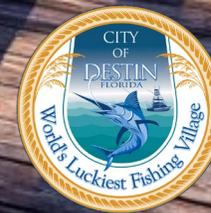




# Joe's Bayou Recreation Area and Mattie Kelly Park and Nature Walk Improvement Project

**Pearce Barrett, P.E.**

Division of Water Restoration Assistance  
Deepwater Horizon Program  
Florida Department of Environmental Protection  
Destin, Florida | Jan. 24, 2023



**HALFF**





# Presentation Outline

## FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

1. Project Goals
2. Funding
3. Project Team
4. Project Status
5. Public Survey Results
6. Planning Assessments
7. Master plan (Draft)
8. Masterplan Overlay on Aerial
9. Parking Improvements
10. Other Improvements
11. Building Floor Plans
12. Renderings
13. Questions & Comments



# Project Goals

## FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

- **To develop and improve public access and recreational enhancement to the Joe's Bayou Recreation Area and Mattie Kelly Park and Nature Trail.**
- **These improvements are to include, as the budget allows, the following:**
  - Improve access to the existing boat ramp area and access piers.
  - Replace / Improve the existing fishing pier.
  - Protect and increase access to the shoreline through the construction of a reef breakwater and removal of existing hardscape.
  - Rehabilitation and expansion of parking areas.
  - Repair / Improve the nature trails and viewing areas.
  - Wetland enhancement, pond restoration, and improvements to stormwater management.
  - Lighting, landscaping, irrigation, and park amenities (trash recepticals, benches, interpretive signage).



# JOE'S BAYOU

	<p>REVISIONS</p>		<p><i>CITY OF DESTIN</i>  <i>PUBLIC SERVICES DEPT.</i>  <i>4200 INDIAN BAYOU TRAIL</i>  <i>DESTIN, FLORIDA 32541</i>  <i>PHONE: (850) 837-4242</i>  <i>FAX: (850) 837-9693</i></p>	<p><i>JOE'S BAYOU</i>  <i>RECREATION AREA</i></p>	<p>DRAWING DATE</p>
	<p>DATE</p>	<p>DESCRIPTION</p>			<p>02-02-17</p>
				<p><i>PARK CONCEPT PLAN</i></p>	<p>Sheet No.</p>
					<p>4 OF 7</p>



# Project Funding

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

## **Funding provided through the Natural Resource Development Assessment Final Restoration Plan RP-1**

Total Amount Allocated - \$12,202,891

This amount includes administration, planning, permitting, design, & construction



# Project Team

## FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION



**FDEP –**

Project Sponsor, Project Management  
Consultant Team



**City of Destin Staff –**

Owner  
Project Input  
Plans Review  
Permitting



**Taylor Engineering –**

Prime Consultant  
Project Management  
Coastal & Waterfront Engineering  
Regulatory Permitting Agent



**DAG Architects –**

Architect  
Site Master Planning  
Website Development & Maintenance.



**Halff Associates, Inc –**

Civil Engineering  
Landscaping



# Project Status

## FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

### Project progress to date:

- **Desktop investigations (review of published data).**
  - ✓ Development of a Website to serve as a Platform for Public Outreach.
  - ✓ Develop an online survey and analysis of the results.
- **Data Collection**
  - ✓ Boundary, Topographic, Bathymetric, and Natural Resources.
  - ✓ Initial Geotechnical Investigations.
  - ✓ Assessments of existing conditions and facilities.
- **Planning assessments**
  - ✓ Pedestrian Circulation, Navigation, Mooring, Boat Ramps, Traffic Parking, Existing Structures, etc.
- **Architectural Master Plan. Conceptual designs (30%).**
  - ✓ Pre-application Permit Meeting(s) with Regulatory Agencies (FDEP, USACOE).

# Public Survey

1. Results
2. What Did We Learn



# Public Survey Results Summary

## FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

In 2022 the Design team was asked to create a survey to help facilitate the community's needs and prioritize the scope of work. The question that needed to be answered

### Question...

## **How can Joe's Bayou / Mattie Kelly Park serve you?**

- Who are we serving?
- How is the park already serving You?
- What improvements need to be made?



# Public Survey Results Summary

## FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

### Who are we serving?

The information and website survey was set up in March 2022 and ran for 45 days. During that time period, we received 437 respondents. [Great Participation!](#) 👍

**1. Are you a resident of Okaloosa County?**

- 95% of respondents live in the county.

**2. Are you also a resident of the City of Destin?**

- Roughly 90% of respondents said yes!

**3. If you reside in the county, how long have you lived there?**

- The majority of the residents have lived in the area for 6+ years (70%)

**4. Age Ranges?**

- 35 – 50 years (37%)
- 50 – 64 years (27%)
- 25 – 34 years (20%)



# Public Survey Results Summary

## FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

### How is the park already serving You?

How can we maintain and expand on existing programming

#### 5. What are the most popular activities?

- Boating, walking/jogging/running, fishing
- Kayaking, picnics, bird watching, swimming

#### 6. How many people are you with when visiting?

- 1 – 3 (61%)
- 3 – 6 (27%)

#### 7. How do visitors access the park?

- Vehicles (car, truck, SUV)
- Pedestrian

#### 8. What kind of watercraft are most visitors bring?

- A boat (18 – 28 feet)
- Paddle craft
- No watercraft



# Public Survey Results Summary

## FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

### What Improvements Need To Be Made?

This will help us prioritize budgetary efforts.

#### 9. What areas of the park need the most Improvement?

- Restrooms #1
- Natural Shoreline Access, boat ramp improvements
- Vehicle with Trailer Parking

#### 10. What improvements would make the park better?

- Shoreline Access, boat ramp, fishing pier, & restrooms
- Shade sitting areas, paddle craft launch, vehicular/trailer parking, nature trail



# Public Survey Results Summary

## FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

### What did we learn?

Respondent results to the survey.

