

PRELIMINARY AGENDA  
FLORIDA INLAND NAVIGATION DISTRICT  
Board of Commissioners Meeting  
8:30 AM, Saturday June 17, 2017  
The DoubleTree by Hilton Cocoa Beach Oceanfront  
2080 North Atlantic Ave. (S.R. A1A)  
Cocoa Beach, FL 32931-3268

ITEM 1-B.     **8:30 AM Reconvene/Call to Order**

Chair Netts will call the meeting to order.

ITEM 2-B.                     **Pledge of Allegiance** - Commissioner Sansom will lead the Pledge of Allegiance.

ITEM 3-B.                     **Roll Call** - Secretary Gernert will call the roll.

ITEM 4-B.                     **Additions or Deletions**

Any additions or deletions to the meeting agenda will be announced.

ITEM 10. (cont.)             **Presentation of WAP Applications (cont.) (Items 10.39 thru 10.71 Book 2 of 2)**

**Brevard**

ITEM 10.39	8:40 AM	City of Cocoa	Lee Wenner Park T-Dock and Day Slips	pg. 3-16
ITEM 10.40	8:50 AM	City of Cocoa Beach	Channel Marker Replacement	pg. 17-29
ITEM 10.41	9:00 AM	City of Melbourne	Riverview Park Boardwalk Phase I	pg. 30-44
ITEM 10.42	9:10 AM	City of Melbourne	Ballard Park Boat Dock and Ramp Phase I	pg. 45-60
ITEM 10.43	9:20 AM	Town of Melbourne Beach	Melbourne Beach Town Pier Repair	pg. 61-74

**Broward**

ITEM 10.44	9:30 AM	City of Fort Lauderdale	George English Park Boat Ramp	pg. 75-88
ITEM 10.45	9:40 AM	City of Fort Lauderdale	Sweeting Park Dock	pg. 89-104
ITEM 10.46	9:50 AM	City of Fort Lauderdale	Bill Keith Preserve Shoreline Phase I	pg. 105-118
ITEM 10.47	10:00 AM	City of Fort Lauderdale	Riverwalk Floating Dock Phase I	pg. 119-132
ITEM 10.48	10:10 AM	City of Fort Lauderdale	Ft Lauderdale Marine Replacement Motors	pg. 133-148
ITEM 10.49	10:20 AM	City of Fort Lauderdale	Bahia Mar Yachting Center Dredging Phase II	pg. 149-164

**10:30 AM BREAK (10 min)**

ITEM 10.50	10:40 AM	Town of Hillsboro Beach	Hillsboro Beach Police Dept. Outboard Motor	pg. 165-178
ITEM 10.51	10:50 AM	Broward County	Anne Kolb Nature Center Exhibit Upgrade	pg. 179-192
ITEM 10.52	11:00 AM	Broward County	Deerfield Island Boardwalk Phase II	pg. 193-206

**Flagler**

ITEM 10.53	11:10 AM	Flagler County	Bings Landing South Seawall	pg. 207-220
ITEM 10.54	11:20 AM	Town of Marineland	Marineland Marina Phase 3	pg. 221-234

**Palm Beach**

ITEM 10.55	11:30 AM	City of Belle Glade	Pavilion Lake Piers and Dock	pg. 235-248
ITEM 10.56	11:40 AM	City of Boca Raton	Lake Wyman and Rutherford Park Phase I*	pg. 249-262

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ITEM 10.57	11:50 AM	City of Riviera Beach	Riviera Beach Marina Pier F	pg. 263-277
ITEM 10.58	12:00 PM	Village of North Palm Beach	Anchorage Park	pg. 278-292

**12:10 PM - 1:00 PM LUNCH**

**Nassau**

ITEM 10.59	1:00 PM	City of Fernandina	Southern Basin Dock Realignment Phase IB	pg. 293-307
ITEM 10.60	1:10 PM	City of Fernandina	Mooring Field Capacity Increase Phase II	pg. 308-322
ITEM 10.61	1:20 PM	City of Fernandina	Marina Basin Maintenance Dredging Phase II	pg. 323-338

**Martin**

ITEM 10.62	1:30 PM	City of Stuart	Shepard Park Improvements Phase 3	pg. 339-352
ITEM 10.63	1:40 PM	Martin County	Jensen Beach Managed Mooring Field	pg. 353-369
ITEM 10.64	1:50 PM	Town of Jupiter Island	Public Safety Marine Fire Suppression Pump	pg. 370-382

**St Lucie**

ITEM 10.65	2:00 PM	City of Port St Lucie	Riverwalk Boardwalk Extension Project	pg. 383-402
ITEM 10.66	2:10 PM	St Lucie County	Fisherman's Wharf Bulkhead & Boat Ramp Ph II	pg. 403-416

**2:20 PM BREAK (10 min)**

**Indian River**

ITEM 10.67	2:30 PM	City of Vero Beach	Fishing Pier at Riverside Park Phase II	pg. 417-430
ITEM 10.68	2:40 PM	City of Vero Beach	City Marina Center Dock Improvements	pg. 431-444
ITEM 10.69	2:50 PM	City of Vero Beach	City Marina Mooring Field Expansion Phase I	pg. 445-458
ITEM 10.70	3:00 PM	City of Vero Beach	City Marina Small Floating Docks	pg. 459-472
ITEM 10.71	3:10 PM	Indian River County	Oyster Bar Marsh Trail	pg. 473-486

ITEM 12.	3:20 PM	<b>Washington D.C. Report.</b>		pg. 487-489
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The District's federal governmental relations firm has submitted a status report concerning activity on the District's federal issues.

RECOMMEND: *(This item is presented for Board review and discussion only.)*

ITEM 11-B.	3:30 PM	<b>Public Comments</b>		
		<b>(Public Comment may occur up to an hour earlier than time stated if presentations finish ahead of schedule)</b>		

ITEM 13.	3:40 PM	<b>Staff Comments</b>		
ITEM 14.	3:50 PM	<b>Commissioner Comments</b>		
ITEM 15.	4:00 PM	<b>Adjournment</b>		



## ATTACHMENT E-2

**WATERWAYS ASSISTANCE PROGRAM FY 2017  
PROJECT APPLICATION  
APPLICANT INFORMATION – PROJECT SUMMARY**

<b>APPLICANT INFORMATION</b>			
<b>Applicant:</b>	City of Cocoa		
<b>Department:</b>	Cocoa Community Redevelopment Area		
<b>Project Title:</b>	Lee Wenner Park T-Dock and Day Slips		
<b>Project Director:</b>	Steven Belden	<b>Title:</b>	Community Services Director
<b>Project Liaison:</b> <i>(if different from Project Director)</i>		<b>Title:</b>	
<b>Mailing Address:</b>	65 Stone St		
<b>City:</b>	Cocoa	<b>Zip Code:</b>	32922
<b>Email Address:</b>	sbelden@cocoafl.org	<b>Phone #:</b>	321-433-8522
<b>Project Address:</b>			

\*\*\*\*\* I hereby certify that the information provided in this application is true and accurate.\*\*\*\*\*

SIGNATURE: Steven Belden DATE: 3-28-17

**PROJECT NARRATIVE** (Please summarize the project in space provided below in 2 paragraphs or less.)

The project proposes to extend the existing T-Dock and construct additional boat slips adjacent to Riverfront Park. The extension of the T-Dock will provide access to a deeper channel of water in the Intracoastal Waterway (ICW). The T-Dock is located at the north end of Riverfront Park adjacent to Lee Wenner Park. The T-Dock consists of a 25-foot walkway that was not constructed to handle large impact and docking loads from larger vessels. It is structurally limited as to the size of vessels able to dock.


The boat slips are proposed west of the existing day slips to provide additional public docking access for day-boaters ranging in size from approximately 20 to 30 feet. The additional day slips will complement the extension of the T-Dock, which is geared towards larger vessel docking such as ICW cruisers, whereas the day slips are intended to provide access for the local boaters. The day slips are currently in the design/engineering phase and being funded by the Cocoa CRA.

## ATTACHMENT E-3 - PROJECT INFORMATION 2017

<b>Applicant:</b>	City of Cocoa		<b>Project Title:</b>	Lee Wenner Park T-Dock and Day Slips	
<b>Total Project Cost: \$</b>	\$450,000	<b>FIND Funding Requested: \$</b>	225,000	<b>% of Total Cost:</b>	50%
<b>Amount and Source of Applicant's Matching Funds:</b>	Cocoa CRA TIF funds will fund the project.				

**1. Ownership of Project Site (check one):** Own: ☐ Leased: ☐ Other: ☒

**2. If leased or other, please describe lease or terms and conditions:**

The t-dock is owned by the City of Cocoa with a Sovereign Submerged Land Lease from the State of Florida that will be extended as part of the t-dock expansion. The additional day slips will require a Sovereign Submerged Land Lease from the State. 

**3. Has the District previously provided assistance funding to this project or site?** Yes: ☒ No: ☐

**4. If yes, please list:**

The District awarded the City a grant for the design/engineering of the t-dock expansion.

**5. What is the current level of public access in terms of the number of boat ramps, boat slips and trailer parking spaces, linear feet of boardwalk (etc.)? (as applicable):**

There are currently four public boat ramps, 150-foot public t-dock, eight public day slips, and forty-four paved trailer parking spaces.

**6. How many additional ramps, slips, parking spaces or other access features will be added by this project?**

Approximately 8 new day slips and extension of the t-dock by 250 feet.

**7. Are fees charged for the use of this project?** No ☒ Yes ☐ \*\*

**\*\*If yes, please attach additional documentation of fees and how they compare with fees from similar public & private facilities in the area.**

**Please list all Environmental Resource Permits required for this project:**

AGENCY	Yes / No / N/A	Date Applied For	Date Recieved
WMD	YES		
DEP	YES		
ACOE	YES		
COUNTY / CITY	YES		

## ATTACHMENT E-4

**WATERWAYS ASSISTANCE PROGRAM  
APPLICATION AND EVALUATION WORKSHEET**

**DIRECTIONS:** All applicants will complete questions 1 through 6, and then based on the type of project, complete one and only one subsection (E-4A, B, C, D or E) for questions 7-10.

**\*\*Please keep your answers brief and do not change the pagination of Attachment E-4 \*\***

All other sub-attachments that are not applicable to an applicant's project should not be included in the submitted application.

<b>Project Title:</b>	Lee Wenner Park T-Dock and Day Slips
<b>Applicant:</b>	City of Cocoa

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**1) PRIORITY LIST:**

- a) Denote the priority list category of this project from Attachment C in the application.** (The application may only be of one type based upon the predominant cost of the project elements.)

This project is listed under Priority Category 8 - Acquisition, dredging, shoreline stabilization, and development of public boat docking and mooring facilities.

- b) Explain how the project fits this priority category.**

This project is related to the development of public boat docking facilities with the extension of the t-dock to allow larger vessels to dock and increase the number of day slips to provide more access to waterside facilities for the public.

*(For reviewer only)*

Max. Available Score for application    47

Question 1. Range of Score    (1 to 5 points)

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**2) WATERWAY RELATIONSHIP:**

- a) **Explain how the project relates to the ICW and the mission of the Navigation District.**

Riverfront Park and Lee Wenner Park are located directly on the Intracoastal Waterway and provide boater and non-boater access to the waterway. Expansion of the t-dock and additional day slips will allow for greater access to the ICW as well as land side facilities.

- b) **What public access or navigational benefit to the ICW or adjoining waterway will result from this project?**

By extending the t-dock larger vessels, such as ICW cruisers, will be able to dock at Riverfront Park as well as providing additional slips for smaller vessels.

*(For reviewer only)*  
*(1-6 points)*

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**3) PUBLIC USAGE & BENEFITS:**

- a) **How is the public usage of this project clearly identified and quantified? Estimate the amount of total public use.**

Extension of the t-dock will allow larger vessels to dock that currently are unable to due to the depth of water. With the extension of the t-dock into deeper water, larger vessels will have the ability to dock such large sail boats traveling along the eastern coast. The additional day slips will provide the ability for approximately 8 to 10 more boats to dock at one time.

- b) **Discuss the regional and local public benefits that will be provided by the project. Can residents from other counties of the District reasonably access and use the project? Explain.**

The t-dock and day slips are open to the public. As stated above, larger vessels will have the ability to dock with the extension of the t-dock.

- c) **Are there any restrictions placed on commercial access or use of this site?**

The t-dock and day slips are for public use only. There is no commercial component to these facilities.

*(For reviewer only)*  
*(1-8 points)*

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**4) TIMELINESS**

- a) **Describe current status of the project and present a reasonable and effective timeline for the completion of the project consistent with Attachment E-6.**

The design/engineering of the t-dock is complete. The design/engineering of the day slips is currently underway and will be complete by the end of the fiscal year 2017.

- b) **Briefly explain any unique aspects of this project that could influence the project timeline.**

The existing Sovereign Submerged Land Lease will need to be extended.

*(For reviewer only)*  
*(1-3 points)*

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**5) COSTS & EFFICIENCY:**

- a) **List funding sources and the status and amount of the corresponding funding that will be utilized to complete this project.**

The project will be funded 100% through the Cocoa Community Redevelopment Area.

- b) **Identify and describe any project costs that may be increased because of the materials utilized or specific site conditions.**

None identified at this time.

- c) **Describe any methods to be utilized to increase the cost efficiency of this project.**

To be determined.

- d) **If there are any fees associated with the use of this facility, please detail. In addition, please provide a listing of the fees charged by similar facilities, public and private, in the project area.**

No fees are charged to utilize the facilities.

*(For reviewer only)*  
*(1-6 points)*

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**6) PROJECT VIABILITY:**

- a) **What specific need in the community does this project fill? Is this project referenced or incorporated in an existing maritime management, public assess or comp plan?**

This project fulfills a public need for increased boating access to Lee Wenner Park and Cocoa Village as identified in the Cocoa Waterfront Master Plan completed in 2008.

- b) **Clearly demonstrate how the project will continue to be maintained and funded after District funding is completed.**

Maintenance will be the responsibility of Cocoa Community Redevelopment Agency.

- c) **Will the program result in significant and lasting benefits? Explain.**

This project will have an immediate and lasting benefit to the boating community by increasing the number and types of boats that have free public access to the ICW.

- d) **Please describe any environmental benefits associated with this project.**

The project will aid in enforcement of City of Cocoa docking ordinance and regulating safe boating and environmentally sensitive activities through proper monitoring of boating activities at the docking facilities.

*(For reviewer only)*  
*(1-7 points)*

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**SUB-TOTAL** \_\_\_\_\_

FIND FORM NO. 91-25

Rule 66B-2.005 (Effective Date: 3-21-01, Revised 4-24-06, 1-27-14)

**ATTACHMENT E-4A  
DEVELOPMENT & CONSTRUCTION PROJECTS**

**WATERWAYS ASSISTANCE PROGRAM  
APPLICATION AND EVALUATION WORKSHEET**

THIS ATTACHMENT IS TO BE COMPLETED IF YOUR PROJECT IS A  
DEVELOPMENT OR CONSTRUCTION PROJECT BUT IS NOT AN INLET  
MANAGEMENT OR BEACH RENOURISHMENT PROJECT.

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**7) PERMITTING:**

- a) **Have all required environmental permits been applied for? (USACE, DEP and WMD)**  
**If permits are NOT required, explain why not.**

Permits will be applied for as required by this project.

- b) **If the project is a Phase I project, list the tasks scheduled to obtain the necessary permits and engineering work and provide a general cost estimate for the future Phase II work.**

This is a Phase II project.

- c) **Detail any significant impediments that may have been identified that would potentially delay the timely issuance of the required permits.**

No impediments are anticipated at this time.

*(For reviewer only)*  
*(1-4 points)*



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**8) PROJECT DESIGN:**

- a) **Has the design work been completed? If this is a Phase I project, has a preliminary design been developed?**

Design of the t-dock expansion is complete. Design of the day slips is currently underway.

- b) **Are there unique beneficial aspects to the proposed design that enhance public usage or access, minimize environmental impacts, improve water quality or reduce costs?**

The extension of the t-dock will allow for larger vessels to dock that are currently unable to due to the depth of the water. The additional day slips will provide docking space that is often times utilized by dinghy boats that take up space.

*(For reviewer only)*  
*(1-2 points)*

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**9) CONSTRUCTION TECHNIQUES:**

- a) **Briefly explain the construction techniques to be utilized for this project. If a Phase 1, elaborate on potential techniques.**

T-dock will be wood construction. The day slips have not been determined at this time. They may be fixed or floating depending on the results of the engineer recommendation.

- b) **How are the utilized construction techniques appropriate for the project site?**

Construction techniques will be determined by environmental and safety factors.

- c) **Identify any unusual construction techniques that may increase or decrease the costs of the project.**

None determined at this time.

*(For reviewer only)*  
*(1-3 points)*

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**10) CONSTRUCTION MATERIALS:**

- a) **List the materials to be utilized for this project. What is the design life of the proposed materials compared to other available materials?**

Pressure treated wood for t-dock. Day slips will be pressure treated wood if final design is fixed. Design life is at least 25 years.

- b) **Identify any unique construction materials that may significantly alter the project costs.**

To be determined.

*(For reviewer only)*  
*(1-3 points)*

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**RATING POINT  
TOTAL** \_\_\_\_\_

(Note: The total maximum score possible is dependent upon the project priority category but cannot exceed 50 points unless the project qualifies as an emergency-related project. The minimum score possible is 10 points. A score of 35 points or more is required to be considered for funding.)



**ATTACHMENT E-6  
WATERWAYS ASSISTANCE PROGRAM 2017**

**PROJECT TIMELINE**

<b>Project Title:</b>	Lee Wenner Park T-Dock and Day Slips
<b>Applicant:</b>	City of Cocoa

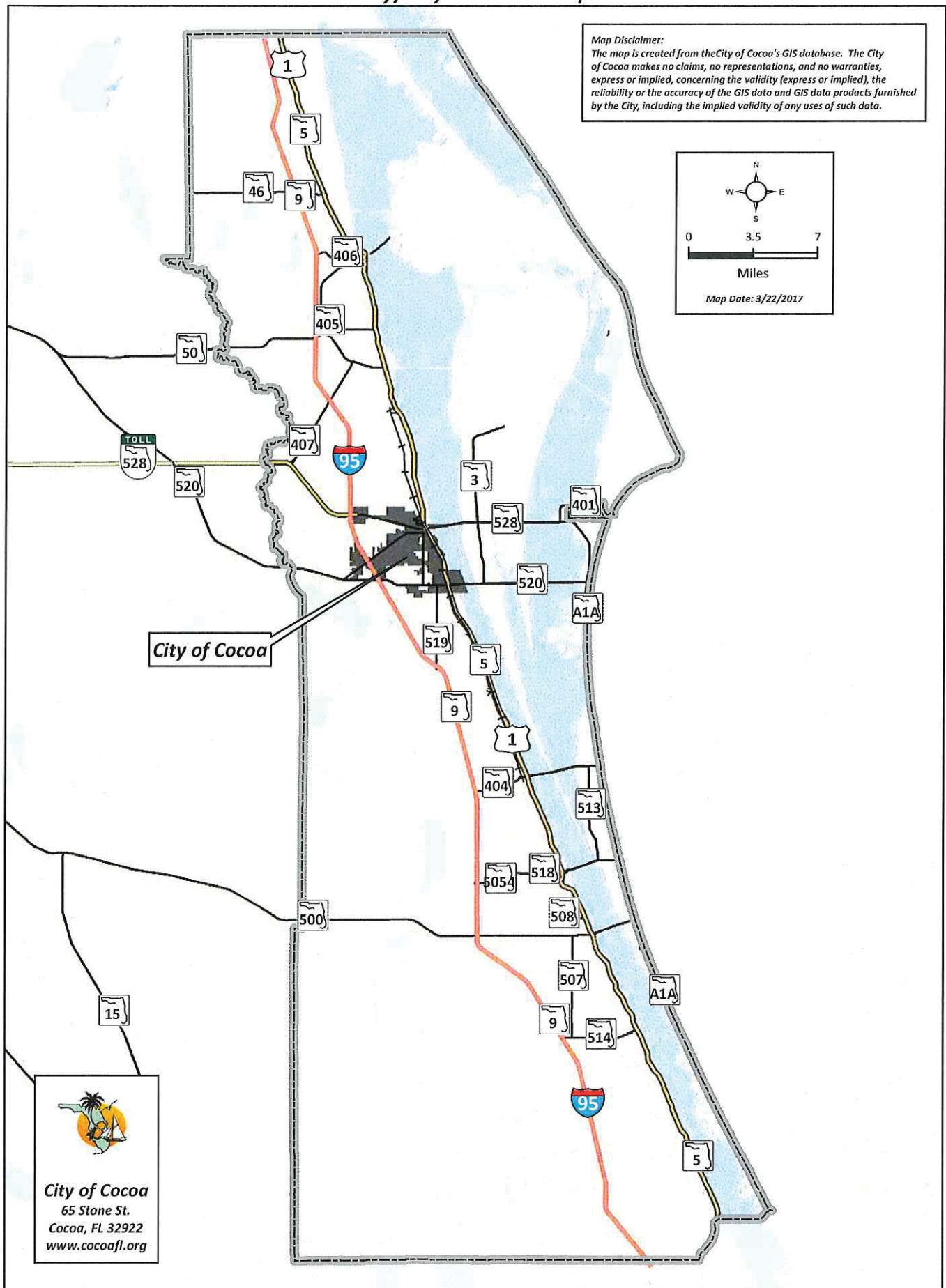
The applicant is to present a detailed timeline on the accomplishment of the components of the proposed project including, as applicable, completion dates for: permitting, design, bidding, applicant approvals, initiation of construction and completion of construction.

**NOTE: All funded activities must begin AFTER October 1<sup>st</sup>**  
(or be consistent with Rule 66B-2.005(3) - Pre-agreement expenses)

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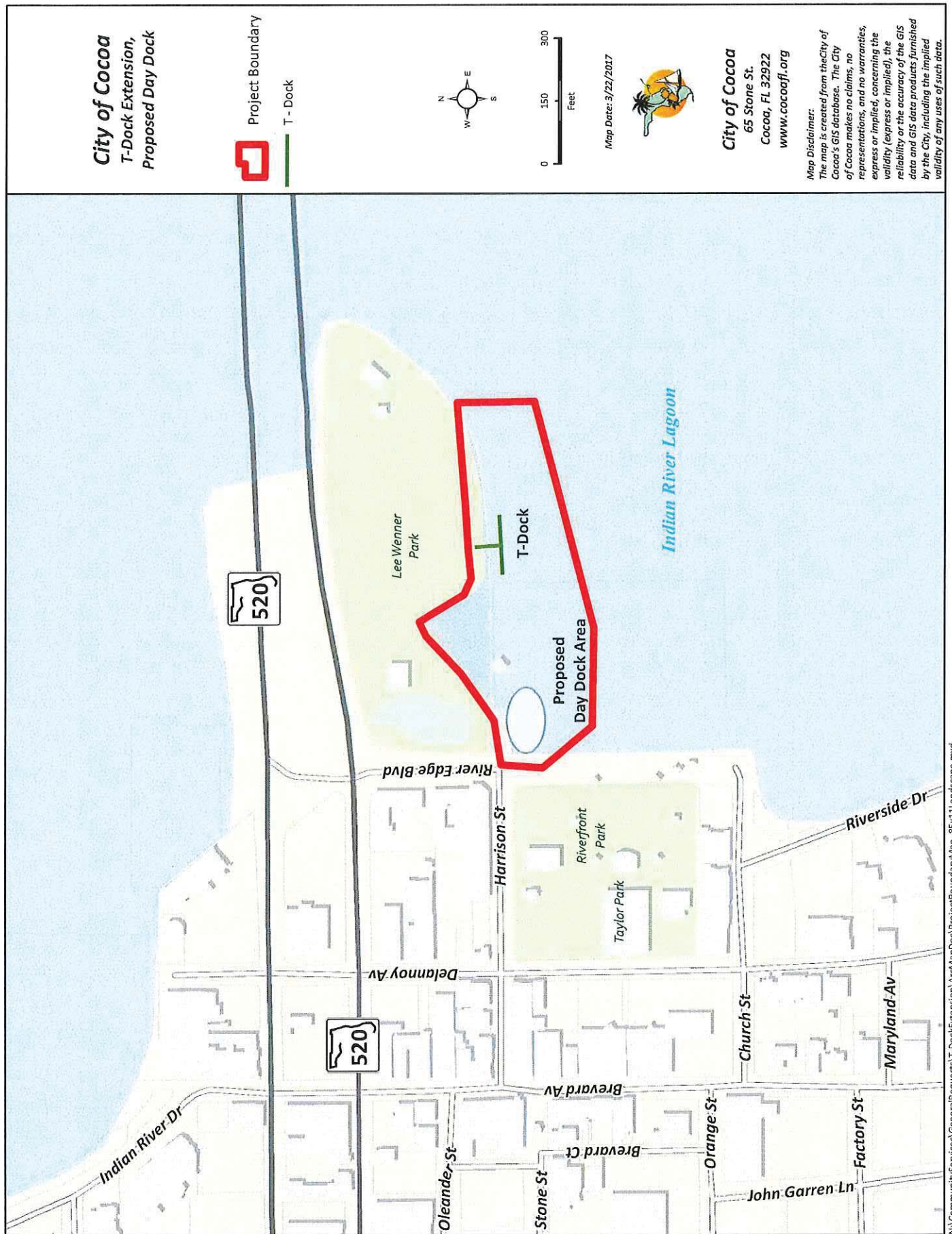
October 2017	Prepare Construction Bid
October 2017	Submit permit applications to State and Federal Agencies
November 2017	Advertise Bid on DemandStar
January 2018	Select Contractor
May 2018	Secure Permits
June 2018	Begin Construction
December 2018	Complete Construction

# County/City Location Map



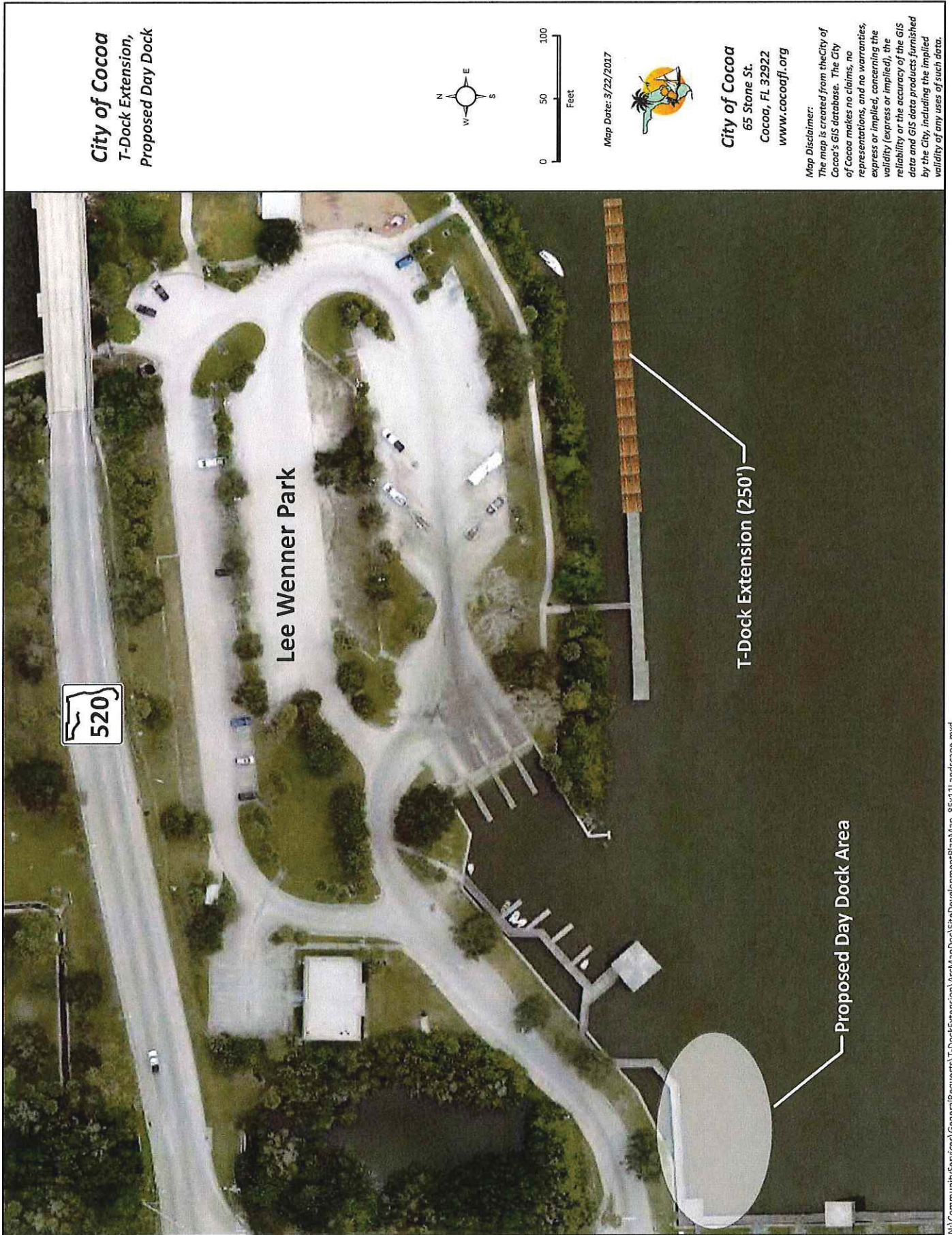


# Project Boundary Map

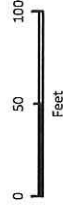




# Site Development Plan Map



**City of Cocoa**  
T-Dock Extension,  
Proposed Day Dock



Map Date: 3/22/2017



**City of Cocoa**  
65 Stone St.  
Cocoa, FL 32922  
[www.cocofl.org](http://www.cocofl.org)

Map Disclaimer:  
The map is created from the City of Cocoa's GIS database. The City of Cocoa makes no claims, no representations, and no warranties, express or implied, concerning the validity (express or implied), the reliability or the accuracy of the GIS data and GIS data products furnished by the City, including the implied validity of any uses of such data.

N:\Community\GIS\GeneralRequests\T-DockExtension\ArcMapDoc\SiteDevelopmentPlanMap\_85x11Landscape.mxd

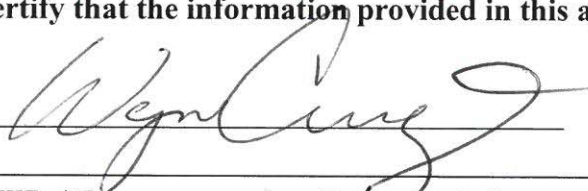


## ATTACHMENT E-2

**WATERWAYS ASSISTANCE PROGRAM FY 2017  
PROJECT APPLICATION  
APPLICANT INFORMATION – PROJECT SUMMARY**

<b>APPLICANT INFORMATION</b>			
<b>Applicant:</b>		City of Cocoa Beach	
<b>Department:</b>		Public Works	
<b>Project Title:</b>		Public Channel Marker Replacement Project	
<b>Project Director:</b>	Wayne Carragino	<b>Title:</b>	Project Manager
<b>Project Liaison:</b> <i>(if different from Project Director)</i>	Same	<b>Title:</b>	
<b>Mailing Address:</b>	1600 Minutemen Causeway		
<b>City:</b>	Cocoa Beach, FL	<b>Zip Code:</b>	32931
<b>Email Address:</b>	wcarragino@cityofcocoa-beach.com	<b>Phone #:</b>	321-868-3215
<b>Project Address:</b>	Public waterways of City of Cocoa Beach		

\*\*\*\*\* I hereby certify that the information provided in this application is true and accurate. \*\*\*\*\*

SIGNATURE:  DATE: 2/15/17

**PROJECT NARRATIVE** (Please summarize the project in space provided below in 2 paragraphs or less.) There are currently approximately 540 public channel marker signs throughout the public waterways of the City of Cocoa Beach. These signs are constantly subjected to a harsh marine environment. The problem we are facing is that a large majority of the signs are damaged, unreadable or peeling off severely.

