

*Public Meeting #2  
for*

# **FLAGLER BEACH**

*Fishing Pier Replacement*



October 18, 2023



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# INTRODUCTIONS



# **Public Meeting #2**

- 1. Project Overview**
- 2. Comments from Public Outreach #1 with Responses**
- 3. Permitting & Engineering Design Progress & Timeline**
- 4. What to Expect During Pier Construction**
- 5. USACE Beach Renourishment Project**

# PROJECT OVERVIEW



# Top 3 Project Goals

1. Replace the outer ~700 feet of the historic wooden pier with a new concrete and timber pier based on the federally approved scope and modern codes, standards, insights, and engineering practices.
2. Preserve the historical significance of the pier by reinforcing, rather than replacing, the first ~100 feet at the base of the existing wooden pier.
3. Minimize environmental, operational, and public impacts, which includes keeping businesses like the Funky Pelican Restaurant open during construction.

# Fishing Pier Opened on July 4, 1928



# Exposure to Storm Waves

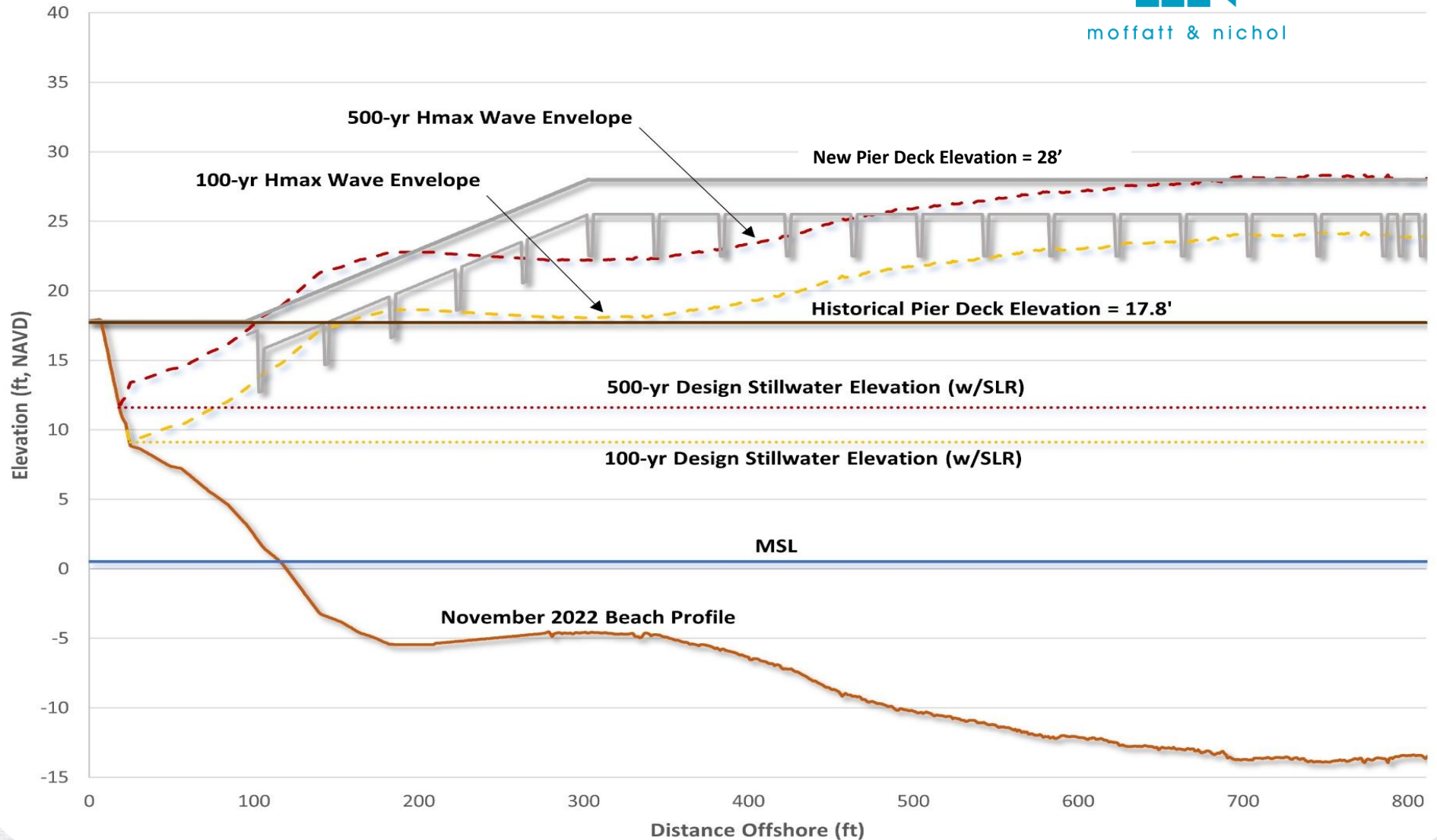


# Resilience - Deck Elevation

100- and 500- Year  $H_{max}$  Wave Envelopes



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# Recently Reconstructed Piers

Fishing Pier	Elevation (feet)
Pensacola Beach	26
Panama City Beach	26
Pompano Beach	26
Jacksonville Beach	27.5
<b>Flagler Beach</b>	<b>28</b>
Navarre Beach	30

