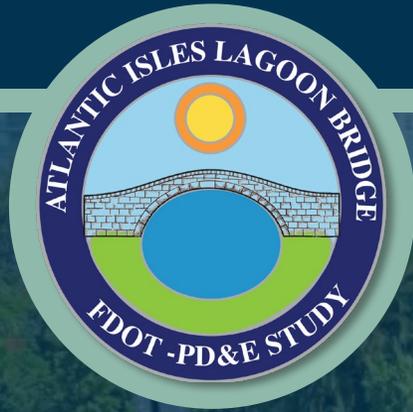


Atlantic Isles Lagoon Bridge (Bridge No. 874218) Project Development and Environment (PD&E) Study

From Atlantic Isles West of SR A1A to Atlantic Avenue

Miami-Dade County, Florida



City of Sunny Isles Beach
Historic Preservation Board
Consultation Meeting

April 6, 2023

FPID No. 430029-2-21-01

ETDM No. 14413



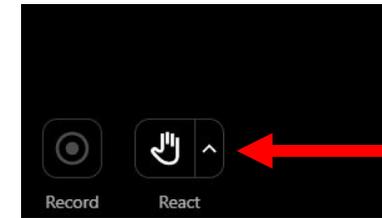
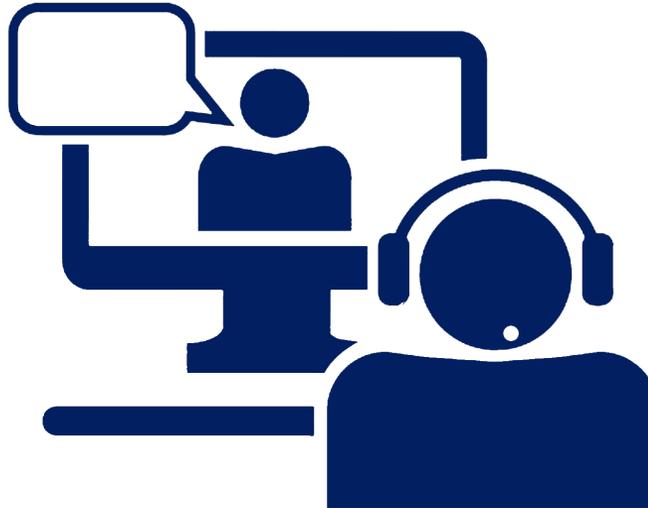
Start-up & Welcome

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



About the Virtual Meeting Format

- GoToMeeting online meeting platform
- Raise hand to speak on control panel or comment in the chat
- Questions will be responded to after the presentation



Raise Hand button located at bottom left-hand corner of your screen

Technical Information (Technical Issues)



This meeting is being recorded.



Type your issue in **Questions pane** on the control panel.



Meeting Purpose and Speakers



Nick Danu
FDOT



Steven Craig James
FDOT



Colleen Ross
Jacobs



Amy Streelman
Janus Research





City of Sunny Isles Beach Historic Preservation Board Introductions





Title VI Compliance

Public participation at this meeting is solicited without regard to race, color, national origin, age, sex, religion, disability or family status. Persons wishing to express their concerns relative to FDOT compliance with Title VI may do so by contacting:

Nicholas Danu, P.E.
FDOT District 6 Project Manager
1000 NW 111 Avenue
Miami, Florida 33172
(305) 470-5342
Nicholas.Danu@dot.state.fl.us

Stefan Kulakowski, FCCM, CPM
State Title VI Coordinator
Florida Department of Transportation
Equal Opportunity Office
605 Suwannee St. MS65
Tallahassee, Fl. 32399-0450
850-414-4742
Stefan.Kulakowski@dot.state.fl.us

All inquiries or concerns will be handled according to FDOT procedure and in a prompt and courteous manner.