This project consists of removing and replacing 400 public channel marker signs throughout the City's public waterways. The majority of the public channel marker wooden pilings are still stable and functional. Therefore, this project will include only replacing 25 wooden pilings on an as needed basis.

## ATTACHMENT E-3 - PROJECT INFORMATION 2017

<b>Applicant:</b>	City of Cocoa Beach		<b>Project Title:</b>	Public Channel Marker Replacement	
<b>Total Project Cost: \$</b>	\$80,000	<b>FIND Funding Req.: \$40,000</b>		<b>% of Total</b>	50%
<b>Amount and Source of Applicant's Matching Funds:</b>	City of Cocoa Beach Capital Improvements Budget FY17				

1. Ownership of Project Site (check one): Own: ☒ Leased: ☐ Other:

2. If leased or other, please describe lease or terms and conditions:

N/A

3. Has the District previously provided assistance funding to this project or site? Yes: ☒ No: ☐

4. If yes, please list: The District assisted the City of Cocoa Beach in the late 1990's with a public channel marker signage installation project. This project will remove and replace many of these deteriorated signs.

5. What is the current level of public access in terms of the number of boat ramps, boat slips and trailer parking spaces, linear feet of boardwalk (etc.)? (as applicable): There are three public boat ramps in the City of Cocoa Beach.

6. How many additional ramps, slips, parking spaces or other access features will be added by this project?

N/A

7. Are fees charged for the use of this project? No ☒ Yes ☐ \*\*

\*\*If yes, please attach additional documentation of fees and how they compare with fees from similar public & private facilities in the area.

Please list all Environmental Resource Permits required for this project:

AGENCY	Yes / No / N/A	Date Applied For	Date Received
WMD	N/A		
DEP	N/A		
ACOE	N/A		
COUNTY / CITY	N/A		

## ATTACHMENT E-4

**WATERWAYS ASSISTANCE PROGRAM  
APPLICATION AND EVALUATION WORKSHEET**

**DIRECTIONS:** All applicants will complete questions 1 through 6, and then based on the type of project, complete one and only one subsection (E-4A, B, C, D or E) for questions 7-10.

**\*\*Please keep your answers brief and do not change the pagination of Attachment E-4\*\***

All other sub-attachments that are not applicable to an applicant's project should not be included in the submitted application.

<b>Project Title:</b>	Public Channel Marker Replacement Project
<b>Applicant:</b>	City of Cocoa Beach

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**1) PRIORITY LIST:**

- a) Denote the priority list category of this project from Attachment C in the application.** (The application may only be of **one** type based upon the predominant cost of the project elements.)

Public Navigation Aids & Markers

- b) Explain how the project fits this priority category.**

400 Public Channel Marker Signs (aids to navigation) and 25 Channel Marker Pilings will be Replaced.

*(For reviewer only)*

Max. Available Score for application    50

Question 1. Range of Score    (1 to 8 points)

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**2) WATERWAY RELATIONSHIP:****a) Explain how the project relates to the ICW and the mission of the Navigation District.**

The City of Cocoa Beach has six public connecting channels that direct and guide boaters to and from the Atlantic Intercoastal Waterway. These channels are connected to the ICW through the Banana River at the Barge Canal (Cape Canaveral) in the North and Dragon Point Merritt Island) in the South. The City currently has 276 public channel marker pilings with two channel marker signs on each piling. That totals 546 channel marker signs. This project will remove and replace 400 public channel marker signs and 25 pilings that have deteriorated to the point where they are unreadable or severely damaged.

**b) What public access or navigational benefit to the ICW or adjoining waterway will result from this project?**

This project will greatly enhance the public navigational signage throughout the City of Cocoa Beach. This will allow easier and safer access to the ICW. These channels are the shortest E-W route for accessing the ICW through the Banana River main channel for all boaters between SR 520 and Minutemen Cswy. Three public boat ramps and hundreds of private docks and mooring facilities are used for this purpose.

*(For reviewer only)  
(1-6 points)*

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**3) PUBLIC USAGE & BENEFITS:****a) How is the public usage of this project clearly identified and quantified? Estimate the amount of total public use.**

These public channels are part of over 15 miles of public channels that meander along the City's Western perimeter. The channels are in the open waters of the Banana River, linking the ICW as described in 2) a) and 2) b). Amount of public usage is 100%.

**b) Discuss the regional and local public benefits that will be provided by the project. Can residents from other counties of the District reasonably access and use the project? Explain.**

The City's has a large boating community that reside on the water or use our public boat ramps to access the ICW. Other communities use our public boat ramps on a regular basis. This is highly encouraged by the City. This project will greatly improve the public channel marker signage for all the boating public

**c) Are there any restrictions placed on commercial access or use of this site?**

There are no restrictions on commercial access. Our public boat ramps, channels and navigational aids are used by fishermen, crabbers, and contractors on a regular basis.

*(For reviewer only)*

*(1-8 points)*

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#### 4) TIMELINESS

- a) **Describe current status of the project and present a reasonable and effective timeline for the completion of the project consistent with Attachment E-6.**

These public navigational aids are currently permitted by the U.S. Coast Guard. If grant funding is obtained the project could be complete by May 30, 2018.

- b) **Briefly explain any unique aspects of this project that could influence the project timeline.**

Unless the grant funding is significantly less than 50%, timeline is unlikely to be impacted.

*(For reviewer only)*  
*(1-3 points)*

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#### 5) COSTS & EFFICIENCY:

- a) **List funding sources and the status and amount of the corresponding funding that will be utilized to complete this project.**

This Public Channel Marker Replacement Project is an approved project in the City's FY 2017 General Fund budget. To account for contingencies the City has set aside 100% (\$80,000) of its share.

- b) **Identify and describe any project costs that may be increased because of the materials utilized or specific site conditions.**

Material and labor estimates were very recently done, so staff does not foresee any cost increase.

- c) **Describe any methods to be utilized to increase the cost efficiency of this project.**

The City is a tax exempt entity. Therefore, we will employ owner direct purchasing to maximize saving on materials purchased.

- d) **If there are any fees associated with the use of this facility, please detail. In addition, please provide a listing of the fees charged by similar facilities, public and private, in the project area.**

There are no fees for use & City is unaware of any fees charged by similar facilities in area.

*(For reviewer only)*  
*(1-6 points)*

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**6) PROJECT VIABILITY:**

- a) What specific need in the community does this project fill? Is this project referenced or incorporated in an existing maritime management, public assess or comp plan?**

Yes, the project is included in the City's strategic plan. It is also consistent with boating community needs to keep all waterways in City navigable for their continued recreational and commercial use. It is also an integral part of the Thousand Islands Management Plan approved by the state of Florida.

- b) Clearly demonstrate how the project will continue to be maintained and funded after District funding is completed.**

The City has consistently dedicated resources funded from its budget to maintain all waterways within its jurisdiction. The City's Police Department and a volunteer civic group (Citizens Patrol) routinely monitor the waterways to ensure the safety of the community.

- c) Will the program result in significant and lasting benefits? Explain.**

Yes. The City is anticipating 20 years more of useful navigation for its large boating community as a result of this project.

- d) Please describe any environmental benefits associated with this project.**

By improving the signage to and from the ICW we are reducing the travel time. This will have the added effect of lessening the fuel being consumed by boaters and hence lessening the emissions and pollutants to the atmosphere.

*(For reviewer only)*  
*(1-7 points)*

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SUB-TOTAL \_\_\_\_\_



**ATTACHMENT E-4A  
DEVELOPMENT & CONSTRUCTION PROJECTS**

**WATERWAYS ASSISTANCE PROGRAM  
APPLICATION AND EVALUATION WORKSHEET**

THIS ATTACHMENT IS TO BE COMPLETED IF YOUR PROJECT IS A  
DEVELOPMENT OR CONSTRUCTION PROJECT BUT **IS NOT** AN INLET  
MANAGEMENT OR BEACH RENOURISHMENT PROJECT.

---

**7) PERMITTING:**

- a) **Have all required environmental permits been applied for? (USACE, DEP and WMD)  
If permits are NOT required, explain why not.**

This is a maintenance project on public channel markers that had been previously permitted.

- b) **If the project is a Phase I project, list the tasks scheduled to obtain the necessary permits and engineering work and provide a general cost estimate for the future Phase II work.**

N/A

- c) **Detail any significant impediments that may have been identified that would potentially delay the timely issuance of the required permits.**

N/A

*(For reviewer only)  
(1-4 points)*

---

**8) PROJECT DESIGN:**

- a) **Has the design work been completed? If this is a Phase I project, has a preliminary design been developed?**

N/A

- b) **Are there unique beneficial aspects to the proposed design that enhance public usage or access, minimize environmental impacts, improve water quality or reduce costs?**

Projects will enhance public usage and access by more clearly and safely marking the public connecting channels to the ICW.

*(For reviewer only)*  
*(1-2 points)*

---

**9) CONSTRUCTION TECHNIQUES:**

- a) **Briefly explain the construction techniques to be utilized for this project. If a Phase 1, elaborate on potential techniques.**

The materials will be purchased by the City and furnished to the contractor for installation. This will save money through the City's tax exempt status. Contractor will be responsible for removal of old signage and installation of new.

- b) **How are the utilized construction techniques appropriate for the project site?**

Project approach will maximize cost/unit and allow more signage to be upgraded.

- c) **Identify any unusual construction techniques that may increase or decrease the costs of the project.**

None identified.

*(For reviewer only)*  
*(1-3 points)*

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**10) CONSTRUCTION MATERIALS:**

- a) **List the materials to be utilized for this project. What is the design life of the proposed materials compared to other available materials?**

The day markers will be Coast Guard compliant alodined aluminum with 3M Scotchlite Reflective Sheeting. All mounting hardware will be stainless steel. Nylon washers will be employed to isolated dissimilar metals. Design life of materials is estimated at twenty (20) years.

- b) **Identify any unique construction materials that may significantly alter the project costs.**

None identified.

*(For reviewer only)*  
*(1-3 points)*

---

**RATING POINT  
TOTAL** \_\_\_\_\_

(Note: The total maximum score possible is dependent upon the project priority category but cannot exceed 50 points unless the project qualifies as an emergency-related project. The minimum score possible is 10 points. A score of 35 points or more is required to be considered for funding.)

## ATTACHMENT E-5

**FLORIDA INLAND NAVIGATION DISTRICT  
ASSISTANCE PROGRAM 2017**

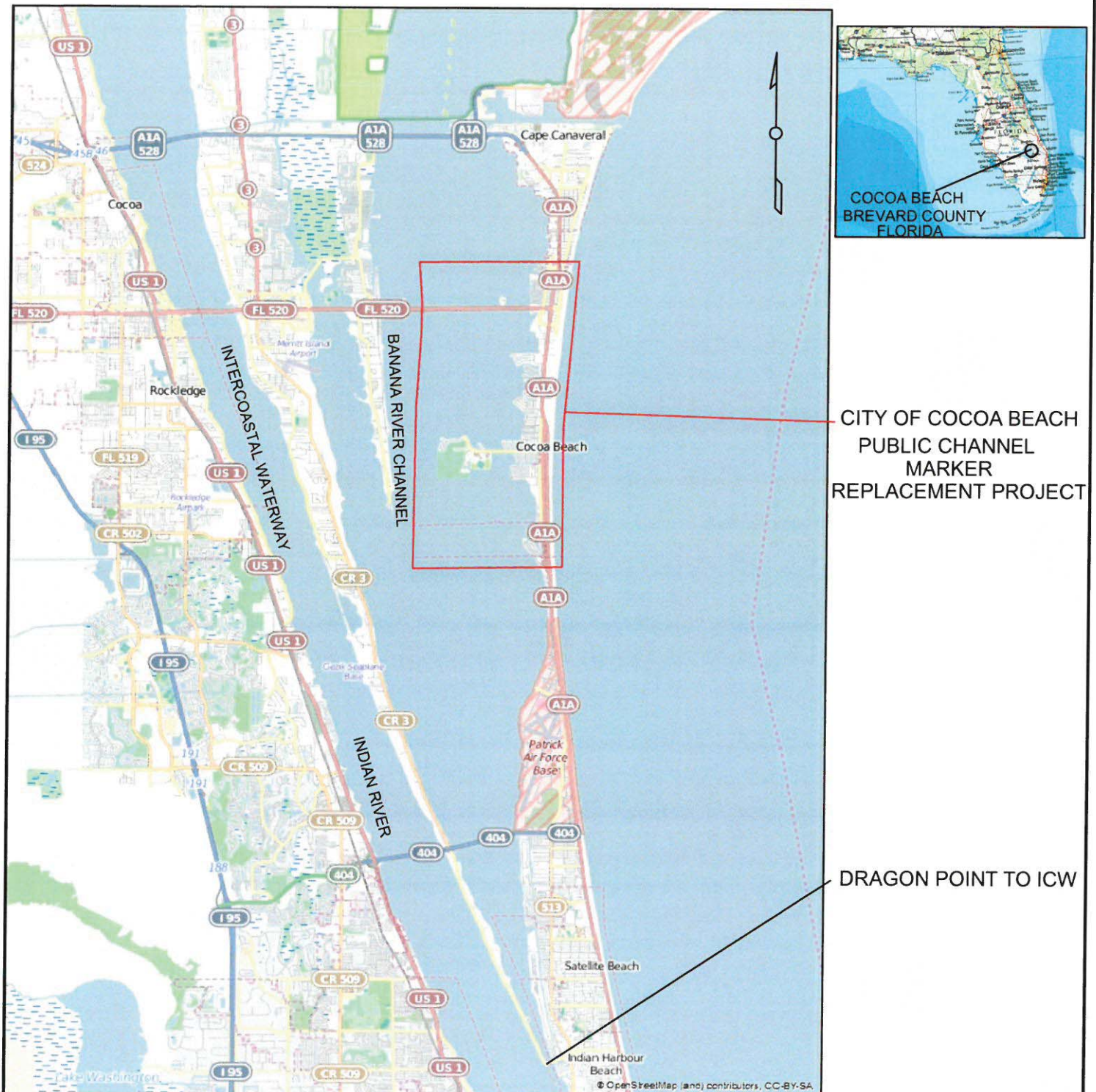
**PROJECT COST ESTIMATE****(See Rule Section 66B-2.005 & 2.008 for eligibility and funding ratios)**

<b>Project Title:</b>	Public Channel Marker Replacement Project
<b>Applicant:</b>	City of Cocoa Beach

<b>Project Elements</b> <i>(Please list the MAJOR project elements and provide general costs for each one. For Phase I Projects, please list the major elements and products expected)</i>	<b>Quantity or Total Estimated Cost</b> <i>(Number and/or Footage etc.)</i>	<b>Applicant's Cost</b>	<b>FIND Cost</b>
Channel Marker Signage **Owner Direct Purchase by City to Save on Sales Tax.	\$33,110	\$16,555	\$16,555
Mounting Hardware **Owner Direct Purchase by City to Save on Sales Tax.	\$2,390	\$1,195	\$1,195
Piling Replacement	\$13,000	\$6,500	\$6,500
Contractor Installation of New Signage	\$31,500	\$15,750	\$15,750
<b>**TOTALS =</b>	<b>\$ 80,000</b>	<b>\$ 40,000</b>	<b>\$ 40,000</b>



MAP 1. LOCATION MAP &amp; PROJECT BOUNDARY



PROJECT: PUBLIC CHANNEL MARKER REPLACEMENT PROJECT

SHEET:  
1 OF 2

LOCATION: CITY OF COCOA BEACH, FLORIDA

SCALE:  
nts



\*\*\*ALL MARKERS CIRCLED  
WILL BE REPLACED  
NOTE: TWO DAYMARKERS  
PER PILING-TOTAL 200 PILINGS  
EQUALS 400 SIGNS



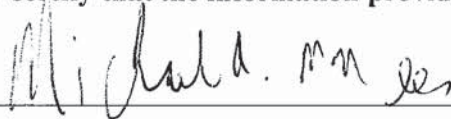
## ATTACHMENT E-2

**WATERWAYS ASSISTANCE PROGRAM FY 2017  
PROJECT APPLICATION  
APPLICANT INFORMATION – PROJECT SUMMARY**

<b>APPLICANT INFORMATION</b>			
<b>Applicant:</b>	City of Melbourne		
<b>Department:</b>	Parks and Recreation		
<b>Project Title:</b>	Riverview Park Boardwalk Phase 1		
<b>Project Director:</b>	Nicole Patterson	<b>Title:</b>	Assistant to the City Manager
<b>Project Liaison:</b> <i>(if different from Project Director)</i>		<b>Title:</b>	
<b>Mailing Address:</b>	900 East Strawbridge Avenue		
<b>City:</b>	Melbourne	<b>Zip Code:</b>	32901
<b>Email Address:</b>	nicole.patterson@mlbfl.org	<b>Phone #:</b>	(321) 608-7842
<b>Project Address:</b>	2400 Riverview Drive, Melbourne, FL		

\*\*\*\*\* I hereby certify that the information provided in this application is true and accurate.\*\*\*\*\*

SIGNATURE:



DATE:



**PROJECT NARRATIVE** (Please summarize the project in space provided below in 2 paragraphs or less.)

Riverview Park, located at 2400 Riverview Drive between the Indian River Lagoon and U.S. Highway One, was acquired in 2012 from Brevard County. In 2013 a Master Plan was completed to attract both local and regional recreation enthusiasts, as well as the neighboring low to moderate income communities. Since 2013, Riverview Park has installed a new state-of-the-art playground using CDBG funds from the U.S. Department of Housing and Urban Development. A FRDAP grant from Florida Department of Environmental Protection was awarded to add five picnic pavilions and twenty picnic tables. The City has also submitted an application seeking \$200,000 for a FRDAP grant, to construct a splash park with amenities. Awards will be announced around July of 2017.

For the 2017 FIND grant, the City would like to continue the implementation of Riverview Park's 2013 Master Plan by completing Phase I of an "Elevated Boardwalk with Educational Signage". The boardwalk, of which a portion runs along the Indian River Lagoon, will serve as a nature and educational component for the community. This is one of many opportunities for the design and development of the elevated boardwalk.



## ATTACHMENT E-3 - PROJECT INFORMATION 2017

<b>Applicant:</b>	City of Melbourne		<b>Project Title:</b>	Riverview Park Boardwalk Phase 1	
<b>Total Project Cost: \$</b>	\$100,000	<b>FIND Funding Requested: \$</b>	\$50,000	<b>% of Total Cost:</b>	50%
<b>Amount and Source of Applicant's Matching Funds:</b>	The City will provide \$50,000 in matching funds from its Recreation Impact Fees.				

1. Ownership of Project Site (check one): Own: ☒ Leased: ☐ Other: ☐

2. If leased or other, please describe lease or terms and conditions:

N/A

3. Has the District previously provided assistance funding to this project or site? Yes: ☐ No: ☒

4. If yes, please list:

N/A

5. What is the current level of public access in terms of the number of boat ramps, boat slips and trailer parking spaces, linear feet of boardwalk (etc.)? (as applicable):

Riverview Park has access only for non-motorized, shallow draft, water craft due to the shallow nature and sediment accumulation within the waters. There are approximately 19 vehicle-trailer parking spaces and no existing motorized boat ramps, boat slips nor boardwalk.

6. How many additional ramps, slips, parking spaces or other access features will be added by this project?

This is a Phase I project and will not add any additional features. New features will occur in Phase II.

7. Are fees charged for the use of this project? No ☒ Yes ☐ \*\*

\*\*If yes, please attach additional documentation of fees and how they compare with fees from similar public & private facilities in the area.

Please list all Environmental Resource Permits required for this project:

AGENCY	Yes / No / N/A	Date Applied For	Date Recieved
WMD	N/A	Phase 1 Project	N/A
DEP	N/A	Phase 1 Project	N/A
ACOE	N/A	Phase 1 Project	N/A
COUNTY / CITY	N/A	Phase 1 Project	N/A

## ATTACHMENT E-4

**WATERWAYS ASSISTANCE PROGRAM  
APPLICATION AND EVALUATION WORKSHEET**

**DIRECTIONS:** All applicants will complete questions 1 through 6, and then based on the type of project, complete one and only one subsection (E-4A, B, C, D or E) for questions 7-10.

**\*\*Please keep your answers brief and do not change the pagination of Attachment E-4 \*\***

All other sub-attachments that are not applicable to an applicant's project should not be included in the submitted application.

<b>Project Title:</b>	Riverview Park Boardwalk Phase 1
<b>Applicant:</b>	City of Melbourne

---

**1) PRIORITY LIST:**

- a) Denote the priority list category of this project from Attachment C in the application.** (The application may only be of **one** type based upon the predominant cost of the project elements.)

#12 - Public waterfront parks and boardwalks and associated improvements.

- b) Explain how the project fits this priority category.**

The proposed development of the elevated boardwalk with educational signage fits this category because we are planning to design and construct a boardwalk accessible to the public, that will run through Riverview Park and along a portion of the Indian River Lagoon.

*(For reviewer only)*

Max. Available Score for application 45

Question 1. Range of Score (1 to 3 points)

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## 2) WATERWAY RELATIONSHIP:

- a) **Explain how the project relates to the ICW and the mission of the Navigation District.**

As a Phase I project to survey, design, engineer and permit an elevated boardwalk with signage accessible to the ICW, this furthers one of the two District missions to "provide assistance to other governments to develop waterway access and improvement projects."

- b) **What public access or navigational benefit to the ICW or adjoining waterway will result from this project?**

This Phase I project will design a boardwalk that will ultimately educate and provide the public an opportunity to see an up close view of the Indian River Lagoon and its natural habitats. Public access will be provided to a waterfront area that is currently inaccessible.

*(For reviewer only)*  
*(1-6 points)*

---

## 3) PUBLIC USAGE & BENEFITS:

- a) **How is the public usage of this project clearly identified and quantified? Estimate the amount of total public use.**

At this time, the project is in Phase I. Once the project is designed and developed the public usage will be difficult to estimate since the boardwalk will be open and free to the public seven days a week.

- b) **Discuss the regional and local public benefits that will be provided by the project. Can residents from other counties of the District reasonably access and use the project? Explain.**

Communities in and around Melbourne, both regionally and locally will benefit from the boardwalk. The boardwalk will be approximately 1,147 lineal feet with educational signage, encompassed by natural habitats and scenic routes. It will include a segment that passes over the Indian River Lagoon providing an up-close experience for the public. Residents from other counties of the District will have complete access to the boardwalk.

- c) **Are there any restrictions placed on commercial access or use of this site?**

Commercial use is limited since the zoning is Institutional and the property is a City park. Commercial usage may only be for special events or associated and accessory services to park and recreation use as approved by the City.

*(For reviewer only)*  
*(1-8 points)*

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#### 4) TIMELINESS

- a) Describe current status of the project and present a reasonable and effective timeline for the completion of the project consistent with Attachment E-6.**

If an award is rendered on October 2, 2017, the City's consulting engineering firm will be contacted to complete the elements of Phase I. It is anticipated that the survey, design, engineering and permitting will be completed within 270 days, approximately August 2018.

- b) Briefly explain any unique aspects of this project that could influence the project timeline.**

As a Phase I project, permitting efforts and requirements will influence the project design and timeline.

*(For reviewer only)*  
*(1-3 points)*

---

#### 5) COSTS & EFFICIENCY:

- a) List funding sources and the status and amount of the corresponding funding that will be utilized to complete this project.**

The City of Melbourne will budget for and provide the 50% required match in funding in FY 17-18. There are no additional funding sources for this project.

- b) Identify and describe any project costs that may be increased because of the materials utilized or specific site conditions.**

As a Phase I project, there are no increased project costs anticipated at this time.

- c) Describe any methods to be utilized to increase the cost efficiency of this project.**

The City is confident that our consulting engineers will provide the best price for the survey, design, engineering and permitting resulting in our ability to apply for Phase II funding.

- d) If there are any fees associated with the use of this facility, please detail. In addition, please provide a listing of the fees charged by similar facilities, public and private, in the project area.**

There are no fees associated with the use of this facility. Nearby facilities such as the Indianlantic Boardwalk and Park (north) and Fisherman's Landing (south) do not charges fees.

*(For reviewer only)*  
*(1-6 points)*

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**6) PROJECT VIABILITY:**

- a) **What specific need in the community does this project fill? Is this project referenced or incorporated in an existing maritime management, public assess or comp plan?**

As the City of Melbourne continues to grow, there is a specific need for recreational opportunities throughout the area. Adding the boardwalk not only meets that increasing need but it also fulfills the environmental needs by educating the community about the different species and the natural habitats of the Indian River Lagoon. This Phase I project is part of an existing 2013 Master Plan for Riverview Park.

- b) **Clearly demonstrate how the project will continue to be maintained and funded after District funding is completed.**

There is no maintenance involved with the completion of the Phase I project; however, once the Phase II construction is completed, the City's Parks and Recreation Department will maintain the boardwalk and signage along with the other park facilities and amenities. General maintenance and repair will come from the Parks Operating Budget.

- c) **Will the program result in significant and lasting benefits? Explain.**

Yes, Phase I will be the start of a lasting benefit to the local and surrounding communities. The elevated boardwalk will serve as an educational component for the general public as well as the elementary children that are apart of the City of Melbourne's new "Play Date" program. The boardwalk will provide students of low to moderate income households, as well as local residents and visitors, with an extraordinary experience of the many different species and their natural habitats living within the Indian River Lagoon.

- d) **Please describe any environmental benefits associated with this project.**

The educational signage installed throughout the elevated boardwalk will encourage the community to keep the environment and the waters clean so the Indian River Lagoon will remain biologically productive.

*(For reviewer only)*  
*(1-7 points)*

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SUB-TOTAL \_\_\_\_\_

FIND FORM NO. 91-25

Rule 66B-2.005 (Effective Date: 3-21-01, Revised 4-24-06, 1-27-14)

**ATTACHMENT E-4A  
DEVELOPMENT & CONSTRUCTION PROJECTS**

**WATERWAYS ASSISTANCE PROGRAM  
APPLICATION AND EVALUATION WORKSHEET**

THIS ATTACHMENT IS TO BE COMPLETED IF YOUR PROJECT IS A  
DEVELOPMENT OR CONSTRUCTION PROJECT BUT **IS NOT** AN INLET  
MANAGEMENT OR BEACH RENOURISHMENT PROJECT.

**7) PERMITTING:**

- a) **Have all required environmental permits been applied for? (USACE, DEP and WMD)  
If permits are NOT required, explain why not.**

No, this is a Phase I project that includes survey, design, engineering and permitting.

- b) **If the project is a Phase I project, list the tasks scheduled to obtain the necessary permits and engineering work and provide a general cost estimate for the future Phase II work.**

Council approval of continuing consultant task order, surveying, environmental services, preliminary engineering and permit applications, final design based on permit requirements and preparation of bid documents are scheduled tasks necessary to obtain permits and engineering work. The general estimated cost, without knowing permitting requirements, is included on Attachment E-5 "Project Cost Estimate" form.

Phase II estimate ~ \$750,000

- c) **Detail any significant impediments that may have been identified that would potentially delay the timely issuance of the required permits.**

The presence of protected plant species and wetlands may delay surveying and eventually permit issuance. The consulting engineer's task order will include a significant environmental component.

*(For reviewer only)  
(1-4 points)*

---

**8) PROJECT DESIGN:**

- a) **Has the design work been completed? If this is a Phase I project, has a preliminary design been developed?**

A concept plan and cost estimate was developed as part of the Riverview Park Master Plan in 2013. This concept plan will be the basis of the design for the elevated boardwalk.

- b) **Are there unique beneficial aspects to the proposed design that enhance public usage or access, minimize environmental impacts, improve water quality or reduce costs?**

The proposed design around existing wetland and plants will minimize impacts to the environment.

*(For reviewer only)*  
*(1-2 points)*

---

**9) CONSTRUCTION TECHNIQUES:**

- a) **Briefly explain the construction techniques to be utilized for this project. If a Phase 1, elaborate on potential techniques.**

Potential techniques such as selective clearing of plant materials and highly detail methods of construction will be identified during design.

- b) **How are the utilized construction techniques appropriate for the project site?**

The construction techniques are appropriate to minimize the environmental impact for the project site.

- c) **Identify any unusual construction techniques that may increase or decrease the costs of the project.**

The need to preserve wetlands will increase costs. Conventional construction methods will be disruptive and potentially destructive to the environment.

*(For reviewer only)*  
*(1-3 points)*

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**10) CONSTRUCTION MATERIALS:**

- a) **List the materials to be utilized for this project. What is the design life of the proposed materials compared to other available materials?**

As a Phase I project, the materials for this project have not been identified. It is anticipated that the City will utilize materials that will be long lasting with minimal maintenance and environmentally friendly.

- b) **Identify any unique construction materials that may significantly alter the project costs.**

As a Phase I project, the construction materials are unknown at this time.

*(For reviewer only)*  
*(1-3 points)*

---

**RATING POINT**  
**TOTAL** \_\_\_\_\_

(Note: The total maximum score possible is dependent upon the project priority category but cannot exceed 50 points unless the project qualifies as an emergency-related project. The minimum score possible is 10 points. A score of 35 points or more is required to be considered for funding.)

Form No. 91-25A  
Rule 66B-2.005 (Effective Date: 3-21-01, revised 4-24-06, 1-27-14)

## ATTACHMENT E-5

FLORIDA INLAND NAVIGATION DISTRICT  
ASSISTANCE PROGRAM 2017

## PROJECT COST ESTIMATE

(See Rule Section 66B-2.005 & 2.008 for eligibility and funding ratios)

<b>Project Title:</b>	Riverview Park Boardwalk Phase 1
<b>Applicant:</b>	City of Melbourne

<b>Project Elements</b> <i>(Please list the MAJOR project elements and provide general costs for each one. For Phase I Projects, please list the major elements and products expected)</i>	<b>Quantity or Total Estimated Cost</b> <i>(Number and/or Footage etc.)</i>	<b>Applicant's Cost</b>	<b>FIND Cost</b>
Survey	Lump Sum @ \$ 24,000	\$ 12,000	\$ 12,000
Environmental Services	Lump Sum @ \$ 26,000	\$ 13,000	\$ 13,000
Design (preliminary)	Lump Sum @ \$ 20,000	\$ 10,000	\$ 10,000
Engineering (Final Construction)	Lump Sum @ \$ 22,500	\$ 11,250	\$ 11,250
Permitting Service & Applications	Lump Sum @ \$ 7,500	\$ 3,750	\$ 3,750

<b>**TOTALS =</b>	\$ 100,000	\$ 50,000	\$ 50,000
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**ATTACHMENT E-6  
WATERWAYS ASSISTANCE PROGRAM 2017**

**PROJECT TIMELINE**

<b>Project Title:</b>	Riverview Park Boardwalk Phase 1
<b>Applicant:</b>	City of Melbourne

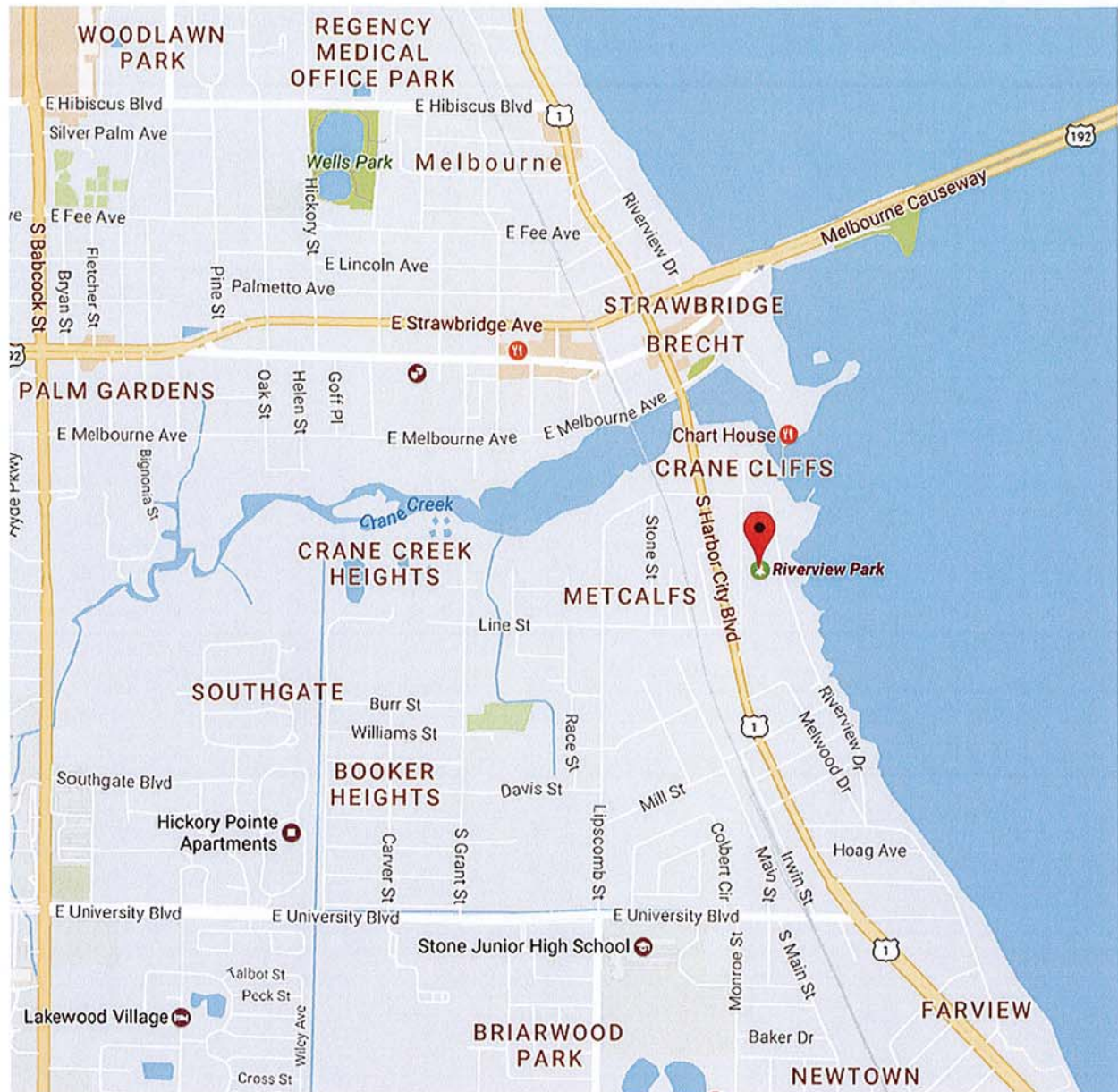
The applicant is to present a detailed timeline on the accomplishment of the components of the proposed project including, as applicable, completion dates for: permitting, design, bidding, applicant approvals, initiation of construction and completion of construction.

