Broad Causeway Bridge Replacement PD&E Study

FPID No.: 452428-1-21-01 | ETDM No.: 14520
Town of Bay Harbor Islands Project Number: BC-160
Bridge Number: 875101

Preferred Alternative project boards are available on the **Chat Box** of your Zoom toolbar for your viewing ahead of the formal presentation. Additional project information is available for review on the project website: www.bayharborislands-fl.gov or by scanning the QR code.

Persons wishing to submit written questions or any other information, may do so at any time during the Open House via the virtual chat feature. Use the raise hand feature if you prefer to ask a question verbally. These questions or comments will not become part of the Public Hearing record.

A formal comment period will be held following tonight's presentation and will become part of the Public Hearing record.

All questions, comments, or statements postmarked July 5, 2024, will become part of the Public Hearing record.

Welcome

OPEN HOUSE

6:30 pm – 7:15 pm

Formal presentation begins at 7:15 pm



HYBRID PUBLIC HEARING

June 24, 2024

Welcome

OPEN HOUSE

6:30 pm – 7:15 pm

Formal presentation begins at 7:15 pm



HYBRID PUBLIC HEARING

June 24, 2024

BROAD CAUSEWAY BRIDGE REPLACEMENT PD&E STUDY

Causeway Island to East of West Broadview Drive
Miami-Dade County

Financial Project Identification Number: 452428-1-21-01

FDOT Efficient Transportation Decision Making (ETDM) Number: 14520

Town of Bay Harbor Islands Project Number: BC-160

Bridge Number: 875101

Welcome

BROAD CAUSEWAY BRIDGE REPLACEMENT PD&E STUDY

Public Hearing

June 24, 2023

www.bayharborislands-fl.gov



BROAD CAUSEWAY BRIDGE REPLACEMENT PD&E STUDY

Causeway Island to East of West
Broadview Drive
Miami-Dade County

Financial Project Identification Number: 452428-1-21-01

FDOT Efficient Transportation Decision Making (ETDM) Number: 14520

Town of Bay Harbor Islands Project Number: BC-160

Bridge Number: 875101



Project Location



Broad Causeway Bridge Replacement PD&E Study
From Causeway Island to East of West Broadview Drive
Miami-Dade County

Meet The Presenters/Panelists

Joshua Fuller



Mayor

Maria Lasday



Town Manager

Rodney Carrero-Santana



Town Project Manager

David Konz



AtkinsRéalis Project Manager

Wendy Lasher



AtkinsRéalis PD&E Lead

Alicia Gonzalez



Community Outreach Specialist

What Will Be Discussed Tonight?

MEETING AGENDA

- Project Overview
- PD&E Study Process
- Project Purpose and Need
- Agency Coordination
- Alternatives Evaluation
- Preferred Alternative
- Potential Impacts
- Pedestrian Accommodations
- Project Schedule
- Formal Public Comment Period



Laws and Regulations

THE PUBLIC HEARING IS BEING HELD IN ACCORDANCE WITH:

- **Section 120.525, F.S**. – Meetings, hearings, and workshops
- **Section 286.011, F.S.** – Government in the Sunshine Law
- **Section 335.199, F.S.** – Transportation projects modifying access to adjacent property
- **Section 339.155, F.S.** – Transportation planning
- **Americans with Disabilities Act of 1990 (ADA)**
- **Title VI of the Civil Rights Act of 1964** and Other Nondiscrimination Laws
- **49 CFR Part 24**, Uniform Relocation Assistance and Real Property Acquisition for Federal and Federally-Assisted Programs
- **40 CFR Part 1506**, Other Requirements of **National Environmental Policy Act (NEPA) of 1969**







Title VI Non-Discrimination Compliance

TOWN OF BAY HARBOR ISLANDS

complies with various Non-Discrimination Laws and Regulations, including Title VI of the Civil Rights Act of 1964

Public participation at this Public Meeting is encouraged and solicited without regard to race, color, national origin, age, sex, religion, disability or family status.

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

Jenice Rosado
Assistant Town Manager
Town of Bay Harbor Islands
9665 Bay Harbor Terrace
Bay Harbor Islands, Florida 33154
305-866-6241
jrosado@bayharborislands-fl.gov

Stefan Kulakowski, FCCM, CPM
State Title VI Coordinator
Florida Department of Transportation
Equal Opportunity Office
605 Suwannee St. MS65
Tallahassee, Florida 32399
850-414-4742
stefan.kulakowski@dot.state.fl.us

How Was The Public Notified?

OWNER / TENANT LETTERS

EMAILS TO CONTACT LIST

TOWN WEBSITE

FLORIDA ADMINISTRATIVE REGISTER

NEWSPAPER ADVERTISEMENTS

SOCIAL MEDIA



Bay Harbor Islands

SEPTEMBER 2023 • VOLUME 69 NUMBER 9 NEWSWAVES

FACT SHEET

BROAD CAUSEWAY BRIDGE REPLACEMENT

Broad Causeway Bridge from Causeway Island to East of West Broadview Drive

PROJECT DEVELOPMENT AND ENVIRONMENT (PD&E) STUDY

MIAMI DADE-COUNTY, FLORIDA

OVERVIEW

PROPOSED IMPROVEMENTS

GOALS

PROVIDE NEW STRUCTURE

IMPROVE CONNECTIVITY

ENSURE SAFETY

PROVIDE TRANSIT, BICYCLE AND PEDESTRIAN IMPROVEMENTS

SCHEDULE

YOU ARE INVITED

Please join the Town of Bay Harbor Islands at an Alternatives Public Workshop regarding this project.

IN-PERSON WORKSHOP:

Morris N. Broad Community Center, 1175 95th Street, Bay Harbor Islands, Florida 33154

Tuesday, September 26, 2023 at 7 p.m.

VIRTUAL WORKSHOP:

To participate virtually from your computer, tablet, or smartphone, please register using the following link:

https://bit.ly/BCB-APW

SCAN TO REGISTER

Participants can also call in by dialing +1 (305) 224-1968; Meeting ID: 914 7274 3634

*Registration is encouraged not required.

Thursday, September 28, 2023 at 6 p.m.

WHAT IS A PD&E STUDY

GET INVOLVED

TOWN OF BAY HARBOR ISLANDS CONTACT:

TOWN ENGINEER

Rodney Carreno-Santana, P.E., CPM, LEED AP

Town of Bay Harbor Islands

publicworks@bayharborislands-fl.gov

9665 Bay Harbor Terrace

Bay Harbor Islands, Florida 33154

Phone: (305) 866-6241

VISIT OUR WEBSITE:

https://www.bayharborislands-fl.gov/

Participation Options

In-Person: June 24, 2024 (6:30 p.m. – 8:30 p.m.)

Morris N. Broad Community Center
1175 95th Street
Bay Harbor Islands, Florida 33154



Virtual (Zoom): June 24, 2024 (6:30 p.m. – 8:30 p.m.)

- Via computer, tablet, or smartphone using Zoom
- Attendees will remain muted throughout the meeting except for the public comment period at the end of the presentation.

Telephone

- Dial-in attendees for the Virtual Option are in "listen only" mode. If you are calling via a smart phone, you will be able to raise your hand to provide comments during the public comment period at the end of the presentation.

To participate virtually from your computer, tablet, or smartphone, please register using the following link:

https://bit.ly/BCB-PH

Participants can also call in by dialing +1 (305) 224-1968; Meeting ID: 926 6842 7760 Passcode: 227199

SCAN TO REGISTER

A recording of the presentation and meeting materials will be available on the project website: www.bayharborislands-fl.gov