### Our Goals & Highest Priorities.

- Increase shoreline access
- More efficient and better boat trailering parking
- Incorporation of shaded sitting areas
- Improve restroom facilities
- Improve launch access for boats and paddle crafts
- Create & Improve boardwalks, and sidewalks



# Planning Assessments

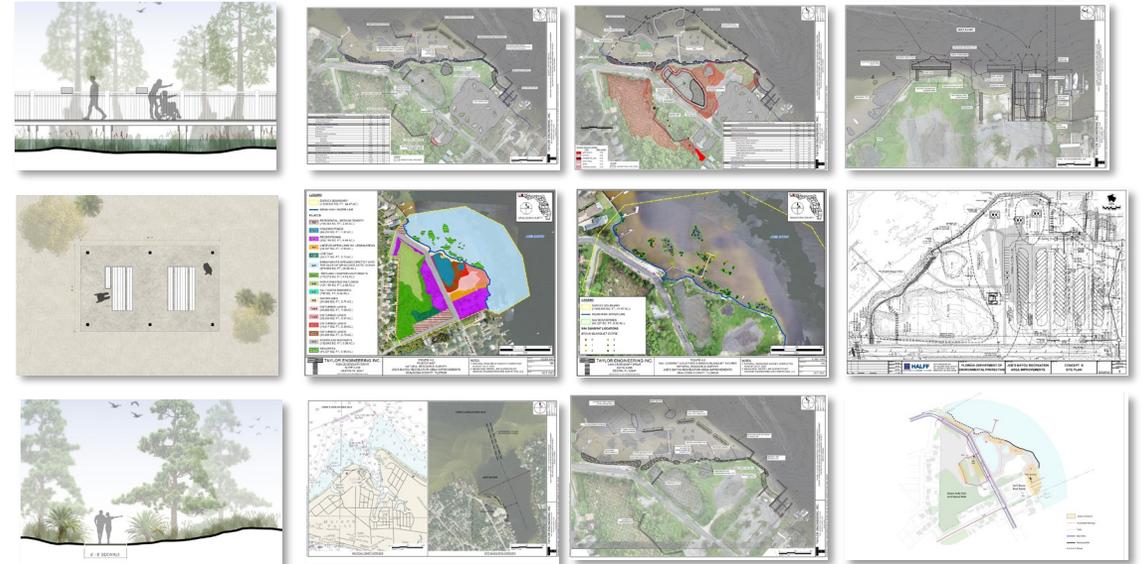
## FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

### Assessments -

The design team spent 1 year conducting observations, research, surveys, conceptual engineering, architectural planning, and interviews to develop and document content that was used to support the design direction.

### Types of Assessments

- Pedestrian Circulation
- Existing Structure
- Navigation, Mooring, and Boat Ramps
- Traffic & Parking
- Coastal Structures & Conditions
- Stormwater
- Environmental Restoration
- Preliminary Cost Analysis



# Masterplan



1. Existing Views
2. Existing Site Plan
3. Masterplan Overlay
4. Masterplan
5. Alternate
6. Parking Improvements
7. Other Site Improvements
8. Renderings

# Existing

Overflow Parking

Pond

Mattie Kelly Nature Trail

Beach Dr.

Fishing Pier



# Existing

Mattie Kelly Nature Trail

Pond

Fishing Pier

Overflow Parking

Restrooms

Parking

Boat Ramps

Joe's Bayou



# Existing

Boat Ramps  
Restrooms

Parking

Mattie Kelly Nature Trail

Overflow Parking

Pond

Joe's Bayou



# Existing



Joe's Bayou

Fishing Pier

Boat Ramps

Overflow Parking

Parking

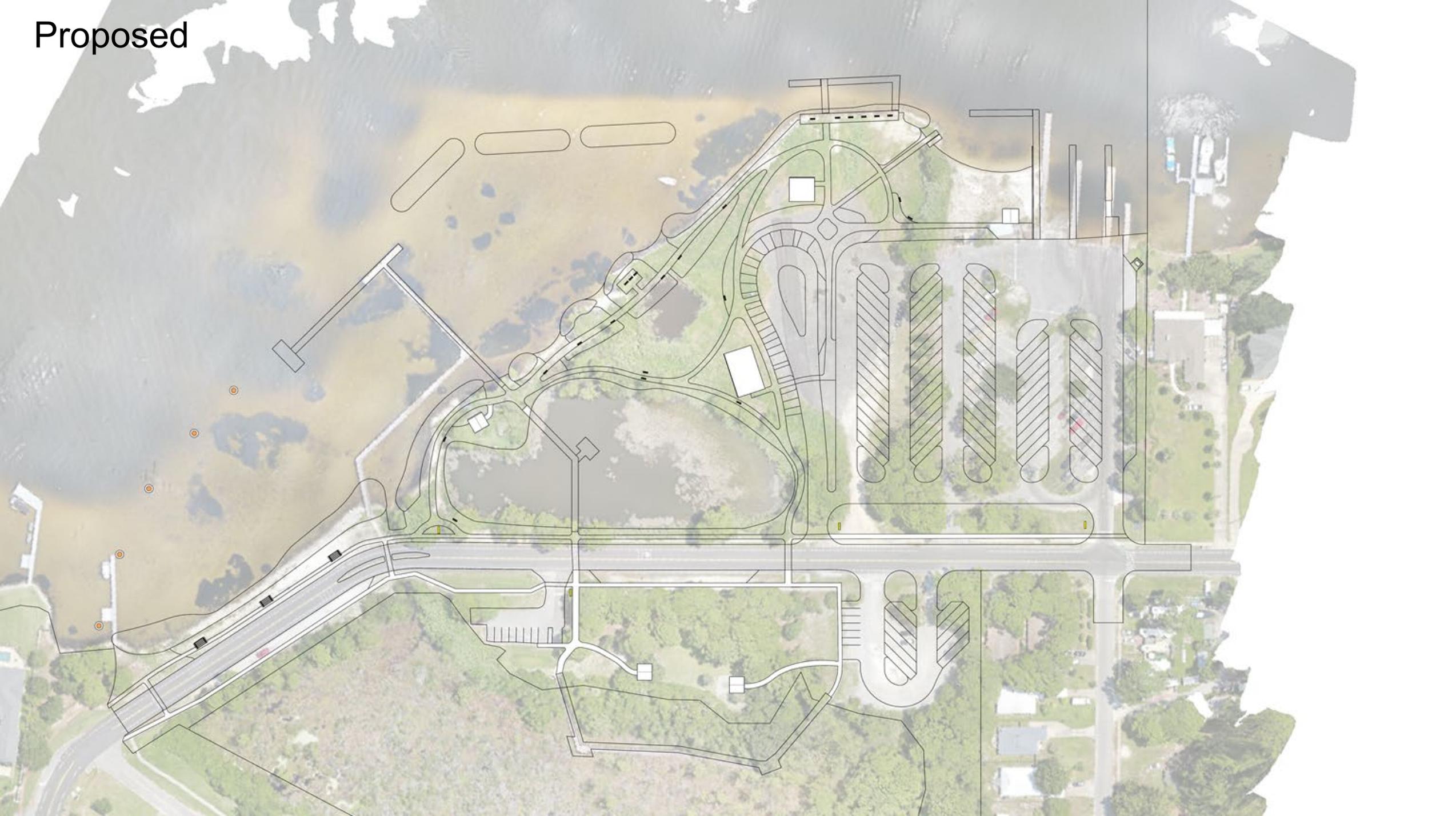
Pond

Beach Dr.