**NOTE: All funded activities must begin AFTER October 1<sup>st</sup>**  
(or be consistent with Rule 66B-2.005(3) - Pre-agreement expenses)

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Submit to FIND Waterways Assistance Program Application	March 2017
FIND Funds Awarded	October 2017
Contract to Consulting Engineer	November 2017
Survey	April 2018
Environmental Design	April 2018
Engineering	June 2018
Environmental Resources Permits Received	July 2018
Final Project Completion	August 2018
Grant Closeout	September 2018
Grant Compliance	As Required

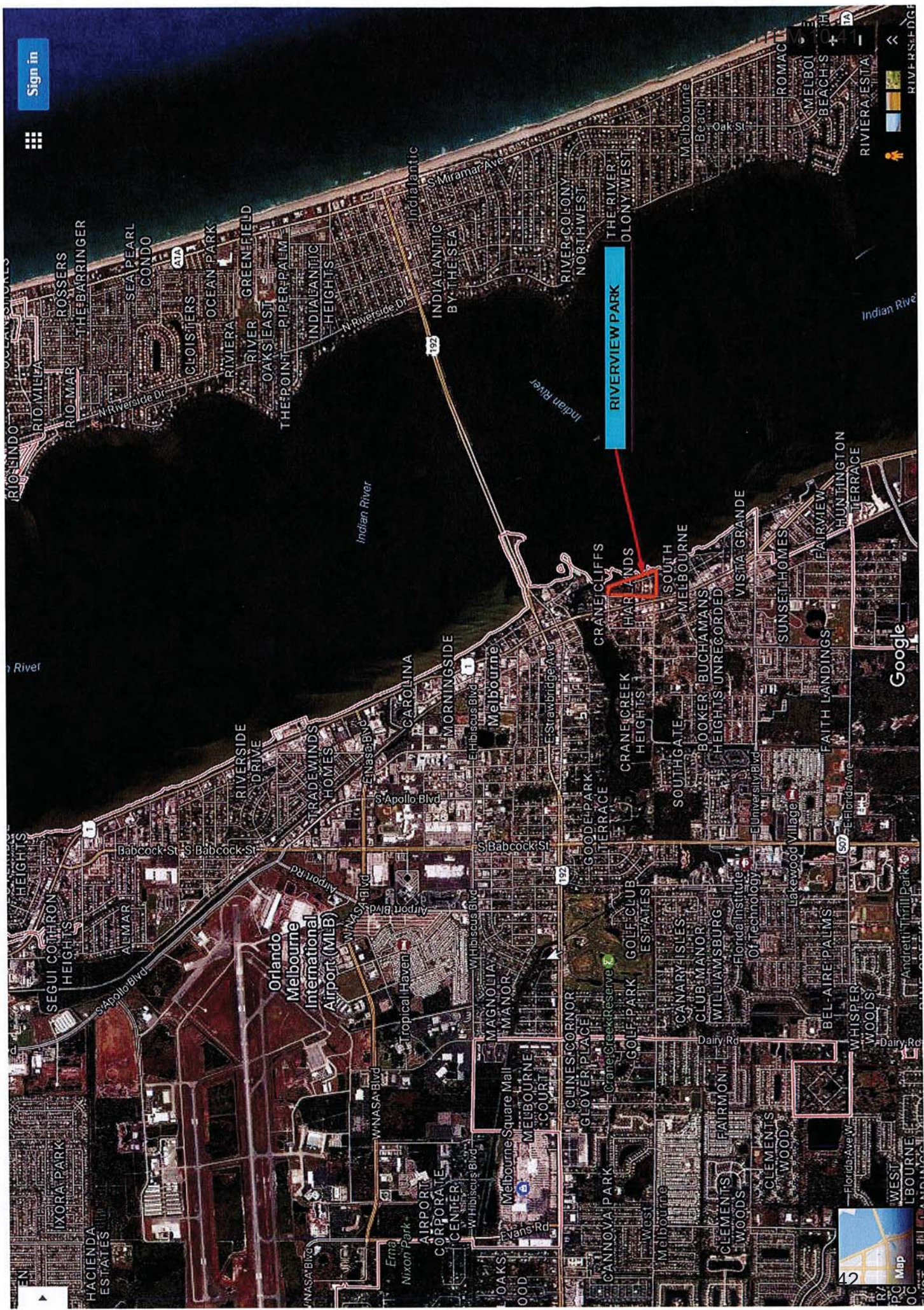




**Riverview Park Location Map**



Sign in



RIVERVIEW PARK

Google

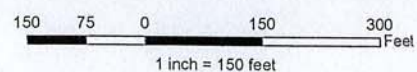






**Legend**

- Railroad
- Interstates
- Major Roads
- Local Roads
- Park Boundary



Tate Melbourne Records  
Department City of Melbourne Public  
Accessed By: John Williams  
Last updated: 10/11/2014 14:00:05  
File Location: Q:\GIS\FeatureClasses\Intersect\DOCCO\DOCCO.shp  
Multiple purposes only.  
This information is provided as a guide only for general purposes. It does not constitute a warranty or representation by the City of Melbourne. It is not to be used or interpreted by any other agency or authority, including local and state government, for any purpose other than that for which it was provided.  
The majority of records or mapping data are not available.







# Melbourne Riverview Park

## CONCEPTUAL BOARDWALK



- |          |   |          |  |           |   |
|----------|---|----------|--|-----------|---|
| <b>A</b> | Entry Signage                                 | <b>L</b> | Remove Interior Drive                  | <b>W</b>  | Park Office with Rest Rooms and Storage                         |
| <b>B</b> | Loading Zone                                  | <b>M</b> | Increase Landscaping                   | <b>X</b>  | Playground  |
| <b>C</b> | Vendor Village/Waterside Vending              | <b>N</b> | Sand Volleyball Courts                 | <b>Y</b>  | Observation Tower   |
| <b>D</b> | Splash Pad                                    | <b>O</b> | Existing Stormwater Area               | <b>Z</b>  | Elevated Boardwalk with Educational Signage                     |
| <b>E</b> | Picnic Pavilion                               | <b>P</b> | Existing Loop for Special Events       | <b>AA</b> | Passive Open Space w/ Disc Golf Course & Ultimate Frisbee Field |
| <b>F</b> | Existing Pavilion                             | <b>Q</b> | Removable Bollards and Turnaround Area | <b>BB</b> | Corner Entry Monument   |
| <b>G</b> | Riverview Drive Improvements                  | <b>R</b> | Open Space                             |           |   |
| <b>H</b> | Open Space                                    | <b>S</b> | Decorative Hardscape                   |           |   |
| <b>I</b> | Existing Non-motorized Boat Launch            | <b>T</b> | Swings Under Trellises                 |           |   |
| <b>J</b> | Shade Sail Over Benches                       | <b>U</b> | Sea Wall                               |           |   |
| <b>K</b> | Irwin Street and Prospect Avenue Improvements | <b>V</b> | Short Fishing Pier                     |           |   |



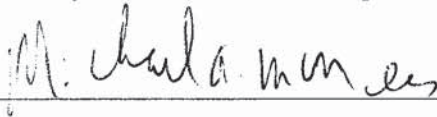
## ATTACHMENT E-2

**WATERWAYS ASSISTANCE PROGRAM FY 2017  
PROJECT APPLICATION  
APPLICANT INFORMATION – PROJECT SUMMARY**

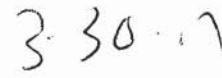
<b>APPLICANT INFORMATION</b>			
<b>Applicant:</b>	City of Melbourne		
<b>Department:</b>	Parks and Recreation		
<b>Project Title:</b>	Ballard Park Boat Launch Docks and Ramp Improvements Phase 1		
<b>Project Director:</b>	Nicole Patterson	<b>Title:</b>	Assistant to the City Manager
<b>Project Liaison:</b> <i>(if different from Project Director)</i>		<b>Title:</b>	
<b>Mailing Address:</b>	900 East Strawbridge Avenue		
<b>City:</b>	Melbourne	<b>Zip Code:</b>	32901
<b>Email Address:</b>	nicole.patterson@mlbfl.org	<b>Phone #:</b>	(321) 608-7842
<b>Project Address:</b>	924 Thomas Barbour Drive, Melbourne, FL		

\*\*\*\*\* I hereby certify that the information provided in this application is true and accurate.\*\*\*\*\*

SIGNATURE: \_\_\_\_\_



DATE: \_\_\_\_\_



**PROJECT NARRATIVE** (Please summarize the project in space provided below in 2 paragraphs or less.)

The proposed Ballard Park Boat Launch Docks and Ramp Improvements Phase I project will include survey, design, engineering and permitting of two replacement boat docks and ramp. Footprint modifications may be necessary to obtain ADA compliance for future Phase II construction, and materials will be improved by using concrete pilings instead of wood, stainless steel fasteners and marine grade lumber for stringers and decking. The original Ballard boat launching docks and ramp were constructed in 1989 and the City has maintained them for over 27 years. The Ballard boat launch docks and ramp provide important direct access to the Indian River Lagoon. It is one of two locations in Melbourne where boat launches with accessory docks are made available to the public.

In early October 2016, Hurricane Matthew forced the City to close the west dock to the public due to severe safety concerns. As a result, additional pressure has been placed on the remaining east dock. Restoration of public safety, high user demand and limited access to the Indian River Lagoon for recreational and commercial boaters makes this project a priority for the City of Melbourne.

## ATTACHMENT E-3 - PROJECT INFORMATION 2017

<b>Applicant:</b>	City of Melbourne		<b>Project Title:</b>	Ballard Park Boat Launch Docks and Ram	
<b>Total Project Cost: \$</b>	\$100,000	<b>FIND Funding Requested: \$</b>	\$50,000	<b>% of Total Cost:</b>	50%
<b>Amount and Source of Applicant's Matching Funds:</b>	Up to \$50,000 in matching funds is sought from Florida Boating Improvement Program (FBIP).				

1. Ownership of Project Site (check one): Own: ☒ Leased: ☐ Other: ☐

2. If leased or other, please describe lease or terms and conditions:

N/A

3. Has the District previously provided assistance funding to this project or site? Yes: ☐ No: ☒

4. If yes, please list:

N/A

5. What is the current level of public access in terms of the number of boat ramps, boat slips and trailer parking spaces, linear feet of boardwalk (etc.)? (as applicable):

There are two existing wooden boarding docks measuring 55 feet in length and 4.5 feet in width. Both are in poor condition and one is closed for safety reasons. Both have exceeded their service life by 10 years. There are 40 boat trailer parking spaces available next to the ramp at Ballard.

6. How many additional ramps, slips, parking spaces or other access features will be added by this project?

This is a Phase I project and will not add any additional features. We plan to reconstruct the two existing boat launching docks and ramp. Specific details to be determined in the Phase I design.

7. Are fees charged for the use of this project? No ☒ Yes ☐ \*\*

\*\*If yes, please attach additional documentation of fees and how they compare with fees from similar public & private facilities in the area.

Please list all Environmental Resource Permits required for this project:

AGENCY	Yes / No / N/A	Date Applied For	Date Recieved
WMD	N/A	Phase I Project	N/A
DEP	N/A	Phase I Project	N/A
ACOE	N/A	Phase I Project	N/A
COUNTY / CITY	N/A	Phase I Project	N/A



## ATTACHMENT E-4

**WATERWAYS ASSISTANCE PROGRAM  
APPLICATION AND EVALUATION WORKSHEET**

**DIRECTIONS:** All applicants will complete questions 1 through 6, and then based on the type of project, complete one and only one subsection (E-4A, B, C, D or E) for questions 7-10.

**\*\*Please keep your answers brief and do not change the pagination of Attachment E-4 \*\***

All other sub-attachments that are not applicable to an applicant's project should not be included in the submitted application.

<b>Project Title:</b>	Ballard Park Boat Launch Docks and Ramp Improvements Phase 1
<b>Applicant:</b>	City of Melbourne

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**1) PRIORITY LIST:**

- a) Denote the priority list category of this project from Attachment C in the application.** (The application may only be of **one** type based upon the predominant cost of the project elements.)

#7 - Acquisition, dredging, shoreline stabilization and development of public boat ramps and launching facilities.

- b) Explain how the project fits this priority category.**

The proposed reconstruction of the two boat launching docks and ramp fits this category by restoring public access to the boat launching docks, which are now considered to be a safety concern for the community.

*(For reviewer only)*

Max. Available Score for application 47

Question 1. Range of Score (1 to 5 points)

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**2) WATERWAY RELATIONSHIP:**

- a) Explain how the project relates to the ICW and the mission of the Navigation District.**

As a Phase I project to survey, design, engineer and permit two boat docks and ramp allowing direct public access to the ICW, this furthers one of the two District missions to "provide assistance to other governments to develop waterway access and improvement projects."

- b) What public access or navigational benefit to the ICW or adjoining waterway will result from this project?**

This Phase I project will continue to allow direct public access to the Intracoastal Waterway for the boating community from Ballard Park. Access to the ICW provides both recreational and commercial opportunities for the local communities and the surrounding areas.

*(For reviewer only)*

*(1-6 points)*

---

**3) PUBLIC USAGE & BENEFITS:**

- a) How is the public usage of this project clearly identified and quantified? Estimate the amount of total public use.**

The public usage for this project is identified by the full parking lot. Since the boat launch is free we are unable to quantify the public use. However, since 2016 the Florida Department of Highway Safety and Motor Vehicles reported the total number of registered vessels for Brevard, Volusia and Indian River were 72,605.

- b) Discuss the regional and local public benefits that will be provided by the project. Can residents from other counties of the District reasonably access and use the project? Explain.**

Local boaters as well as those traveling the ICW will benefit from the reconstruction of the launching docks and ramp. Currently one dock is closed to the public due to safety concerns and the other is in poor condition. Reconstructing the docks and ramp will conveniently allow more boaters safe access to the Indian River Lagoon, bringing more boaters through the area, stimulating the local Melbourne economy as well as other cities within the Space Coast. Residents from other counties of the District have reasonable access to the public boat launching docks and ramp.

- c) Are there any restrictions placed on commercial access or use of this site?**

Commercial use is limited since the zoning is Institutional and the property is a City park. Commercial usage may only be for special events or associated and accessory services to park and recreation use as approved by the City.

*(For reviewer only)*

*(1-8 points)*

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#### 4) TIMELINESS

- a) Describe current status of the project and present a reasonable and effective timeline for the completion of the project consistent with Attachment E-6.**

If an award is rendered on October 2, 2017, City's consulting engineering firm will be contacted to complete the elements of Phase I. It is anticipated that the survey, design, engineering and permitting will be completed by August 2018.

- b) Briefly explain any unique aspects of this project that could influence the project timeline.**

As a Phase I project, permitting efforts and requirements will influence the project design and timeline.

*(For reviewer only)*  
*(1-3 points)*

---

#### 5) COSTS & EFFICIENCY:

- a) List funding sources and the status and amount of the corresponding funding that will be utilized to complete this project.**

The City is submitting a grant application to the Florida Boat Improvement Program (FBIP) in April 2017 and seeking \$50,000. The FBIP awards become available in October 2017.

- b) Identify and describe any project costs that may be increased because of the materials utilized or specific site conditions.**

As a Phase I project, there are no increased project costs anticipated at this time.

- c) Describe any methods to be utilized to increase the cost efficiency of this project.**

The City is confident that our consulting engineers will provide the best price for the survey, design, engineering and permitting resulting in our ability to apply for Phase II funding.

- d) If there are any fees associated with the use of this facility, please detail. In addition, please provide a listing of the fees charged by similar facilities, public and private, in the project area.**

There are no fees associated with the use of this facility. A nearby facility, Front Street (south of Ballard Park) does not charge fees.

*(For reviewer only)*  
*(1-6 points)*

---



**6) PROJECT VIABILITY:**

- a) **What specific need in the community does this project fill? Is this project referenced or incorporated in an existing maritime management, public access or comp plan?**

Within our community there is a demand for public access to the waterways. Ballard Park is one of two locations in Melbourne where boat launches with accessories are available to the public. Reconstruction of the launching docks and ramp will help the City continue to satisfy that demand in providing multiple access points to the Indian River Lagoon for the boating community. This project is not referenced or incorporated in an existing maritime management, public access, or comp plan.

- b) **Clearly demonstrate how the project will continue to be maintained and funded after District funding is completed.**

There is no maintenance with the proposed Phase I project; however once the Phase II construction is completed, the City's Parks Division will continue to maintain the docks and ramp along with the other park facilities and amenities. General maintenance and repair will come from the Parks Operating Budget.

- c) **Will the program result in significant and lasting benefits? Explain.**

Yes, the proposed Phase I project will continue to provide long lasting benefits to our community and surrounding areas by maintaining direct public access to the Intracoastal Waterways for the boating community.

- d) **Please describe any environmental benefits associated with this project.**

Phase I will be designed strategically to allow future Phase II construction of the docks and ramp to provide greater longevity, therefore less disturbance over time. All proper soil stability and water quality measures will be taken during construction. Interpretive signage will encourage and educate the public to help keep our waters clean and biologically productive.

*(For reviewer only)*  
*(1-7 points)*

SUB-TOTAL \_\_\_\_\_

FIND FORM NO. 91-25

Rule 66B-2.005 (Effective Date: 3-21-01, Revised 4-24-06, 1-27-14)

**ATTACHMENT E-4A  
DEVELOPMENT & CONSTRUCTION PROJECTS**

**WATERWAYS ASSISTANCE PROGRAM  
APPLICATION AND EVALUATION WORKSHEET**

THIS ATTACHMENT IS TO BE COMPLETED IF YOUR PROJECT IS A  
DEVELOPMENT OR CONSTRUCTION PROJECT BUT IS NOT AN INLET  
MANAGEMENT OR BEACH RENOURISHMENT PROJECT.

**7) PERMITTING:**

- a) **Have all required environmental permits been applied for? (USACE, DEP and WMD)  
If permits are NOT required, explain why not.**

No, this is a Phase I project that includes survey, design, engineering and permitting.

- b) **If the project is a Phase I project, list the tasks scheduled to obtain the necessary permits and engineering work and provide a general cost estimate for the future Phase II work.**

Phase I tasks will begin with a survey of the Ballard Park boat launching facilities. The survey will provide direction necessary to design two boat launch docks and a ramp to ADA standards using best practices and allow this project to have lasting benefits to the boating community. All necessary environmental resource permits will be obtained during Phase I and a general cost estimate for Phase II is included on Attachment E-5 "Project Cost Estimate" form.

Phase II cost estimate ~ \$600,000

- c) **Detail any significant impediments that may have been identified that would potentially delay the timely issuance of the required permits.**

There are no identified impediments that will delay the timely issuance of required permits.

*(For reviewer only)  
(1-4 points)*

---

**8) PROJECT DESIGN:**

- a) **Has the design work been completed? If this is a Phase I project, has a preliminary design been developed?**

No, this is a Phase I project that includes survey, design, engineering and permitting. The original 1980s design will be used as the basis for design with possible footprint modifications to obtain ADA compliance and meet current design standards.

- b) **Are there unique beneficial aspects to the proposed design that enhance public usage or access, minimize environmental impacts, improve water quality or reduce costs?**

Replacing the pilings from wood to concrete will afford greater longevity therefore less disturbance over time, reducing cost. The wood structure will be marine grade and all proper soil stability and water quality measures will be taken to minimize environmental impacts and improve water quality. Interpretive signage will encourage the public to keep the waters clean.

*(For reviewer only)*

*(1-2 points)*

---

**9) CONSTRUCTION TECHNIQUES:**

- a) **Briefly explain the construction techniques to be utilized for this project. If a Phase I, elaborate on potential techniques.**

Potential construction techniques to be considered during Phase I design of this project will be the installation of impact driven or jettisoned concrete pilings. Impact driven and jettisoned piles adapt well to unique site conditions and are ideally suited for marine applications.

- b) **How are the utilized construction techniques appropriate for the project site?**

Both impact driven and jettisoned concrete pilings are common construction practices for docks. They are environmentally friendly, producing no spoils for removal and no potentially hazardous or contaminated materials, cost effective and reliable.

- c) **Identify any unusual construction techniques that may increase or decrease the costs of the project.**

There are no unusual construction techniques identified that will increase or decrease the costs of this project.

*(For reviewer only)*

*(1-3 points)*

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**10) CONSTRUCTION MATERIALS:**

- a) **List the materials to be utilized for this project. What is the design life of the proposed materials compared to other available materials?**

No materials will be utilized in Phase I; However in Phase II, the City plans to use concrete piles, marine grade lumber, and stainless steel fasteners and bolts for this project. The design life for concrete piles is approximately 50 years. The marine grade lumber and stainless steel fasteners/bolts both have design life of approximately 15 years. In comparison to other materials, the proposed materials for the Phase II project will have two times the normal life expectancy while being exposed to salt water.

- b) **Identify any unique construction materials that may significantly alter the project costs.**

There are no unique construction materials identified that will significantly alter the project costs.

*(For reviewer only)*  
*(1-3 points)*

---

**RATING POINT**  
**TOTAL** \_\_\_\_\_

(Note: The total maximum score possible is dependent upon the project priority category but cannot exceed 50 points unless the project qualifies as an emergency-related project. The minimum score possible is 10 points. A score of 35 points or more is required to be considered for funding.)

**ATTACHMENT E-4F  
EMERGENCY RE-CONSTRUCTION**

**WATERWAYS ASSISTANCE PROGRAM  
APPLICATION AND EVALUATION WORKSHEET**

THIS ATTACHMENT IS TO BE COMPLETED ONLY IF YOUR PROJECT IS A  
WATERWAY PROJECT THAT WAS DAMAGED BY A NATURAL DISASTER AS  
DECLARED BY A STATE OF EMERGENCY UNDER CHAPTER 252, FLORIDA  
STATUTES.

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**11 (Extra) STORM DAMAGE EVALUATION:**

**a) List the State emergency declaration order or proclamation.**

On October 6, 2016 President Obama signed Florida Emergency Declaration;  
Release number: HQ-16-73 (Hurricane Matthew)

**b) Is this project a previously funded FIND grant project?**

No, this is not a previously funded FIND grant project.

**c) Detail the other funding mechanisms and financial assistance that will be applied to defray the reconstruction costs or damage repair.**

The City is submitting a grant application to the Florida Boat Improvement Program (FBIP) in April 2017 seeking \$50,000. The FBIP awards become available in October 2017.

*(For reviewer only)*  
*(0-3 points)*

---

Form No. 91-25F  
Rule 66B-2.005 (Effective Date: 2-05, Revised 4-24-06, 1-27-14)

100

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100

100

100

100

100



**ATTACHMENT E-6  
WATERWAYS ASSISTANCE PROGRAM 2017**

**PROJECT TIMELINE**

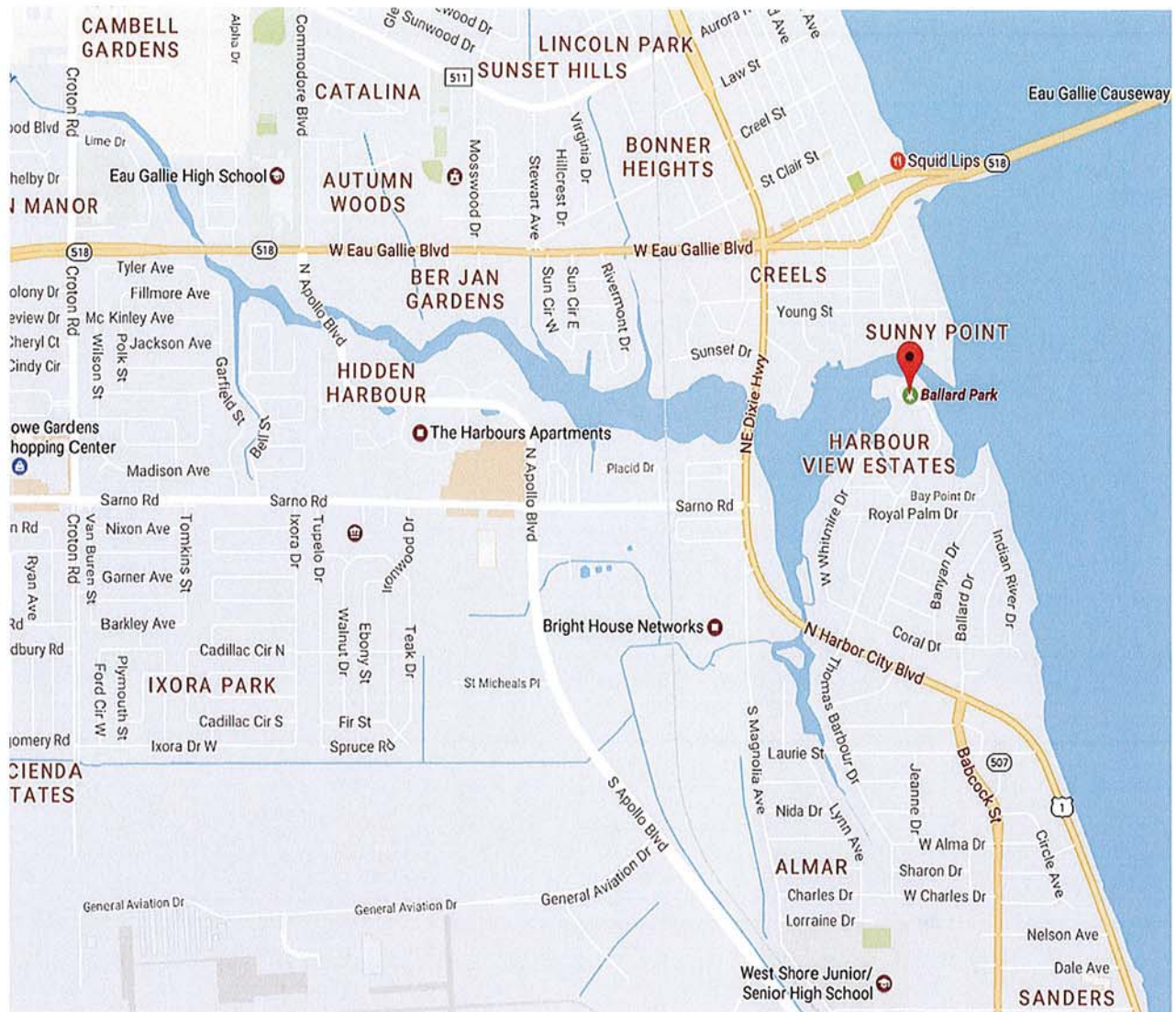
<b>Project Title:</b>	Ballard Park Boat Launch Docks and Ramp Improvements Phase 1
<b>Applicant:</b>	City of Melbourne

The applicant is to present a detailed timeline on the accomplishment of the components of the proposed project including, as applicable, completion dates for: permitting, design, bidding, applicant approvals, initiation of construction and completion of construction.