To Report a Technical Issue



Type your technical issue in the Question box



Send an e-mail
vsalinas@mrgmiami.com



Call
786-614-0050

Viewing the Draft Project Documents



Project Website

www.bayharborislands-fl.gov/444/Broad-Causeway-Bridge-Replacement-PDE-St



Bay Harbor Islands Branch Library

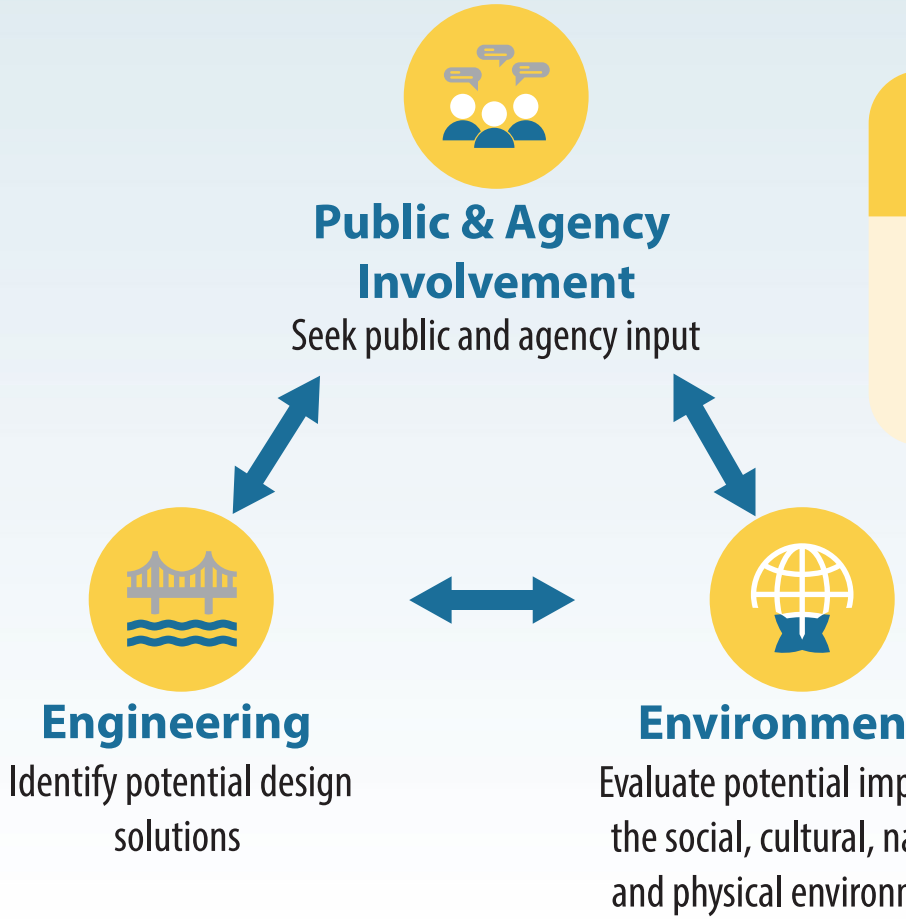
1175 95th Street
Bay Harbor Islands, FL 33154
Monday through Thursday, 9:30 a.m. to 8:00 p.m.
Friday and Saturday 9:30 a.m. to 6:00 p.m.
June 3, 2024, through July 5, 2024



PD&E Study Process

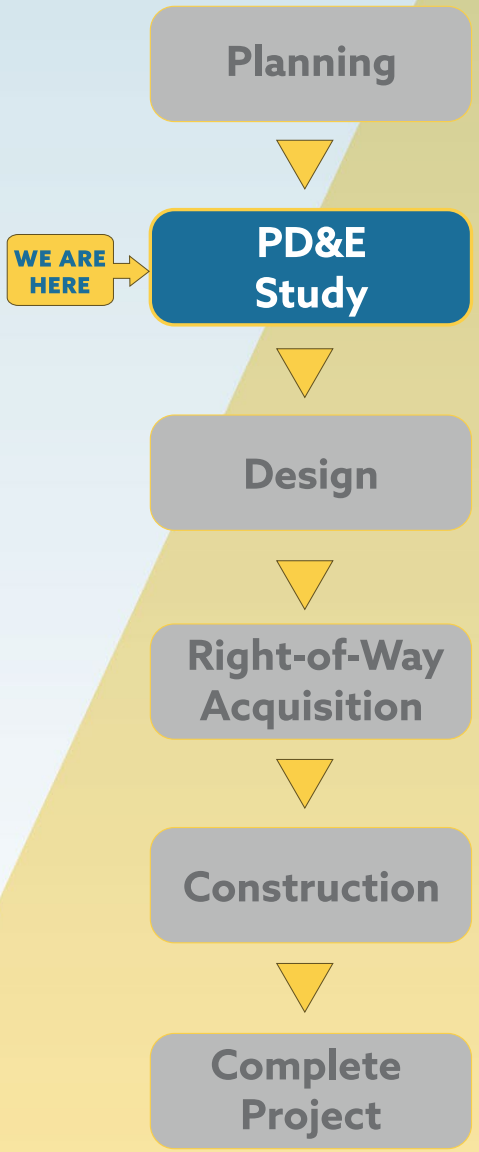
A Project Development & Environment (PD&E) Study is a process to analyze a transportation project.

It consists of 3 elements:



The PD&E Process is followed to comply with:

National Environmental Policy Act (NEPA)
Federal and State environmental laws
Requirements involving federal funding



Agency Coordination

Lead Agencies

Cooperating Agency

NEPA ASSIGNMENT STATEMENT

The environmental review, consultation, and other actions required by applicable federal government 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 and FDOT.

Federal, State, and Local Stakeholders



Project Overview

BRIDGE CONSTRUCTED 1951 – 73 YEARS OLD

- Ongoing extensive and costly repair projects
- Increasing cost to operate and maintain



RECENT MAJOR BRIDGE REPAIR PROJECTS

- $17 million completed in 2017
- $3 million initiated in 2023 (ongoing)
- Temporary emergency repairs (ongoing)

BRIDGE CONDITION – RATED POOR

- Bridge does not meet current road design standards
- Graded “Structurally Deficient” in most recent bridge inspection
- A “Structurally Deficient” rating does not mean the bridge is unsafe
    - These ratings indicate the need for rehabilitation or replacement



Project Purpose And Need

PROJECT PURPOSE

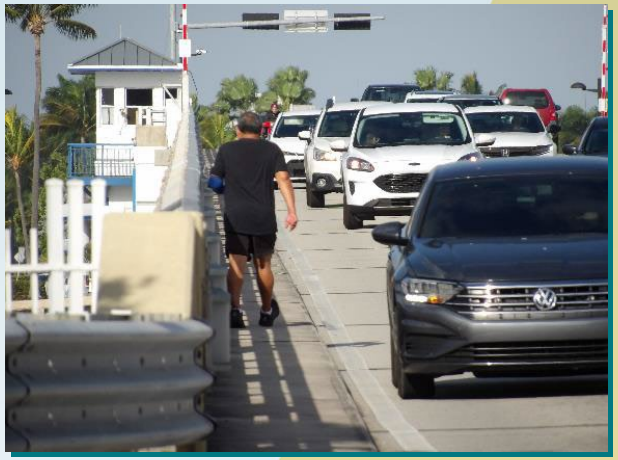
- Identify the best solution for replacement of the existing bridge

PROJECT NEED

- Address Bridge Deficiencies
- Improve Safety
- Improve Flow of Traffic
- Maintain Emergency Evacuation

CONSISTENCY WITH REGIONAL PLANS

- Consistent with Miami-Dade Transportation Planning Organization (TPO) 2045 Long Range Transportation Plan (LRTP)
- Consistent with Miami-Dade TPO Transportation Improvement Program (TIP)





Alternatives Evaluation

PROPOSED ALTERNATIVES

- No Build Alternative
- Alternative 1: 65-foot High-Level Fixed Bridge
- Alternative 2: 40-foot Mid-Level Movable Bridge

ALTERNATIVES ANALYSIS

- Alignment
- Profile (height of the bridge)
- Typical Section (view of the driver)
- Pedestrian Accommodations
- Evaluation Matrix

QR Code to Video of Proposed Build Alternatives shown at the Alternatives Public Workshop