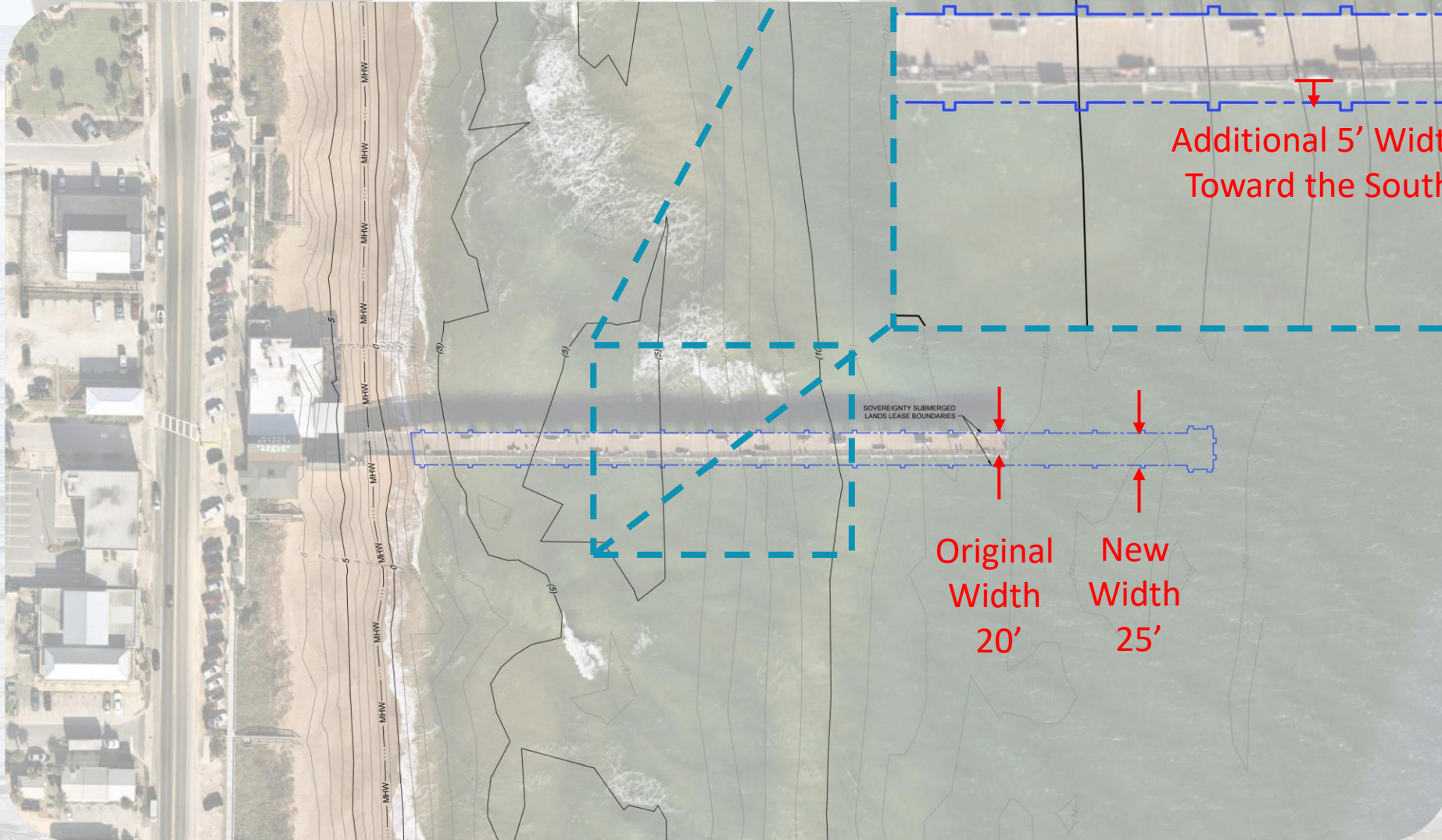


# Additional Design Criteria

- Concrete Piles, Cap and Stringers
- Timber Breakaway Deck Panels
- 25-ft Wide Pier Deck with a 20-ft x 32-ft T-Head
- ADA accessibility; 5% (1:20) slope to new deck elevation; ADA handrails
- Other features and amenities:
  - Firewater system (new)
  - Potable water with fish cleaning stations
  - Benches
  - Turtle lighting
  - Shade Structures