**NOTE: All funded activities must begin AFTER October 1<sup>st</sup>**  
(or be consistent with Rule 66B-2.005(3) - Pre-agreement expenses)

---

Submit FIND Waterways Assistance Program Application	March 2017
FIND Funds Awarded	October 2017
Contract to Consulting Engineer	November 2017
Survey	January 2018
Design	February 2018
Engineering	April 2018
Environmental Resources Permits Received	June 2018
Final Project Completion	August 2018
Grant Close-Out	September 2018
Grant Compliance	As Required

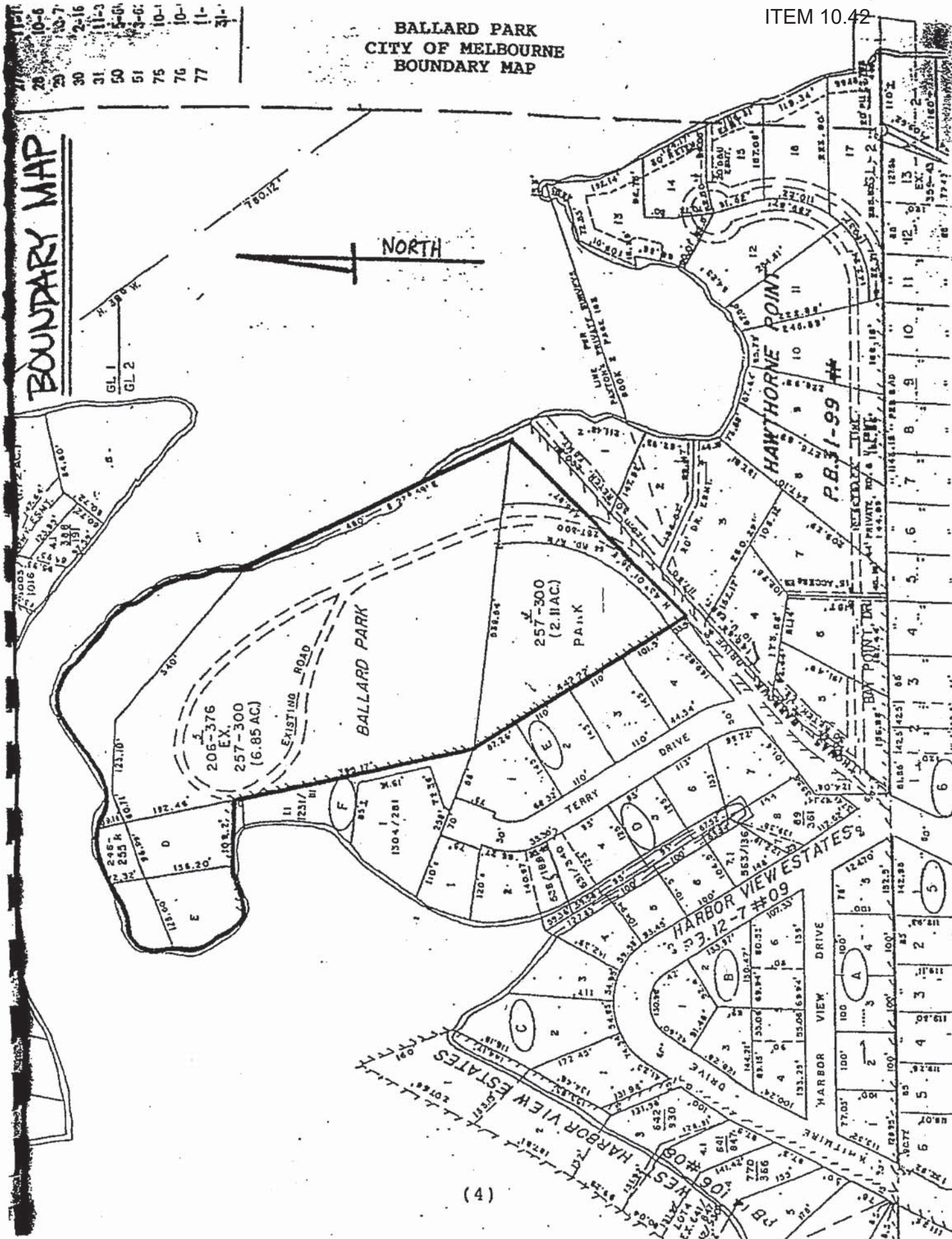


**Ballard Park Location Map**



# BOUNDARY MAP

## BALLARD PARK CITY OF MELBOURNE BOUNDARY MAP







ITEM 10.42

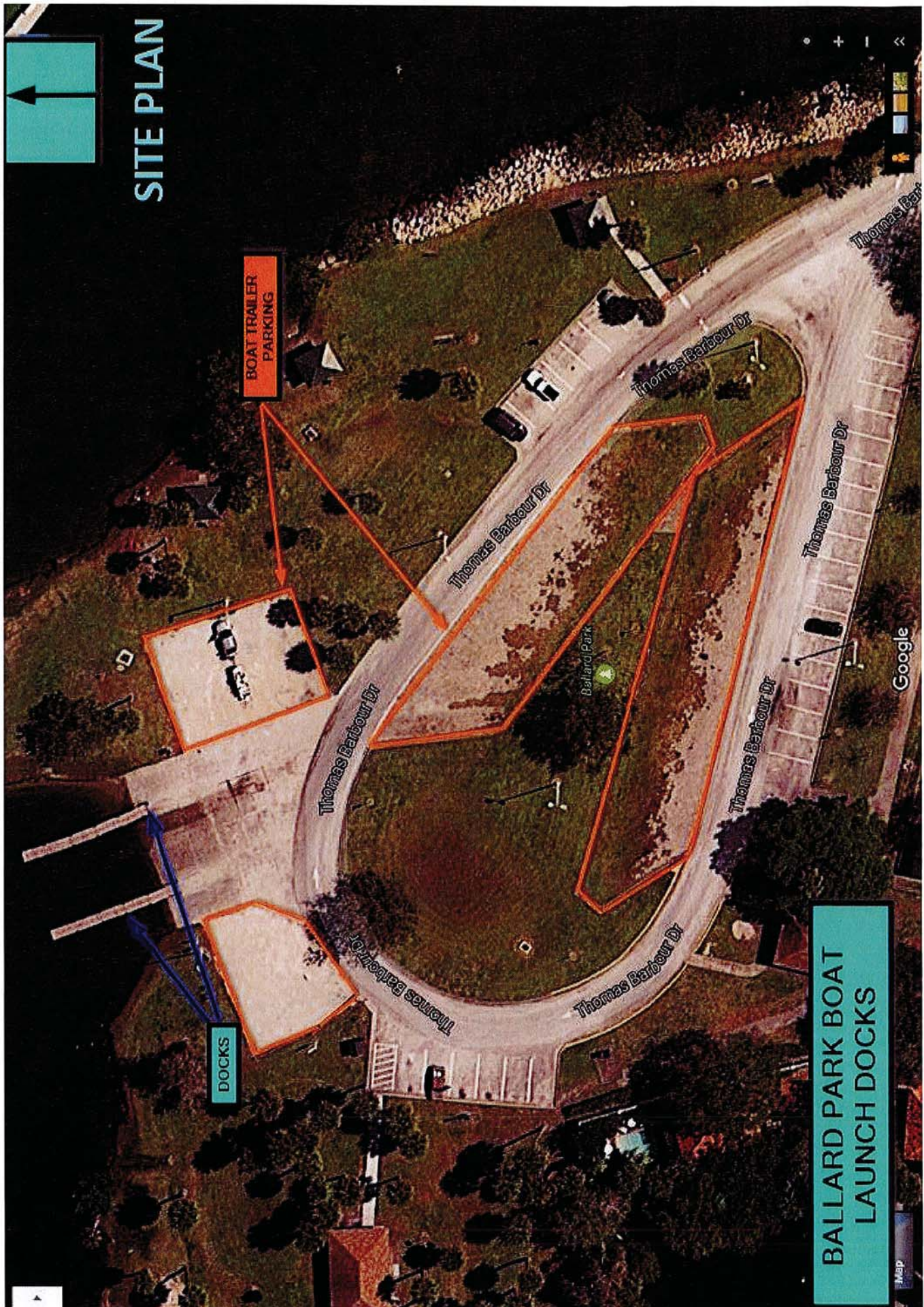
**BALLARD PARK  
MELBOURNE FLORIDA**



Google

Imagery ©2017 DigitalGlobe, U.S. Geological Survey, Map data ©2017 Google 3D Earth view is not available Terms Send feedback 200 ft







## ATTACHMENT E-2

**WATERWAYS ASSISTANCE PROGRAM FY 2017  
PROJECT APPLICATION  
APPLICANT INFORMATION – PROJECT SUMMARY**

<b>APPLICANT INFORMATION</b>			
<b>Applicant:</b> Town of Melbourne Beach			
<b>Department:</b> Town Managers Office			
<b>Project Title:</b> Town Pier Repair			
<b>Project Director:</b> Timothy Day		<b>Title:</b>	Town Manager
<b>Project Liaison:</b> <i>(if different from Project)</i>		<b>Title:</b>	
<b>Mailing Address:</b>	507 Ocean Ave		
<b>City:</b> Melbourne Beach	<b>Zip Code:</b>	33909	
<b>Email Address:</b> Townmanager@melbournebeachfl.org	<b>Phone #:</b>	321-724-5860	
<b>Project Address:</b>	Ocean Ave		

\*\*\*\*\* I hereby certify that the information provided in this application is true and accurate. \*\*\*\*

SIGNATURE: \_\_\_\_\_

DATE: \_\_\_\_\_

3/31/17

**PROJECT NARRATIVE** (Please summarize the project in space provided below in 2 paragraphs or less.)

The Town Pier in Melbourne Beach has suffered effects from the environment and usage over the past 15 years. The decking and handrails have splintered and deteriorated from the elements and usage. Approximately 600' of decking will need to be replaced as well as handrails on both sides of the decking that is being replaced. At this time no supporting elements of the Pier will need to be replaced and no pillings will need to be replaced.



## ATTACHMENT E-3 - PROJECT INFORMATION 2017

Applicant: Town of Melbourne Beach		Project Title:	
Total Project Cost: \$60,000	FIND Funding Requested: \$30,000	% of Total Cost: 50%	
Amount and Source of Applicant's Matching Funds: Town has budget the remaining 50%			

1. Ownership of Project Site (check one): Own: ☒ Leased: ☐ Other: ☐

2. If leased or other, please describe lease or terms and conditions:

3. Has the District previously provided assistance funding to this project or site? Yes: ☒ No: ☐

4. If yes, please list:

2001

5. What is the current level of public access in terms of the number of boat ramps, boat slips and trailer parking spaces, linear feet of boardwalk (etc.)? (as applicable): Public has total access to the Pier and it has usage 7 days a week.

6. How many additional ramps, slips, parking spaces or other access features will be added by this project? 0

7. Are fees charged for the use of this project? No ☒ Yes ☐ \*\*

\*\*If yes, please attach additional documentation of fees and how they compare with fees from similar public & private facilities in the area.

Please list all Environmental Resource Permits required for this project:

AGENCY	Yes / No / N/A	Date Applied For	Date Received
WMD			
DEP			
ACOE			
COUNTY / CITY			

## ATTACHMENT E-4

**WATERWAYS ASSISTANCE PROGRAM  
APPLICATION AND EVALUATION WORKSHEET**

**DIRECTIONS:** All applicants will complete questions 1 through 6, and then based on the type of project, complete one and only one subsection (E-4A, B, C, D or E) for questions 7-10.

**\*\*Please keep your answers brief and do not change the pagination of Attachment E-4 \*\***

All other sub-attachments that are not applicable to an applicant's project should not be included in the submitted application.

<b>Project Title:</b>	Melbourne Beach Town Pier Repair
<b>Applicant:</b>	Town of Melbourne Beach

---

**1) PRIORITY LIST:**

- a) Denote the priority list category of this project from Attachment C in the application.** (The application may only be of **one** type based upon the predominant cost of the project elements.)

This project is for access to the waterways.

Priority 11 public fishing and viewing piers

- b) Explain how the project fits this priority category.**

This project is allowing for access to the Indian River for all residents regardless of age or disability.

*(For reviewer only)*

Max. Available Score for application     45

Question 1. Range of Score    (1 to 3 points)

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**2) WATERWAY RELATIONSHIP:**

- a) Explain how the project relates to the ICW and the mission of the Navigation District.

This project allows for the residents to SAFELY have access to the Town Pier. It allows for the residents to have access to the Indian River which they normally would not have. This enables them to be able to boat, fish and just enjoy the beauty of the river.

- b) What public access or navigational benefit to the ICW or adjoining waterway will result from this project?

The Town Pier provides access to the waterway (Indian River) that many people who do not have access to a boat would not be able to enjoy. It provides for boating/docking and fishing.

*(For reviewer only)*  
*(1-6 points)*

---

**3) PUBLIC USAGE & BENEFITS:**

- a) How is the public usage of this project clearly identified and quantified? Estimate the amount of total public use.

There is not a day that residents do not use the Pier. Some residents just sit on the benches others fish. Some use it just for exercise because it is over 600' of deck to walk.

- b) Discuss the regional and local public benefits that will be provided by the project. Can residents from other counties of the District reasonably access and use the project? Explain.

The access to the Pier is for residence and non residence. There are no fee's associated with its use, it is free for everyone to enjoy.

- c) Are there any restrictions placed on commercial access or use of this site?

It is unsuited for commercial activity and has not been used for any commercial use that the town is aware of.

*(For reviewer only)*  
*(1-8 points)*

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#### 4) TIMELINESS

- a) **Describe current status of the project and present a reasonable and effective timeline for the completion of the project consistent with Attachment E-6.**

The will begin on 10/16/2017 and will be finished by 11/17/2017.

- b) **Briefly explain any unique aspects of this project that could influence the project timeline.**

The only aspect that could affect the time time line would be weather conditions, such as another hurricane.

*(For reviewer only)*  
*(1-3 points)*

---

#### 5) COSTS & EFFICIENCY:

- a) **List funding sources and the status and amount of the corresponding funding that will be utilized to complete this project.**

Town will match the grant amount 50/50. The source of the towns share will be through ad-valor-em taxes.

- b) **Identify and describe any project costs that may be increased because of the materials utilized or specific site conditions.**

The stainless bolts that are used and the pressure treated lumber prices are stable at this time.

- c) **Describe any methods to be utilized to increase the cost efficiency of this project.**

We will purchase the materials at one time for the entire project.

- d) **If there are any fees associated with the use of this facility, please detail. In addition, please provide a listing of the fees charged by similar facilities, public and private, in the project area.**

This site is FREE to the public to use and always has been.

*(For reviewer only)*  
*(1-6 points)*

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**6) PROJECT VIABILITY:**

- a) **What specific need in the community does this project fill? Is this project referenced or incorporated in an existing maritime management, public assess or comp plan?**

The Town Pier has allowed the residents of the town or anyone else who wishes to to have free access to the Indian River. It allows for boating, fishing and relaxation for the residence.

- b) **Clearly demonstrate how the project will continue to be maintained and funded after District funding is completed.**

Town Staff Public Works, will conduct monthly inspections of decking and rails. Protective stain will be applied annually to ensure the lifespan of the the material obtains maximum efficiency. The weather is a factor and proper maintenance of the Pier and will be monitored closely.

- c) **Will the program result in significant and lasting benefits? Explain.**

The benefit to the community will be the access to the river for recreational use. If the Pier is not maintained eventually it would have to be closed, it is also a historical site.

- d) **Please describe any environmental benefits associated with this project.**

It allows for residents and staff to observe issues that may arise in the Indian River that maynot be noticed from the shore line.

*(For reviewer only)*  
*(1-7 points)*

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SUB-TOTAL \_\_\_\_\_

FIND FORM NO. 91-25

Rule 66B-2.005 (Effective Date: 3-21-01, Revised 4-24-06, 1-27-14)

**ATTACHMENT E-4A  
DEVELOPMENT & CONSTRUCTION PROJECTS**

**WATERWAYS ASSISTANCE PROGRAM  
APPLICATION AND EVALUATION WORKSHEET**

THIS ATTACHMENT IS TO BE COMPLETED IF YOUR PROJECT IS A  
DEVELOPMENT OR CONSTRUCTION PROJECT BUT IS NOT AN INLET  
MANAGEMENT OR BEACH RENOURISHMENT PROJECT.

**7) PERMITTING:**

- a) Have all required environmental permits been applied for? (USACE, DEP and WMD)  
If permits are NOT required, explain why not.**

At this time no permits other than town are necessary because the foot print will not change nor will there be any excavation of the river for piling removal or replacement. The structure will not be compromised in any way and the construction is basic.

- b) If the project is a Phase I project, list the tasks scheduled to obtain the necessary permits and engineering work and provide a general cost estimate for the future Phase II work.**

Phase-1 was repairing the hurricane damage from Matthew. The cost of that project was \$117,000.

Phase-2 is the replacement of the decking and handrails that were not damaged from the hurricane but were just old and deteriorated.

- c) Detail any significant impediments that may have been identified that would potentially delay the timely issuance of the required permits.**

At this time there are no impediments and the project will be able to adhere to a strict time-line.

*(For reviewer only)  
(1-4 points)*



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**8) PROJECT DESIGN:**

- a) **Has the design work been completed? If this is a Phase I project, has a preliminary design been developed?**

There is NO design work.

- b) **Are there unique beneficial aspects to the proposed design that enhance public usage or access, minimize environmental impacts, improve water quality or reduce costs?**

Residents can have access to the Indian River that allow them to go on the water safely over 600' from the shore. For people who do not boat or swim they would never have this opportunity.

*(For reviewer only)*  
*(1-2 points)*

---

**9) CONSTRUCTION TECHNIQUES:**

- a) **Briefly explain the construction techniques to be utilized for this project. If a Phase 1, elaborate on potential techniques.**

Construction is basic remove and replace with new material. Fasteners will be stainless to ensure a longer lifespan of the wood.

- b) **How are the utilized construction techniques appropriate for the project site?**

This is the most common practice because of the damage that the salt in the air poises on wood and bolts.

- c) **Identify any unusual construction techniques that may increase or decrease the costs of the project.**

There are no unusual techniques used in this project.

*(For reviewer only)*  
*(1-3 points)*

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---

**8) PROJECT DESIGN:**

- a) **Has the design work been completed? If this is a Phase I project, has a preliminary design been developed?**

There is NO design work.

- b) **Are there unique beneficial aspects to the proposed design that enhance public usage or access, minimize environmental impacts, improve water quality or reduce costs?**

Residents can have access to the Indian River that allow them to go on the water safely over 600' from the shore. For people who do not boat or swim they would never have this opportunity.

*(For reviewer only)*  
*(1-2 points)*

---

**9) CONSTRUCTION TECHNIQUES:**

- a) **Briefly explain the construction techniques to be utilized for this project. If a Phase 1, elaborate on potential techniques.**

Construction is basic remove and replace with new material. Fasteners will be stainless to ensure a longer lifespan of the wood.

- b) **How are the utilized construction techniques appropriate for the project site?**

This is the most common practice because of the damage that the salt in the air poises on wood and bolts.

- c) **Identify any unusual construction techniques that may increase or decrease the costs of the project.**

There are no unusual techniques used in this project.

*(For reviewer only)*  
*(1-3 points)*

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**10) CONSTRUCTION MATERIALS:**

- a) **List the materials to be utilized for this project. What is the design life of the proposed materials compared to other available materials?**

The decking and handrails material will be pressure treated lumber. The fasteners will be stainless.

- b) **Identify any unique construction materials that may significantly alter the project costs.**

There are no construction materials that are unique.

*(For reviewer only)*  
*(1-3 points)*

---

**RATING POINT  
TOTAL** \_\_\_\_\_

(Note: The total maximum score possible is dependent upon the project priority category but cannot exceed 50 points unless the project qualifies as an emergency-related project. The minimum score possible is 10 points. A score of 35 points or more is required to be considered for funding.)



## ATTACHMENT E-5

# FLORIDA INLAND NAVIGATION DISTRICT ASSISTANCE PROGRAM 2017

## PROJECT COST ESTIMATE

**(See Rule Section 66B-2.005 & 2.008 for eligibility and funding ratios)**

<b>Project Title:</b>	Town Pier Repair
<b>Applicant:</b>	Town of Melbourne Beach

<b>Project Elements</b> <i>(Please list the MAJOR project elements and provide general costs for each one. For Phase I Projects, please list the major elements and products expected)</i>	<b>Quantity or Total Estimated Cost</b> <b>(Number and/or Footage etc.)</b>	<b>Applicant's Cost</b>	<b>FIND Cost</b>
<i>Repair of decking on Town Pier and Handrails</i>	<b>600' of decking and adjoining handrails</b>	<b>\$30,000</b>	<b>\$30,000</b>

<b>**TOTALS =</b>	<b>\$</b>	<b>\$ 30,000</b>	<b>\$30,000</b>
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**ATTACHMENT E-6  
WATERWAYS ASSISTANCE PROGRAM 2017**

**PROJECT TIMELINE**

<b>Project Title:</b>	Melbourne Beach Town Pier Repair
<b>Applicant:</b>	Town of Melbourne Beach

The applicant is to present a detailed timeline on the accomplishment of the components of the proposed project including, as applicable, completion dates for: permitting, design, bidding, applicant approvals, initiation of construction and completion of construction.

**NOTE: All funded activities must begin AFTER October 1<sup>st</sup>**  
(or be consistent with Rule 66B-2.005(3) - Pre-agreement expenses)

This project does in fact need immediate attention and work will begin in October after the 10/1/2017 has passed. Materials are available through several dock supply companies.

The demolition will begin 10/16/2017 and will take approximately 10 working days, demolition will be completed by 10/27/2017.

The installation of new material to the decking and handrails will begin on 10/30/2017. The completion date for this work will be 11/17/2017.

The Bidding process officially will begin 6/12/2017 and will conclude 6/23/2017.

A Mandatory PreBid Meeting will take place on 6/16/2017.

The construction companies will reviewed by staff on 6/26/2017 and 6/27/2017. Ensuring licensing and Insurances, both State and Federal are met.

A Special Meeting will take place on or about 6/28/2017 in which the Town Commission will rank and choose the Vendor to complete the project.

A Mobilization Meeting will take place on or about 7/6/2017 with the selected organization.

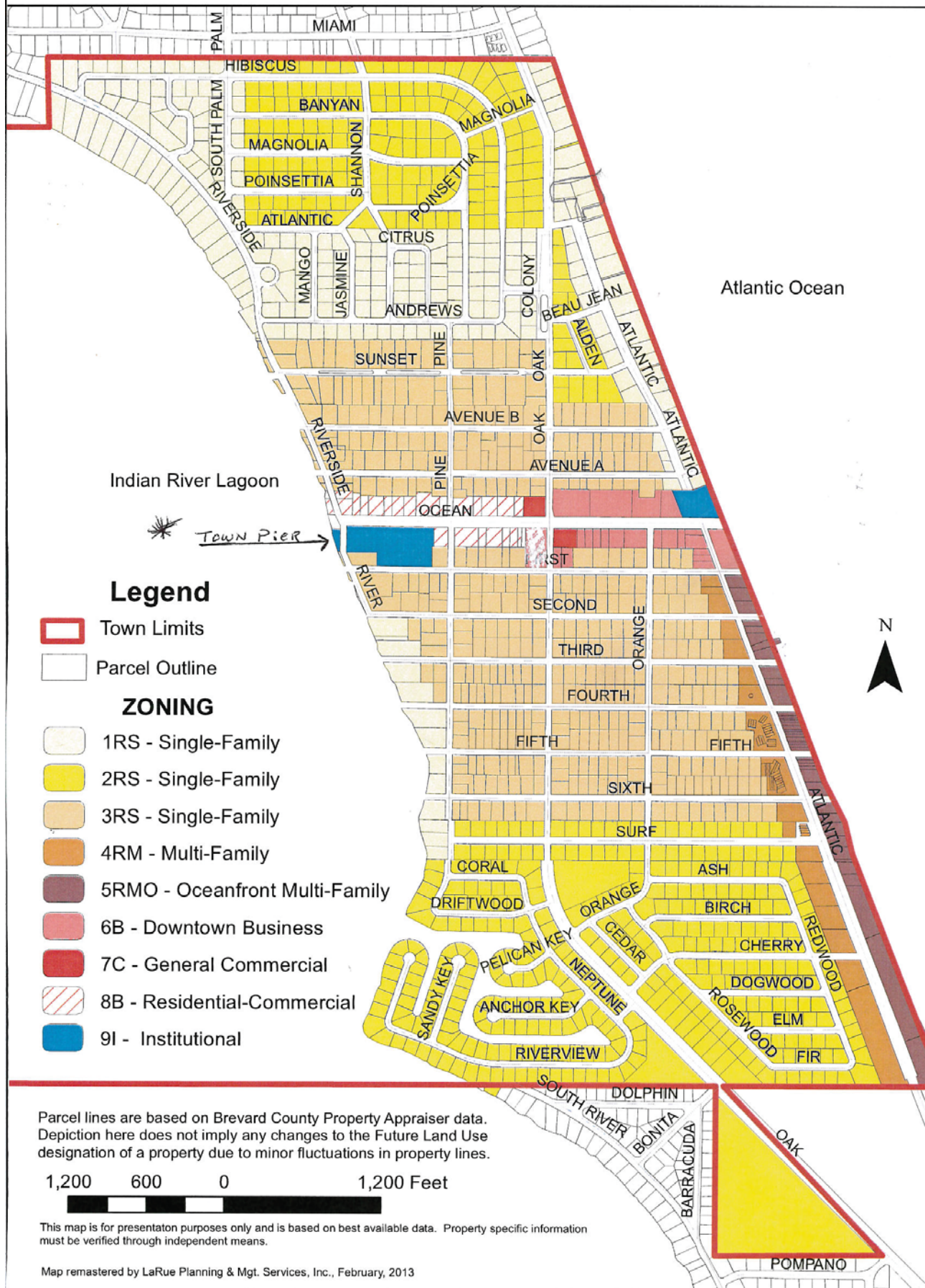
There will be no design element to this project. The foot print will remain the same and because this is a designated Historic Site, we will pay particular attention to the materials used.

The Project will take a period of 5 Weeks between 10/16/2017 and 11/17/2017. Access to the Pier will be closed during this time period.



# Town of Melbourne Beach Official Zoning Map May 21, 2014

ITEM 10.43





Property Search

Brevard County Property Appraiser

Dana Blickley, CFA

Map Subject Property ( ) ⓘ ( ) Open Map in New Window ( )

BCPAO ( )      Picto ( )      Google ( )      Bing ( )

Search by Account Number (Ex. 1234567 - More search options available soon.)

Street

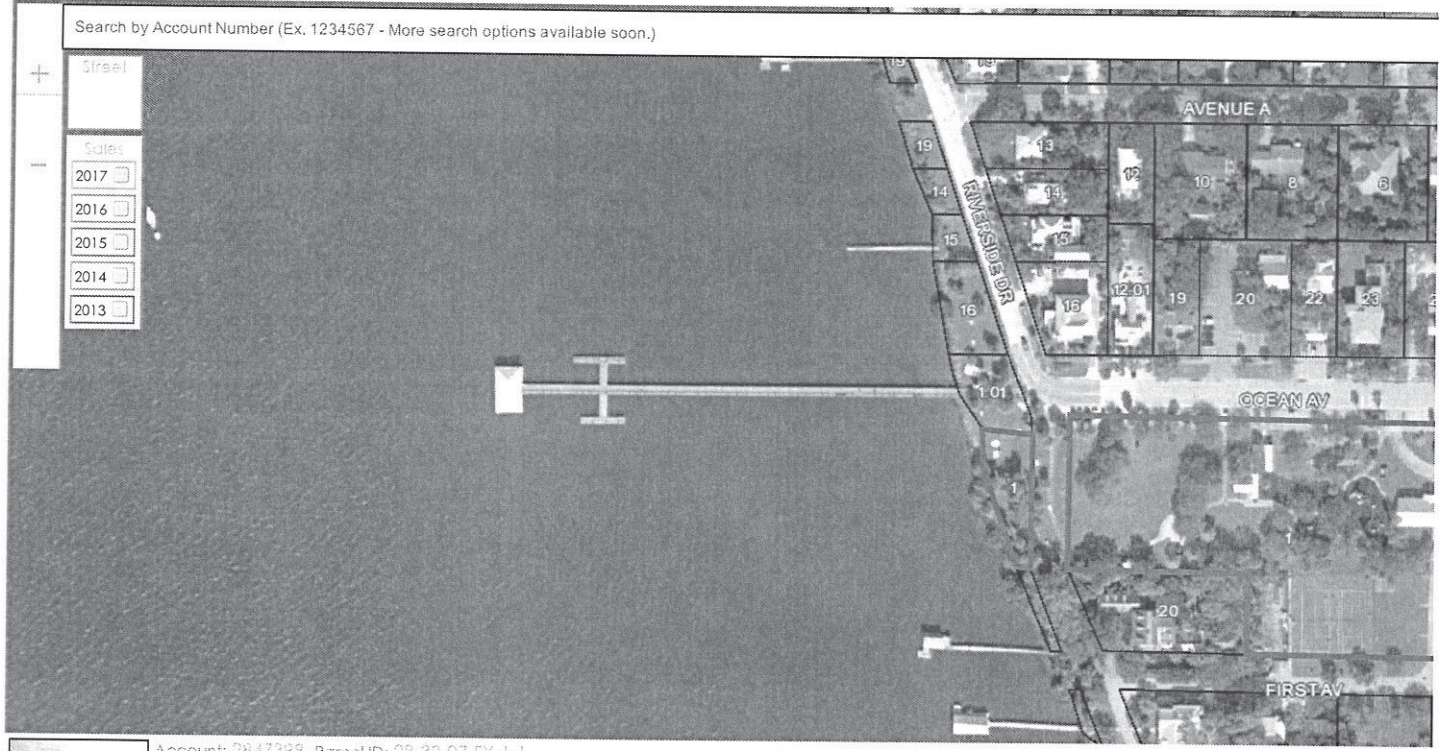
2017 ☐

2016 ☐

2015 ☐

2014 ☐

2013 ☐



Account: 2847398 Parcel ID: 28-38-07-FY-1-1

Sale: N/A

BCPAO Market Value: \$3,106,050

Owners: Melbourne Beach, Town Of

Address: 505 Ocean Ave Unit First Melbourne Beach FL 32951

Details | Zoom | Clear | Hide

[INSTRUCTIONS \(/Docs/misc/Instructions\\_MapSearch.pdf?20170102\)](#)

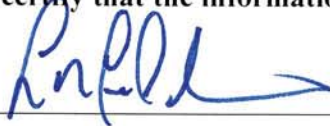
## ATTACHMENT E-2

**WATERWAYS ASSISTANCE PROGRAM FY 2017  
PROJECT APPLICATION  
APPLICANT INFORMATION – PROJECT SUMMARY**

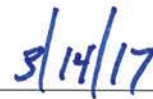
<b>APPLICANT INFORMATION</b>			
<b>Applicant:</b>	City of Fort Lauderdale		
<b>Department:</b>	Parks and Recreation		
<b>Project Title:</b>	George English Park Renovations Phase II – Boat Ramp Renovations		
<b>Project Director:</b>	Lee R. Feldman	<b>Title:</b>	City Manager
<b>Project Liaison:</b> <i>(if different from Project Director)</i>	Jonathan Luscomb	<b>Title:</b>	Supervisor of Marine Facilities
<b>Mailing Address:</b>	2 South New River Drive East		
<b>City:</b>	Fort Lauderdale, FL	<b>Zip Code:</b>	33301
<b>Email Address:</b>	jluscomb@fortlauderdale.gov	<b>Phone #:</b>	954-828-5354
<b>Project Address:</b>	1101 Bay View Drive, Fort Lauderdale, FL 33304		

\*\*\*\*\* I hereby certify that the information provided in this application is true and accurate.\*\*\*\*\*

SIGNATURE: \_\_\_\_\_



DATE: \_\_\_\_\_



**PROJECT NARRATIVE** (Please summarize the project in space provided below in 2 paragraphs or less.)

The George English Park Boat Ramps are in need of renovation and updating. Originally, the ramps were designed for use by small low profile boats due to height restrictions of the Sunrise Blvd. Bridge. The Florida Department of Transportation has replaced the bridge increasing its clearance to approximately 11'. The new bridge's increased clearance will allow larger and higher profile trailerable vessels to utilize these ramps and relieve the immense congestion at surrounding boat ramps which are already heavily utilized by larger trailerable vessels. With the current design and condition the ramps will not be able to accommodate them.

The existing ramps are too short for the expected longer trailers. These users will be at risk of rolling the trailer beyond the limits of the ramp and its current "tile" design will not last under the impacts of larger, heavier and multi-axel trailers use.

The new design will replace the existing ramps to accommodate larger vessels, include new ADA accessible floating docks to allow staging and waiting areas for ramp use.



## ATTACHMENT E-3 - PROJECT INFORMATION 2017

<b>Applicant:</b>	City of Fort Lauderdale	<b>Project Title:</b>	George English Park Renovations Phase		
<b>Total Project Cost: \$</b>	800,000	<b>FIND Funding Requested: \$</b>	400,000	<b>% of Total Cost:</b>	800,000
<b>Amount and Source of Applicant's Matching Funds:</b>	\$400,000 - City of Fort Lauderdale General Fund FY 2018 CIP Budget				

1. Ownership of Project Site (check one): Own: ☒ Leased: ☐ Other: ☐

2. If leased or other, please describe lease or terms and conditions:

N/A

3. Has the District previously provided assistance funding to this project or site? Yes: ☐ No: ☒

4. If yes, please list:

Not Sure

5. What is the current level of public access in terms of the number of boat ramps, boat slips and trailer parking spaces, linear feet of boardwalk (etc.)? (as applicable):

Two boat ramps designed for 22 foot boats and smaller. 69 trailer spaces. No staging docks.

6. How many additional ramps, slips, parking spaces or other access features will be added by this project?

No additional ramps, but new longer and wider ramps. No additional trailer parking. Addition of four 80' x10' ADA Accessible floating staging docks.

7. Are fees charged for the use of this project? No ☐ Yes ☒ \*\*

\*\*If yes, please attach additional documentation of fees and how they compare with fees from similar public & private facilities in the area.

Please list all Environmental Resource Permits required for this project:

AGENCY	Yes / No / N/A	Date Applied For	Date Recieved
WMD	y	12/13/16	2/10/2017
DEP	y	12/13/16	
ACOE	y	12/13/16	
COUNTY / CITY	y	12/13/16	2/10/2017



## ATTACHMENT E-4

**WATERWAYS ASSISTANCE PROGRAM  
APPLICATION AND EVALUATION WORKSHEET**

**DIRECTIONS:** All applicants will complete questions 1 through 6, and then based on the type of project, complete one and only one subsection (E-4A, B, C, D or E) for questions 7-10.