No Build Alternative


Alternative 1


Alternative 2

Recommendation of Preferred Alternative

PREFERRED ALTERNATIVE

- Alternative 1: 65-foot High-Level Fixed Bridge



RECOMMENDATION BASED ON

- Engineering Analysis
- Environmental Analysis
- Public Input
- Cost
- Safety

JUSTIFICATION

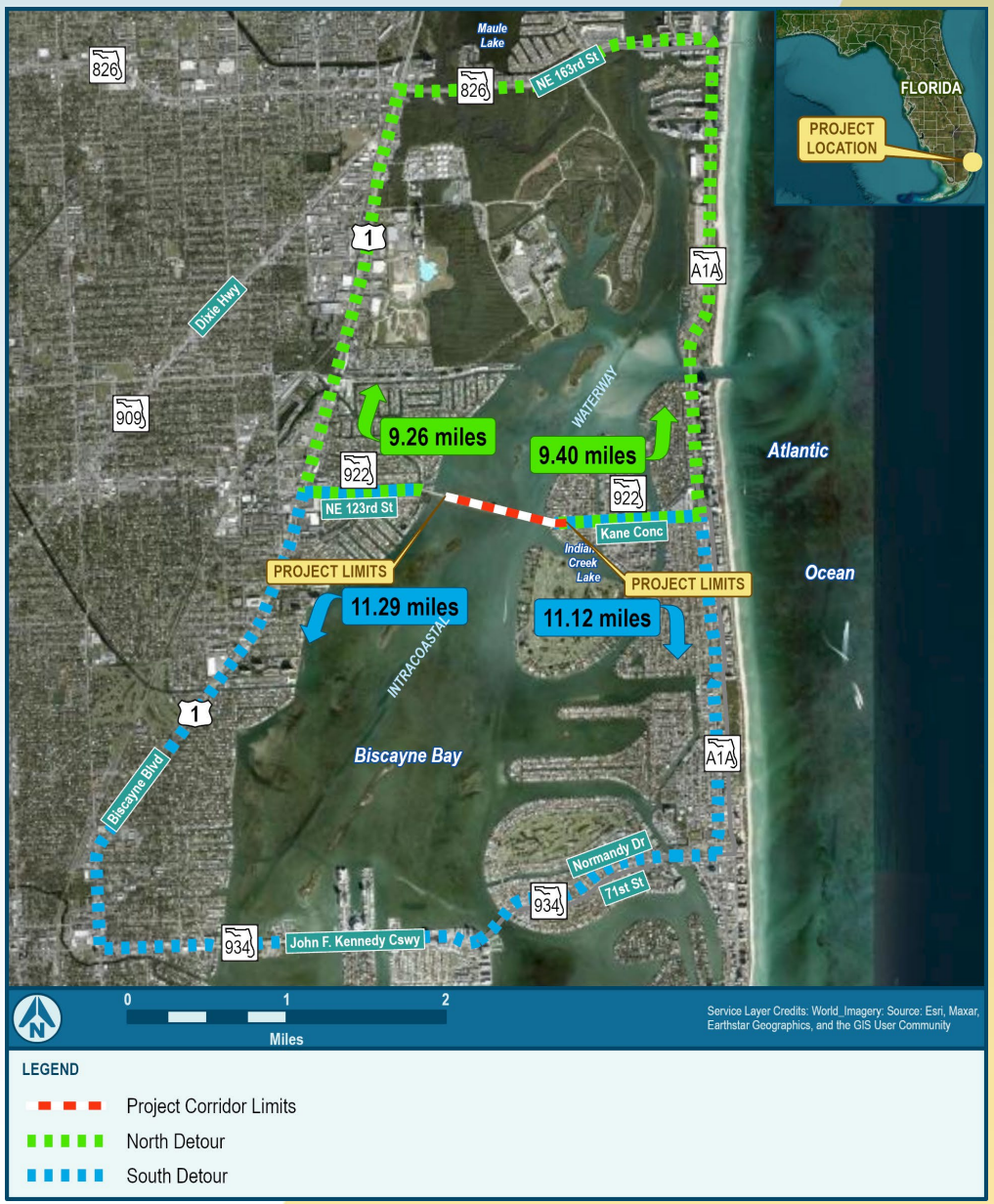
- Estimated 75-year lifespan
- No bridge openings or wait time for vehicle or marine traffic
- No impacts to Sovereign Submerged Lands
- Lower impact to Essential Fish Habitat
- Lowest Build Alternative cost ($247.4M)
- Public input received
- Bicycle and Pedestrian Safety

No Build Alternative

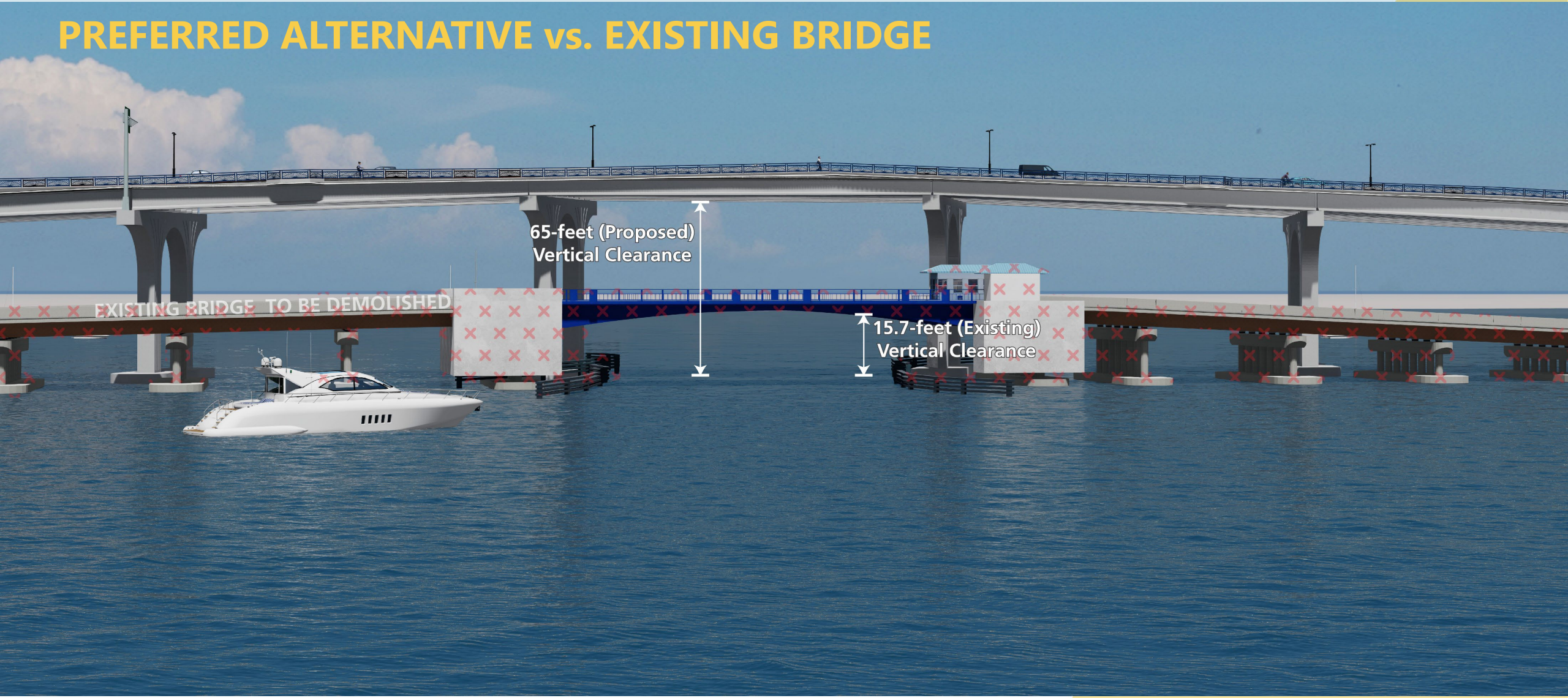
CONSIDERATIONS

- No improvements are made
- Existing deficiencies will remain
- Continued deterioration
- Extensive and costly periodic repairs and maintenance
- Potential bridge closures if moveable bridge machinery breaks (unpredictable)
- Life of the bridge is expected to be 15-25 years at which time the bridge will have to be decommissioned or replaced
- If bridge is decommissioned it will eliminate toll revenue and may cause tax increases
- If the bridge is closed for repair or decommissioned, an 11-mile detour to the south or a 9-mile detour to the north would be necessary
- Emergency response and evacuation impacted

Does not meet the purpose and need for the project



Vertical Profile (Height) Comparison



Preferred Alternative

SOUTHERN ALIGNMENT CHOSEN IN ORDER TO:

- Avoid Town of Bay Harbor Islands Tot Lot - Section 4(f) Resource
- Utilize Town-owned vacant parcel
- Avoid relocations and acquisition of right-of-way
- Minimize phased construction, reducing schedule by 12 – 15 months
- Avoid water line on the north side of the existing bridge