# Increased Deck Width

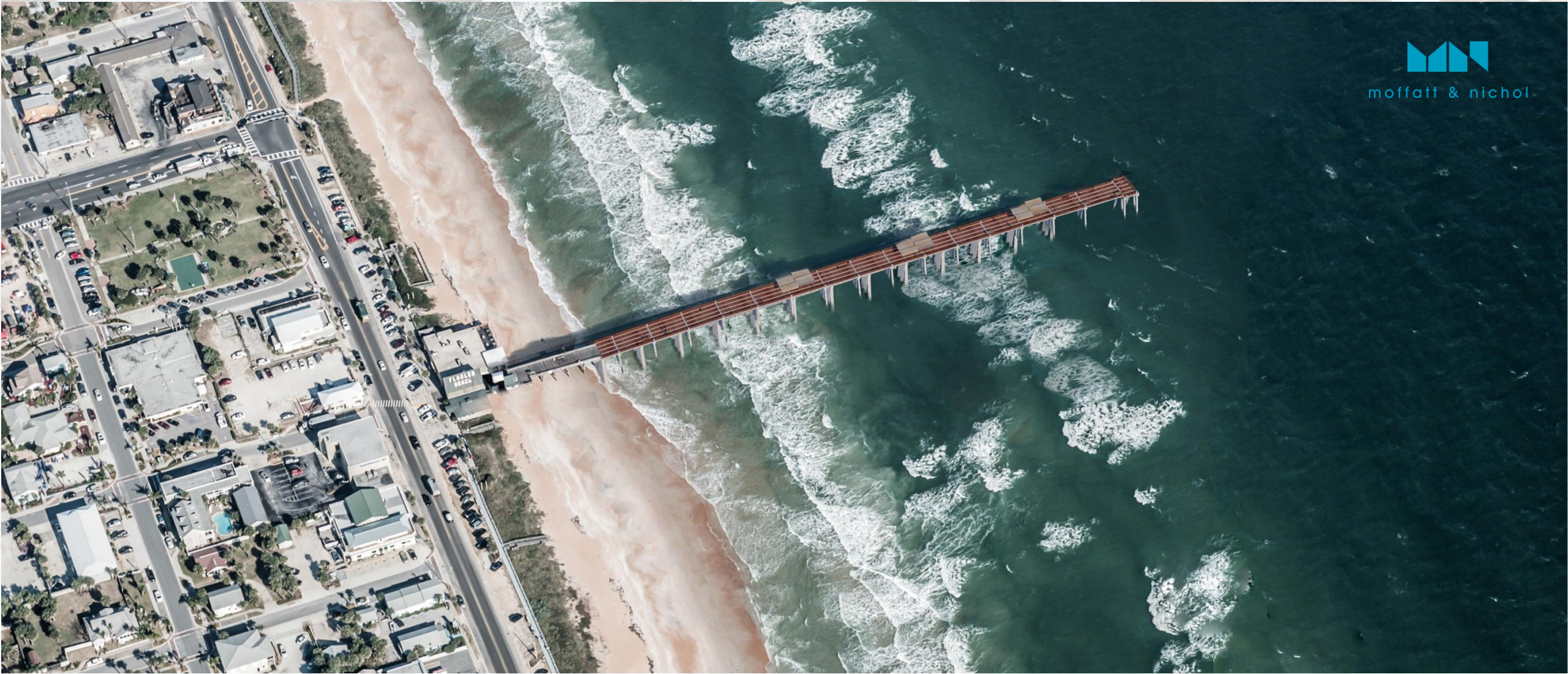


# Design and Construction Layout





# PUBLIC MEETING # 1 