Project Study Area

- Two local streets within Study Area:
 - Atlantic Avenue – one-way eastbound facility
 - Atlantic Isles – two-way facility
- Atlantic Isle Bridge (FDOT Bridge No. 874218)
 - Located on Atlantic Avenue (one-way)



Project Background

- Bridge constructed in 1925
- Low-level bridge with cast-in-place reinforced concrete arch
- 1999 & 2012 – load rating analyses performed
- Posted weight limits
- Bridge inspected annually



Bridge Deficiencies

- FDOT Bridge Inspection – Performed September 26, 2022
 - Bridge Health Index = 60.39 (out of 100)
 - Sufficiency Rating = 40.9 (out of 100)
 - Functionally Obsolete – substandard traffic barriers and roadway geometry
 - Missing oolitic limestone on north face of arch
 - Exposed steel and areas of corrosion throughout length of arch underside

- Geotechnical Evaluation – Performed in March 2021
 - Inconclusive
 - Bridge classified as having “unknown foundations”

	BRIDGE INSPECTION REPORT PREPARED FOR: FDOT District 6 BRIDGE OWNER: CITY OF SUNNY ISLES BEACH INSPECTION TYPE: INTERIM CONTRACT No. CA611		Inspected by: Marlin Engineering, Inc.
	Bridge No. 874218	REPORT CONTAINS	Inspection Date: 09-26-22
<input checked="" type="checkbox"/> BrM Inspection Report <input checked="" type="checkbox"/> CIDR Information	<input type="checkbox"/> Bridge Profile <input type="checkbox"/> Underwater Inspection	<input type="checkbox"/> Fracture Critical Data <input checked="" type="checkbox"/> Load Rating Summary Sheet	<input type="checkbox"/> Addendum <input type="checkbox"/> Mechanical and Electrical Data
Atlantic Isle Avenue over Ocean Canal	Facility carried & Location	0.25mi. West of A1A	
Location Map	Detour Length = 0.13Miles		



Purpose and Need



Address structural deficiencies

Provide a safe and usable route for the public

Improve functional operations



Project Goals



**Minimize
Environmental Impacts**



**Minimize Effects
To Significant
Cultural Resources**



Enhance Safety



Improve Mobility

Alternatives Considered

Non-viable Alternatives

- X** TSM&O Alternative - Operational Improvements
 - *Does not address structural deficiencies*
- X** Multimodal Alternative
 - *Does not address structural deficiencies*
 - *Impacts Park & Lagoon (NRHP-eligible resources)*
- X** Tunnel Alternative
 - *Significant impacts to Park & Lagoon (NRHP-eligible resources)*
 - *Significant impacts to natural resources*

Viable Alternatives

- ✓ No-Action
 - *Doesn't meet P&N; but MUST be studied throughout*
- ✓ Bridge Rehabilitation
- ✓ Bridge Replacement

No Action Alternative

Advantages:

- No construction effects
- No construction costs
- No disruption to community or travel patterns
- Bridge service life estimated between 15 and 25 years

Disadvantages:

- Frequent maintenance
- Does not preserve historic integrity
- Does not provide new bridge riding surface or structural arch
- Does not involve new foundations
- Load restrictions remain



Build Alternative 1 - Rehabilitation

Advantages:

- Provides new bridge riding surface and structural arch
- Provides new bridge foundations
- Maintains existing bridge façade (oolitic limestone)
- Maintains existing arch
- Load restrictions removed
- New bridge components life = 75 years

Disadvantages:

- Does not rehabilitate façade
- Significant construction risks
 - Bridge façade could crumble
 - Potential for bridge settlement
- Frequent future maintenance of bridge façade
- Higher construction costs compared to replacement