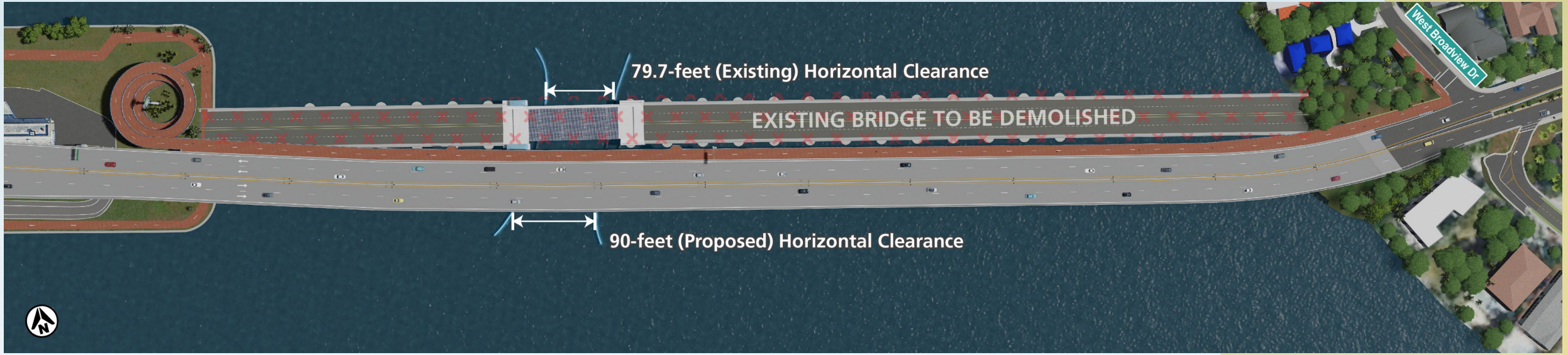






Preferred Alternative

ALIGNMENT





Preferred Alternative

BRIDGE RENDERINGS





QR Code to Video of Preferred Alternative



Preferred Alternative

CAUSEWAY ISLAND CONFIGURATION



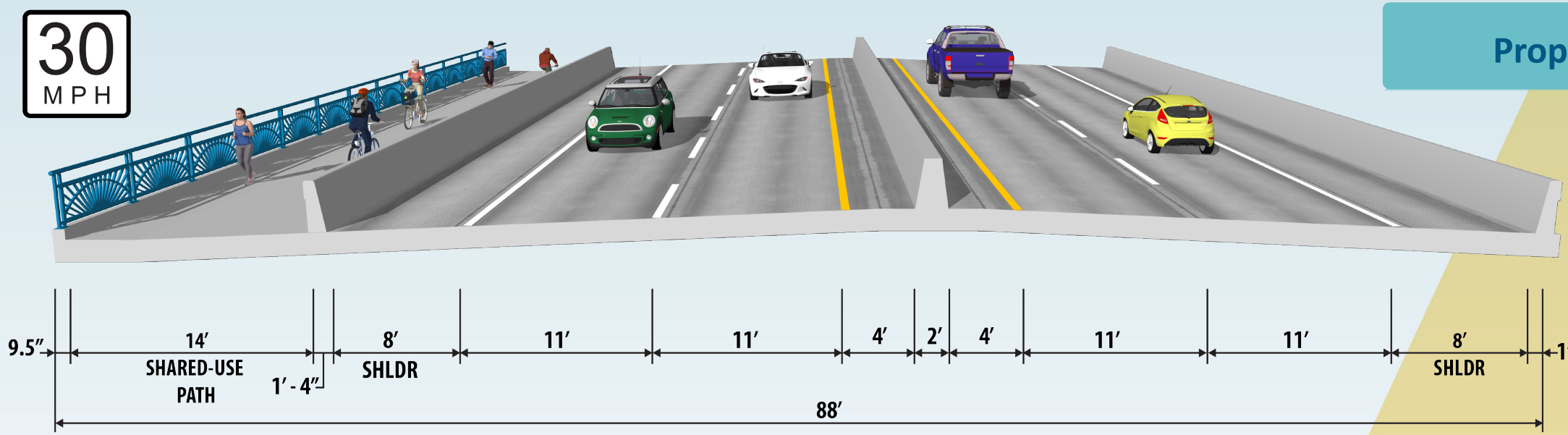




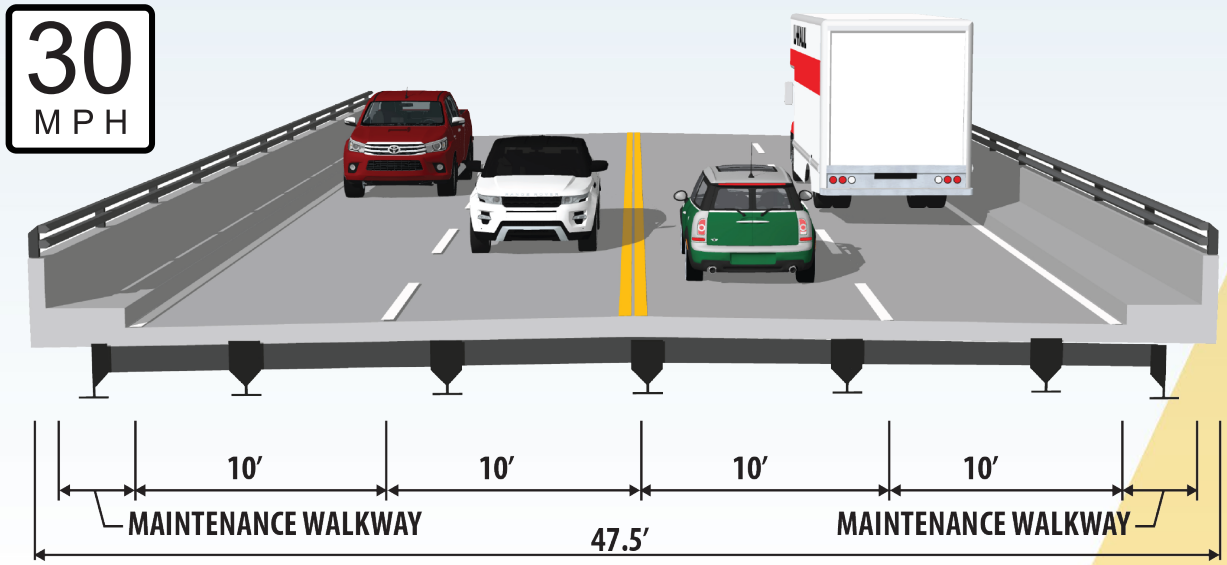


Comparison of Proposed and Existing Typical Sections

Proposed



Existing

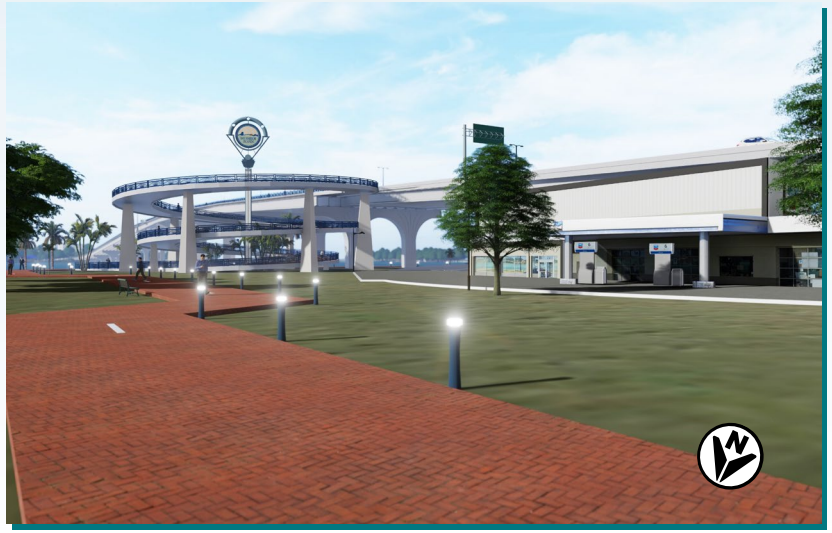


Pedestrian Accommodations

SHARED-USE PATH

- 14’ Shared-use path on north side of bridge
- Protected barrier separation from vehicular traffic
- Pedestrian overlooks on the bridge
- Meets ADA requirements
- Variable slope with most ramps <6%
- Helix ramps to bring bicyclists and pedestrians down to the causeway island
- Shared-use path around the causeway island (width varies from 8’ to 14’)