Mattie Kelly Nature Trail

Gravel Parking

Proposed



# Proposed

## Joe's Bayou



Mooring Platform

Kayak Launch

Breakwater

Picnic Pavilion

Expanded Beach

New Boat Ramps

New Shoreline Embayment's

Single Car Parking

Lawn

New Restroom

Boat Trailer Parking

Extended Fishing Pier

Pond With New Boardwalk

No Anchoring Buoys

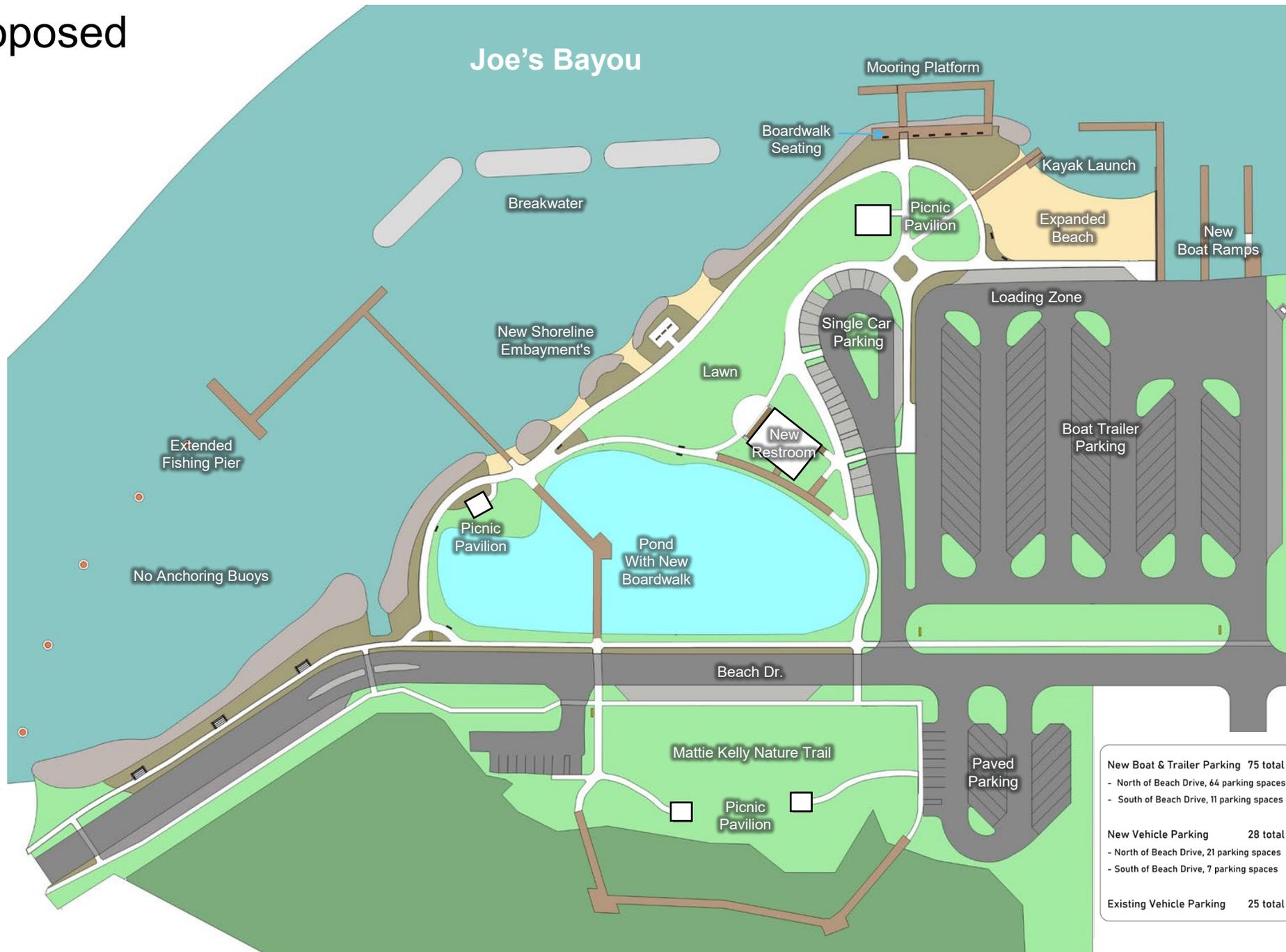
Beach Dr.