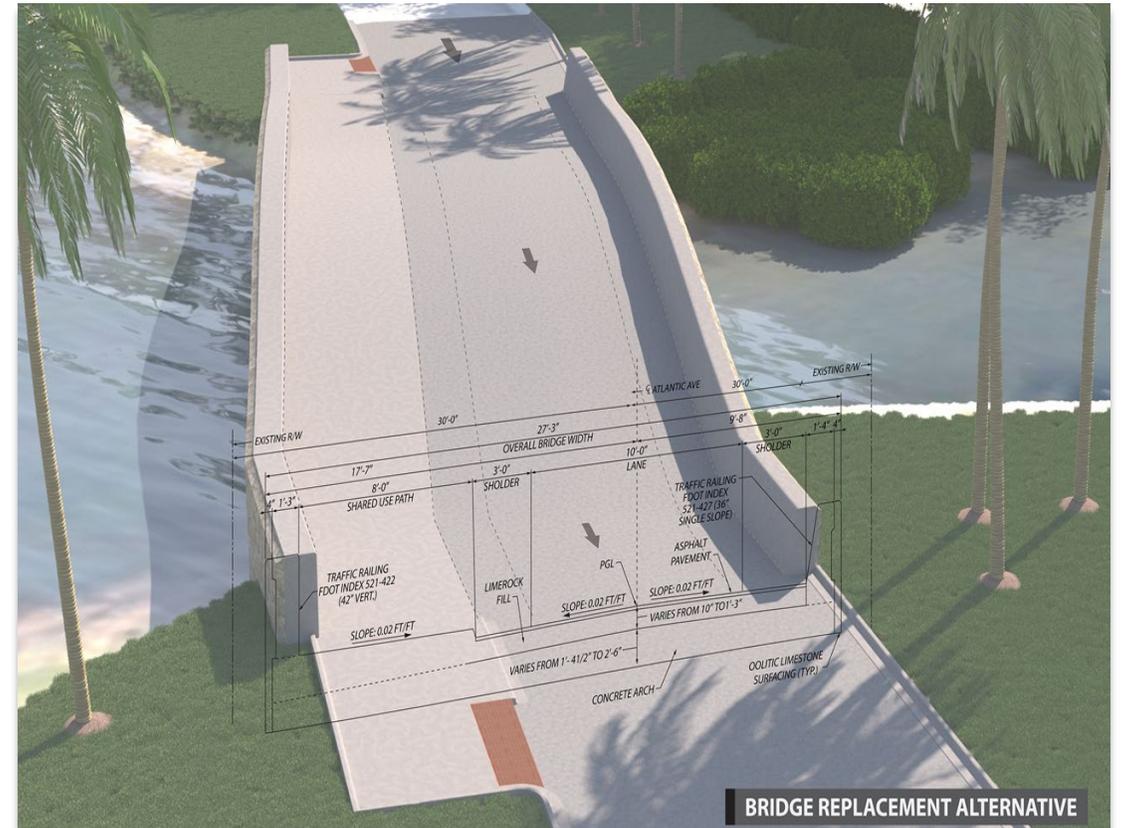
Build Alternative 2 - Replacement

Advantages:

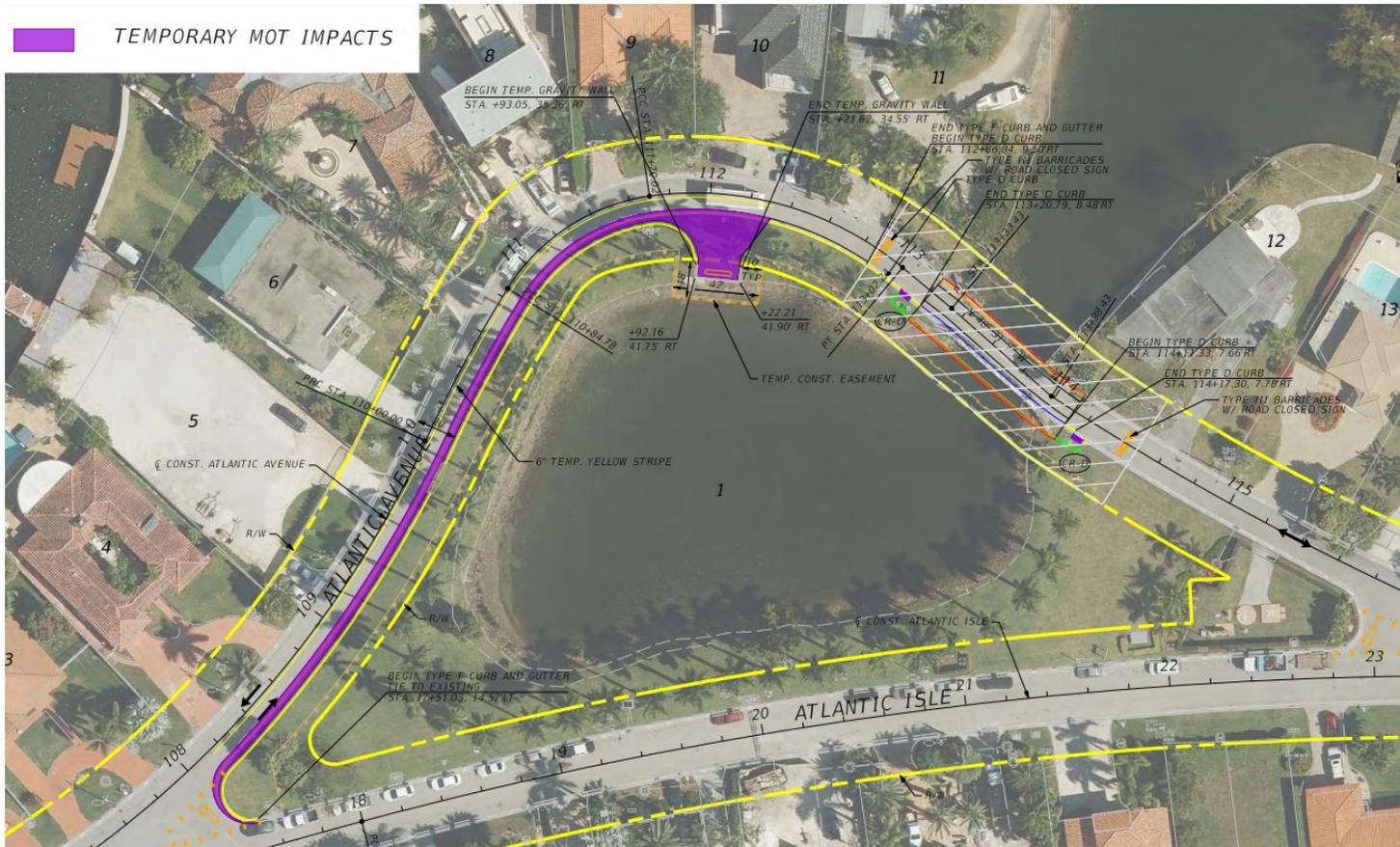
- Corrects structural deficiencies
- Corrects and improves bridge function and safety
- Separates pedestrians/bicyclists from motorized vehicles
- Could mimic historical character of existing bridge
- Lower construction & maintenance costs (compared to Rehabilitation Alternative)
- Oolitic limestone could be reused (or locally sourced)
- Bridge life = 75 years
- Load restrictions removed

Disadvantages:

- Historic bridge is gone
- Some impacts to the Park & Lagoon
- May have slightly different profile than existing bridge



Temporary Maintenance of Traffic Considerations



- MOT impacts are the same for both Build Alternatives
- Temporary impacts include:
 - Right-of-Way impacts
 - Atlantic Island Park impacts

Preferred Alternative

- Statistical Analysis Performed – Compared:
 - Public Input to Date
 - Environmental Impacts
 - Bridge Functionality
 - Safety
 - Costs

Preferred Alternative:

➔ **Build Alt #2 (Replacement)** ←

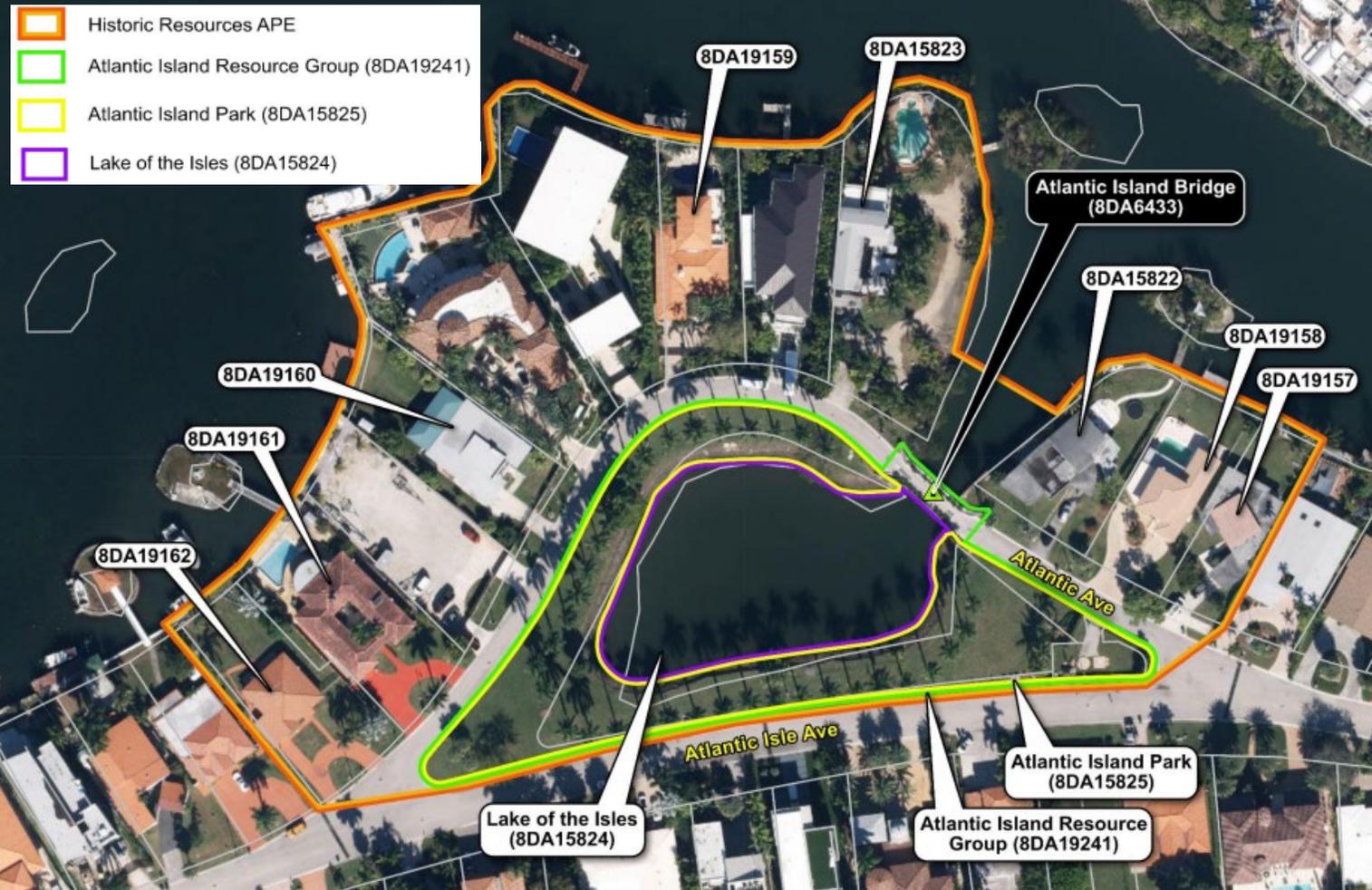
Continue to Refine & Evaluate Against No-Action Alternative Throughout Study

Category	Criteria	No-Action Alternative	Build Alternative #1 (Rehab)	Build Alternative #2 (Replace)
Structural Deficiency	Foundation Improvements	0	1	1
	Riding Surface Improvements	0	1	1
	Total	0	2	2
Functionality	Meets Design Criteria	0	0	1
Bridge Life	Life Expectancy	0	3	3
Project Purpose and Need	Meets Purpose and Need	0	1	2
Natural Environment Impacts	Permanent Wetland (NWI) Impacts (acres)	3	3	1
	Permanent Surface Water Impacts (acres)	3	3	1
	Increased Shading Impacts	1	1	0
	Species Habitat Impacts (acres)	3	2	2
	Total	10	9	4
Safety and Access	Operation and Safety	0	0	2
	Weight Limit Restrictions	0	1	1
	Bike and Ped Improvements	0	0	3
	Emergency Response	0	1	2
	Total	0	2	8
Community Impacts	Community Resources Impacted (Temp.)	3	2	2
	Residential Parcel Impacts	3	3	3
	Temporary ROW Impacts (Acres)	3	2	2
	Total	6	5	5
Cultural Resource Impacts	NHRP Eligible Resource Impacts	3	2	2
	Maintains Historic Integrity	1	0	0
	Total	4	2	2
Costs	Construction Cost	3	2	1
	Future Maintenance Costs	1	2	3
	Total	4	4	4
Public/Stakeholder Support	Alternative Support	0	1	2

	No-Action	Build #1	Build #2
Total Score	24	29	33
Rank	3	2	1



Cultural Resources



Atlantic Island Resource Group

Group Includes:

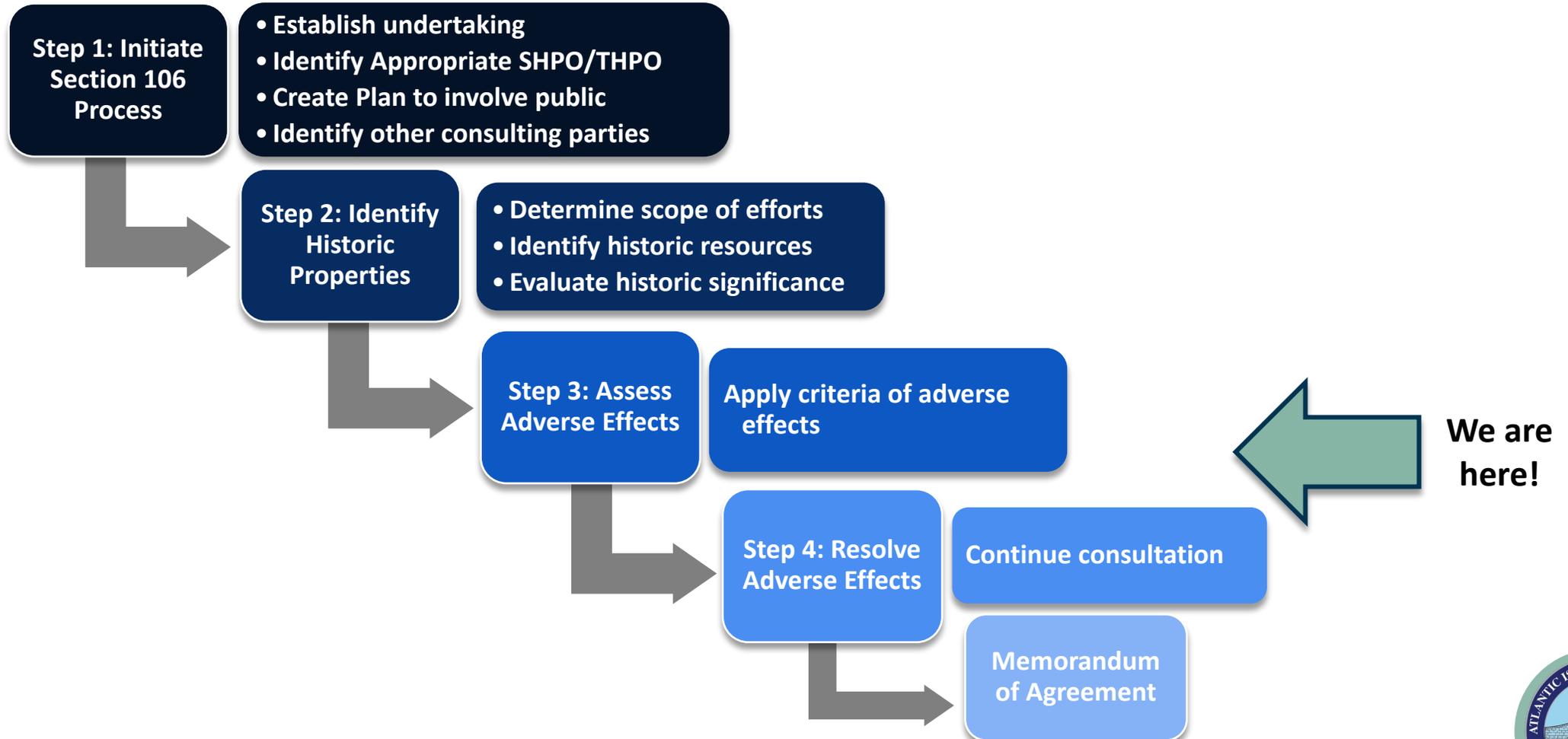
- ✓ Atlantic Island Bridge
- ✓ Lake of the Isles (Lagoon)
- ✓ Atlantic Island Park