Example 12-ft. shared-use path in Jacksonville

Pedestrian Accommodations

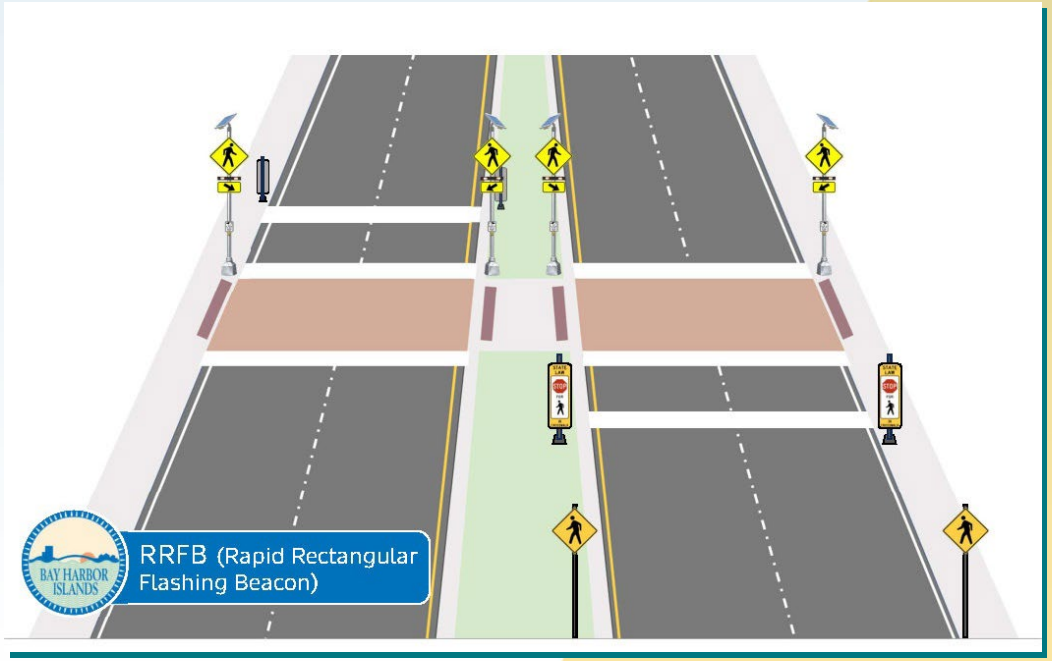
MID-BLOCK PEDESTRIAN CROSSWALK

- Pedestrian accommodations on north side only
- Push-button crossing with flashing warning lights, advance signing, and striping
- Enhanced pedestrian wayfinding
- Traffic calming devices









Access Management Changes

SAFETY ENHANCEMENTS

- Median barrier installation
- Mid-block pedestrian crosswalk
- Maintain existing U-turn





Construction Maintenance of Traffic

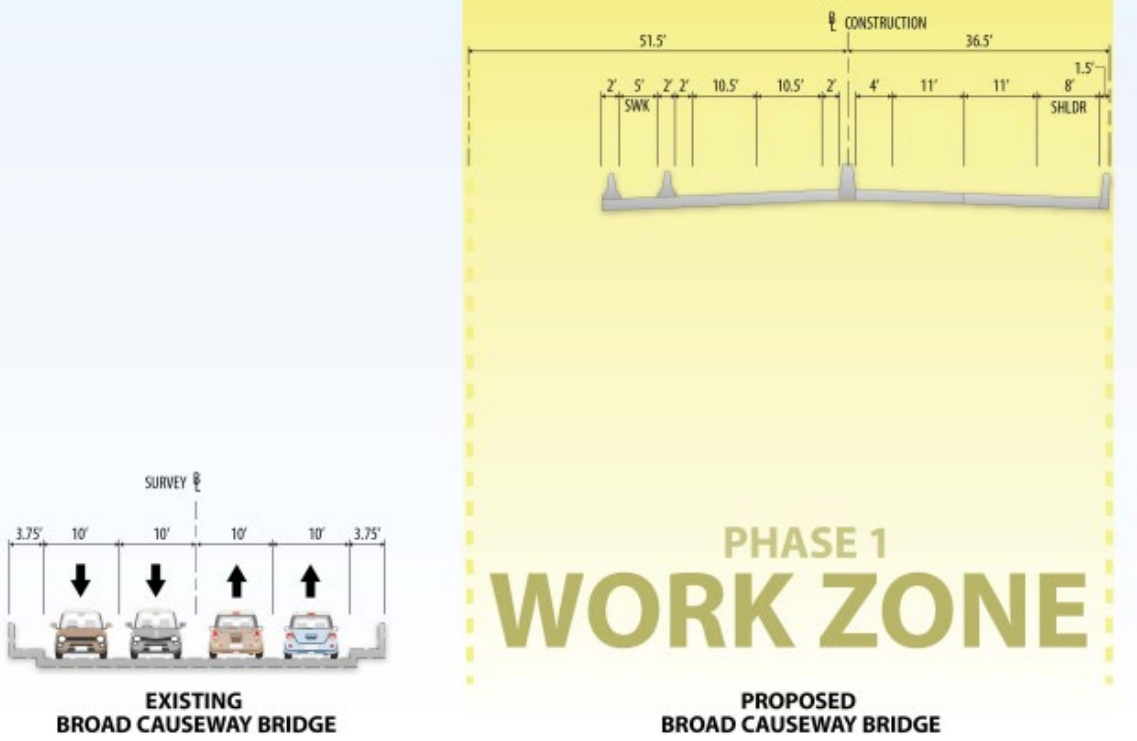
TEMPORARY TRAFFIC CONTROL PLAN

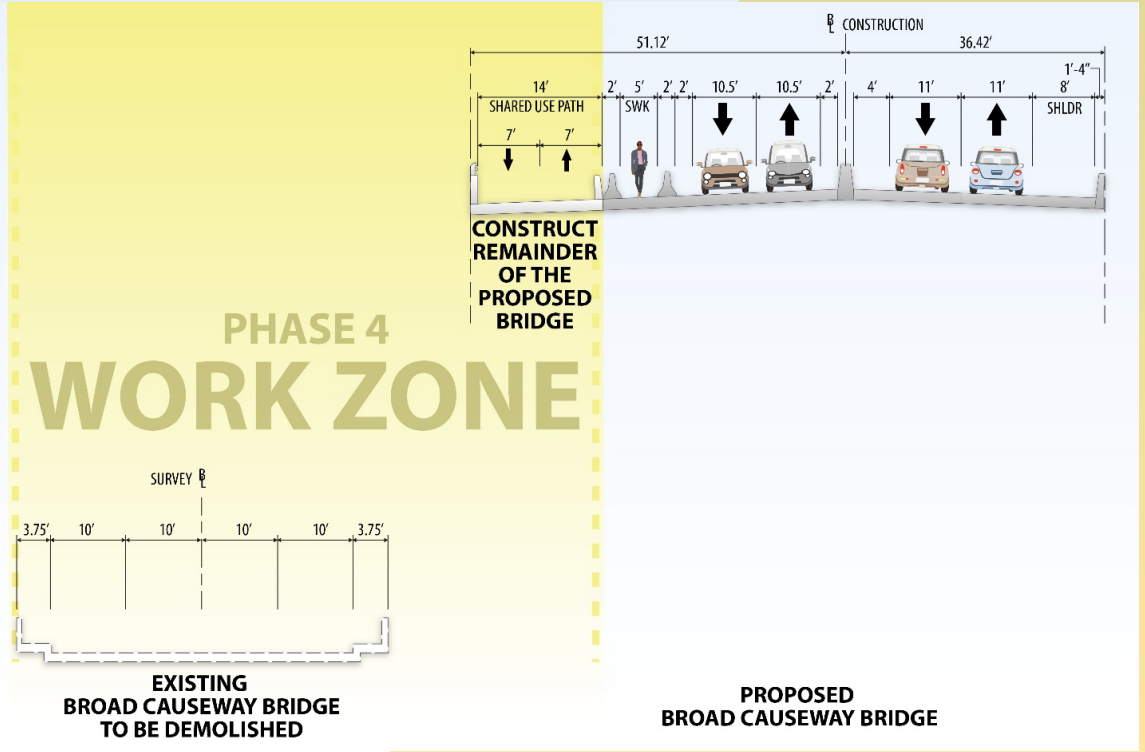
Phase 1
- Traffic will remain on the existing bridge
- Construct full-width bridge where possible

Phases 2
- Shift vehicular traffic to new bridge.
- Maintain pedestrians on existing bridge.