Mattie Kelly Nature Trail

Paved Parking

New Picnic Pavilions

# Proposed

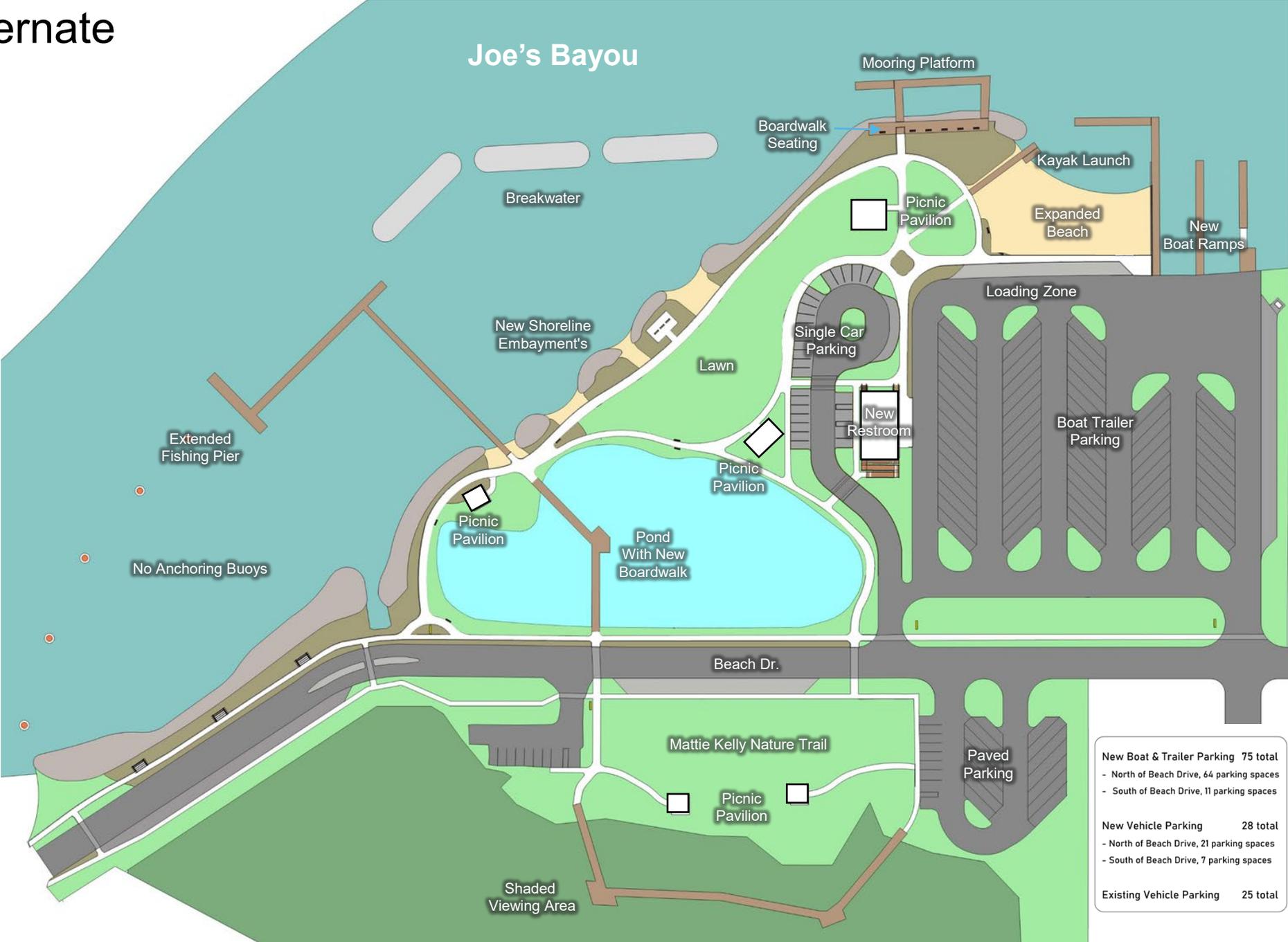


# Improvements

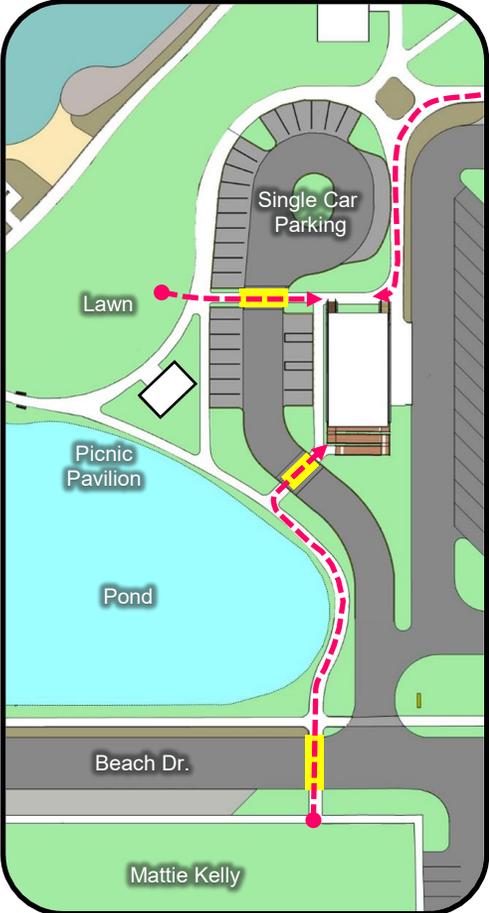
1. Boat Trailer Parking Lot (64 Spaces)
2. New Boat Trailer Parking (11 Spaces) & Vehicle Parking (7 Spaces)
3. New Mooring Dock
4. Stone Breakwater
5. New Shoreline Embayment's
6. Unloading Zone
7. New Boardwalk Connecting To Fishing Pier
8. Loading Zone
9. Vehicle And Small Paddle-craft Parking (21 Spaces)
10. Small Paddle-craft Loading & Unloading
11. Staff/Security Parking
12. Trash Enclosure
13. New Restrooms 4 Total Stalls With Staff Office
14. Staff Pavilion
15. Large Picnic Pavilion
16. Picnic Pavilions
17. New Signage
18. Pond Restoration
19. Crosswalk Protection
20. Extended Shoreline Access
21. New Fishing Pier Superstructure With Addition
22. Boardwalk Enhancement
23. Shoreline Seating Along Beach Dr.
24. New Boat Launch Piers With 1 ADA Access Launch
25. Small Watercraft ADA Access
26. Shoreline Boardwalk With Seating
27. Lawn Area
28. Revetments
29. Bike Rack
30. Raised Speed Control Crossing Humps With Crossing Signage
31. Viewing Areas
32. Speed Warning Lights
33. No Anchoring Buoys
34. Existing Site Parking (Approx. 25 spaces)

<b>New Boat &amp; Trailer Parking</b>	<b>75 total</b>
- North of Beach Drive,	64 parking spaces
- South of Beach Drive,	11 parking spaces
<b>New Vehicle Parking</b>	<b>28 total</b>
- North of Beach Drive,	21 parking spaces
- South of Beach Drive,	7 parking spaces
<b>Existing Vehicle Parking</b>	<b>25 total</b>

# Alternate



<b>New Boat &amp; Trailer Parking</b>	<b>75 total</b>
- North of Beach Drive,	64 parking spaces
- South of Beach Drive,	11 parking spaces
<b>New Vehicle Parking</b>	<b>28 total</b>
- North of Beach Drive,	21 parking spaces
- South of Beach Drive,	7 parking spaces
<b>Existing Vehicle Parking</b>	<b>25 total</b>