COMMENTS

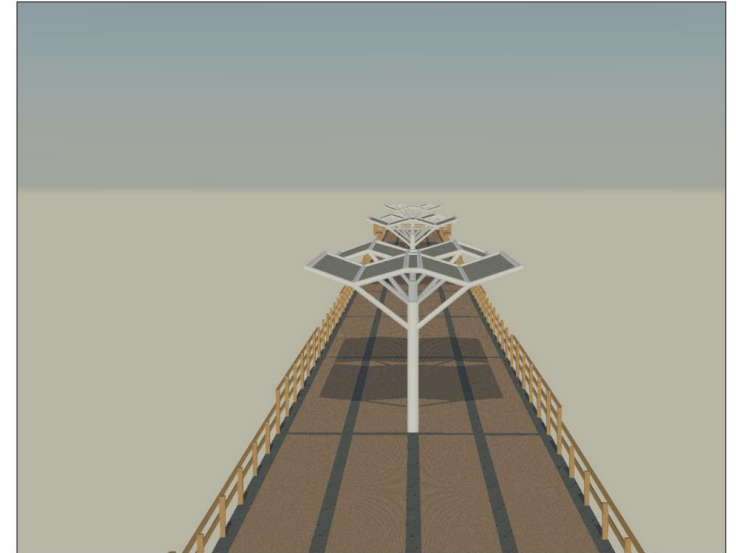
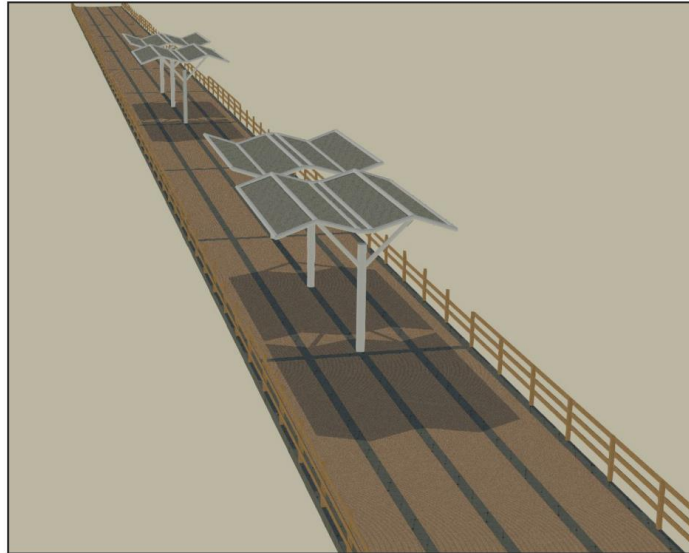
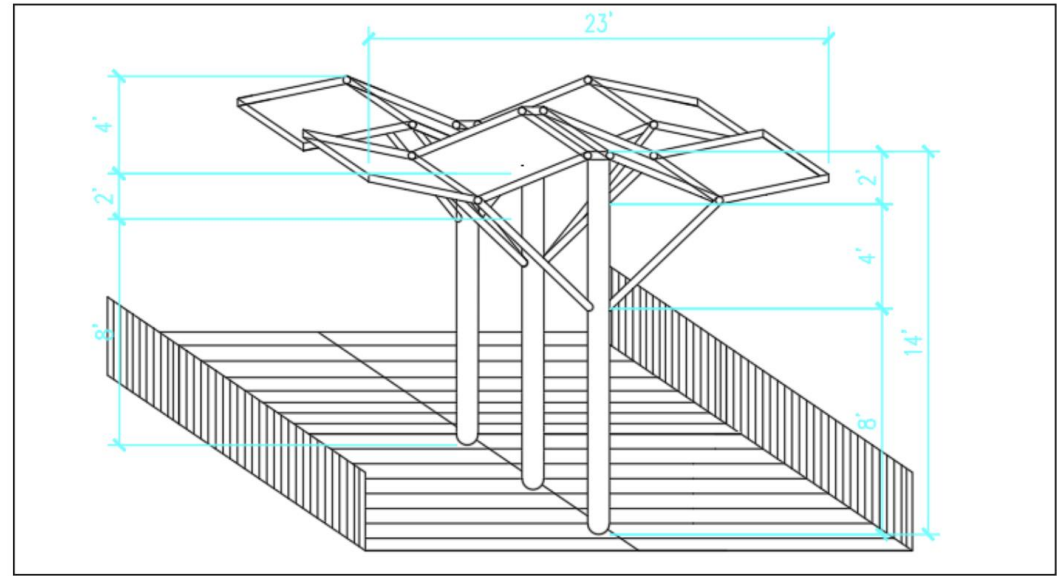