Phase 3
- Maintain pedestrian traffic on existing bridge
- Partially demolish existing bridge

Phase 4
- Maintain traffic on the new bridge
- Construct remainder of the new bridge and pedestrian ramp (helix)
- Shift pedestrian traffic to new bridge
- Demolish remainder of existing bridge





Environmental Analysis

SOCIAL

- No relocations
- Aesthetic and visual changes
- Pedestrian and bicycle facilities improvements

CULTURAL

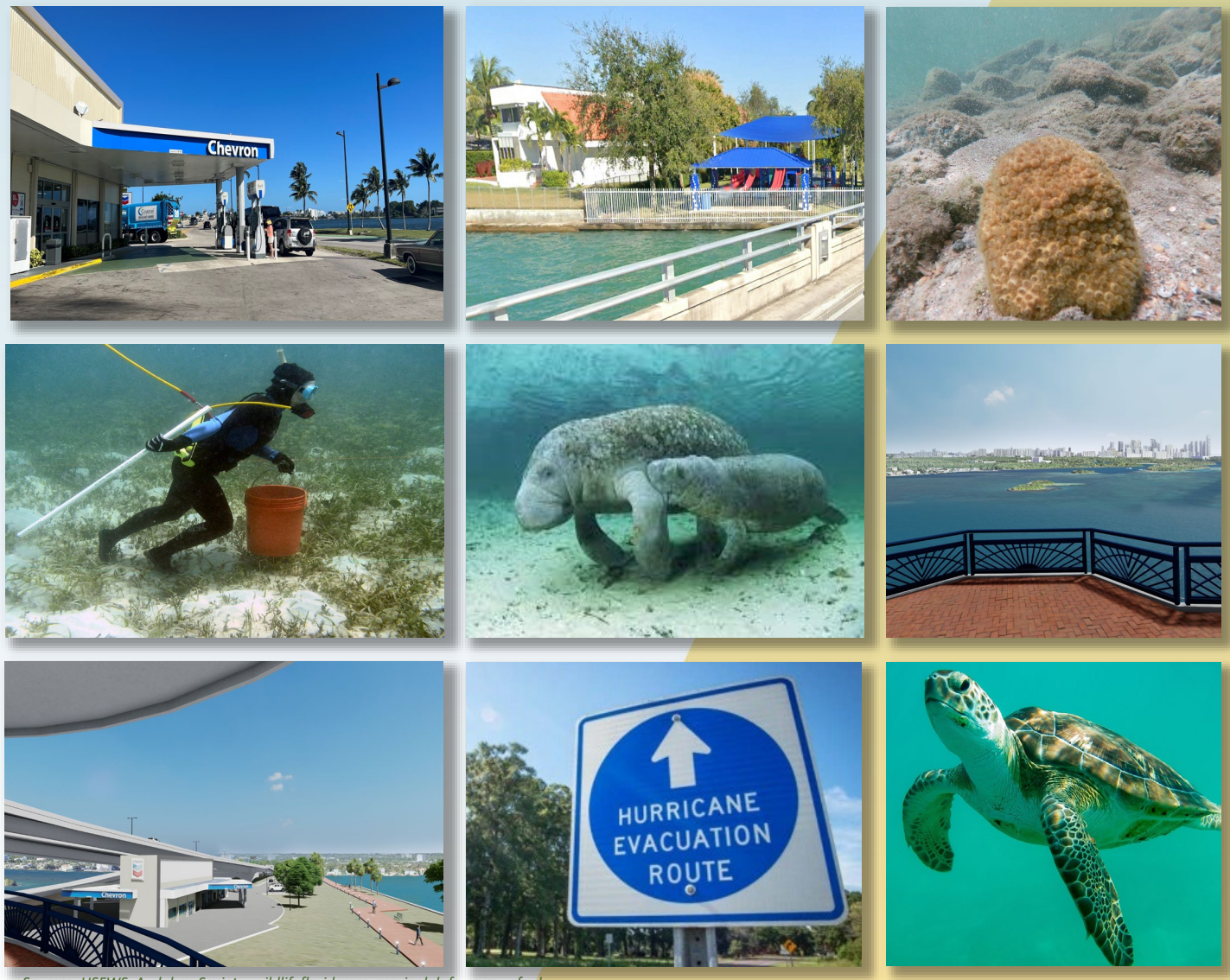
- No archaeological sites
- 13 historic resources
- Temporary impacts to recreational areas

NATURAL

- No floodplain impacts
- 0.279 acres of wetlands
- 4.18 acres of Essential Fish Habitat
- Potential protected species and habitat effects – Medium impact

PHYSICAL

- No air quality impacts
- 31 noise sensitive sites
- One medium and one high ranking potential contamination sites
- Utility impacts



Sources: USFWS, Audubon Society, wildlifeflorida.org, marinelab.fsu.org, ucf.edu

Section 106 and Section 4(f) Processes - Historic Resources

Resources With Adverse Effects

- NRHP-eligible Broad Causeway Bridge (8DA10123)
- NRHP-eligible Citgo/1501 Broad Causeway (8DA10436)
- Insufficient Information, treated as NRHP-eligible Bay Harbor Islands Historic District (8DA10515)

State Historic Preservation Officer (SHPO) concurrence on effects determination received.

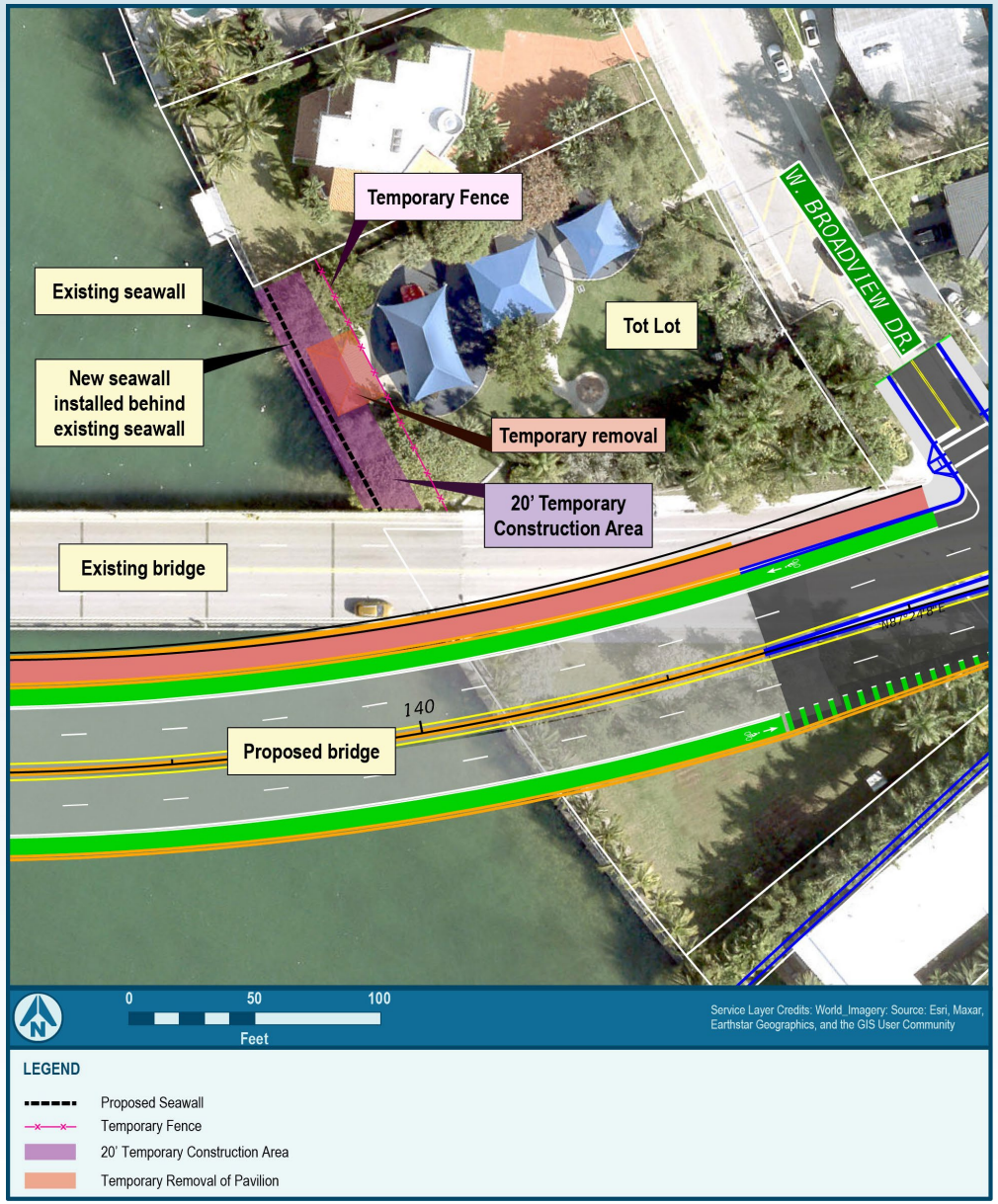








Section 4(f) Process - Recreational Areas



- Town of Bay Harbor Islands Tot Lot – No Use
  - Temporary occupancy to replace the existing seawall
- Florida Circumnavigational Saltwater Paddling Trail – No Use
  - Detour Route