**\*\*Please keep your answers brief and do not change the pagination of Attachment E-4 \*\***

All other sub-attachments that are not applicable to an applicant's project should not be included in the submitted application.

<b>Project Title:</b>	George English Park Renovations Phase II
<b>Applicant:</b>	City of Fort Lauderdale

---

**1) PRIORITY LIST:**

**a) Denote the priority list category of this project from Attachment C in the application.** (The application may only be of **one** type based upon the predominant cost of the project elements.)

7. Acquisition, dredging, shoreline stabilization and development of public boat ramps and launching facilities

**b) Explain how the project fits this priority category.**

The modernizing of the boat ramps and the addition of the floating staging docks further develop and enhance this point of public waterway access.

*(For reviewer only)*

*Max. Available Score for application*    47

*Question 1. Range of Score    (1 to 5 points)*

---

**2) WATERWAY RELATIONSHIP:**

- a) Explain how the project relates to the ICW and the mission of the Navigation District.**

The George English Park boat ramps are located on the Middle River in Fort Lauderdale which flows directly into the ICW, Port Everglades and the Atlantic Ocean. Increasing the availability of adequate boat ramps to residents of the District is in line with the District's mission.

- b) What public access or navigational benefit to the ICW or adjoining waterway will result from this project?**

The George English Park boat ramps are located on the Middle River in Fort Lauderdale which flows directly into the ICW, Port Everglades and the Atlantic Ocean.

*(For reviewer only)*  
*(1-6 points)*

---

**3) PUBLIC USAGE & BENEFITS:**

- a) How is the public usage of this project clearly identified and quantified? Estimate the amount of total public use.**

Based on the most recent state vessel registration data (2015), about 60% or 25,000 registered vessels in Broward are within the size range expected to use this facility. Based on parking meter transactions, it is estimated that an average of 11 boats per day use the ramps.

- b) Discuss the regional and local public benefits that will be provided by the project. Can residents from other counties of the District reasonably access and use the project? Explain.**

With the increase height of the Sunrise Blvd. Bridge, the renovation of the ramps and the addition of 320 ft. of floating staging docks the ramps; usage is expected to increase and relieve congestion at other local ramps.

- c) Are there any restrictions placed on commercial access or use of this site?**

Not for launching or recreational purposes, but barge loading and other construction actives are prohibited.

*(For reviewer only)*  
*(1-8 points)*

---

**4) TIMELINESS**

- a) Describe current status of the project and present a reasonable and effective timeline for the completion of the project consistent with Attachment E-6.**

The Project will be at 100% design phase in February 2017. The Broward County Environmental Protection and Growth Management re in hand and the remaining permit applications have been submitted and expected before September 2017.

- b) Briefly explain any unique aspects of this project that could influence the project timeline.**

None are identified.

*(For reviewer only)*  
*(1-3 points)*

---

**5) COSTS & EFFICIENCY:**

- a) List funding sources and the status and amount of the corresponding funding that will be utilized to complete this project.**

City of Fort Lauderdale 2018 annual CIP Budget - \$400,000

- b) Identify and describe any project costs that may be increased because of the materials utilized or specific site conditions.**

A mangrove planter will be constructed as mitigation for a small amount of environmental impacts near one of the ramps.

- c) Describe any methods to be utilized to increase the cost efficiency of this project.**

Floating Docks will be fabricated off site. Dry area of the ramps will be poured in place to the mlw line. Below water will be tongue and groove concrete planks. No de-watering to pour.

- d) If there are any fees associated with the use of this facility, please detail. In addition, please provide a listing of the fees charged by similar facilities, public and private, in the project area.**

There are no launch fees. Parking fees are collected at a rate of \$1 per hour with a 2 hour minimum.

*(For reviewer only)*  
*(1-6 points)*

---



**6) PROJECT VIABILITY:**

- a) **What specific need in the community does this project fill? Is this project referenced or incorporated in an existing maritime management, public access or comp plan?**

Yes, the project expands access the District's waterways for local and visiting boaters while relieving heavy congestion at other area ramps. Increasing park access by water is an initiative in the City's longterm " Press Play Fort Lauderdale Strategic Plan 2018.

- b) **Clearly demonstrate how the project will continue to be maintained and funded after District funding is completed.**

Regularly scheduled maintenance will be performed under annual maintenance budget line item of the Parks and Recreation Department - George English Park.

- c) **Will the program result in significant and lasting benefits? Explain.**

Yes. The current ramp deign is not adequate to accommodate the longer boats and trailers expected to use the site now that the bridge clearance has been increased from about 7 ft. to 11 ft. The new ramp's design will provide adequate length and depth to safely launch and retrieve larger boats who can clear the bridge.

- d) **Please describe any environmental benefits associated with this project.**

The project requires the constriction of a mangrove planter as mitigation.

*(For reviewer only)*  
*(1-7 points)*

---

SUB-TOTAL \_\_\_\_\_

FIND FORM NO. 91-25

Rule 66B-2.005 (Effective Date: 3-21-01, Revised 4-24-06, 1-27-14)

**ATTACHMENT E-4A  
DEVELOPMENT & CONSTRUCTION PROJECTS**

**WATERWAYS ASSISTANCE PROGRAM  
APPLICATION AND EVALUATION WORKSHEET**

THIS ATTACHMENT IS TO BE COMPLETED IF YOUR PROJECT IS A  
DEVELOPMENT OR CONSTRUCTION PROJECT BUT IS NOT AN INLET  
MANAGEMENT OR BEACH RENOURISHMENT PROJECT.

---

**7) PERMITTING:**

- a) Have all required environmental permits been applied for? (USACE, DEP and WMD)  
If permits are NOT required, explain why not.**

All of the requires permits were applied for in December 2016. Broward County Environmental protection and Growth Management is in hand.

- b) If the project is a Phase I project, list the tasks scheduled to obtain the necessary permits and engineering work and provide a general cost estimate for the future Phase II work.**

The project is not a Phase I project.

- c) Detail any significant impediments that may have been identified that would potentially delay the timely issuance of the required permits.**

The Army Corps of Engineers permit may need review by the Division of Marine Fisheries.

*(For reviewer only)  
(1-4 points)*

**8) PROJECT DESIGN:**

- a) Has the design work been completed? If this is a Phase I project, has a preliminary design been developed?**

Design work is currently at 90%. It is expected that design will be complete by February 2017.

- b) Are there unique beneficial aspects to the proposed design that enhance public usage or access, minimize environmental impacts, improve water quality or reduce costs?**

The addition of four (4) 82' floating staging docks will enhance public access significantly at this location.

*(For reviewer only)*  
*(1-2 points)*

**9) CONSTRUCTION TECHNIQUES:**

- a) Briefly explain the construction techniques to be utilized for this project. If a Phase 1, elaborate on potential techniques.**

The dry part of the ramps will be poured concrete. Concrete planks set on stabilized aggregate will complete the areas below the water surface. The dock system will be a ground out floating dock system which will be construed off site, delivered and assembled on site.

- b) How are the utilized construction techniques appropriate for the project site?**

The construction techniques utilized are common for this type of project.

- c) Identify any unusual construction techniques that may increase or decrease the costs of the project.**

The Ground out dock system rather than a gangway provides for more control of the boat while launching and retrieving. Costs may be slightly higher, but the system improves the ramps access.

*(For reviewer only)*  
*(1-3 points)*



---

**10) CONSTRUCTION MATERIALS:**

- a) **List the materials to be utilized for this project. What is the design life of the proposed materials compared to other available materials?**

The top of the ramp (poured) will be 5000psi concrete with corrosion inhibitor additive. The lower part of the ramp (concreted planks) will be made of 6000psi reinforced concrete with corrosion inhibitor additive. The floating docks will be aluminum frame and decking with solid polyurethane floats and a foam core. The guide pilings will be 18" square pre-stressed concrete.

- b) **Identify any unique construction materials that may significantly alter the project costs.**

None

*(For reviewer only)*  
*(1-3 points)*

---

**RATING POINT  
TOTAL** \_\_\_\_\_

(Note: The total maximum score possible is dependent upon the project priority category but cannot exceed 50 points unless the project qualifies as an emergency-related project. The minimum score possible is 10 points. A score of 35 points or more is required to be considered for funding.)

## ATTACHMENT E-5

**FLORIDA INLAND NAVIGATION DISTRICT  
ASSISTANCE PROGRAM 2017**

**PROJECT COST ESTIMATE**(See Rule Section 66B-2.005 & 2.008 for eligibility and funding ratios)

<b>Project Title:</b>	George English Park Renovations Phase II
<b>Applicant:</b>	City of Fort Lauderdale

<b>Project Elements</b> <i>(Please list the MAJOR project elements and provide general costs for each one. For Phase I Projects, please list the major elements and products expected)</i>	<b>Quantity or Total Estimated Cost</b> <i>(Number and/or Footage etc.)</i>	<b>Applicant's Cost</b>	<b>FIND Cost</b>
Engineering/Testing	\$9,500	\$4,750	\$4,750
Environmental/Mitigation	\$10,000	\$5,000	\$5,000
Mobilization/Demobilization	\$48,000	\$24,000	\$24,000
Demolition/Disposal	\$45,000	\$22,500	\$22,500
Materials	\$530,000	\$265,000	\$265,000
-concrete			
-pilings			
-floating docks			
-rip rap			
Construction/Installation	\$157,500	\$78,750	\$78,750

<b>**TOTALS =</b>	<b>\$</b> 800,000	<b>\$</b> 400,000	<b>\$</b> 400,000
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**ATTACHMENT E-6  
WATERWAYS ASSISTANCE PROGRAM 2017**

**PROJECT TIMELINE**

<b>Project Title:</b>	George English Park Renovations Phase II
<b>Applicant:</b>	City of Fort Lauderdale

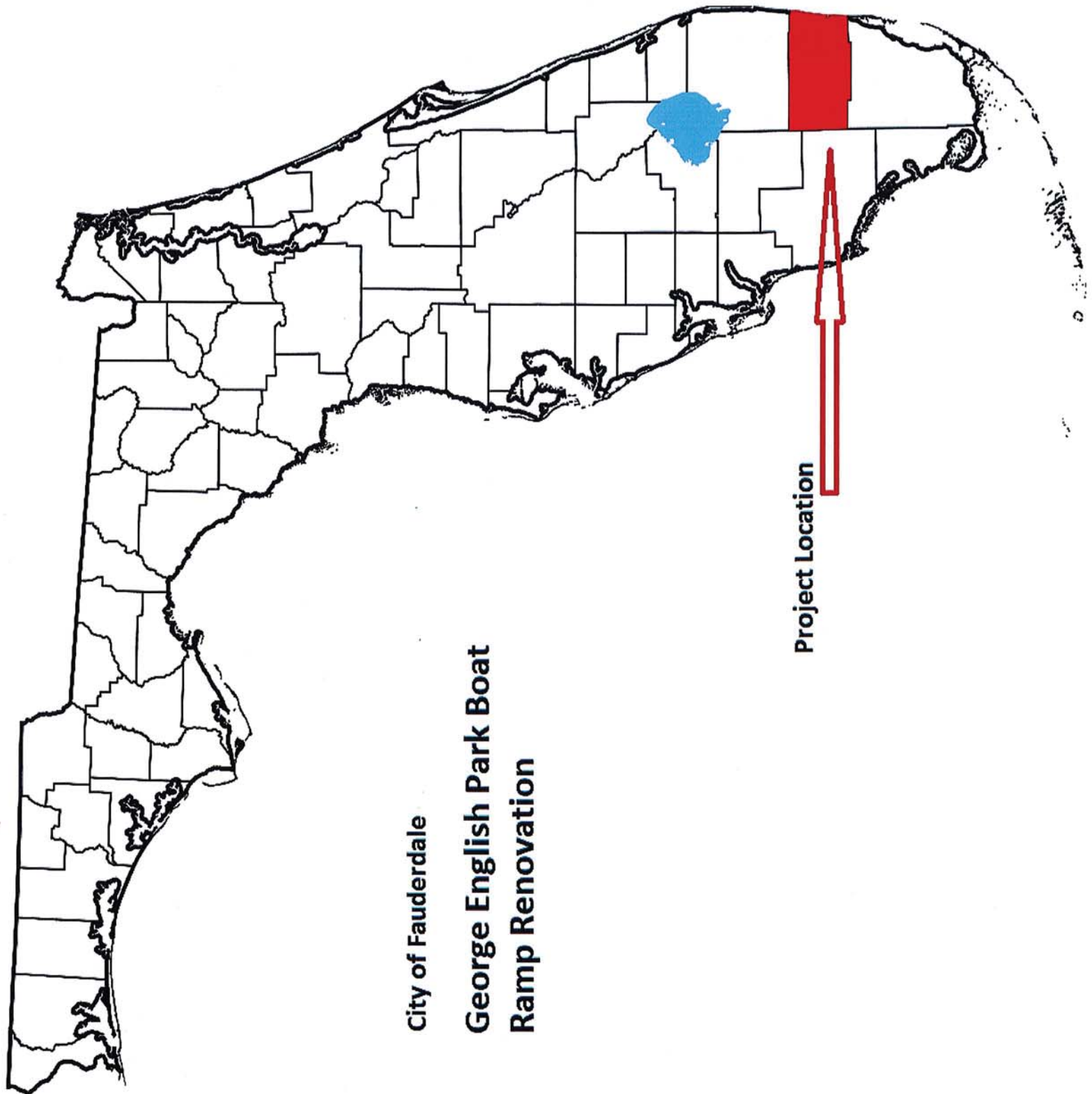
The applicant is to present a detailed timeline on the accomplishment of the components of the proposed project including, as applicable, completion dates for: permitting, design, bidding, applicant approvals, initiation of construction and completion of construction.

**NOTE: All funded activities must begin AFTER October 1<sup>st</sup>**  
(or be consistent with Rule 66B-2.005(3) - Pre-agreement expenses)

---

Permitting and design:	Complete March 2017
Bidding and Construction Contract Award	March 2017 through May 2017
Construction	October 2017 through March 2018
Project Complete	April 2018





**City of Fauderdale**  
**George English Park Boat**  
**Ramp Renovation**

**Project Location**





City of Fort Lauderdale

Project Location Map

George English Park

East Sunrise Blvd.

ICW

Middle River

Google ear

ITEM 10.44

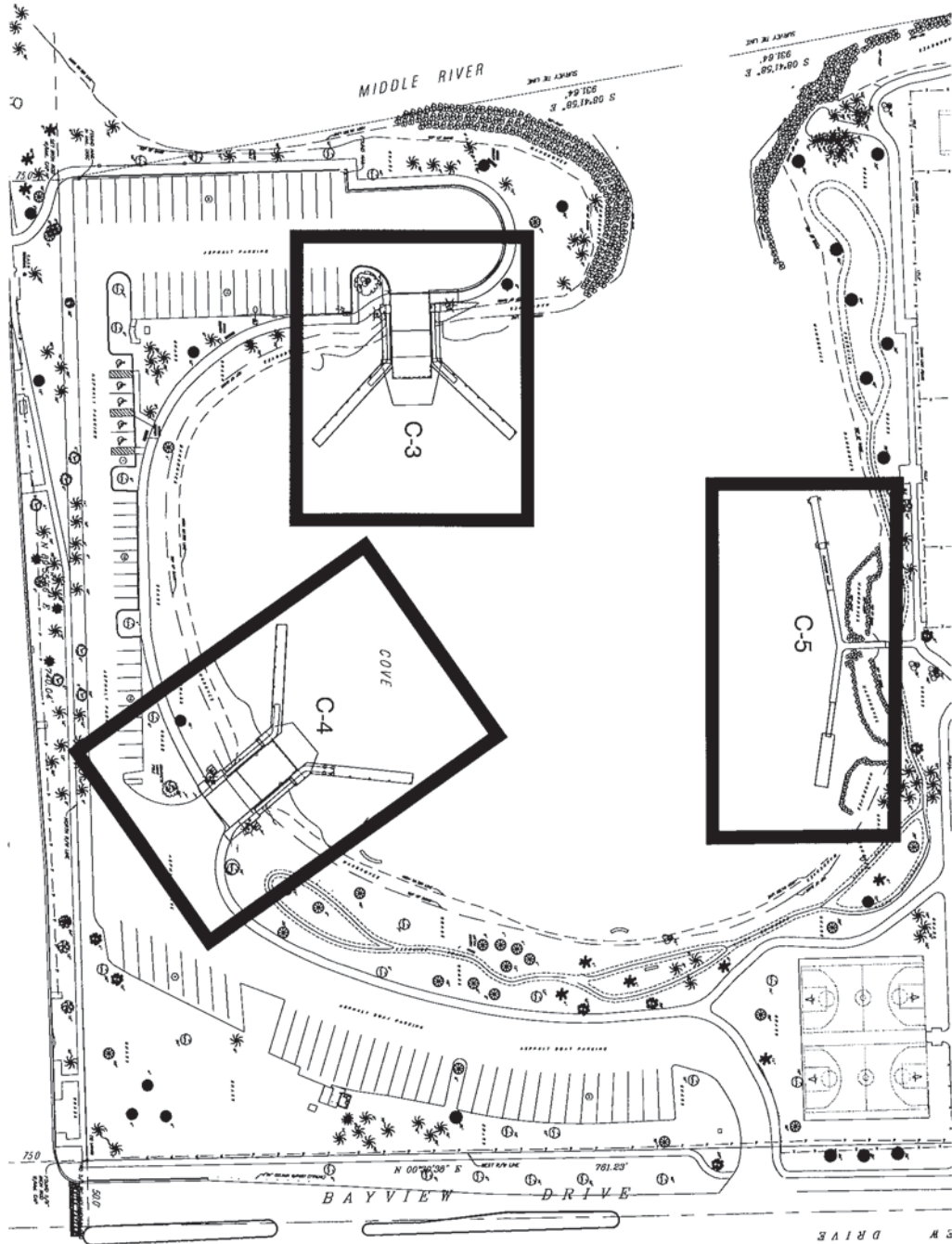
1995

© 2016 Google

Imagery Date: 1/23/2016 26°08'07.50" N 80°06'37.41" W elev 4 ft eye alt 5749 ft




P:\PROJECTS\2016\168634 GEORGE ENGLISH BOAT RAMPS REPLACEMENT\CADD FILES\DRAWINGS\FORT LAUDERDALE CADD STANDARDS\NO PATH XREFS\12186-MULTI-GRAD.DWG Wednesday, November 30, 2016 4:53:40 PM



60% REVIEW

SHEET NO.	07
C2	2
TOTAL:	13
CAD FILE: 12186-MULTI-CRAD	
DRAWING FILE NO. 4-140-17	

PROJECT # 12186  
GEORGE ENGLISH PARK  
BOAT RAMP RENOVATIONS  
MASTER / KEY PLAN  
1101 BAYVIEW DRIVE

[illegible]

CITY OF FORT LAUDERDALE  
PUBLIC WORKS DEPARTMENT  
ENGINEERING & ARCHITECTURE  
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

DRAWN BY: C.A.	DATE: 12/2/16
DESIGNED BY: D.O.	SCALE: AS SHOWN
CHECKED BY: D.O.	
FIELD BOOK:	

ENGINEER  
DAVID J. DECKER, P.E.  
LICENSE No: 34217  
DATE: 12/2/18

TITLE: \_\_\_\_\_ FAX: \_\_\_\_\_  
DATE: \_\_\_\_\_ BY: \_\_\_\_\_



## ATTACHMENT E-2

**WATERWAYS ASSISTANCE PROGRAM FY 2017  
PROJECT APPLICATION  
APPLICANT INFORMATION – PROJECT SUMMARY**

APPLICANT INFORMATION			
<b>Applicant:</b>	City of Fort Lauderdale		
<b>Department:</b>	Parks and Recreation		
<b>Project Title:</b>	Sweeting Park Dock		
<b>Project Director:</b>	Lee R. Feldman	<b>Title:</b>	City Manager
<b>Project Liaison:</b> <i>(if different from Project Director)</i>	Jonathan Luscomb	<b>Title:</b>	Supervisor of Marine Facilities
<b>Mailing Address:</b>	2 South New River Drive East		
<b>City:</b>	Fort Lauderdale, FL	<b>Zip Code:</b>	33301
<b>Email Address:</b>	jluscomb@fortlauderdale.gov	<b>Phone #:</b>	954-828-5354
<b>Project Address:</b>	433 NW 23rd Avenue, Fort Lauderdale FL 33311		

\*\*\*\*\* I hereby certify that the information provided in this application is true and accurate.\*\*\*\*\*

SIGNATURE: \_\_\_\_\_

DATE: \_\_\_\_\_

**PROJECT NARRATIVE** (Please summarize the project in space provided below in 2 paragraphs or less.)

Sweeting Park is located on the North Fork of the New River. The City is in the process of improving the park's shoreline as it is in very bad condition. Plans include removing invasive species, removing two existing docks which do not provide water access. The City regrade the shoreline and create a retention/filtration swale planting native grasses and plants. The City will replace the two existing docks with a new design which will be ADA compliant, utilize sustainable materials (recycled plastic) and provide needed access to the New River for fishing, crabbing and small motorized and non motorized vessels. The City is requesting funding assistance for the construction of the new dock.

## ATTACHMENT E-3 - PROJECT INFORMATION 2017

<b>Applicant:</b>	City of Fort Lauderdale		<b>Project Title:</b>	Sweeting Park Dock	
<b>Total Project Cost: \$</b>	40,000	<b>FIND Funding Requested: \$</b>	40,000	<b>% of Total Cost:</b>	50%
<b>Amount and Source of Applicant's Matching Funds:</b>	\$40,000 match is identified in the City of Fort Lauderdale 2018 General Fund Grant Match Account				

1. Ownership of Project Site (check one): Own: ☒ Leased: ☐ Other: ☐

2. If leased or other, please describe lease or terms and conditions:

N/A

3. Has the District previously provided assistance funding to this project or site? Yes: ☐ No: ☒

4. If yes, please list:

5. What is the current level of public access in terms of the number of boat ramps, boat slips and trailer parking spaces, linear feet of boardwalk (etc.)? (as applicable):

Currently there are two condemned public docks totaling 400 square feet of surface area and not accessible. They were not designed for ADA access. When open, they were used as a public fishing/crabbing pier.

6. How many additional ramps, slips, parking spaces or other access features will be added by this project?

There will be one dock which will be an ADA accessible large fishing, crabbing and viewing platform. The dock will also provide park access for small motorized and non-motorized vessels.

7. Are fees charged for the use of this project? No ☐ Yes ☐ \*\*

\*\*If yes, please attach additional documentation of fees and how they compare with fees from similar public & private facilities in the area.

Please list all Environmental Resource Permits required for this project:

AGENCY	Yes / No / N/A	Date Applied For	Date Recieved
WMD	Y	2-2017	
DEP	Y	2-2017	
ACOE	Y	2-2017	
COUNTY / CITY	Y	8-2015	10/2/2015

## ATTACHMENT E-4

**WATERWAYS ASSISTANCE PROGRAM  
APPLICATION AND EVALUATION WORKSHEET**

DIRECTIONS: All applicants will complete questions 1 through 6, and then based on the type of project, complete one and only one subsection (E-4A, B, C, D or E) for questions 7-10.

**\*\*Please keep your answers brief and do not change the pagination of Attachment E-4 \*\***

All other sub-attachments that are not applicable to an applicant's project should not be included in the submitted application.

<b>Project Title:</b>	Sweeting Park Dock
<b>Applicant:</b>	City of Fort Lauderdale

---

**1) PRIORITY LIST:**

- a) Denote the priority list category of this project from Attachment C in the application.** (The application may only be of **one** type based upon the predominant cost of the project elements.)

11. Public fishing and viewing piers

- b) Explain how the project fits this priority category.**

This project creates public access. The City is replacing two dilapidated which are condemned with a new dock providing extended access to the New River.

(For reviewer only) 45  
Max. Available Score for application \_\_\_\_\_

Question 1. Range of Score (1 to 3 points)

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**2) WATERWAY RELATIONSHIP:**

- a) **Explain how the project relates to the ICW and the mission of the Navigation District.**

The Project is located on the North Fork of the New River which flows into the District's Waterway. The site is accessible by small motorized vessels, kayaks, canoes and stand up paddle boards.

- b) **What public access or navigational benefit to the ICW or adjoining waterway will result from this project?**

The Dock will provide access to the N. Fork of the New River for small boats kayaks, paddle boards and provide a fishing, crabbing and viewing platform of a natural area in the City.

*(For reviewer only)*  
*(1-6 points)*

---

**3) PUBLIC USAGE & BENEFITS:**

- a) **How is the public usage of this project clearly identified and quantified? Estimate the amount of total public use.**

Presently, because the dock is closed and the shoreline unstable, present access is very limited. We estimate after installation and the completion of the new and higher Broward Blvd. Bridge, the dock will be accessed 200 days per year.

- b) **Discuss the regional and local public benefits that will be provided by the project. Can residents from other counties of the District reasonably access and use the project? Explain.**

Locals will benefit most from this project as the park is in a neighborhood setting. Residents from other counties are welcome to use the site. It is expected its popularity will increase as a stand up paddle board, canoe and kayak destination.

- c) **Are there any restrictions placed on commercial access or use of this site?**

Yes due to it being a city park.

*(For reviewer only)*  
*(1-8 points)*

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**4) TIMELINESS**

- a) Describe current status of the project and present a reasonable and effective timeline for the completion of the project consistent with Attachment E-6.**

Design is completed, permits attained last year have expired and have been reapplied for. Construction is already underway for other park improvements. Work on the dock is expected to begin in March 2018 after bidding is completed and take 8 weeks to complete.

- b) Briefly explain any unique aspects of this project that could influence the project timeline.**

The work will be completed from the shoreline rather than typical crane and barge.

*(For reviewer only)*  
*(1-3 points)*

---

**5) COSTS & EFFICIENCY:**

- a) List funding sources and the status and amount of the corresponding funding that will be utilized to complete this project.**

Match funding of \$40,000 will be provided by the City of Fort Lauderdale General Fund Grant Match account.

- b) Identify and describe any project costs that may be increased because of the materials utilized or specific site conditions.**

The use of sustainable materials like composite pilings and recycled plastic decking tend to increase costs, but reduce maintenance costs and extend project life.

- c) Describe any methods to be utilized to increase the cost efficiency of this project.**

The work will be completed from the shoreline rather than typical crane and barge.

- d) If there are any fees associated with the use of this facility, please detail. In addition, please provide a listing of the fees charged by similar facilities, public and private, in the project area.**

No fees will be charged.

*(For reviewer only)*  
*(1-6 points)*

---

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**6) PROJECT VIABILITY:**

- a) **What specific need in the community does this project fill? Is this project referenced or incorporated in an existing maritime management, public access or comp plan?**

Access to the North Fork of the New River is limited. This project will increase its access to small boats and non-motorized watercraft. Increasing park access by water is an initiative in the City's longterm "Press Play Fort Lauderdale Strategic Plan 2018.

- b) **Clearly demonstrate how the project will continue to be maintained and funded after District funding is completed.**

The City funds and annual recapitalization budget annually for repairs and maintenance.

- c) **Will the program result in significant and lasting benefits? Explain.**

The shoreline restoration will drastically reduce pollutants in storm water from washing into the River. The new ADA dock, with its expanded platform, will provide access to a cleaner reclaimed natural area of the New River.

- d) **Please describe any environmental benefits associated with this project.**

The shoreline restoration will drastically reduce pollutants in storm water from washing into the River. The new mangroves will provide estuaries and habitat for marine life. The Dock will be placed within this area providing a place to fish, to crab, a scenic vista and a destination for small motorized and unmotorized vessels.

*(For reviewer only)*  
*(1-7 points)*

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SUB-TOTAL \_\_\_\_\_

FIND FORM NO. 91-25

Rule 66B-2.005 (Effective Date: 3-21-01, Revised 4-24-06, 1-27-14)



**ATTACHMENT E-4A  
DEVELOPMENT & CONSTRUCTION PROJECTS**

**WATERWAYS ASSISTANCE PROGRAM  
APPLICATION AND EVALUATION WORKSHEET**

THIS ATTACHMENT IS TO BE COMPLETED IF YOUR PROJECT IS A  
DEVELOPMENT OR CONSTRUCTION PROJECT BUT **IS NOT** AN INLET  
MANAGEMENT OR BEACH RENOURISHMENT PROJECT.

---

**7) PERMITTING:**

- a) **Have all required environmental permits been applied for? (USACE, DEP and WMD)**  
**If permits are NOT required, explain why not.**

All permits were in hand, but expired. All required permits have been re-applied for and expected to be in hand well before September 2017.

- b) **If the project is a Phase I project, list the tasks scheduled to obtain the necessary permits and engineering work and provide a general cost estimate for the future Phase II work.**

The Project is not a Phase I project.

- c) **Detail any significant impediments that may have been identified that would potentially delay the timely issuance of the required permits.**

No impediments are expected.

*(For reviewer only)*  
*(1-4 points)*

---

**8) PROJECT DESIGN:**

- a) **Has the design work been completed? If this is a Phase I project, has a preliminary design been developed?**

Design work is completed have been permit applications have been submitted.

- b) **Are there unique beneficial aspects to the proposed design that enhance public usage or access, minimize environmental impacts, improve water quality or reduce costs?**

Yes, the Dock is part of a habitat restoration project . The shoreline restoration and mangrove planting reduce pollutants in storm water from washing into the New River and encourage marine life to populate the area. The Dock provides access to the River through the mangroves.

*(For reviewer only)*  
*(1-2 points)*

---

**9) CONSTRUCTION TECHNIQUES:**

- a) **Briefly explain the construction techniques to be utilized for this project. If a Phase 1, elaborate on potential techniques.**

Perimeter barriers will be staked. Invasive species and the condemned docks will be removed. The shoreline will be filled and graded creating a grassed berm to hold runoff from entering the river. The new dock will be constructed and in the tidal areas, mangroves will be planted along the shoreline and around the new dock.

- b) **How are the utilized construction techniques appropriate for the project site?**

The techniques used are common for this type of project.

- c) **Identify any unusual construction techniques that may increase or decrease the costs of the project.**

None.

*(For reviewer only)*  
*(1-3 points)*

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**10) CONSTRUCTION MATERIALS:**

- a) **List the materials to be utilized for this project. What is the design life of the proposed materials compared to other available materials?**

Pearson composite pilings, stainless steel fasteners and recycled plastic lumber will be used for this project. The life expectancy is over 25 years.

- b) **Identify any unique construction materials that may significantly alter the project costs.**

The use of sustainable materials such as recycled lumber, stainless steel and composite pilings increase the price, but require less maintenance and have a longer useful life.

*(For reviewer only)*  
*(1-3 points)*

---

**RATING POINT**  
**TOTAL** \_\_\_\_\_

(Note: The total maximum score possible is dependent upon the project priority category but cannot exceed 50 points unless the project qualifies as an emergency-related project. The minimum score possible is 10 points. A score of 35 points or more is required to be considered for funding.)



## ATTACHMENT E-5

FLORIDA INLAND NAVIGATION DISTRICT  
ASSISTANCE PROGRAM 2017

## PROJECT COST ESTIMATE

(See Rule Section 66B-2.005 & 2.008 for eligibility and funding ratios)

<b>Project Title:</b>	Sweeting Park Dock
<b>Applicant:</b>	City of Fort Lauderdale

<b>Project Elements</b> <i>(Please list the MAJOR project elements and provide general costs for each one. For Phase I Projects, please list the major elements and products expected)</i>	<b>Quantity or Total Estimated Cost</b> <i>(Number and/or Footage etc.)</i>	<b>Applicant's Cost</b>	<b>FIND Cost</b>
Sweeting Park Dock Construction Lump Sum Not to Exceed	\$80,000	\$40,000	\$40, 000

<b>**TOTALS =</b>	<b>\$ 80,000</b>	<b>\$ 40,000</b>	<b>\$ 40,000</b>
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**ATTACHMENT E-6  
WATERWAYS ASSISTANCE PROGRAM 2017**

**PROJECT TIMELINE**

<b>Project Title:</b>	Sweeting Park Dock
<b>Applicant:</b>	City of Fort Lauderdale

The applicant is to present a detailed timeline on the accomplishment of the components of the proposed project including, as applicable, completion dates for: permitting, design, bidding, applicant approvals, initiation of construction and completion of construction.

