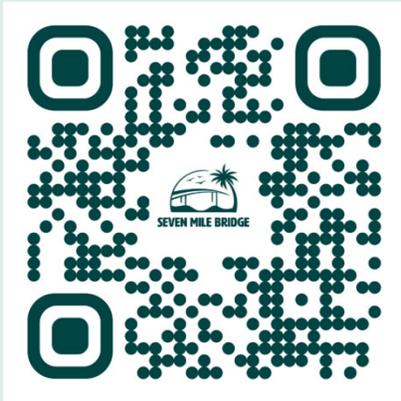
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Comments & Questions



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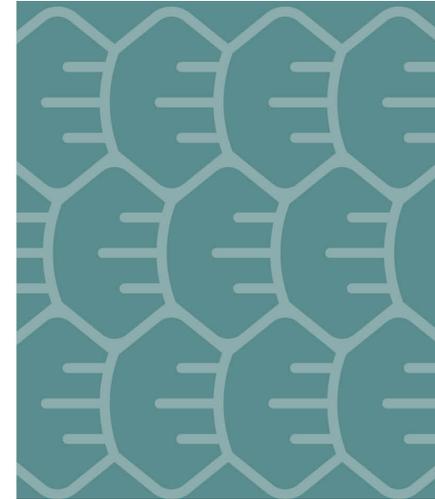
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Thank you for attending!
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