Feb. 2022 – SHPO determined Resource Group is NRHP-eligible

2016 – SHPO determined Bridge is NRHP-eligible



Section 106 of the National Historic Preservation Act Process



Affected Parties Consultation

- ✓ Present Project Purpose and Need and Alternatives Considered
- ✓ Discuss the Section 106 Process
- ✓ Outline how Section 106 Process is carried out through project
- ✓ Present findings of cultural resources studies
 - ✓ Allows for input from consultation participants regarding resources and eligibility
- ✓ Define next steps in the Section 106 process: effects and resolution of effects
- *Gain your input on potential effects and minimization and mitigation measures*
- *Memorandum of Agreement will be prepared documenting input*

Input on Potential Effects & Minimization and Mitigation Measures

Potential Mitigation Measures to Consider

- Historic American Engineering Record (HAER) and Historic American Landscape Survey (HALS) Documentation - Bridge, Park, & Lagoon



Input on Potential Effects & Minimization and Mitigation Measures

Potential Mitigation Measures to Consider

- State Historic Marker - History of Atlantic Isles Design, Bridge, Park, & Lagoon



Input on Potential Effects & Minimization and Mitigation Measures

Potential Mitigation Measures to Consider

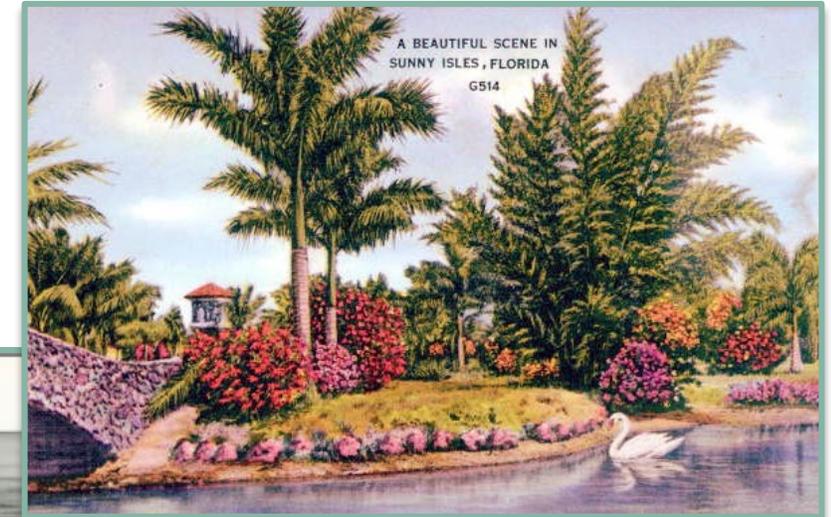
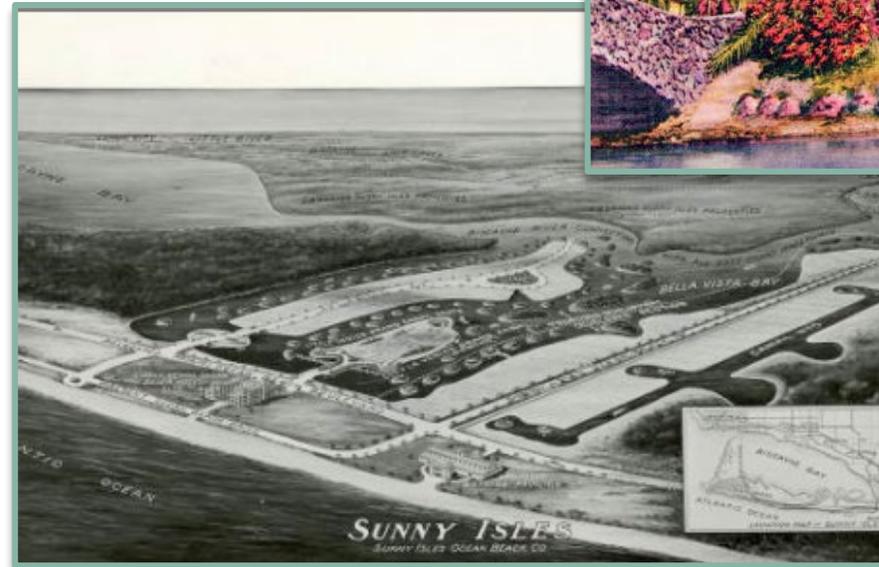
- Incorporate Historical Design Elements into the New Bridge



Input on Potential Effects & Minimization and Mitigation Measures

Potential Mitigation Measures to Consider

- Written Historic Context - Man-made Island Developments of the Area (Sunny Isles Development)