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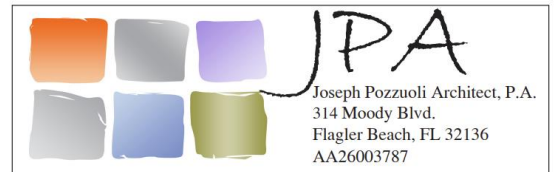
# Pier Deck Elements

- Shade / shade structures on the Pier
- Lots of seating / benches (and consider personalizing)
- Fish cleaning stations / water supply at the Pier





Custom Shade Structures For:  
**FLAGLER BEACH PIER**







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# Electrical Power and Lights

- Power supply at various places along the pier
- Electricity for (e.g., holiday decorations)
- Provide rail lights along the pier



# Electrical Power and Lights



# Pier Accents, Signs, Decorations

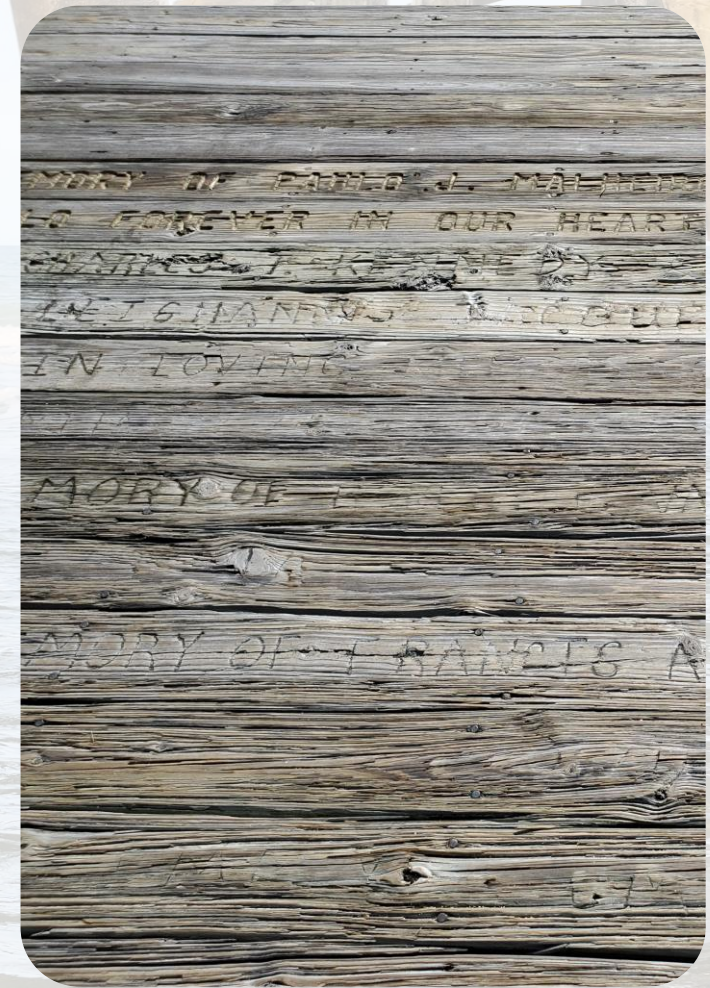


**F** **B** *Creates*



# Additional Comments

- Build to support low maintenance costs
- Create a pier that is environmentally friendly
- Consider ideas from other piers
- Accommodations for holiday decorations
- Alternative energy ideas (solar, wave energy)
- Recover memorial planks or provide in focal point of new pier