Evaluation Matrix

Criteria/Category		No Build Alternative	Preferred Alternative - High-Level Fixed Bridge	Alternative 2 Mid-Level Movable Bridge
ABILITY TO MEET PURPOSE AND NEED	Address Bridge Deficiencies			
	Improve Safety			
	Improve Flow of Traffic			
	Maintain Emergency Evacuation			
BRIDGE FEATURES	Vertical Navigational Clearance Above Mean High Water	15.7 ft.	65 ft.	40 ft.
	Horizontal Clearance (between fenders)	79.7 ft.	90 ft.	90 ft.
	Bridge Profile Grade (West side / East side)	3.44% / 1.55%	5.00% / 5.85%[1]	2.60% / 4.15%
	Improved Waiting Time for Marine Traffic	No	Yes	Yes
	Temporary Bridge Required During Construction	N/A	No	No
	Bridge Closure or Detour During Construction	N/A	No	No
TRAFFIC OPERATIONS	Bridge Opening	Yes	No	Yes
	Benefit to Vehicular Traffic	No	Yes	Yes
	Evacuation / Emergency Response (Improved)	No	Yes	Yes
SOCIAL & CULTURAL RESOURCES	Potential Impacts to Archaeological Resources	N/A	None	Low
	Potential Impacts to Historic Resources	N/A	High	High
	Potential Impacts to Parks/Recreation Areas (#)	0	1	1
	Town of Bay Harbor Islands Tot Lot	No	Yes[2]	Yes[2]
	Florida Circumnavigational Saltwater Paddling Trail	No	Yes[2]	Yes[2]
	Aesthetic/Visual Changes	No	Yes	Yes
	Pedestrian and Bicycle Facility Improvements	No	Yes	Yes

[1] The bridge sidewalks will comply with ADA requirements.

[2] Temporary impacts during construction only.

Evaluation Matrix

Criteria/Category		No Build Alternative	Preferred Alternative - High-Level Fixed Bridge	Alternative 2 Mid-Level Movable Bridge
NATURAL & PHYSICAL RESOURCES	Potential Total Impacts to Wetlands (acres)	0	0.279	0.417
	Potential Total Impacts to Essential Fish Habitat (acres)	0	4.18	5.18
	Threatened/Endangered Species Potential	N/A	Medium[3]	Medium[3]
	Potential Impacts to Sovereign Submerged Lands	No	No	Yes
	Potential Noise Sensitive Sites (#)[4]	0	233	233
	Potential Contamination Sites (#High / #Medium)	0	1 / 1	1 / 1
RIGHT-OF-WAY	Relocations (#)	0	0	0
	Right-of-Way to be acquired (acres)	0	0	0
ESTIMATED PROJECT COSTS[4] (2023 Dollars, in millions)	Lifespan of Alternative (Estimated Years) ★	25	75	75
	Design	N/A	$15.9	$31.8
	Mitigation	N/A	TBD	TBD
	Construction	N/A	$226.7	$356.1
	Bridge Tender	$30.7	$0	$30.7
	Inspection & Maintenance	$41.7	$4.8	$22.3
	TOTAL	**$72.4**	**$247.4**	**$440.9**

Excludes "Major Repairs" due to accelerated deterioration

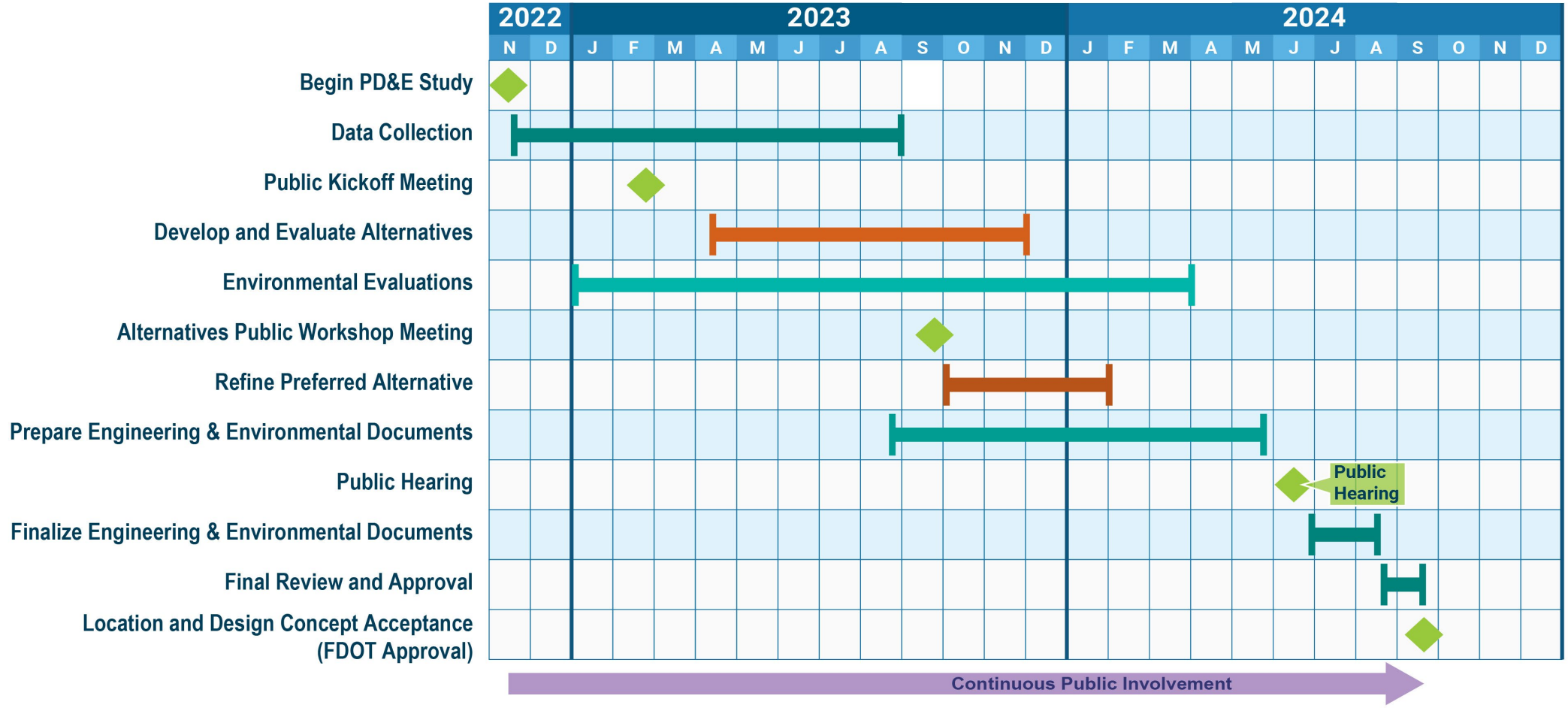
[3] Medium assigned based on mitigation and minimization measures that will be implemented based on regulatory agency coordination.
[4] This is not a representation of impacts.
[5] Preliminary estimates are for planning purposes only. Final construction cost estimates will be prepared during the design phase.