**Increased Road Crossings to access the restrooms**



# Parking Improvements

## FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

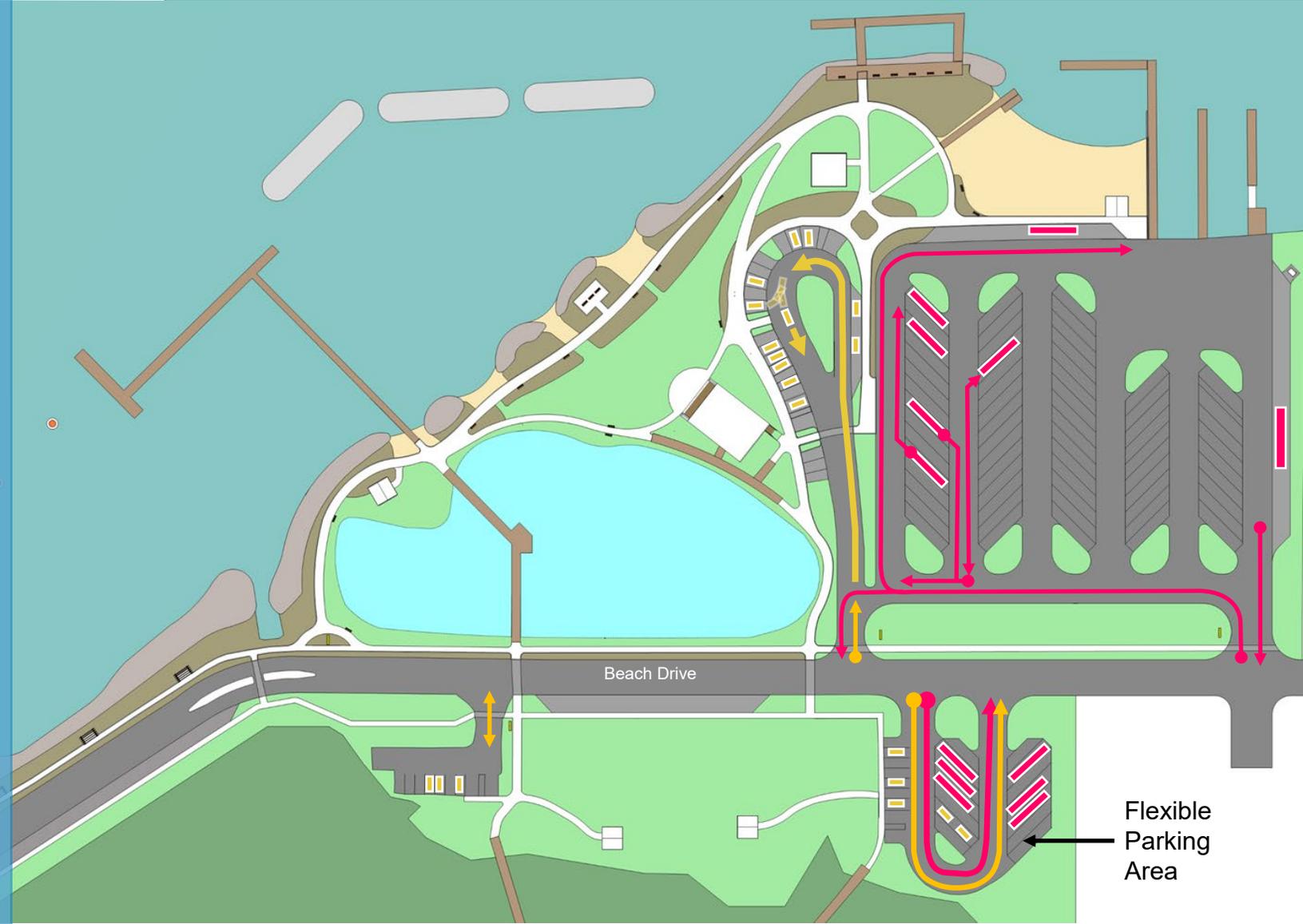
	Parking Spaces			
	Existing		Proposed	
	Single	Trailer	Single	Trailer
Boat Ramp Facility	--	47	21	63
Boat Ramp Overflow (Temporary)	--	~50	--	--
Northwest Lot	11	--	11	--
Southwest Lot	~20	--	12	12
Alongside Parking Areas	~12	--	11	--
<b>Total</b>	~43	~97	55	75

### Efficiency improvements

- Parking space dimensions
- Lane size / turning radiuses
- Separation of vehicle/paddle craft launching from vehicle/trailer parking