# Operational Comments

- Accommodations for special events and other uses besides just fishing
- Designating certain areas of the pier for certain exclusive activities
- Vendor areas for businesses (popcorn, hot dogs, pretzels)
- Dedicated photo, other activity spots, children's area
- Provide music speakers / an area for live music at the Pier



# Operational Comments

- Pier access, costs, revenue generation, employment
- Renaming the pier
- Providing shuttle service
- Renovating the base of the pier and A-frame
- Expanding the public restrooms





# PERMITTING & DESIGN UPDATE



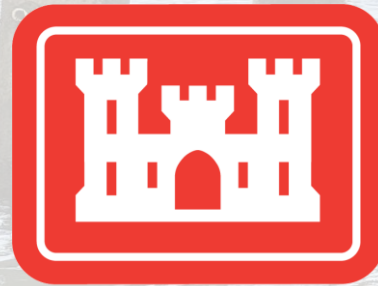
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# Teamwork and Coordination



FEMA



*Volusia/Flagler Turtle Patrol*



# Permitting

## Florida Department of Environmental Protection

- Submitted application for JCP and submerged lands lease modification
- Responding to the 2<sup>nd</sup> RAI
- Confirming the lighting is turtle friendly
- Refining the Pier Management Plan

## US Army Corps of Engineers

- Submitted application for an individual permit
- Responded to multiple RAIs
- Public commenting period was completed in early Sept.
- Endangered Species Act Consultations – NMFS and USFWS