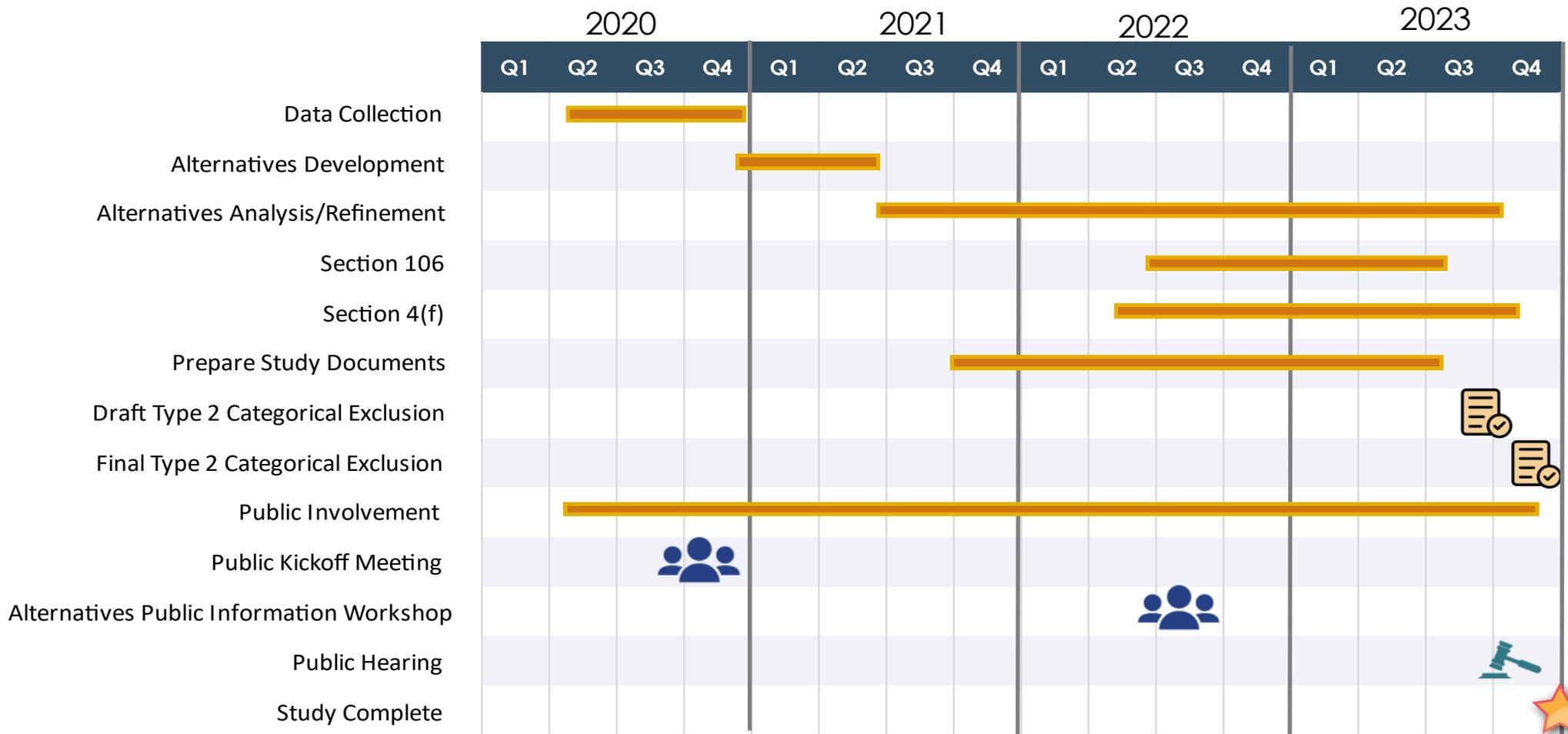


Discussion



- Select the raised hand feature on the control panel to voice your question or comment
- Type your comment in the chat
- Any additional comments should be submitted to Nick Danu following the meeting. Would appreciate all comments by May 1st.

Project Schedule





Contact Information

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Infinite Source Communications Group
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Thank You for attending!



City of Sunny Isles Beach
Historic Preservation Board
Consultation Meeting

April 6, 2023



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