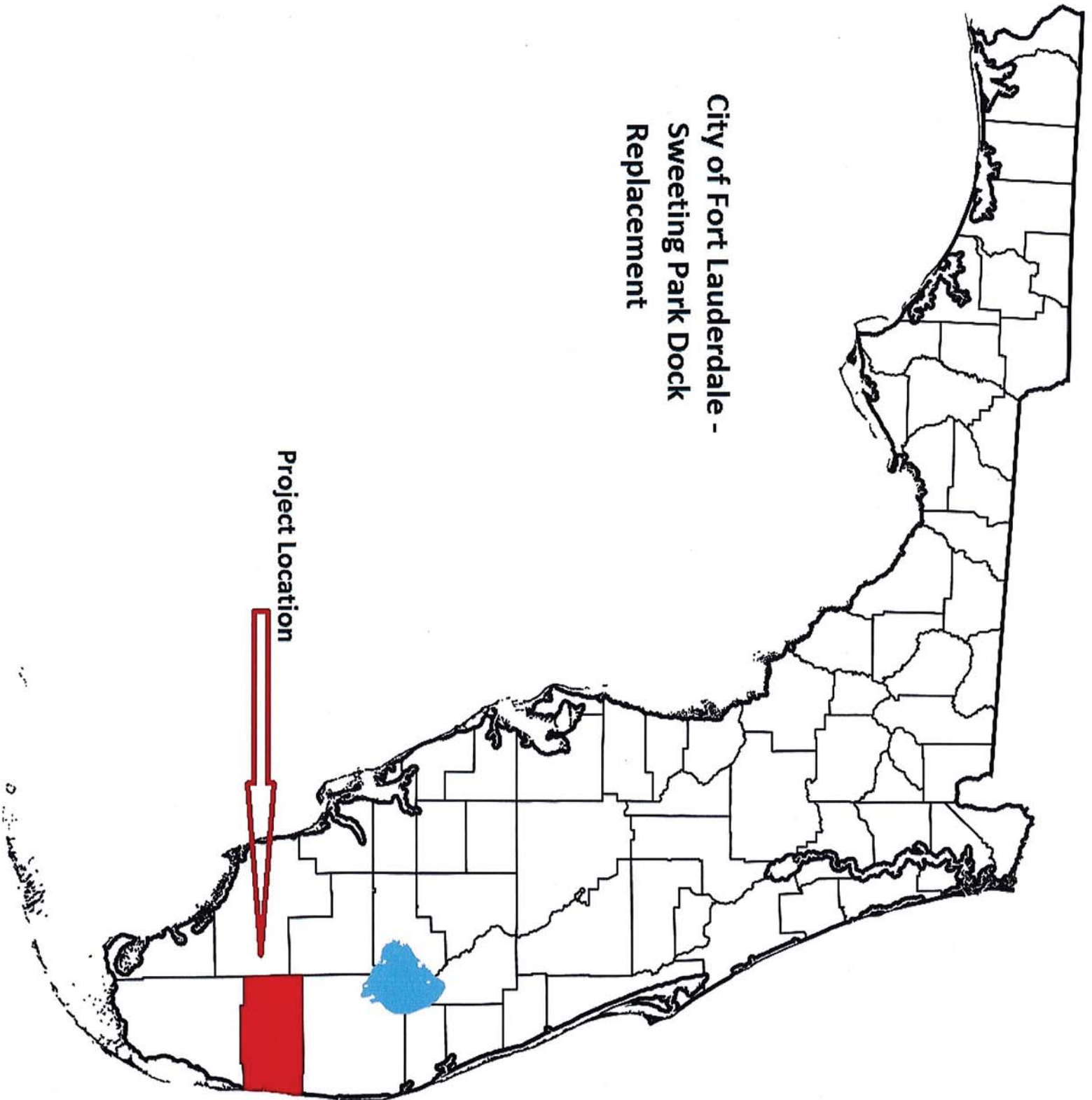
**NOTE: All funded activities must begin AFTER October 1<sup>st</sup>**  
(or be consistent with Rule 66B-2.005(3) - Pre-agreement expenses)

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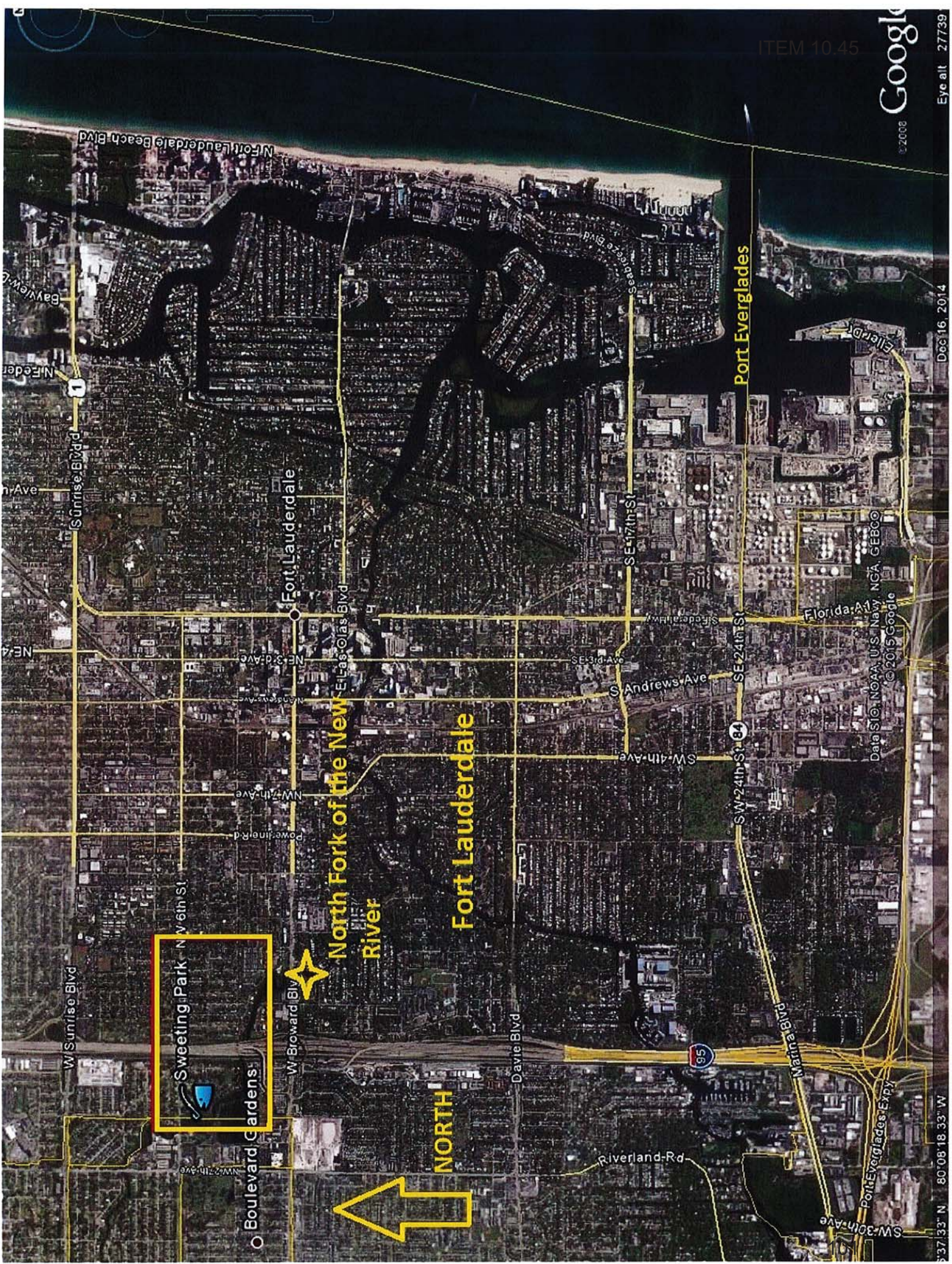
Design:	Complete
Permitting:	Permits applications are submitted
Bidding & Award:	March 2018
Construction:	June 2018
Project Completion:	September 2018

**City of Fort Lauderdale -  
Sweeting Park Dock  
Replacement**

**Project Location**







ITEM 10.45

Google  
© 2008

Eye alt 27739

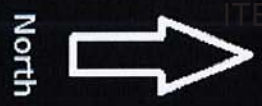
Dec 16, 2014

Data SIO, NOAA, U.S. Navy, NGA, GEBCO  
© 2015 Google

26°37'33" N 80°08'18.33" W



ITEM 1



Sweeting Park

North Fork - New River



Broward Blvd.

NW 25th Ave

842

NW 22nd Ave

NW 41st St

NW 21st Terra

NW 21st Ave

NW 20th Ave

NW 3rd Ct

227.61°N 80.10°16.71°W

Data © NOAA, U.S. Navy, NGA, GEBCO  
©2015 Google

Dec 16, 2014

Google  
Eye alt 2820 ft











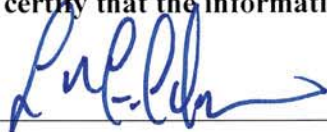
## ATTACHMENT E-2

**WATERWAYS ASSISTANCE PROGRAM FY 2017  
PROJECT APPLICATION  
APPLICANT INFORMATION – PROJECT SUMMARY**

<b>APPLICANT INFORMATION</b>			
<b>Applicant:</b>	City of Fort Lauderdale		
<b>Department:</b>	Parks and Recreation		
<b>Project Title:</b>	Bill Keith Preserve Shoreline Restoration Phase I Design and Permitting		
<b>Project Director:</b>	Lee R. Feldman	<b>Title:</b>	City Manager
<b>Project Liaison:</b> <i>(if different from Project Director)</i>	Jonathan Luscomb	<b>Title:</b>	Supervisor of Marine Facilities
<b>Mailing Address:</b>	2 South New River Drive		
<b>City:</b>	Fort Lauderdale	<b>Zip Code:</b>	33301
<b>Email Address:</b>	jluscomb@fortlauderdale.gov	<b>Phone #:</b>	954-828-5354
<b>Project Address:</b>	1720 S.W. 17th Street, Fort Lauderdale, FL 33304		

\*\*\*\*\* I hereby certify that the information provided in this application is true and accurate.\*\*\*\*\*

SIGNATURE: \_\_\_\_\_



DATE: \_\_\_\_\_



**PROJECT NARRATIVE** (Please summarize the project in space provided below in 2 paragraphs or less.)

The Bill Keith Preserve is a 4 acre natural area located along the South Fork of New River just East of the I-95 overpass in Fort Lauderdale. In 2005, the land was purchased by Broward County and leased to the City. The preserve was created by the City of Fort Lauderdale, area neighbors and the Shady Banks Association. Over time, wakes created by vessel traffic along that stretch of the river has significantly eroded and scoured the shoreline in the preserve. The project will consist of designing and obtaining permits to build lasting shoreline stabilization, which may include grading, filling and constructing a revetment along the areas prone to scouring and erosion along shore line of the park.

## ATTACHMENT E-3 - PROJECT INFORMATION 2017

<b>Applicant:</b>	City of Fort Lauderdale		<b>Project Title:</b>	Bill Keith Preserve Shoreline Restoration		
<b>Total Project Cost: \$</b>	120,000	<b>FIND Funding Requested: \$</b>	60,000	<b>% of Total Cost:</b>	<del>60,000</del>	50%
<b>Amount and Source of Applicant's Matching Funds:</b>	City of Fort Lauderdale FY2018 CIP Budget					

1. Ownership of Project Site (check one): Own: ☒ Leased: ☐ Other: ☐

2. If leased or other, please describe lease or terms and conditions:

3. Has the District previously provided assistance funding to this project or site? Yes: ☐ No: ☒

4. If yes, please list:

5. What is the current level of public access in terms of the number of boat ramps, boat slips and trailer parking spaces, linear feet of boardwalk (etc.)? (as applicable):

Bill Keith Preserve passive park on the banks of the New River offering parking, a canoe and Kayak landing, picnic tables, a nature trail, Pavilion, boardwalk and observation deck. The park is open to the public during daylight hours.

6. How many additional ramps, slips, parking spaces or other access features will be added by this project?

A revetment will preserve the beach from scouring, provide shoreline stabilization, erosion control and aquatic habitat.

7. Are fees charged for the use of this project? No ☒ Yes ☐ \*\*

\*\*If yes, please attach additional documentation of fees and how they compare with fees from similar public & private facilities in the area.

Please list all Environmental Resource Permits required for this project:

AGENCY	Yes / No / N/A	Date Applied For	Date Recieved
WMD	Y		
DEP	Y		
ACOE	Y		
COUNTY / CITY	Y		



## ATTACHMENT E-4

**WATERWAYS ASSISTANCE PROGRAM  
APPLICATION AND EVALUATION WORKSHEET**

**DIRECTIONS:** All applicants will complete questions 1 through 6, and then based on the type of project, complete one and only one subsection (E-4A, B, C, D or E) for questions 7-10.

**\*\*Please keep your answers brief and do not change the pagination of Attachment E-4 \*\***

All other sub-attachments that are not applicable to an applicant's project should not be included in the submitted application.

<b>Project Title:</b>	Bill Keith Preserve Shoreline Restoration Phase I Design and Permitting
<b>Applicant:</b>	City of Fort Lauderdale

---

**1) PRIORITY LIST:**

- a) Denote the priority list category of this project from Attachment C in the application.** (The application may only be of **one** type based upon the predominant cost of the project elements.)

12: Public Waterfront Park and associated improvements

- b) Explain how the project fits this priority category.**

Bill Keith Preserve is a passive park on the banks of the New River offering parking, a canoe and kayak landing, picnic tables, a nature trail, Pavilion, boardwalk and observation deck. Shoreline stabilization is an improvement adding habitat and longevity to the shoreline.

*(For reviewer only)*

Max. Available Score for application    45 \_\_\_\_\_

Question 1. Range of Score    (1 to 3\_\_ points)

---

**2) WATERWAY RELATIONSHIP:**

- a) Explain how the project relates to the ICW and the mission of the Navigation District.**

The South Fork of the New River flows directly into the Atlantic Intracoastal Waterway and is a Major artery to the City's local Marine repair industry.

- b) What public access or navigational benefit to the ICW or adjoining waterway will result from this project?**

Stabilizing preserves shoreline, reduce shoaling in the area, and enhance a destination for kayaks, stand-up paddle boards/canoes and add estuarine habitat.

*(For reviewer only)*

*(1-6 points)*

---

**3) PUBLIC USAGE & BENEFITS:**

- a) How is the public usage of this project clearly identified and quantified? Estimate the amount of total public use.**

Paddle Boarding and Kayaking are two of the fastest growing sectors of marine recreation. We expect the that this location will be used 180 days/year by regional and resident, paddle boarders and Kayak users wishing to enjoy the stop along the New River loop.

- b) Discuss the regional and local public benefits that will be provided by the project. Can residents from other counties of the District reasonably access and use the project? Explain.**

The project offers a continuation of small watercraft access points along the New River for users navigating the "River Loop". It will provide a destination for picnicking, paddle boarding, kayaking, canoing, nature trail walks and relaxation in a well kept and maintained natural park environment.

- c) Are there any restrictions placed on commercial access or use of this site?**

Yes, the site is a city park and nature preserve.

*(For reviewer only)*

*(1-8 points)*

---

**4) TIMELINESS**

- a) Describe current status of the project and present a reasonable and effective timeline for the completion of the project consistent with Attachment E-6.**

No work has been completed yet other than a site survey to identify problem areas. Permitting is expected to take 18-24 months and design will be completed in conjunction with the permitting process.

- b) Briefly explain any unique aspects of this project that could influence the project timeline.**

There are no unique aspects of this project which could influence the project time line other than working with the regulatory agencies.

*(For reviewer only)*

*(1-3 points)*

---

**5) COSTS & EFFICIENCY:**

- a) List funding sources and the status and amount of the corresponding funding that will be utilized to complete this project.**

No additional funding will be sought. The City will provide the entire match from the City's Grants/CIP - General Fund Account.

- b) Identify and describe any project costs that may be increased because of the materials utilized or specific site conditions:**

Regulatory agency request for additional information, mitigation, etc. could affect costs.

- c) Describe any methods to be utilized to increase the cost efficiency of this project.**

Design will occur in conjunction with the permitting process and flow analysis.

- d) If there are any fees associated with the use of this facility, please detail. In addition, please provide a listing of the fees charged by similar facilities, public and private, in the project area.**

No fees are or will be charged for use of this project site.

*(For reviewer only)*

*(1-6 points)*

---



**6) PROJECT VIABILITY:**

- a) **What specific need in the community does this project fill? Is this project referenced or incorporated in an existing maritime management, public access or comp plan?**

The project is part of the City's goal to create small watercraft access to the downtown and to create and maintain water access to its waterfront parks. These goals are identified in the City's Vision Plan - Fast Forward Fort Lauderdale.

- b) **Clearly demonstrate how the project will continue to be maintained and funded after District funding is completed.**

The project will be maintained out of Parks and Recreation annual maintenance budget.

- c) **Will the program result in significant and lasting benefits? Explain.**

Yes, erosion and scouring are having serious effects and reducing the preserve's shoreline and its access. Re-contouring and adding a wave attenuation revetment will preserve the park and access for many years.

- d) **Please describe any environmental benefits associated with this project.**

The revetment will help create a stable estuarine environment where there is none now.

*(For reviewer only)*

*(1-7 points)*

---

SUB-TOTAL \_\_\_\_\_

FIND FORM NO. 91-25

Rule 66B-2.005 (Effective Date: 3-21-01, Revised 4-24-06, 1-27-14)

**ATTACHMENT E-4A  
DEVELOPMENT & CONSTRUCTION PROJECTS**

**WATERWAYS ASSISTANCE PROGRAM  
APPLICATION AND EVALUATION WORKSHEET**

THIS ATTACHMENT IS TO BE COMPLETED IF YOUR PROJECT IS A  
DEVELOPMENT OR CONSTRUCTION PROJECT BUT IS NOT AN INLET  
MANAGEMENT OR BEACH RENOURISHMENT PROJECT.

**7) PERMITTING:**

- a) **Have all required environmental permits been applied for? (USACE, DEP and WMD)**  
If permits are NOT required, explain why not.

No.

- b) **If the project is a Phase I project, list the tasks scheduled to obtain the necessary permits and engineering work and provide a general cost estimate for the future Phase II work.**

Benthic surveys, sea grass surveys, site surveys permit application(s), project design. Phase II costs are estimated at approximately \$300,000.

- c) **Detail any significant impediments that may have been identified that would potentially delay the timely issuance of the required permits.**

The occurrence of sea grasses and mitigation.

*(For reviewer only)  
(1-4 points)*

**8) PROJECT DESIGN:**

- a) **Has the design work been completed? If this is a Phase I project, has a preliminary design been developed?**

No design work has begun.

- b) **Are there unique beneficial aspects to the proposed design that enhance public usage or access, minimize environmental impacts, improve water quality or reduce costs?**

If possible design elements which include entrances to the shoreline behind a revetment will be attempted.

*(For reviewer only)*

*(1-2 points)*

**9) CONSTRUCTION TECHNIQUES:**

- a) **Briefly explain the construction techniques to be utilized for this project. If a Phase 1, elaborate on potential techniques.**

Invasive species removal, shoreline scraping, shoreline grading, filling excavation and the placement of revetment boulders.

- b) **How are the utilized construction techniques appropriate for the project site?**

The techniques are widely used methods for shoreline stabilization projects.

- c) **Identify any unusual construction techniques that may increase or decrease the costs of the project.**

No unusual construction techniques have been identified yet, but may during the design process.

*(For reviewer only)*

*(1-3 points)*



---

**10) CONSTRUCTION MATERIALS:**

- a) **List the materials to be utilized for this project. What is the design life of the proposed materials compared to other available materials?**

Coquina boulders, mangroves, sand, and other native plants will be explored for use during the design process.

- b) **Identify any unique construction materials that may significantly alter the project costs.**

None are identified.

*(For reviewer only)*  
*(1-3 points)*

---

**RATING POINT  
TOTAL** \_\_\_\_\_

(Note: The total maximum score possible is dependent upon the project priority category but cannot exceed 50 points unless the project qualifies as an emergency-related project. The minimum score possible is 10 points. A score of 35 points or more is required to be considered for funding.)

Form No. 91-25A  
Rule 66B-2.005 (Effective Date: 3-21-01, revised 4-24-06, 1-27-14)

## ATTACHMENT E-5

**FLORIDA INLAND NAVIGATION DISTRICT  
ASSISTANCE PROGRAM 2017**

**PROJECT COST ESTIMATE**(See Rule Section 66B-2.005 & 2.008 for eligibility and funding ratios)

<b>Project Title:</b>	Bill Keith Preserve Shoreline Restoration Phase I Design and Permitting
<b>Applicant:</b>	City of Fort Lauderdale

<b>Project Elements</b> <i>(Please list the MAJOR project elements and provide general costs for each one. For Phase I Projects, please list the major elements and products expected)</i>	<b>Quantity or Total Estimated Cost</b> <i>(Number and/or Footage etc.)</i>	<b>Applicant's Cost</b>	<b>FIND Cost</b>
Consulting Services:  Permitting and Design Shoreline Stabilization	Lump Sum not to exceed  \$120,000	\$60,000	\$60,000
<b>**TOTALS =</b>			
	\$ 120,000	\$ 60,000	\$ 60,000

**ATTACHMENT E-6  
WATERWAYS ASSISTANCE PROGRAM 2017**

**PROJECT TIMELINE**

<b>Project Title:</b>	Bill Keith Preserve Shoreline Restoration Phase I Design and Permitting
<b>Applicant:</b>	City of Fort Lauderdale

The applicant is to present a detailed timeline on the accomplishment of the components of the proposed project including, as applicable, completion dates for: permitting, design, bidding, applicant approvals, initiation of construction and completion of construction.

**NOTE: All funded activities must begin AFTER October 1<sup>st</sup>**  
(or be consistent with Rule 66B-2.005(3) - Pre-agreement expenses)

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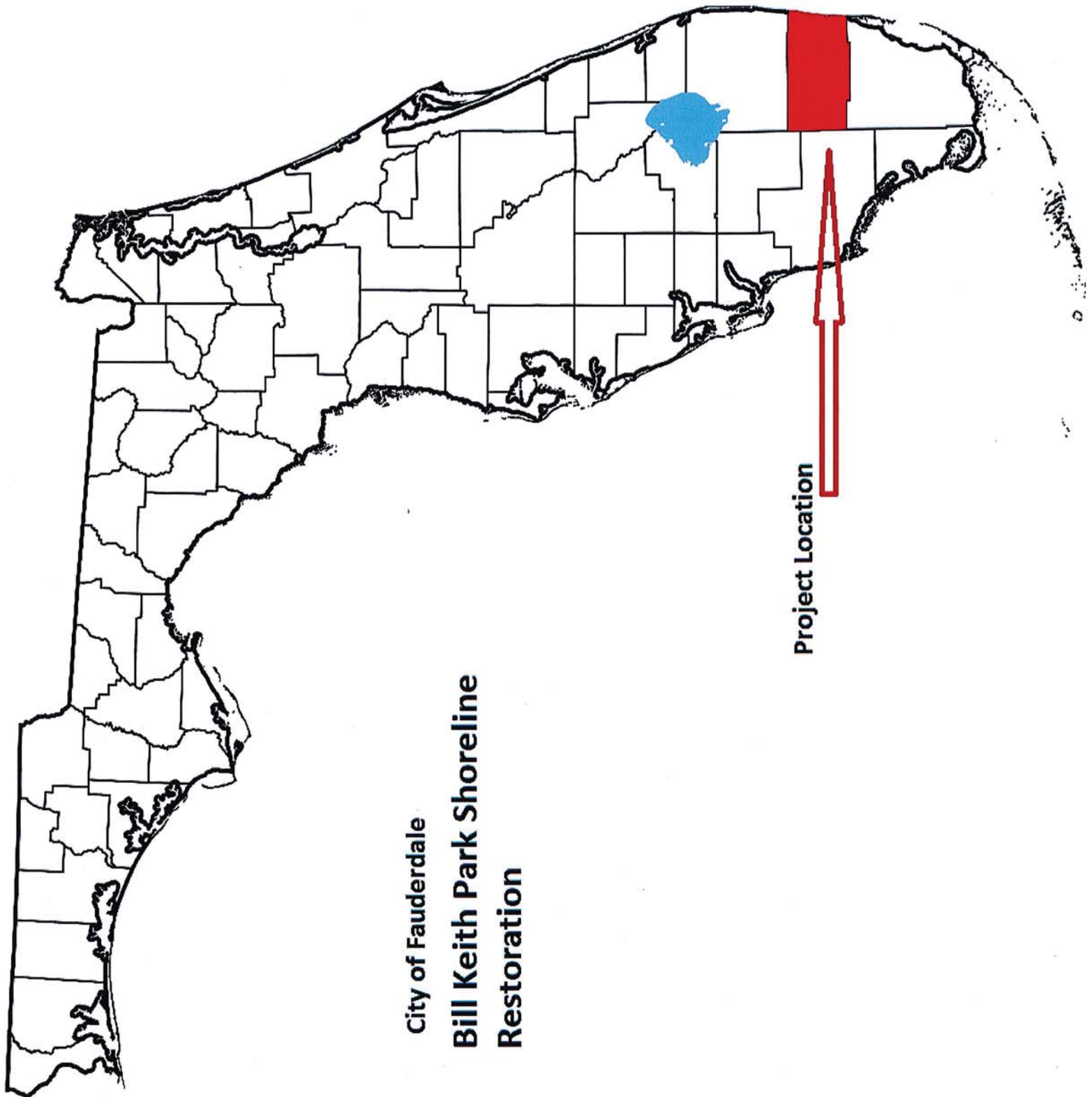
Design:

January 2018 - December 2018

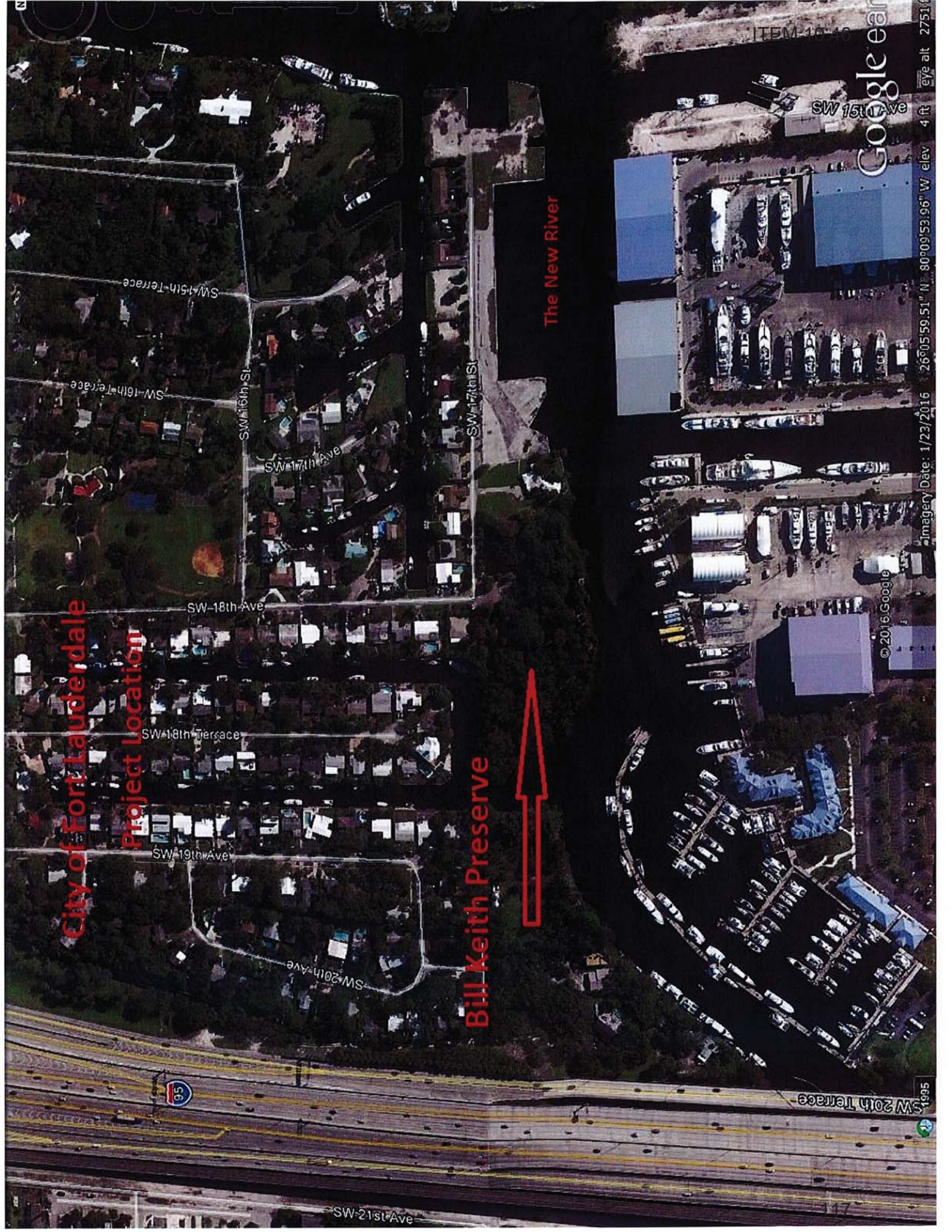
Permitting:

June 2018 - September 2019









City of Fort Lauderdale

Project Location

Bill Keith Preserve



The New River

Google Earth

ITEM 10-40

SW 15th Ave

Imagery Date: 1/23/2016 26°05'59.51" N 80°09'53.96" W elev 4 ft eye alt 2751 ft

© 2016 Google

SW 20th Terrace

SW 21st Ave

117







## ATTACHMENT E-2

**WATERWAYS ASSISTANCE PROGRAM FY 2017  
PROJECT APPLICATION  
APPLICANT INFORMATION – PROJECT SUMMARY**

APPLICANT INFORMATION			
<b>Applicant:</b>	City of Fort Lauderdale		
<b>Department:</b>	Parks and Recreation		
<b>Project Title:</b>	Riverwalk Floating Docks Design and Permitting Phase I		
<b>Project Director:</b>	Lee R. Feldman	<b>Title:</b>	City Manager
<b>Project Liaison:</b> <i>(if different from Project Director)</i>	Jonathan Luscomb	<b>Title:</b>	Supervisor of Marine Facilities
<b>Mailing Address:</b>	2 South New River Drive East		
<b>City:</b>	Fort Lauderdale, FL	<b>Zip Code:</b>	33301
<b>Email Address:</b>	jluscomb@fortlauderdale.gov	<b>Phone #:</b>	954-828-5354
<b>Project Address:</b>	400 S.W. 4th Street, Ft. Lauderdale		

\*\*\*\*\* I hereby certify that the information provided in this application is true and accurate.\*\*\*\*\*

SIGNATURE: \_\_\_\_\_



DATE: \_\_\_\_\_

3.24.17

**PROJECT NARRATIVE** (Please summarize the project in space provided below in 2 paragraphs or less.)

In 2011, the City installed floating docks at four (4) locations along the New River to increase public access to the City's Riverwalk from the New River for small boats. The New River Downtown Docks are side-to linear dockage and prior to the installation of the floating docks, access was difficult for small boats to tie up along the seawall. The project was funded in part by FIND.

The floating docks are very successful as they provide easy waterway access to local businesses, restaurants and to special events like The Sunday Jazz Brunch.

The purpose of this project is to design and permit two additional floating docks along the Riverwalk increasing waterway access downtown. One dock will be added to the existing dock at Esplanade Park and the other will be placed near the New River Inn museum.