# Flagler Beach Fishing Pier Renovation

## Permitting and Engineering Design Timeline

**Oct 2022**

Project Kickoff

**Jan 2023**

Concept Plan and Coastal Analysis Completed

**May 2023**

30% Deliverables Submitted

**Aug 2023**

60% Deliverables

**Jan 2023**

Complete Draft 100% Documents

**Feb 2024**

Issue Bid Documents



**Oct-Nov 2022**

Field Studies and Surveys Completed

**Jan 2023**

1<sup>st</sup> Public Meeting

**Jun 2023**

Permit Application Completed and Submitted

**Oct 2023**

2<sup>nd</sup> Public Meeting

**Jan 2024**

Receive Environmental Permits



# Flagler Beach Fishing Pier Renovation

## Bid and Construction Timeline

**Apr - May  
2024**

Award  
Contract

**Jul 2024**

USACE Beach  
Nourishment  
Project Start

**Oct 2024**

Beach  
Nourishment  
Completed  
Near Pier

**Dec 2025**

Pier Substantial  
Completion

**Feb 2026**

Pier Re-Opens

**Jun 2024**

Pre-  
Construction  
and  
Procurement

**Aug - Sept  
2024**

Mobilization  
and Pier Base  
Rehabilitation

**Oct 2024**

Pier  
Construction  
Start

**Jan 2025**

Final  
Completion and  
Demobilization

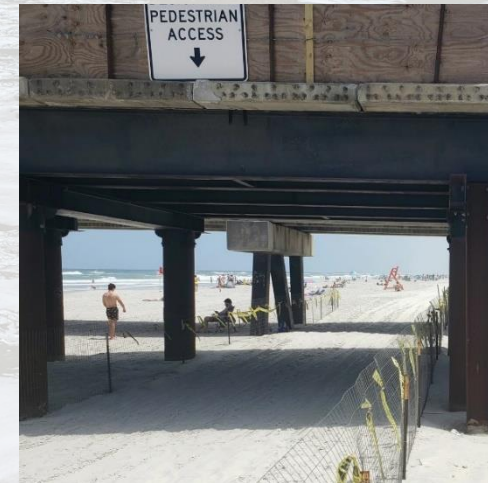


# CONSTRUCTION

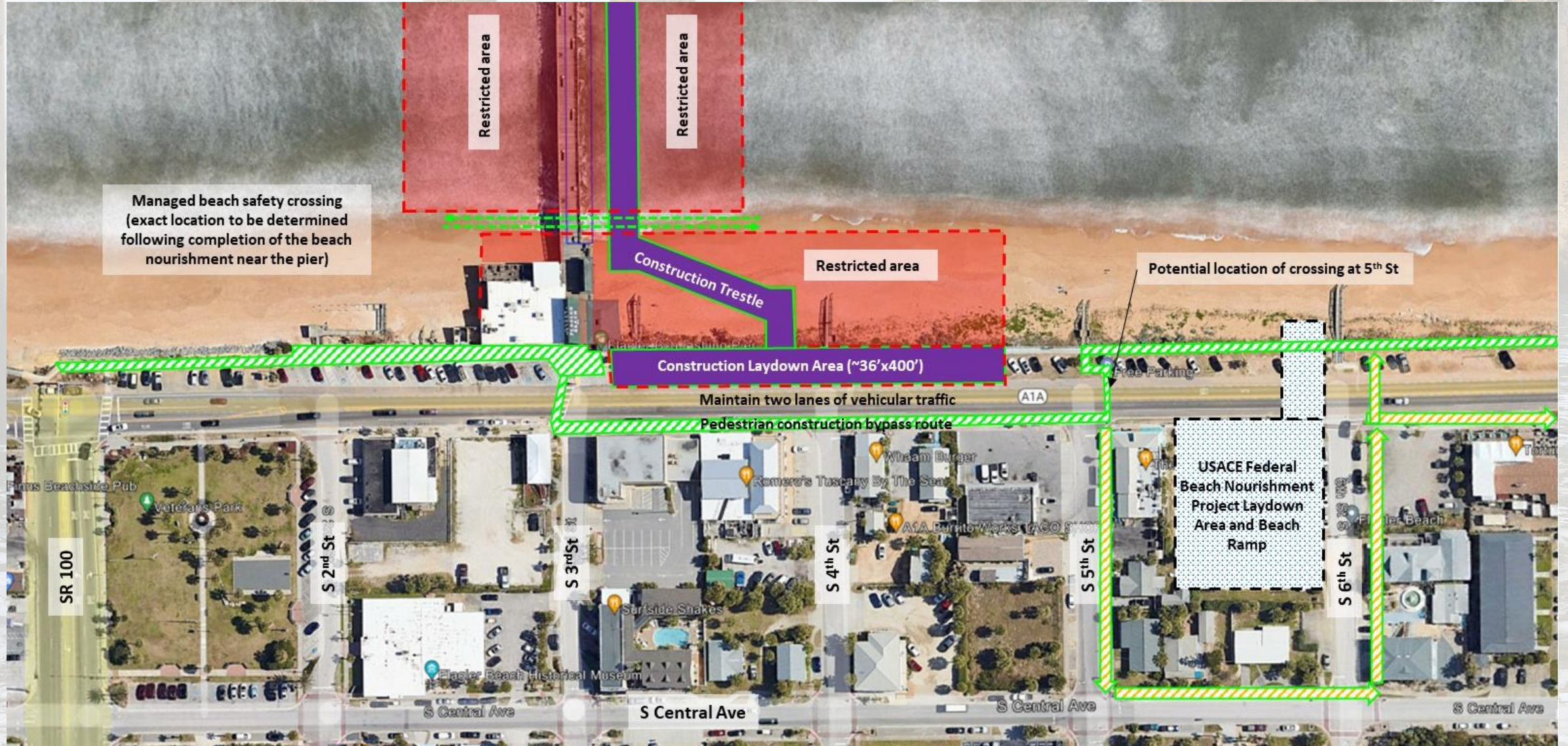


# Construction Considerations

- Safe, monitored public access on the beach coordinating with the police department, safety groups and the lifeguards
- Marked pedestrian and vehicular lanes along A1A
- Minimize disruptions to adjacent businesses
- Sufficient laydown and staging areas
- Awareness of and collaboration with other concurrent projects, including beach nourishment, A1A, and hotel construction



# Traffic Control





# Truck Delivery Route



# NEXT STEPS



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# Next Steps

- **CRITICAL PATH: Permitting, Permitting, Permitting**
- Continue collaborating with the City of Flagler Beach, Flagler Beach Creates, and other stakeholders on design details and funding
- Continue collaborating with USACE, FDOT, Flagler County and others on the simultaneous projects
- Keep the public informed



# USACE BEACH NOURISHMENT



# THANK YOU



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