★ Toll bridge to be closed with "No Build Alternative"

Alternatives Key Differentiators

	Advantages	Disadvantages
No Build Alternative 	• No construction • No impacts to environmental resources • Maintains roadway slope • Lowest short-term cost ($72.4M)	• Substandard roadway lane widths and pedestrian accommodations • Bridge will continue to deteriorate and will be decommissioned at end of estimated 15 - 25 year lifespan • Potential for bridge closures and detours from machinery failure • Frequent bridge openings and wait times for vehicular and marine traffic • Bridge condition may affect emergency evacuation
Alternative 2  Mid-Level Movable Bridge	• New bridge (estimated 75 year lifespan) • 40-foot bridge - Reduced roadway and multi-use path slopes • 40-foot bridge - Less visual impacts to businesses and residents • Pedestrian, bicycle, and safety improvements • Resiliency and seawall improvements	• Bridge openings and wait times for vehicular and marine traffic • Impacts to Sovereign Submerged lands • Higher impact to Essential Fish Habitat • Highest Build Alternative cost ($440.9M)
Preferred Alternative  High-Level Fixed Bridge	• New bridge (estimated 75 year lifespan) • No bridge openings or wait time for vehicle and marine traffic • Pedestrian, bicycle, and safety improvements • Resiliency and seawall improvements	• Potential impacts to environmental resources • 65-foot bridge - Steeper roadway and shared-use path slopes • 65-foot bridge - More visual impacts to businesses and residents • Build Alternative cost ($247.4M)

Project Schedule





Verbal Public Comment Period



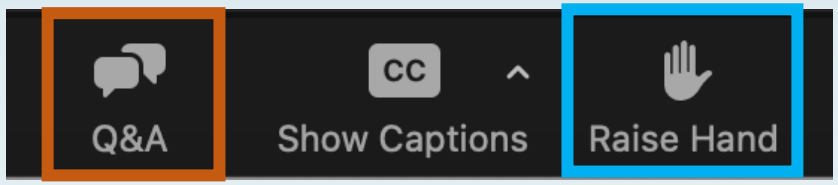
IN-PERSON ATTENDEES

1. Fill out a Speaker's card and provide your contact information
2. Moderator will call attendee's who filled out a Speaker's Card
3. Please come and speak into the microphone
4. Limit comment(s) to two (2) minutes

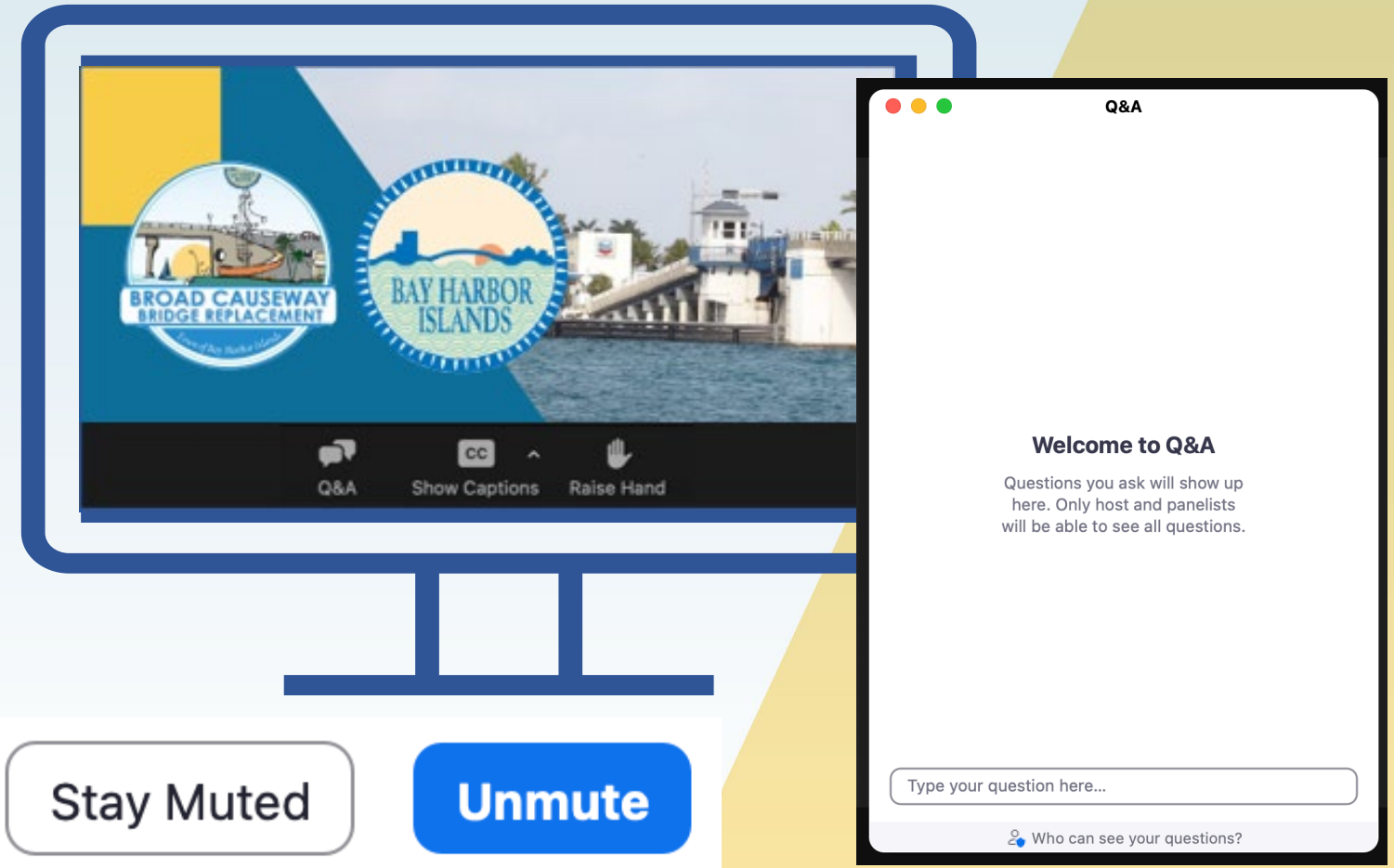
We will not be answering questions or responding to comments during this portion of the Public Hearing. If you have a question, please put it on a comment form or tell the court reporter and we will respond via mail or e-mail.

Virtual Meeting Information

ONLINE ATTENDEES



- Select **Q&A** to type your comments and questions during the meeting
- Click the **Raise Hand** button on the bottom toolbar. Unmute your microphone when your name is called
- State your name and address
- You have two (2) minutes to state your comment(s)
- We will record all comments and respond to you via mail or e-mail



Virtual Meeting Information

DIAL-IN ATTENDEES

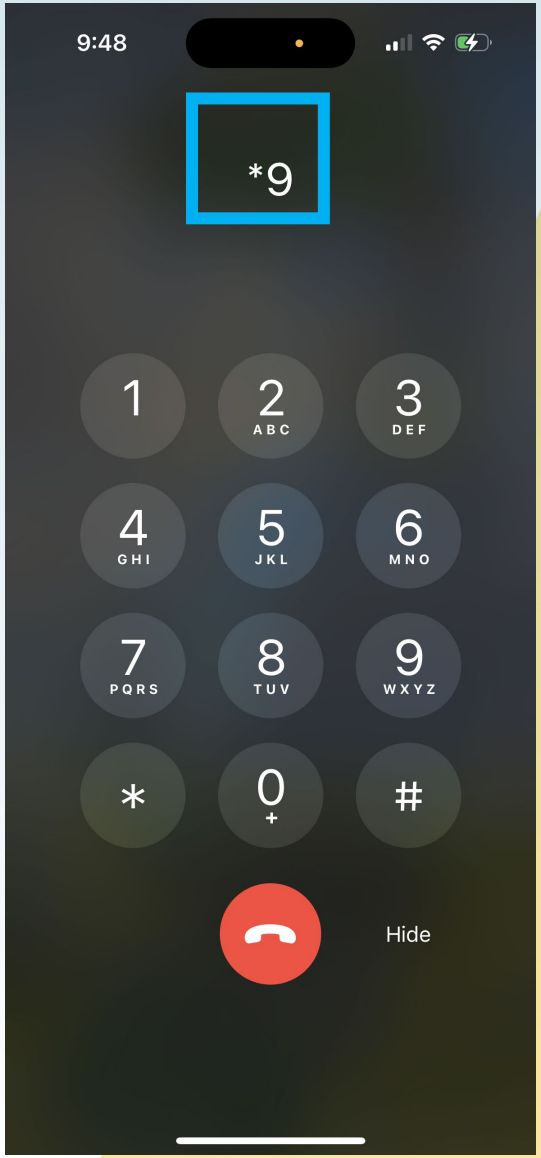
During the verbal comment period:

- Dial *9 to raise and lower your hand
- You will be alerted once you are unmuted and allowed to speak

If you are having technical difficulties, please contact:

vsalinas@mrgmiami.com

786-614-0050



Public Comment Period



MAIL

Media Relations Group, LLC
Attn: **Alicia Ana Gonzalez**
14707 South Dixie Hwy, Suite 404
Palmetto Bay, Florida 33176
(786) 280-6645



E-MAIL

Alicia Ana Gonzalez
agonzalez@mrgmiami.com



COMMENT FORM

Submit a comment form tonight or by mail



COURT REPORTER

Submit a comment tonight directly to the court reporter



PROJECT WEBSITE

www.bayharborislands-fl.gov

Please submit your comments by **July 5, 2024.**

BROAD CAUSEWAY
BRIDGE REPLACEMENT
Town of Bay Harbor Islands

Thank you for attending!



Formal Comment Period