Single Vehicle 

Boat Trailer 

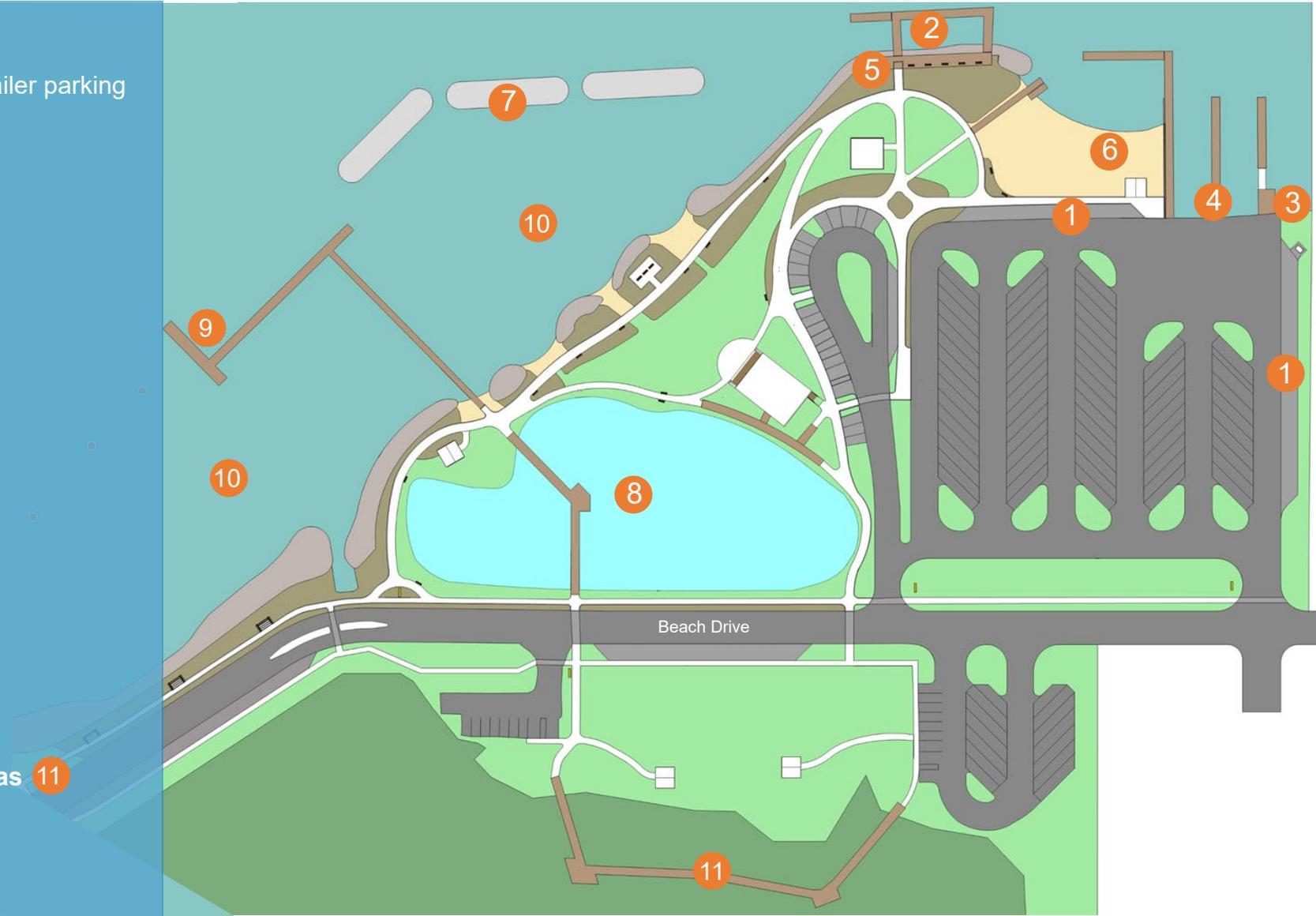




# Other Site Improvements

## FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

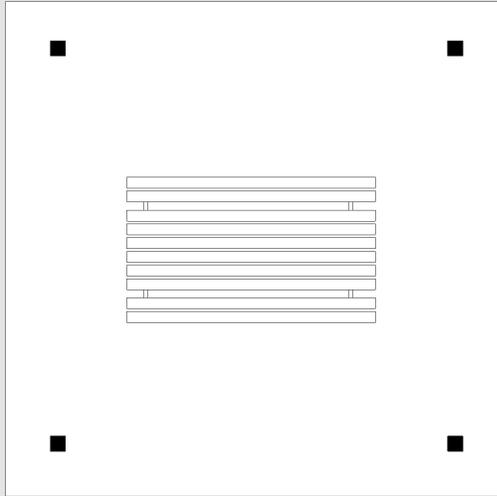
- **Launching efficiency improvements**
  - Improved ramp lane widths, radius, and vehicle trailer parking
  - Consistent ramp slope
  - Circulation (que lane)
  - Prep/staging areas 1
- **Mooring Piers** 2
  - ADA floating Access Pier 3
  - Fixed timber Piers (3) 4
- **Sanitary pump-out** 5
- **Expansion of beach area** 6
- **Breakwaters** 7
- **Invasive Plant Removal**
- **New Pond Boardwalk** 8
- **Fishing Pier Extension** 9
- **No Anchoring Buoys** 10
- **Repairs to Existing Nature Walk w/added seating areas** 11