## ATTACHMENT E-3 - PROJECT INFORMATION 2017

<b>Applicant:</b>	City of Fort Lauderdale	<b>Project Title:</b>	Riverwalk Floating Docks Design and Per		
<b>Total Project Cost: \$</b>	130,000	<b>FIND Funding Requested: \$</b>	65,000	<b>% of Total Cost:</b>	65,000
<b>Amount and Source of Applicant's Matching Funds:</b>	\$65,000 - City of Fort Lauderdale General Fund FY 2018 CIP Budget				

1. Ownership of Project Site (check one): Own: ☒ Leased: ☐ Other: ☐

2. If leased or other, please describe lease or terms and conditions:

The City owns the upland and has a Florida Department of Environmental Protect Submerged Land Lease.

3. Has the District previously provided assistance funding to this project or site? Yes: ☒ No: ☐

4. If yes, please list:

BR-FL-06-76, BR-FL-07-78

5. What is the current level of public access in terms of the number of boat ramps, boat slips and trailer parking spaces, linear feet of boardwalk (etc.)? (as applicable):

Currently the City has 540 L.F. of floating docks along the New River. Access is first-come-first-served and no fees are charged. They are full for special events, weekends and holidays.

6. How many additional ramps, slips, parking spaces or other access features will be added by this project?

Two (2) additional ADA accessible floating docks are planned totaling 180' (80' & 100').

7. Are fees charged for the use of this project? No ☒ Yes ☐ \*\*

\*\*If yes, please attach additional documentation of fees and how they compare with fees from similar public & private facilities in the area.

Please list all Environmental Resource Permits required for this project:

AGENCY	Yes / No / N/A	Date Applied For	Date Recieved
WMD	y		
DEP	y		
ACOE	y		
COUNTY / CITY	y		

## ATTACHMENT E-4

**WATERWAYS ASSISTANCE PROGRAM  
APPLICATION AND EVALUATION WORKSHEET**

**DIRECTIONS:** All applicants will complete questions 1 through 6, and then based on the type of project, complete one and only one subsection (E-4A, B, C, D or E) for questions 7-10.

**\*\*Please keep your answers brief and do not change the pagination of Attachment E-4 \*\***

All other sub-attachments that are not applicable to an applicant's project should not be included in the submitted application.

<b>Project Title:</b>	Riverwalk Floating Docks Design and Permitting Phase I
<b>Applicant:</b>	City of Fort Lauderdale

---

**1) PRIORITY LIST:**

- a) Denote the priority list category of this project from Attachment C in the application.** (The application may only be of **one** type based upon the predominant cost of the project elements.)

Priority 8 - Development of public boat docks and mooring facilities.

- b) Explain how the project fits this priority category.**

The Development and installation of free public access floating docks on a tributary of the Intracoastal Waterway fits this project category.

*(For reviewer only)*

Max. Available Score for application      47

Question 1. Range of Score    (1 to 5 points)

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**2) WATERWAY RELATIONSHIP:**

- a) Explain how the project relates to the ICW and the mission of the Navigation District.**

The Floating Docks will be located on the South Fork of the New River, which connects to the ICW. We are a municipality partnering with the District to increase public access to downtown Fort Lauderdale with the addition of more floating docks on the New River.

- b) What public access or navigational benefit to the ICW or adjoining waterway will result from this project?**

Additional Floating Docks along the New River benefit the small boating public by creating ADA accessible landing points along the New River's seawalls, the Riverwalk and downtown Fort Lauderdale.

*(For reviewer only)*  
*(1-6 points)*

---

**3) PUBLIC USAGE & BENEFITS:**

- a) How is the public usage of this project clearly identified and quantified? Estimate the amount of total public use.**

The existing floating docks are 100% full during special events on the New River: Winterfest Boat Parade, Sunday Jazz Brunch (12 /year), St. Patrick's Day, New Years Eve and July 4 celebration. During the year they are 75% full on weekends and 25% full during the week.

- b) Discuss the regional and local public benefits that will be provided by the project. Can residents from other counties of the District reasonably access and use the project? Explain.**

The Docks will be located on the New River, which intersects the ICW making these docks accessible on a first come first served basis to anyone in the District or out of the District.

- c) Are there any restrictions placed on commercial access or use of this site?**

The docks are used for some commercial uses such as water taxi's and charter pick up and drop off. No barge loading or unloading is permitted.

*(For reviewer only)*  
*(1-8 points)*

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#### 4) TIMELINESS

- a) Describe current status of the project and present a reasonable and effective timeline for the completion of the project consistent with Attachment E-6.**

The project is conceptual now. It is expected that work will begin for design and permit applications in January of 2018 and be completed by January 2019.

- b) Briefly explain any unique aspects of this project that could influence the project timeline.**

The dock systems will be constructed of site and delivered and installed. There are no expected unique aspects of the project which would delay the project.

*(For reviewer only)*  
*(1-3 points)*

---

#### 5) COSTS & EFFICIENCY:

- a) List funding sources and the status and amount of the corresponding funding that will be utilized to complete this project.**

Match funding is identified in the City of Fort Lauderdale General Fund FY 2018 CIP Budget

- b) Identify and describe any project costs that may be increased because of the materials utilized or specific site conditions.**

The use of ICP Spun Pilings may be used to be consistent with the previous New River Floating Dock installation.

- c) Describe any methods to be utilized to increase the cost efficiency of this project.**

The docks will be manufactured of site, trucked to the site and installed.

- d) If there are any fees associated with the use of this facility, please detail. In addition, please provide a listing of the fees charged by similar facilities, public and private, in the project area.**

No fees will be charged for use of these docks.

*(For reviewer only)*  
*(1-6 points)*

---

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**6) PROJECT VIABILITY:**

- a) **What specific need in the community does this project fill? Is this project referenced or incorporated in an existing maritime management, public access or comp plan?**

The project increased access to the City's Riverwalk and downtown Ft. Lauderdale. Increasing park access by water is an initiative in the City's longterm " Press Play Fort Lauderdale Strategic Plan 2018.

- b) **Clearly demonstrate how the project will continue to be maintained and funded after District funding is completed.**

Marine Structures are maintained and repaired in accord with the City's Marine Facilities Capital Improvement and Recapitalization Annual Budget.

- c) **Will the program result in significant and lasting benefits? Explain.**

Yes, the City's Downtown area and development sites along the Riverwalk are expanding and the addition of these docks will meet existing and future demand for safe and efficient day dockage for small boats in these areas.

- d) **Please describe any environmental benefits associated with this project.**

None

*(For reviewer only)*  
*(1-7 points)*

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SUB-TOTAL \_\_\_\_\_

FIND FORM NO. 91-25

Rule 66B-2.005 (Effective Date: 3-21-01, Revised 4-24-06, 1-27-14)



**ATTACHMENT E-4A  
DEVELOPMENT & CONSTRUCTION PROJECTS**

**WATERWAYS ASSISTANCE PROGRAM  
APPLICATION AND EVALUATION WORKSHEET**

THIS ATTACHMENT IS TO BE COMPLETED IF YOUR PROJECT IS A  
DEVELOPMENT OR CONSTRUCTION PROJECT BUT **IS NOT** AN INLET  
MANAGEMENT OR BEACH RENOURISHMENT PROJECT.

---

**7) PERMITTING:**

- a) **Have all required environmental permits been applied for? (USACE, DEP and WMD)  
If permits are NOT required, explain why not.**

Permits have not been applied for. This is a Phase I project.

- b) **If the project is a Phase I project, list the tasks scheduled to obtain the necessary permits and engineering work and provide a general cost estimate for the future Phase II work.**

Bathetic and environmental surveys, permit applications, Design drawings and bid document preparation.

- c) **Detail any significant impediments that may have been identified that would potentially delay the timely issuance of the required permits.**

No significant impediments are expected.

*(For reviewer only)  
(1-4 points)*

---

**8) PROJECT DESIGN:**

- a) **Has the design work been completed? If this is a Phase I project, has a preliminary design been developed?**

The design work has not been completed. A conceptual design has been discussed.

- b) **Are there unique beneficial aspects to the proposed design that enhance public usage or access, minimize environmental impacts, improve water quality or reduce costs?**

The addition of Small boat access is the benefit which expands public access to the Riverwalk and down town Fort Lauderdale.

*(For reviewer only)*

*(1-2 points)*

---

**9) CONSTRUCTION TECHNIQUES:**

- a) **Briefly explain the construction techniques to be utilized for this project. If a Phase 1, elaborate on potential techniques.**

The Docks and ADA ramps will be manufactured off site, delivered and installed. Concrete pilings will be jetted or driven to secure the docks and support ramp platforms.

- b) **How are the utilized construction techniques appropriate for the project site?**

The construction techniques are common for this type of project.

- c) **Identify any unusual construction techniques that may increase or decrease the costs of the project.**

Manufacturing off site may create savings, but piling upgrades to ICP pilings may increase costs.

*(For reviewer only)*

*(1-3 points)*

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**10) CONSTRUCTION MATERIALS:**

- a) **List the materials to be utilized for this project. What is the design life of the proposed materials compared to other available materials?**

We likely will use the same product which was used in the other floating docks installed on the river. They are Technomarine. The design life is 25 to 30 years.

- b) **Identify any unique construction materials that may significantly alter the project costs.**

The use of ICP pilings may increase the project costs.

*(For reviewer only)*  
*(1-3 points)*

---

**RATING POINT**  
**TOTAL** \_\_\_\_\_

(Note: The total maximum score possible is dependent upon the project priority category but cannot exceed 50 points unless the project qualifies as an emergency-related project. The minimum score possible is 10 points. A score of 35 points or more is required to be considered for funding.)





**ATTACHMENT E-6  
WATERWAYS ASSISTANCE PROGRAM 2017**

**PROJECT TIMELINE**

<b>Project Title:</b>	Riverwalk Floating Docks Design and Permitting Phase I
<b>Applicant:</b>	City of Fort Lauderdale

The applicant is to present a detailed timeline on the accomplishment of the components of the proposed project including, as applicable, completion dates for: permitting, design, bidding, applicant approvals, initiation of construction and completion of construction.

**NOTE: All funded activities must begin AFTER October 1<sup>st</sup>**  
(or be consistent with Rule 66B-2.005(3) - Pre-agreement expenses)

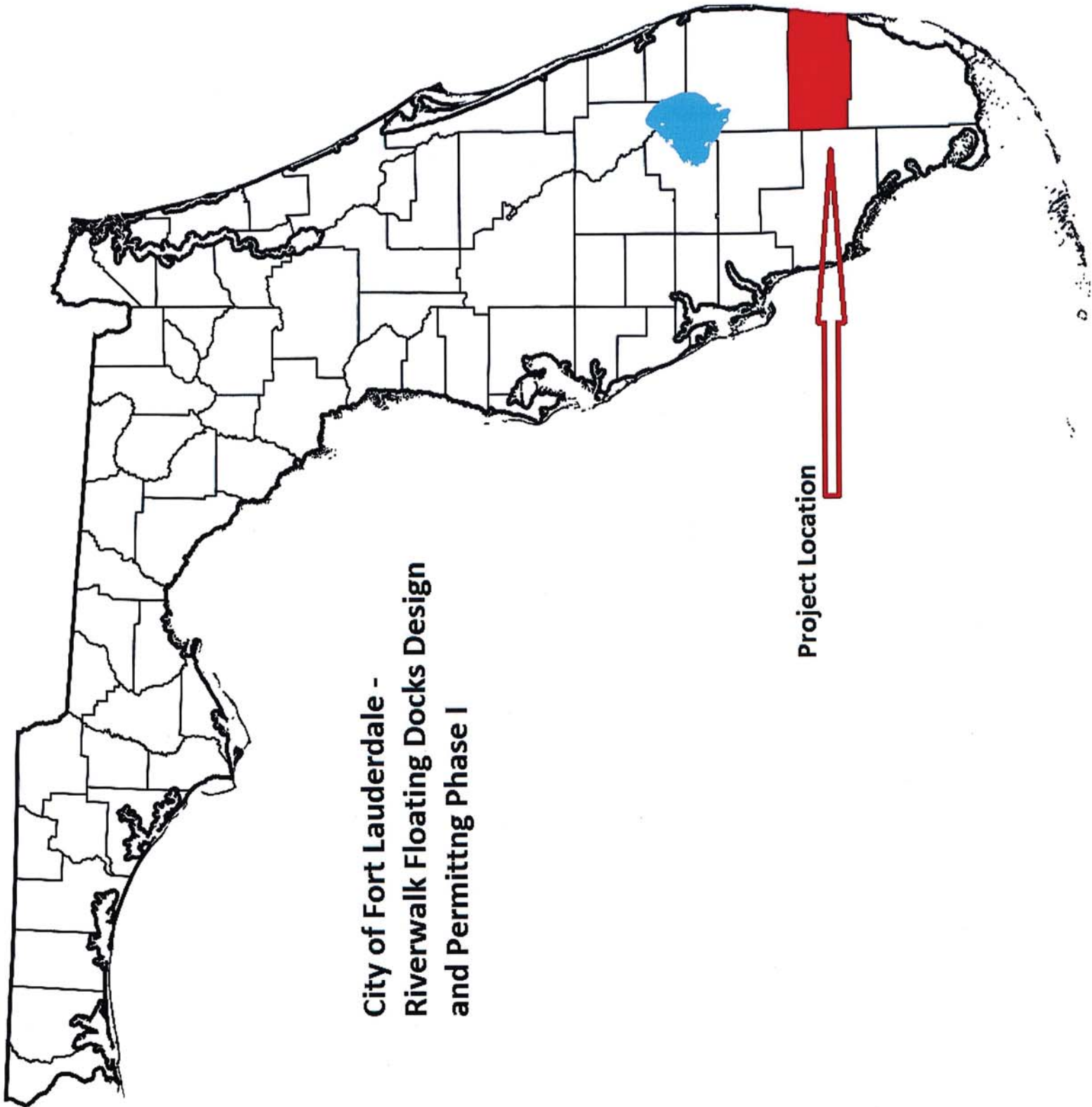
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Design:

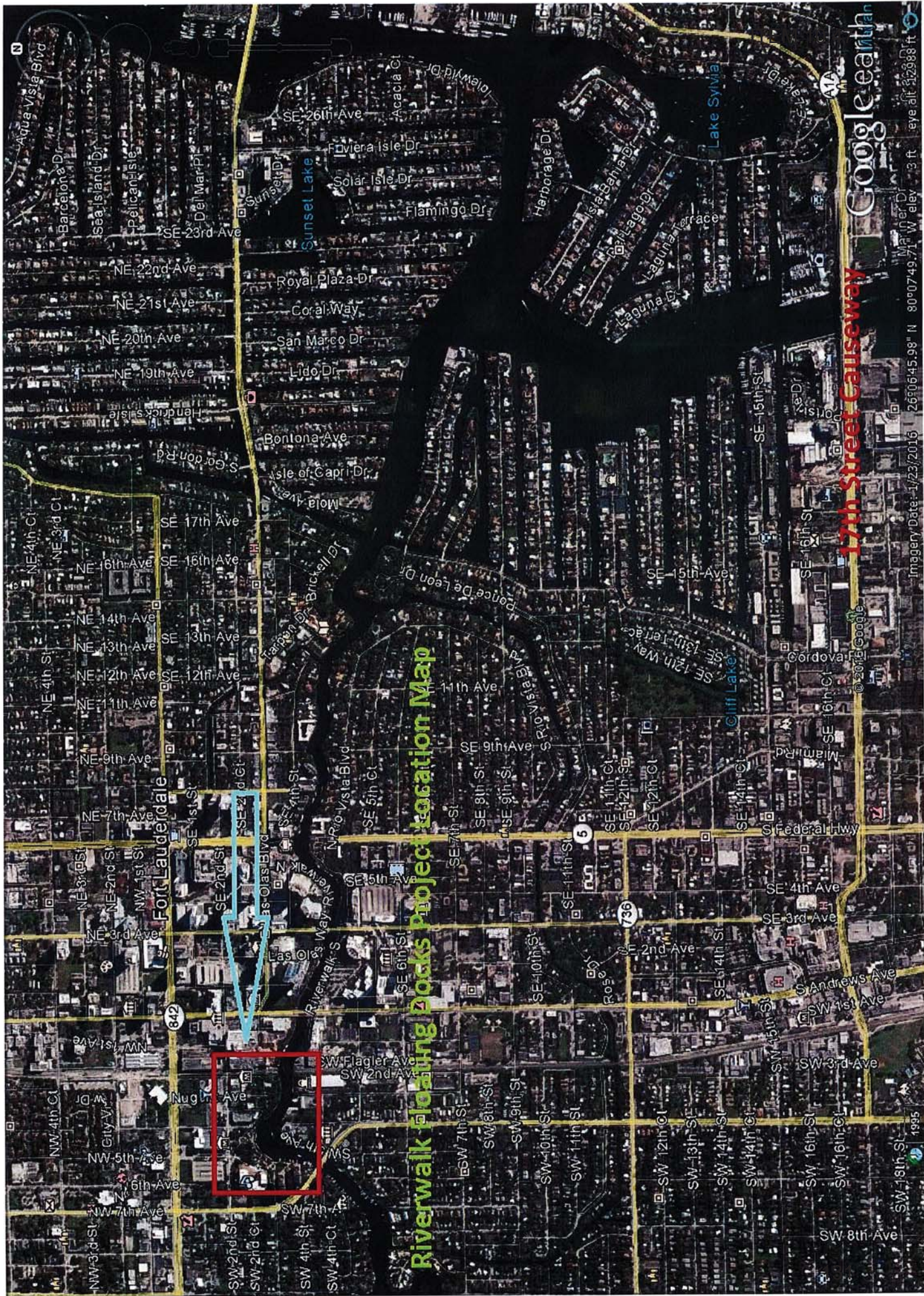
January 2018 - December 2018

Permitting:

June 2018 - May 2019







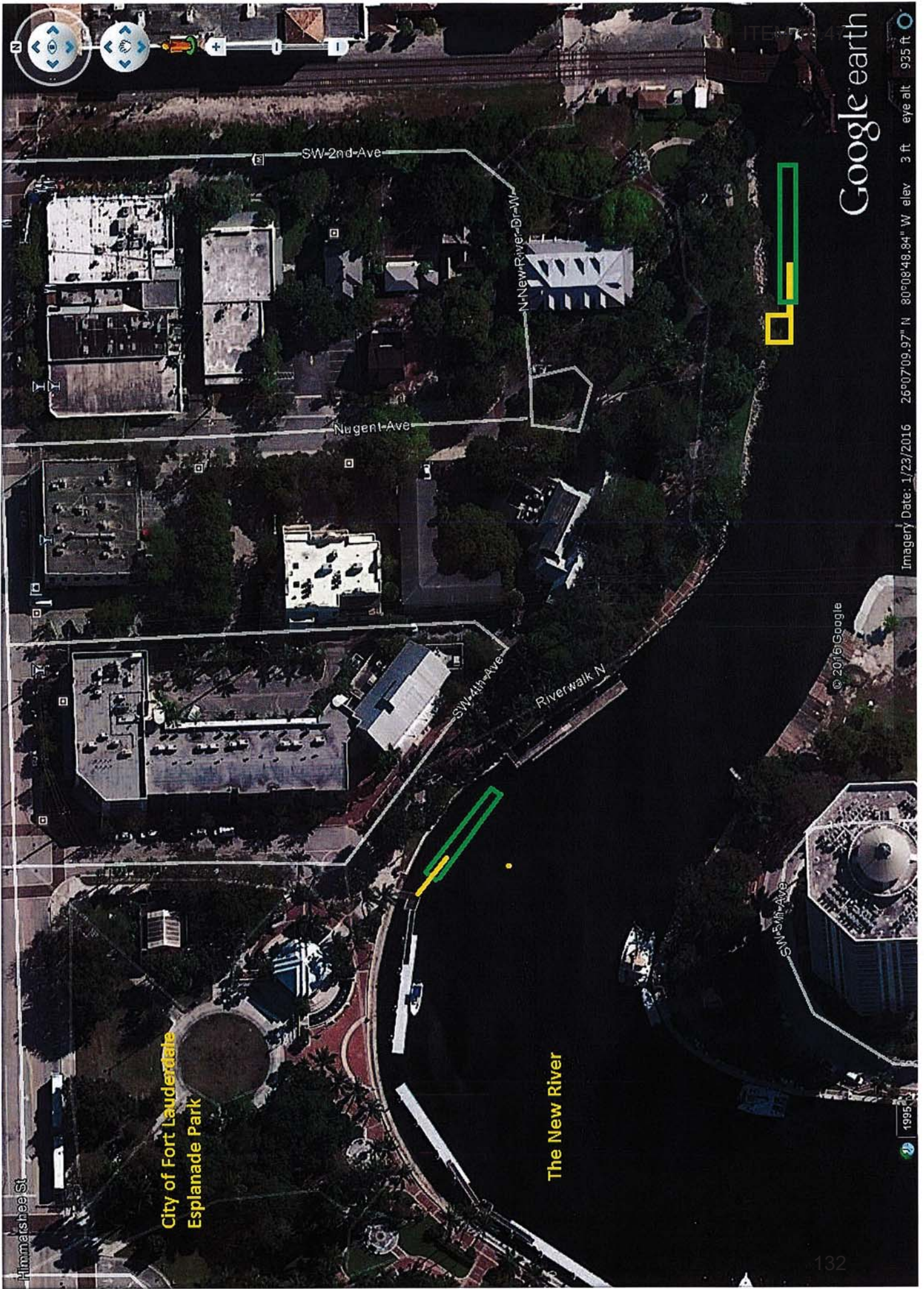
# Riverwalk Planning Docks Project Location Map

17th Street Causeway

Google earth

Imagery Date: 1/23/2016 26°06'45.98" N 80°07'49.71" W elev. 3 ft eye alt 12888 ft





Google earth

Imagery Date: 1/23/2016 26°07'09.97" N 80°08'49.84" W elev 3 ft eye alt 935 ft

© 2016 Google

1995



## ATTACHMENT E-2

**WATERWAYS ASSISTANCE PROGRAM FY 2017  
PROJECT APPLICATION  
APPLICANT INFORMATION – PROJECT SUMMARY**

<b>APPLICANT INFORMATION</b>			
<b>Applicant:</b>	City of Fort Lauderdale		
<b>Department:</b>	Fort Lauderdale Police Department		
<b>Project Title:</b>	Fort Lauderdale Police Marine Unit - Boat #20 Engine Replacement		
<b>Project Director:</b>	Todd Mills	<b>Title:</b>	Police Sergeant
<b>Project Liaison:</b> <i>(if different from Project Director)</i>	Dayna Bhaggan	<b>Title:</b>	Public Safety Grants Manager
<b>Mailing Address:</b>	1300 West Broward Boulevard		
<b>City:</b>	Fort Lauderdale	<b>Zip Code:</b>	33312
<b>Email Address:</b>	dbhaggan@fortlauderdale.gov	<b>Phone #:</b>	954-828-5284
<b>Project Address:</b>	1300 West Broward Boulevard, Fort Lauderdale FL 33312		

\*\*\*\*\* I hereby certify that the information provided in this application is true and accurate.\*\*\*\*\*

SIGNATURE:  DATE: 3/22/2017

**PROJECT NARRATIVE** (Please summarize the project in space provided below in 2 paragraphs or less.)

This project seeks to obtain 1 boat engine to replace the engine on one FLPD Marine Unit vessel which is out of warranty and has logged several hundred miles. Boat #20 has 826 hours logged on the engine that was manufactured in 1996. The boat has been out of service for some time due to the engine and its accompanying components not functioning properly. Due to the engine and components being out of warranty, the cost to repair and service them is cost prohibitive. This vessel, when operational, allows the Police Marine Unit to not only patrol the 84 miles of navigable waterways, but also makes it possible to patrol areas of the City that are not accessible in the larger vessels of the fleet, such as locations with low fixed bridges and shallower waters. As such, the proposal requests \$8,010.95 in FIND funding to be used to replace the old and malfunctioning boat engine. The City of Fort Lauderdale will meet the 50% match required of this grant by allocating \$8,010.95 in city funds from the Fort Lauderdale General Fund.



## ATTACHMENT E-3 - PROJECT INFORMATION 2017

<b>Applicant:</b>	City of Fort Lauderdale	<b>Project Title:</b>	Fort Lauderdale Police Marine Unit - Boat #20 Engine Replacement		
<b>Total Project Cost:</b>	\$ 16,021.90	<b>FIND Funding Requested:</b>	\$ 8,010.95	<b>% of Total Cost:</b>	50
<b>Amount and Source of Applicant's Matching Funds:</b>	The City of Fort Lauderdale (applicant) will meet the required 50% match of this grant by using \$8,010.95 in city funds from the Fort Lauderdale General Fund.				

1. Ownership of Project Site (check one): Own: ☐ Leased: ☐ Other: ☒

2. If leased or other, please describe lease or terms and conditions: N/A

3. Has the District previously provided assistance funding to this project or site? Yes: ☒ No: ☐

4. If yes, please list:

The City of Fort Lauderdale has received FY13 WAP funds to purchase 1 set of outboard motors; FY14 WAP funds which partially funded a set of outboard motors; FY15 funds which partially funded a set of outboard motors; and FY16 WAP funds to purchase a remote operated device for the police Dive Team.

5. What is the current level of public access in terms of the number of boat ramps, boat slips and trailer parking spaces, linear feet of boardwalk (etc.)? (as applicable):

N/A

6. How many additional ramps, slips, parking spaces or other access features will be added by this project?

N/A

7. Are fees charged for the use of this project? No ☒ Yes ☐ \*\*

\*\*If yes, please attach additional documentation of fees and how they compare with fees from similar public & private facilities in the area.

Please list all Environmental Resource Permits required for this project:

AGENCY	Yes / No / N/A	Date Applied For	Date Received
WMD	N/A		
DEP	N/A		
ACOE	N/A		
COUNTY / CITY	N/A		

## ATTACHMENT E-4

**WATERWAYS ASSISTANCE PROGRAM  
APPLICATION AND EVALUATION WORKSHEET**

DIRECTIONS: All applicants will complete questions 1 through 6, and then based on the type of project, complete one and only one subsection (E-4A, B, C, D or E) for questions 7-10.

**\*\*Please keep your answers brief and do not change the pagination of Attachment E-4\*\***

All other sub-attachments that are not applicable to an applicant's project should not be included in the submitted application.

<b>Project Title:</b>	<b>Fort Lauderdale Police Marine Unit - Boat #20 Engine Replacement</b>
<b>Applicant:</b>	<b>City of Fort Lauderdale</b>

---

**1) PRIORITY LIST:**

- a) **Denote the priority list category of this project from Attachment C in the application.** (The application may only be of one type based upon the predominant cost of the project elements.)

#14 Waterway boating safety programs and equipment

- b) **Explain how the project fits this priority category.**

This project seeks funding to assist the Fort Lauderdale Police Department Marine Unit in acquisition of 1 boat engine to replace the engine on FLPD Marine Unit vessel #12. Acquiring the new engine will result in this vessel returning to operation for use in waterway patrols.

Vessel #20

*(For reviewer only)*

Max. Available Score for application 44

Question 1. Range of Score (1 to 2 points)

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**2) WATERWAY RELATIONSHIP:**

- a) Explain how the project relates to the ICW and the mission of the Navigation District.**

This project relates to FIND's mission by supporting the City of Fort Lauderdale's Police Department's ability to provide routine law enforcement patrols and a safe environment for citizens and visitors utilizing the ICW's rights of way and those of its adjoining waterways.

- b) What public access or navigational benefit to the ICW or adjoining waterway will result from this project?**

The project supports the ability to conduct marine law enforcement patrols which helps to ensure the maintenance of safe and navigable ICW and adjoining waterways.

*(For reviewer only)*  
*(1-6 points)*

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**3) PUBLIC USAGE & BENEFITS:**

- a) How is the public usage of this project clearly identified and quantified? Estimate the amount of total public use.**

The requested outboard engine will ensure the FLPD's ability to provide reliable daily marine law enforcement patrols. In fiscal year 2015/2016, the Fort Lauderdale Police Marine Unit performed approximately 15,090 patrol hours along our jurisdictional waterways. The Marine Unit maintains daily logs of the number of public contacts, safety inspections, accidents, citation issued and other quantifiable public safety services that are provided to the boating public along the ICW and its adjoining waterways. The requested engine will be used an estimated 550-650 hours annually.

- b) Discuss the regional and local public benefits that will be provided by the project. Can residents from other counties of the District reasonably access and use the project? Explain.**

The requested outboard engine will ensure FLPD's ability to provide reliable marine law enforcement patrols on a daily basis, which benefits both residents and visitors to the City of Fort Lauderdale and the Broward County region. The patrols include providing written and verbal boater education information and boater assistance; conducting boating safety inspections, marine law enforcement and marine accident investigations. Additionally, the Marine Unit will maintain a presence during holidays (e.g. Fourth of July) and major events such as the International Boat Show, the Winterfest Boat Parade and Tortuga Music Festival.



**c) Are there any restrictions placed on commercial access or use of this site?**

N/A. The vessel can only be used by FLPD personnel authorized to conduct marine patrols.

*(For reviewer only)*

*(1-8 points)*

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#### 4) TIMELINESS

- a) **Describe current status of the project and present a reasonable and effective timeline for the completion of the project consistent with Attachment E-6.**

Boat #20 is currently out of service. If this project is awarded funding, our agency anticipates that the project will involve the following timeline:

**2017 Nov-Dec:** City Commission approves FIND grant agreement.

**2018 Jan – Feb:** FIND grant agreement is fully executed by all parties.

**2018 Mar-Apr:** City Procurement prepares and issues purchase order for the boat engine.

**2018 May:** Boat engine is installed on Boat #20.

**2018 June:** Project is completed and closeout documents are submitted to FIND.

- b) **Briefly explain any unique aspects of this project that could influence the project timeline.**

FLPD does not anticipate any unique circumstances that would negatively impact the anticipated project timeline.

*(For reviewer only)*

*(1-3 points)*

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#### 5) COSTS & EFFICIENCY:

- a) **List funding sources and the status and amount of the corresponding funding that will be utilized to complete this project.**

The proposal seeks to fund 50% of the cost of 1 set of boat motors. The City of Fort Lauderdale will match the balance of the cost via the use of the City's General Fund. During the March 21<sup>st</sup> meeting, the Fort Lauderdale City Commission formally approved a motion to dedicate the required matching funds should this project proposal be successful.

- b) **Identify and describe any project costs that may be increased because of the materials utilized or specific site conditions.**

The project cost was based on the cost of one boat engine that was quoted in late 2016. It is not anticipated that the cost of the engine will change. However, should that occur, the City of Fort Lauderdale will absorb any cost increases.

- c) **Describe any methods to be utilized to increase the cost efficiency of this project.**

The project cost was based on the cost estimate of one boat engine that was quoted in late 2016. Before a purchase order is issued, City Procurement policy will require that staff obtain bids for the boat engine or acquire the item via a government contract in order to ensure the best price is obtained. The City will also pursue the option of accepting a trade-in allowance for the existing engine.

- d) If there are any fees associated with the use of this facility, please detail. In addition, please provide a listing of the fees charged by similar facilities, public and private, in the project area.**

N/A

*(For reviewer only)*  
*(1-6 points)*

---



**6) PROJECT VIABILITY:**

- a) **What specific need in the community does this project fill? Is this project referenced or incorporated in an existing maritime management, public assess or comp plan?**

This project will help to ensure a safe and secure environment for citizens and visitors utilizing the ICW and its adjoining waterways. This is in alignment with the City's long-term strategic plan – ***Fast Forward Fort Lauderdale*** - specifically *Goal 3: Be a community that finds opportunities and leverages partnerships to create unique, inviting and connected gathering places that highlight our beaches, waterways, urban areas and parks.*

- b) **Clearly demonstrate how the project will continue to be maintained and funded after District funding is completed.**

Each year the City of Fort Lauderdale enters into an annual maintenance agreement with a local marine vendor to provide maintenance on all marine vessels and outboard motors. As a result, the newly acquired boat engine will be routinely serviced and maintained.

- c) **Will the program result in significant and lasting benefits? Explain.**

Yes. The new boat engine is expected to be used over a 5 year period. Thus, this project will contribute to the immediate and long-term safety of persons that visit the ICW and surrounding waterways through the provision of routine and reliable law enforcement patrols.