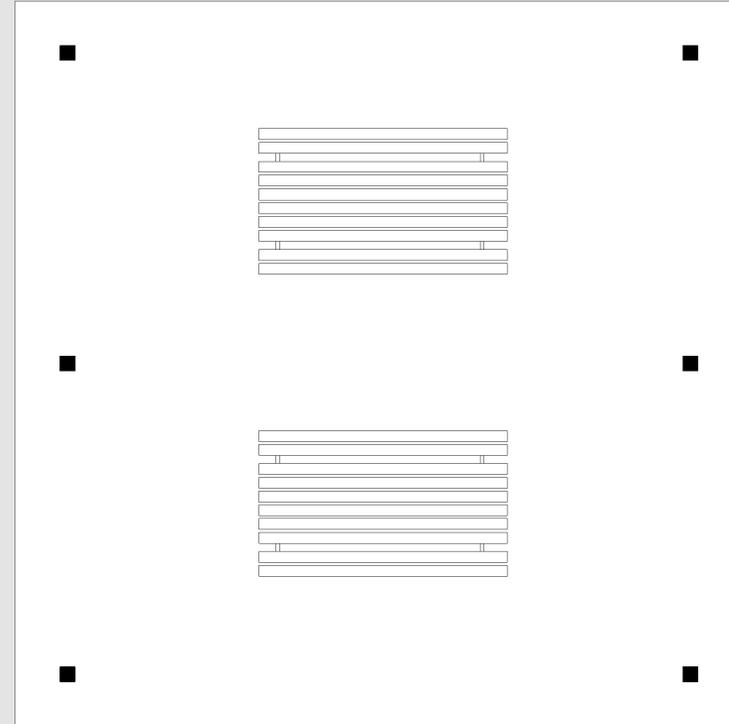


# Building Floor Plans

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION



**SMALL PAVLLION**

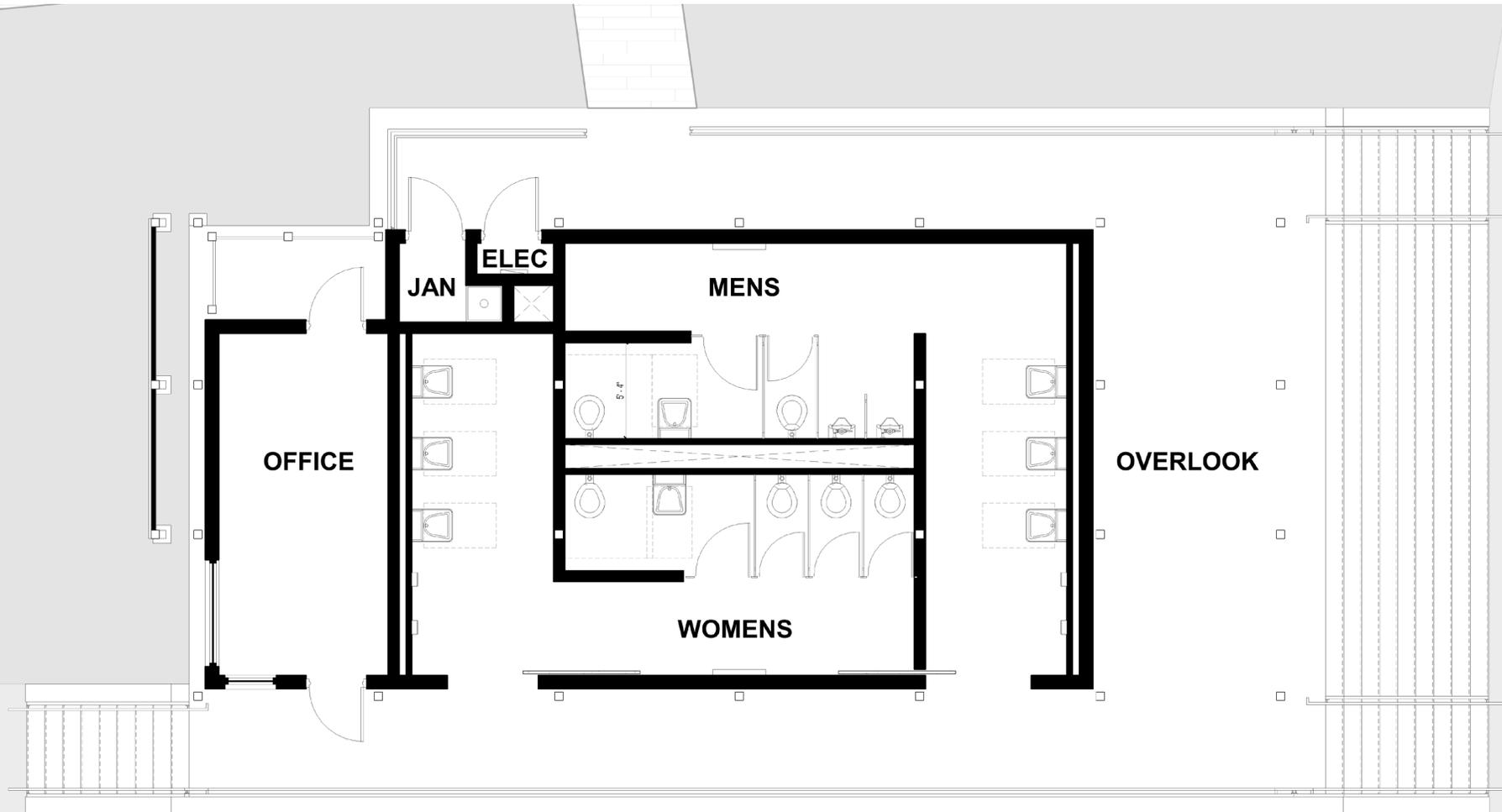


**LARGE PAVLLION**



# Building Floor Plans

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

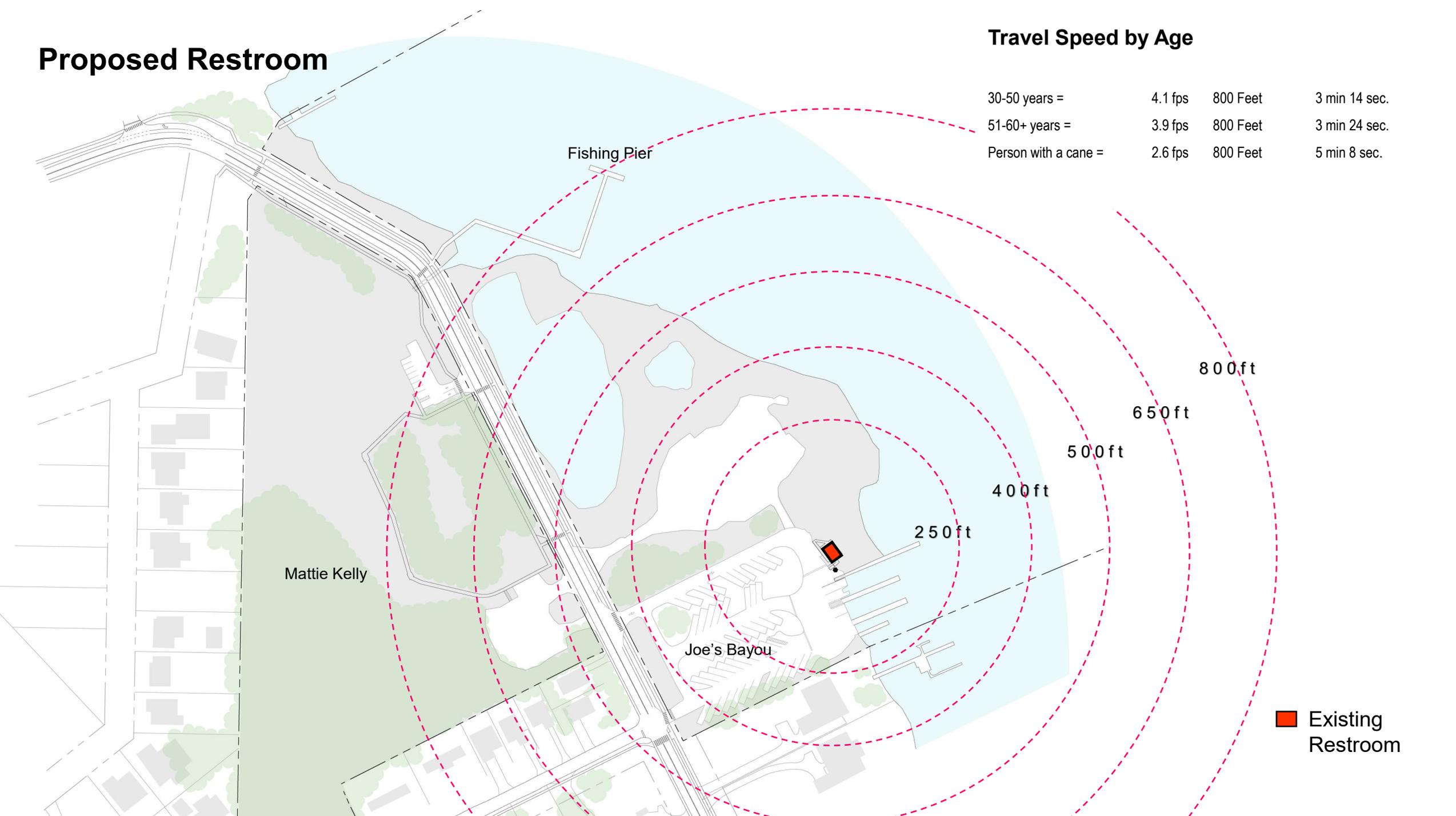


**Proposed Restroom**

# Proposed Restroom

## Travel Speed by Age

30-50 years =	4.1 fps	800 Feet	3 min 14 sec.
51-60+ years =	3.9 fps	800 Feet	3 min 24 sec.
Person with a cane =	2.6 fps	800 Feet	5 min 8 sec.

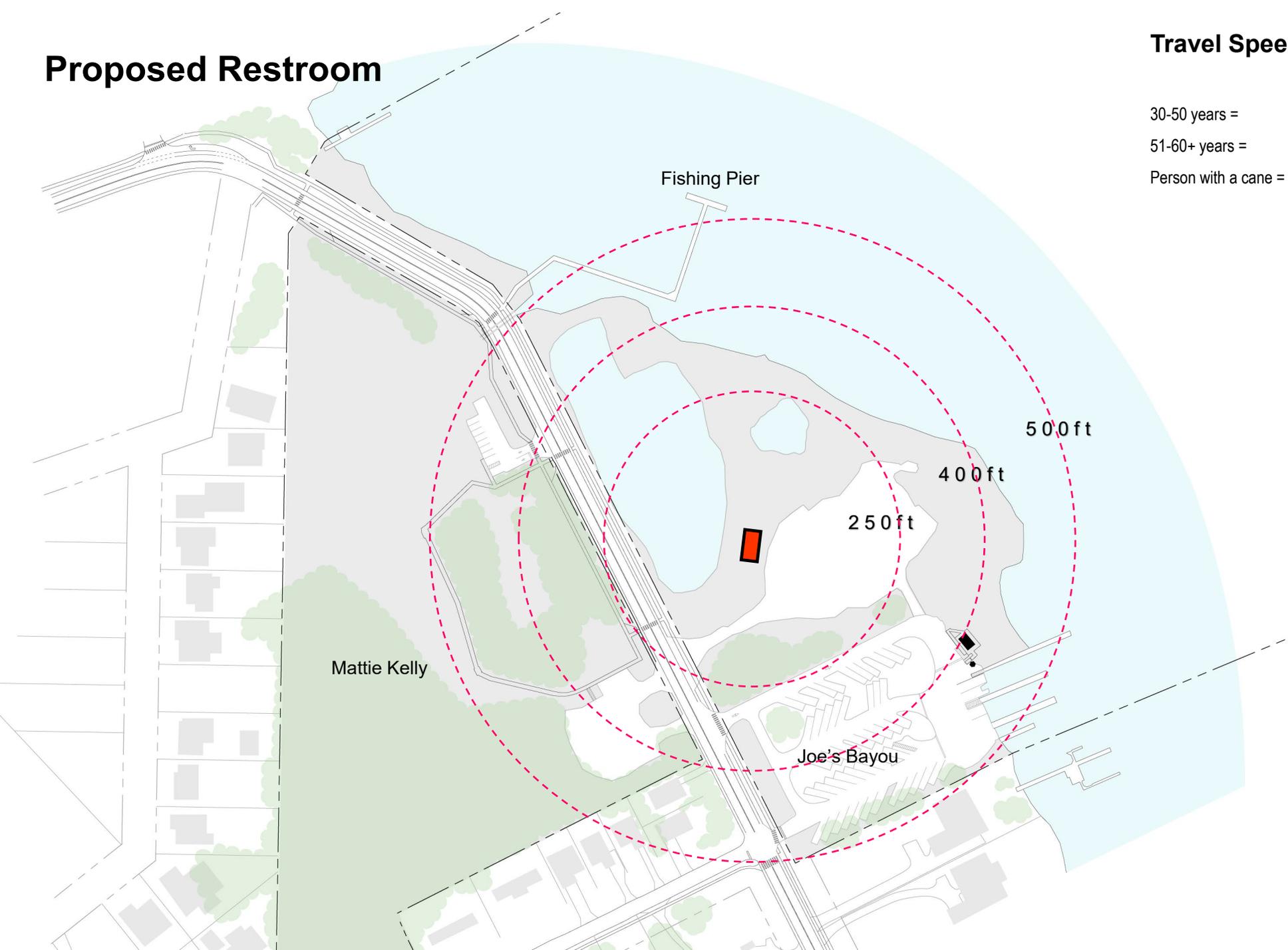


 Existing Restroom

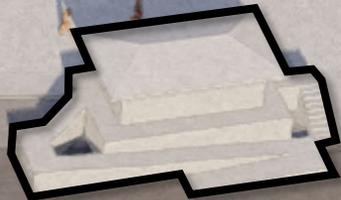
# Proposed Restroom

## Travel Speed by Age

30-50 years =	4.1 fps	500 Feet	2 min 2 sec.
51-60+ years =	3.9 fps	500 Feet	2 min 8 sec.
Person with a cane =	2.6 fps	500 Feet	3 min 12 sec.



 Proposed Restroom



**VS**



An aerial architectural rendering of a park or waterfront development. The scene is dominated by a large body of water on the right side, with a stone-lined shore in the foreground. A network of winding paths and paved areas connects various zones. On the left, there's a parking lot with a few cars and a small pavilion. In the center, a modern building with a flat roof and large windows is visible. The background is filled with a dense forest of tall trees. The entire image has a blue color overlay.

# Renderings

# Birdseye Overview



View of Pavilion from the water



# Birdseye View of Lawn



# View of the Lawn



# Birdseye View



An aerial architectural rendering of a park or waterfront development. The scene features a large body of water on the right, a paved path along the shore, and a building with a flat roof in the center. There are numerous trees, a parking lot with a car, and a small structure near the water's edge. The entire image is overlaid with a semi-transparent blue filter.

# Questions & Comments



# THANK YOU

**Pearce Barrett, P.E.**

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