- d) **Please describe any environmental benefits associated with this project.**

The deployment of this newer and more efficient boat engine will have a lower impact on air and water quality, as well as reduced noise impact than that of the existing 20+ year old outboard engine that is being replaced.

*(For reviewer only)*  
*(1-7 points)*

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SUB-TOTAL \_\_\_\_\_

**ATTACHMENT E-4C  
LAW ENFORCEMENT & BOATING SAFETY PROJECTS**

**WATERWAYS ASSISTANCE PROGRAM  
APPLICATION AND EVALUATION WORKSHEET**

THIS ATTACHMENT IS TO BE COMPLETED IF YOUR PROJECT IS A LAW  
ENFORCEMENT OR BOATING SAFETY PROJECT

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**7) VIABILITY:**

- c) Describe how the project will address particular public health, safety, or welfare issues of the Navigation District's Waterways.**

The requested outboard engine will provide the FLPD Marine Unit with the equipment needed to continue providing a safe environment for boaters and other recreational users of the Florida Inland Navigation District's waterways. This will be accomplished through the provision of routine law enforcement activities such as detection and apprehension of impaired boaters or those who do not obey posted navigation signs; thereby protecting the health, safety and welfare of the boating public. They will also enhance the safety of the public thru the provision of boater education, boater assistance and boating safety inspections.

- d) How does the project provide significant benefits or enhancements to the District's Waterways?**

Boat #20 is the only vessel in FLPD's marine fleet that can access restricted areas such as below low fixed bridges and shallow depths. The requested outboard engine will provide the FLPD Marine Unit with the equipment needed to continue providing a safe environment for boaters and other recreational users of the Navigation District's waterways. This will be accomplished through the provision of routine law enforcement activities such as detection and apprehension of impaired boaters or those who do not obey posted navigation signs; thereby protecting the health, safety and welfare of the boating public. They will also enhance the safety of the public thru the provision of boater education, boater assistance and boating safety inspections.

*(For reviewer only)  
(1-3 points)*

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**8) EXPERIENCE & QUALIFICATIONS:**

- a) **List the personnel tasked with the implementation of this project, their qualifications, previous training and experience.**

**Sergeant Todd Mills:** Sgt Mills has been the supervisor of the Marine Unit for four years. He will serve as the project director for the FIND grant and will liaise with the Grants Manager (see below) and City Procurement in order to comply with the requirements of the grant if funded.

**Dayna Bhaggan:** Ms. Bhaggan is a Certified Grant Specialist and is responsible for all programmatic reporting and reimbursement requests associated with this grant.

- b) **Have the personnel participated in or received state marine law enforcement training?**

Sergeant Mills has supervised the FLPD Marine Unit for four years. He has completed the training required to be a vessel operator and has completed a 40-hour Marine Law Enforcement Tactics Class. Furthermore, he is a member of the department's Waterborne Response Team and is a certified U.S. Customs Crew Member.

*(For reviewer only)*  
*(1-2 points)*

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**9) DELIVERABLES:**

- a) **Describe the anticipated, long-term measurable results of implementing this project.**

By implementing this project, FLPD will be able to perform enforcement activities along the ICW and adjoining waterways seven days a week.

- b) **What is the range or area of coverage for this project? Please provide a map of the coverage area.**

FLPD patrols the ICW from Port Everglades north to Port Royal (6400 North ICW), including all adjoining waterways (see attached map).



**c) Does the project fulfill a particular community need?**

Through the administration of this project, the public will benefit from the Marine Unit's ability to provide daily law enforcement services on the ICW, which enhances the safety of all persons that utilize the waterways and also increases boater education/awareness of marine laws.

*For reviewer only)*  
*(1-4 points)*

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**10) EDUCATION:****a) What are the educational benefits (if any) of this proposed project?**

As a result of the acquisition of the outboard engine for Boat #20, boater safety will be enhanced as the Marine Unit will be able perform daily routine law enforcement patrols of the ICW and adjoining waterways. As a part of these patrols, Marine Officers issue citations and warning, conduct vessel stops and inspections, respond to accidents and initiate citizen contacts. All of these instances allow for boater education.

**b) How does the project or program provide effective public boating education or expand boater safety?**

As a result of the acquisition of the outboard engine for Boat #20, boater safety will be enhanced as the Marine Unit will be able perform daily routine law enforcement patrols of the ICW and adjoining waterways. As a part of these patrols, Marine Officers issue citations and warnings, conduct vessel stops and inspections, respond to accidents and initiate citizen contacts. All of these instances allow for boater education.

*(For reviewer only)*  
*(1 -3 points)*

---

**RATING POINT  
TOTAL** \_\_\_\_\_

(Note: The total maximum score possible is dependent upon the project priority category but cannot exceed 50 points unless the project qualifies as an emergency-related project. The minimum score possible is 10 points. A score of 35 points or more is required to be considered for funding.)





**ATTACHMENT E-6  
WATERWAYS ASSISTANCE PROGRAM 2017**

**PROJECT TIMELINE**

<b>Project Title:</b>	<b>Fort Lauderdale Police Department Marine Unit – Boat #12 Engine Replacement #20</b>
<b>Applicant:</b>	<b>City of Fort Lauderdale</b>

The applicant is to present a detailed timeline on the accomplishment of the components of the proposed project including, as applicable, completion dates for: permitting, design, bidding, applicant approvals, initiation of construction and completion of construction.

**NOTE: All funded activities must begin AFTER October 1<sup>st</sup>**  
(or be consistent with Rule 66B-2.005(3) - Pre-agreement expenses)

---

**2017 Nov-Dec:** City Commission approves FIND grant agreement.

**2018 Jan – Feb:** FIND grant agreement is fully executed by all parties.

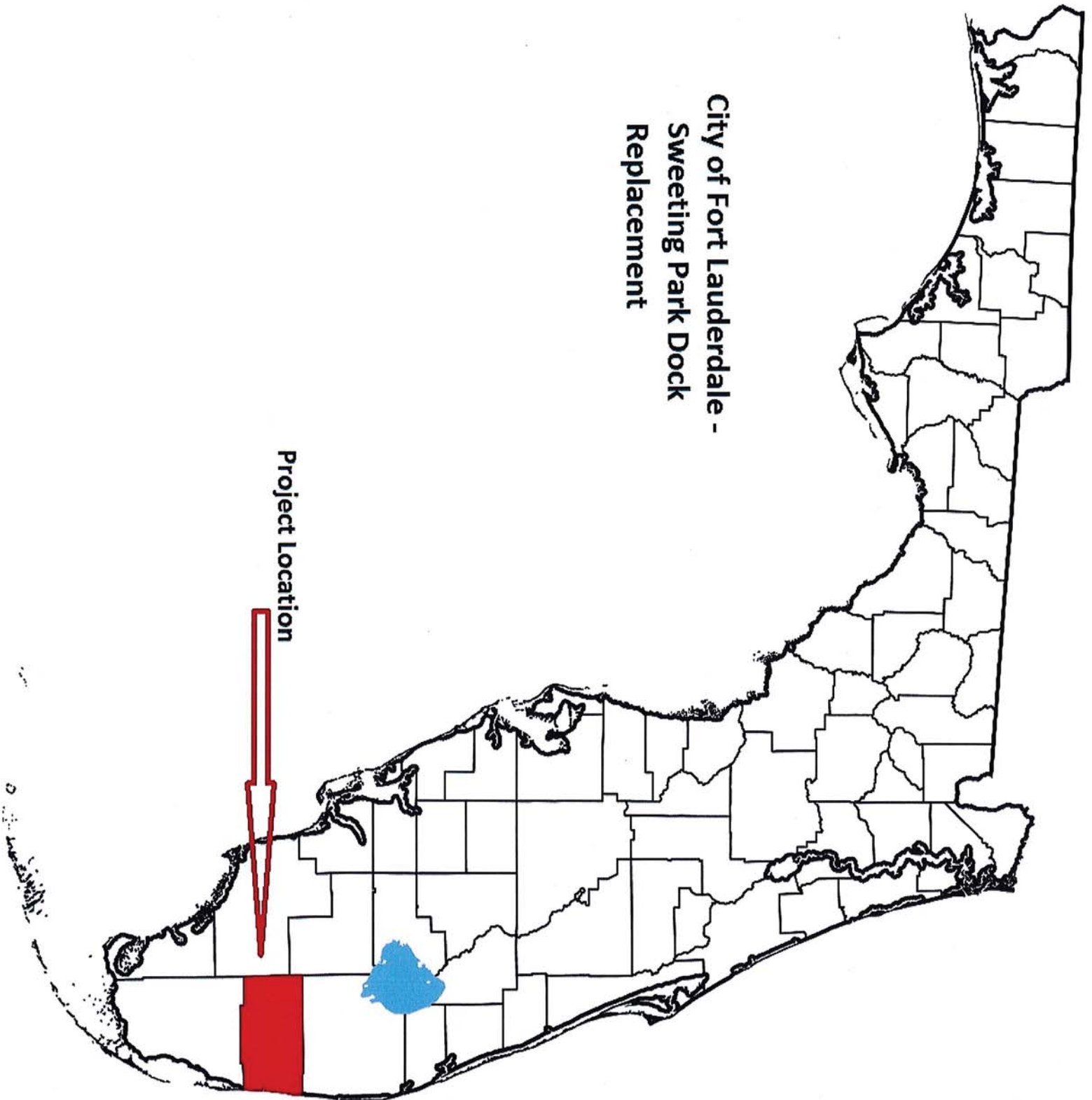
**2018 Mar - Apr:** City Procurement prepares and issues purchase order for the boat engine.

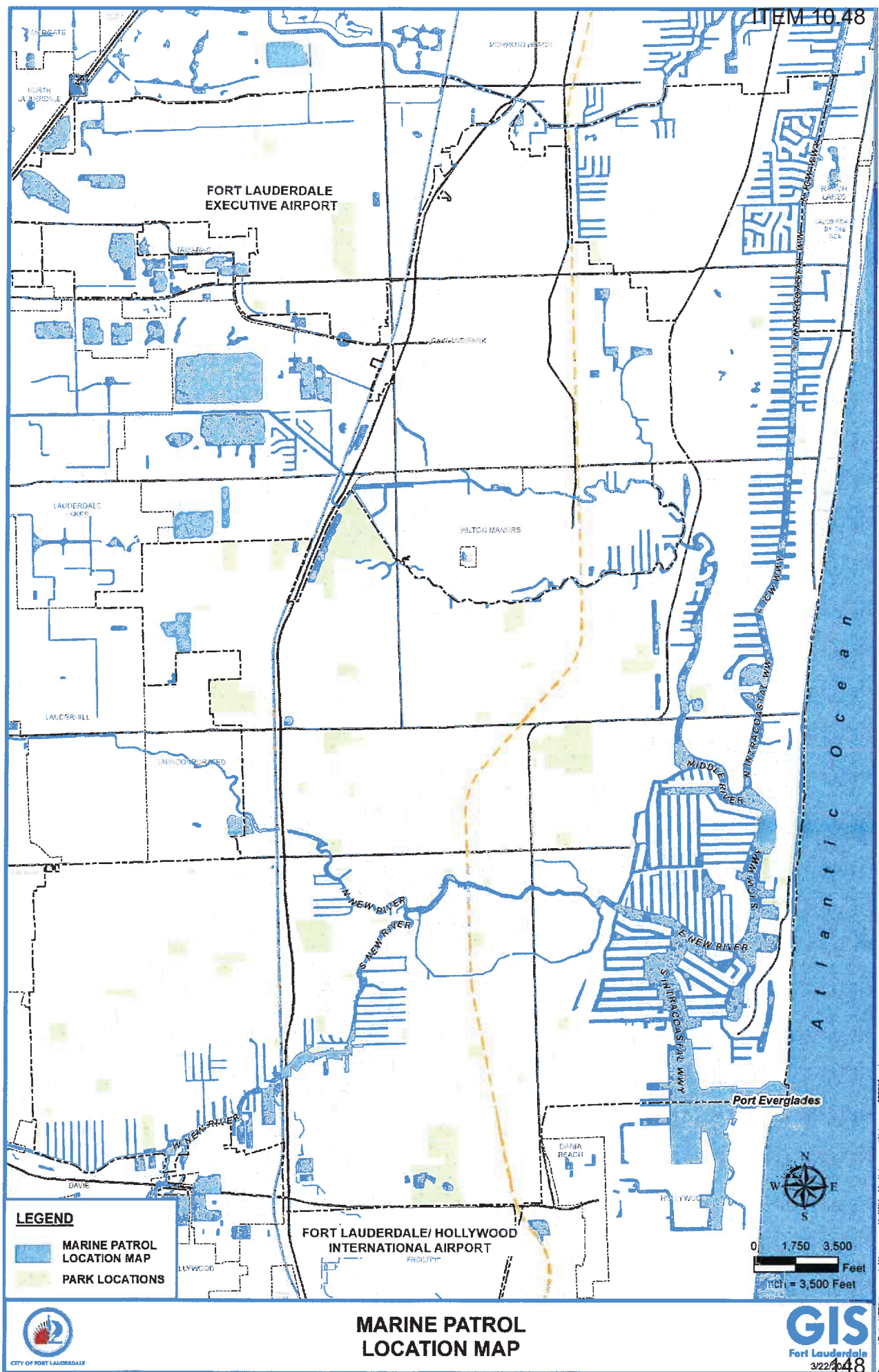
**2018 May:** Boat engine is installed on Boat #20.

**2018 June:** Project is completed and closeout documents are submitted to FIND.

**City of Fort Lauderdale -  
Sweeting Park Dock  
Replacement**

**Project Location**







## ATTACHMENT E-2

**WATERWAYS ASSISTANCE PROGRAM FY 2017  
PROJECT APPLICATION  
APPLICANT INFORMATION – PROJECT SUMMARY**

APPLICANT INFORMATION			
<b>Applicant:</b>	City of Fort Lauderdale		
<b>Department:</b>	Parks and Recreation		
<b>Project Title:</b>	Bahia Mar Yachting Center Phase II Dredging		
<b>Project Director:</b>	Lee R. Feldman	<b>Title:</b>	City Manager
<b>Project Liaison:</b> <i>(if different from Project Director)</i>	Jonathan Luscomb	<b>Title:</b>	Supervisor of Marine Facilities
<b>Mailing Address:</b>	2 South New River Drive East - Suite 10		
<b>City:</b>	Fort Lauderdale, FL	<b>Zip Code:</b>	33301
<b>Email Address:</b>	jluscomb@fortlauderdale.gov	<b>Phone #:</b>	954-828-5343
<b>Project Address:</b>	801 Sea Breeze Blvd., Fort Lauderdale, FL 33316		

\*\*\*\*\* I hereby certify that the information provided in this application is true and accurate.\*\*\*\*\*

SIGNATURE: \_\_\_\_\_



DATE: \_\_\_\_\_

3.24.17

**PROJECT NARRATIVE** (Please summarize the project in space provided below in 2 paragraphs or less.)

The Florida Inland Navigation District is very near completing its dredging of the Intracoastal Waterway (ICW) in Fort Lauderdale to a depth of 15'-17' at Mean Low Water (MLW). This project is for the specific purpose of maintaining depth consistency from the Intracoastal Waterway to the Bahia Mar Yachting Center.

The planned area will be dredged to a MLW depth of 15' to 17' and will include both a City owned submerged land area and a state owned submerged sovereign land area located between the ICW channel and the face dock of the Bahia Mar Yachting Center. The permitting process for this project is nearly complete.

## ATTACHMENT E-3 - PROJECT INFORMATION 2017

<b>Applicant:</b>	City of Fort Lauderdale		<b>Project Title:</b>	Bahia Mar Yachting Center Phase II Dred	
<b>Total Project Cost: \$</b>	\$3,000,000	<b>FIND Funding Requested: \$</b>	\$2,024,578 (71%)	<b>% of Total Cost:</b>	\$890,368 (29%)
<b>Amount and Source of Applicant's Matching Funds:</b>	City of Fort Lauderdale F/Y 2018 Community Redevelopment Agency Budget: \$890,368				

1. Ownership of Project Site (check one): Own: ☒ Leased: ☐ Other: ☐

2. If leased or other, please describe lease or terms and conditions:

The City Owns Bahia Mar

3. Has the District previously provided assistance funding to this project or site? Yes: ☒ No: ☐

4. If yes, please list:

BR-FL-15-115

5. What is the current level of public access in terms of the number of boat ramps, boat slips and trailer parking spaces, linear feet of boardwalk (etc.)? (as applicable):

Bahia Mar has 240 Slips ranging in size from 30' to over 200' and features a linear face dock measuring approximately 1500 feet. The slips are open to the public.

6. How many additional ramps, slips, parking spaces or other access features will be added by this project?

No slips or or additional parking will be added, however by deepening the face dock area of the marina access by larger and deeper draft yachts will be expanded.

7. Are fees charged for the use of this project? No ☐ Yes ☒ \*\*

\*\*If yes, please attach additional documentation of fees and how they compare with fees from similar public & private facilities in the area.

Please list all Environmental Resource Permits required for this project:

AGENCY	Yes / No / N/A	Date Applied For	Date Recieved
WMD	Y	10/23/2015	
DEP	Y	10/23/2015	
ACOE	Y	10/23/2015	
COUNTY / CITY	Y	10/23/2015	July 2016

## ATTACHMENT E-4

**WATERWAYS ASSISTANCE PROGRAM  
APPLICATION AND EVALUATION WORKSHEET**

**DIRECTIONS:** All applicants will complete questions 1 through 6, and then based on the type of project, complete one and only one subsection (E-4A, B, C, D or E) for questions 7-10.

**\*\*Please keep your answers brief and do not change the pagination of Attachment E-4 \*\***

All other sub-attachments that are not applicable to an applicant's project should not be included in the submitted application.

<b>Project Title:</b>	Bahia Mar Yachting Center Phase II Dredging
<b>Applicant:</b>	City of Fort Lauderdale

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**1) PRIORITY LIST:**

- a) Denote the priority list category of this project from Attachment C in the application.** (The application may only be of **one** type based upon the predominant cost of the project elements.)

Number 8: Acquisition, dredging, shoreline stabilization and development of public boat docking and mooring facilities

- b) Explain how the project fits this priority category.**

This project is for the specific purpose of maintaining depth consistency from the Intracoastal Waterway to the Bahia Mar Yachting Center. It will enable deep draft vessels to safely leave the channel and enter Bahia Mar.

*(For reviewer only)*

Max. Available Score for application     47

Question 1. Range of Score    (1 to 5 points)

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**2) WATERWAY RELATIONSHIP:**

- a) Explain how the project relates to the ICW and the mission of the Navigation District.**

The Bahia Yachting Center is adjacent to the ICW. Creating destinations for larger boats in Fort Lauderdale will enhance FIND's mission of acting as a local sponsor aiding a municipality with the expansion, maintenance and navigability of the ICW.

- b) What public access or navigational benefit to the ICW or adjoining waterway will result from this project?**

Dredging to connect Bahia Mar to the deepened ICW provides added area access for larger/deep draft vessels to visit Fort Lauderdale. Added waterway access will enhance the area's local and marine industry economies.

*(For reviewer only)*  
*(1-6 points)*

---

**3) PUBLIC USAGE & BENEFITS:**

- a) How is the public usage of this project clearly identified and quantified? Estimate the amount of total public use.**

Boaters from all of the District's 12 counties as well as transient boaters from around the world use the Bahia Mar Yachting Center. This facility accommodates a majority of the in water portion of the Fort Lauderdale International Boat Show, the largest drawing public event held within the City.

- b) Discuss the regional and local public benefits that will be provided by the project. Can residents from other counties of the District reasonably access and use the project? Explain.**

The 240 slips within this facility are accessible to the regional local public in the form of dockage for the full range of dockage lengths of stay. The project will benefit the local area

- c) Are there any restrictions placed on commercial access or use of this site?**

No

*(For reviewer only)*  
*(1-8 points)*

---

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#### 4) TIMELINESS

- a) **Describe current status of the project and present a reasonable and effective timeline for the completion of the project consistent with Attachment E-6.**

Broward County and Florida Dept of Envir.I Protection have issued their permits. We are awaiting the U.S. Army Corps. permit which is the last permit. They are currently in consultation with National Marine Fisheries Service and U.S. Fish and Wildlife. The project start date will be January 2018 and estimated construction completion date of June 2018.

- b) **Briefly explain any unique aspects of this project that could influence the project timeline.**

Determining the location for the type of spoil materials as part of the permitting process could take additional time due to environmental reviews given the magnitude of the ICW deepening project. It is anticipated that the same spoil site used for the ICW dredging project will be used since they are similar in design and scope and potentially will be included as part of the same bid. Mitigation planning could also influence the project time line.

*(For reviewer only)*

*(1-3 points)*

---

#### 5) COSTS & EFFICIENCY:

- a) **List funding sources and the status and amount of the corresponding funding that will be utilized to complete this project.**

Match: City of Fort Lauderdale - CRA FY 2018 CIP budget appropriation - \$890,368

- b) **Identify and describe any project costs that may be increased because of the materials utilized or specific site conditions.**

Potential cost increase due to the amount and method of spoil material disposal and its test results in accord with the environmental permit, type and quantity of sediment or rock to be removed, and distance of disposal site are primary factors affecting cost.

- c) **Describe any methods to be utilized to increase the cost efficiency of this project.**

None

- d) **If there are any fees associated with the use of this facility, please detail. In addition, please provide a listing of the fees charged by similar facilities, public and private, in the project area.**

See the attached fee schedule for the Bahia Mar Yachting Center and surrounding facilities.

*(For reviewer only)*

*(1-6 points)*

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**6) PROJECT VIABILITY:**

- a) **What specific need in the community does this project fill? Is this project referenced or incorporated in an existing maritime management, public assess or comp plan?**

The project will benefit both residents and the marine community as the Bahia Mar Yachting is utilized for public dockage for mega yachts and for the staging of Fort Lauderdale International Boat Show. Creating deep water access will increase the numbers of Mega Yachts visiting Fort Lauderdale and significantly add to the positive economic impacts that Mega Yachts have on Ft. Lauderdale.

- b) **Clearly demonstrate how the project will continue to be maintained and funded after District funding is completed.**

As this project is a public private partnership between the City and its tenant Rahn Bahia Mar, maintenance will be performed as needed.

- c) **Will the program result in significant and lasting benefits? Explain.**

There will be a significant and lasting benefit to navigation from this project considering the depth of 15'-17' MLW. The project will have a positive effect on economic and long range benefits, associated environmental factors and future demand for mega yachts. The project goal is to insure the safe transport of large vessel access for up to 20 years without any negative impact to the environment.

- d) **Please describe any environmental benefits associated with this project.**

It is expected that that minimal environmental impacts will occur at these sites. A conceptual mitigation plan has been accepted showing minimal sea grass impacts of 227 sf. Minimization of impacts were accomplished by avoiding areas with sea grasses.

*(For reviewer only)*  
*(1-7 points)*

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SUB-TOTAL \_\_\_\_\_

FIND FORM NO. 91-25

Rule 66B-2.005 (Effective Date: 3-21-01, Revised 4-24-06, 1-27-14)



**ATTACHMENT E-4A  
DEVELOPMENT & CONSTRUCTION PROJECTS**

**WATERWAYS ASSISTANCE PROGRAM  
APPLICATION AND EVALUATION WORKSHEET**

THIS ATTACHMENT IS TO BE COMPLETED IF YOUR PROJECT IS A  
DEVELOPMENT OR CONSTRUCTION PROJECT BUT IS NOT AN INLET  
MANAGEMENT OR BEACH RENOURISHMENT PROJECT.

**7) PERMITTING:**

- a) Have all required environmental permits been applied for? (USACE, DEP and WMD)  
If permits are NOT required, explain why not.**

Yes, Broward County and Florida Department of Environmental Protection have issued their permits. We are awaiting the U.S. Army Corps. permit which is the last permit. They are currently in consultation with National Marine Fisheries Service and U.S. Fish and Wildlife. Once they receive their approvals, the Corps will be able to draft the permit.

- b) If the project is a Phase I project, list the tasks scheduled to obtain the necessary permits and engineering work and provide a general cost estimate for the future Phase II work.**

N/A

- c) Detail any significant impediments that may have been identified that would potentially delay the timely issuance of the required permits.**

None are anticipated

*(For reviewer only)  
(1-4 points)*

---

**8) PROJECT DESIGN:**

- a) **Has the design work been completed? If this is a Phase I project, has a preliminary design been developed?**

Yes, design work is complete.

- b) **Are there unique beneficial aspects to the proposed design that enhance public usage or access, minimize environmental impacts, improve water quality or reduce costs?**

The most notable aspect to this project is the creation of public deep-water access to areas which have not had and to provide opportunities for positive economic impacts like the expansion of the Fort Lauderdale International Boat Show and increasing the number of mega yachts visiting Ft. Lauderdale.

*(For reviewer only)*

*(1-2 points)*

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**9) CONSTRUCTION TECHNIQUES:**

- a) **Briefly explain the construction techniques to be utilized for this project. If a Phase 1, elaborate on potential techniques.**

Mechanical Dredging Techniques with a spoil barge will be used.

- b) **How are the utilized construction techniques appropriate for the project site?**

The method is consistent with the method utilized by FIND to dredge the ICW.

- c) **Identify any unusual construction techniques that may increase or decrease the costs of the project.**

N/A

*(For reviewer only)*

*(1-3 points)*

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**10) CONSTRUCTION MATERIALS:**

- a) List the materials to be utilized for this project. What is the design life of the proposed materials compared to other available materials?

The dredge plan is designed to a life expectancy of 20 years.

- b) Identify any unique construction materials that may significantly alter the project costs.

N/A

*(For reviewer only)*  
*(1-3 points)*

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**RATING POINT  
TOTAL** \_\_\_\_\_

(Note: The total maximum score possible is dependent upon the project priority category but cannot exceed 50 points unless the project qualifies as an emergency-related project. The minimum score possible is 10 points. A score of 35 points or more is required to be considered for funding.)

Form No. 91-25A  
Rule 66B-2.005 (Effective Date: 3-21-01, revised 4-24-06, 1-27-14)



## ATTACHMENT E-5

FLORIDA INLAND NAVIGATION DISTRICT  
ASSISTANCE PROGRAM 2017

## PROJECT COST ESTIMATE

(See Rule Section 66B-2.005 & 2.008 for eligibility and funding ratios)

<b>Project Title:</b>	Bahia Mar Yachting Center Phase II Dredging
<b>Applicant:</b>	City of Fort Lauderdale

<b>Project Elements</b> <i>(Please list the MAJOR project elements and provide general costs for each one. For Phase I Projects, please list the major elements and products expected)</i>	<b>Quantity or Total Estimated Cost</b> <i>(Number and/or Footage etc.)</i>	<b>Applicant's Cost</b>	<b>FIND Cost</b>
Phase II – Constriction/Dredging to a consistent depth an area adjacent to the Bahia Mar Yachting Center and the recently deepened Intracoastal Waterway.			
Mobilization			
Dredging			
Spoil Site			
City owned Area: 11,755 Cu. Yds.			
50 / 50 split	\$646,525	\$323,263	\$323,263
ICW Access Area: 41,244 cu. yds.			
25 / 75 split	\$2,268,420	\$567,105	\$1,701,315

<b>**TOTALS =</b>	<b>\$ 2,914,945</b>	<b>\$ 890,368</b>	<b>\$ 2,024,578</b>
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**ATTACHMENT E-6  
WATERWAYS ASSISTANCE PROGRAM 2017**

**PROJECT TIMELINE**

<b>Project Title:</b>	Bahia Mar Yachting Center Phase II Dredging
<b>Applicant:</b>	City of Fort Lauderdale

The applicant is to present a detailed timeline on the accomplishment of the components of the proposed project including, as applicable, completion dates for: permitting, design, bidding, applicant approvals, initiation of construction and completion of construction.

**NOTE: All funded activities must begin AFTER October 1<sup>st</sup>**  
(or be consistent with Rule 66B-2.005(3) - Pre-agreement expenses)

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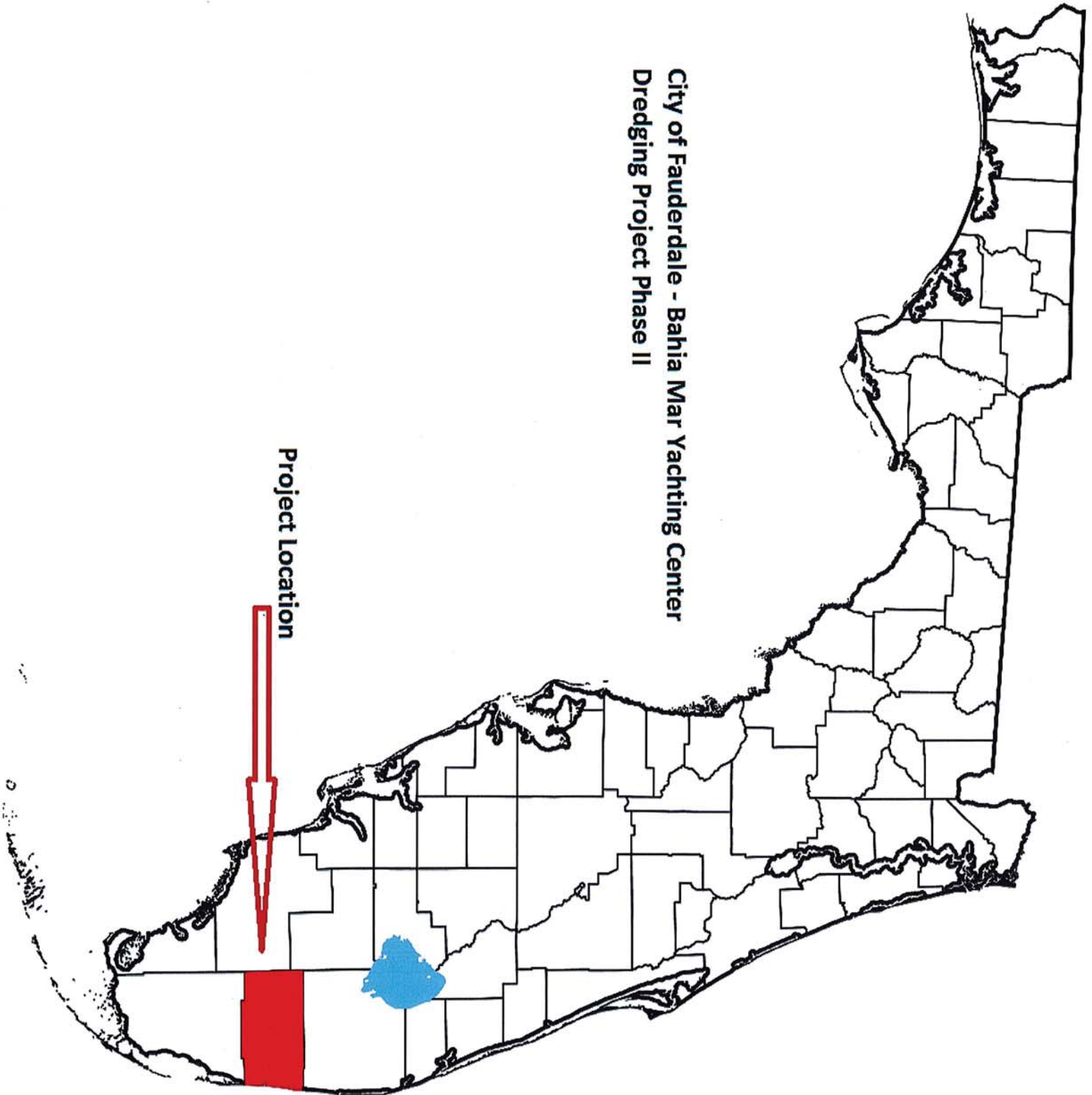
Estimated Project commencement: January 2018

Estimated Project completion: June 2018



**City of Fauderdale - Bahia Mar Yachting Center  
Dredging Project Phase II**

**Project Location**





# City of Fort Lauderdale

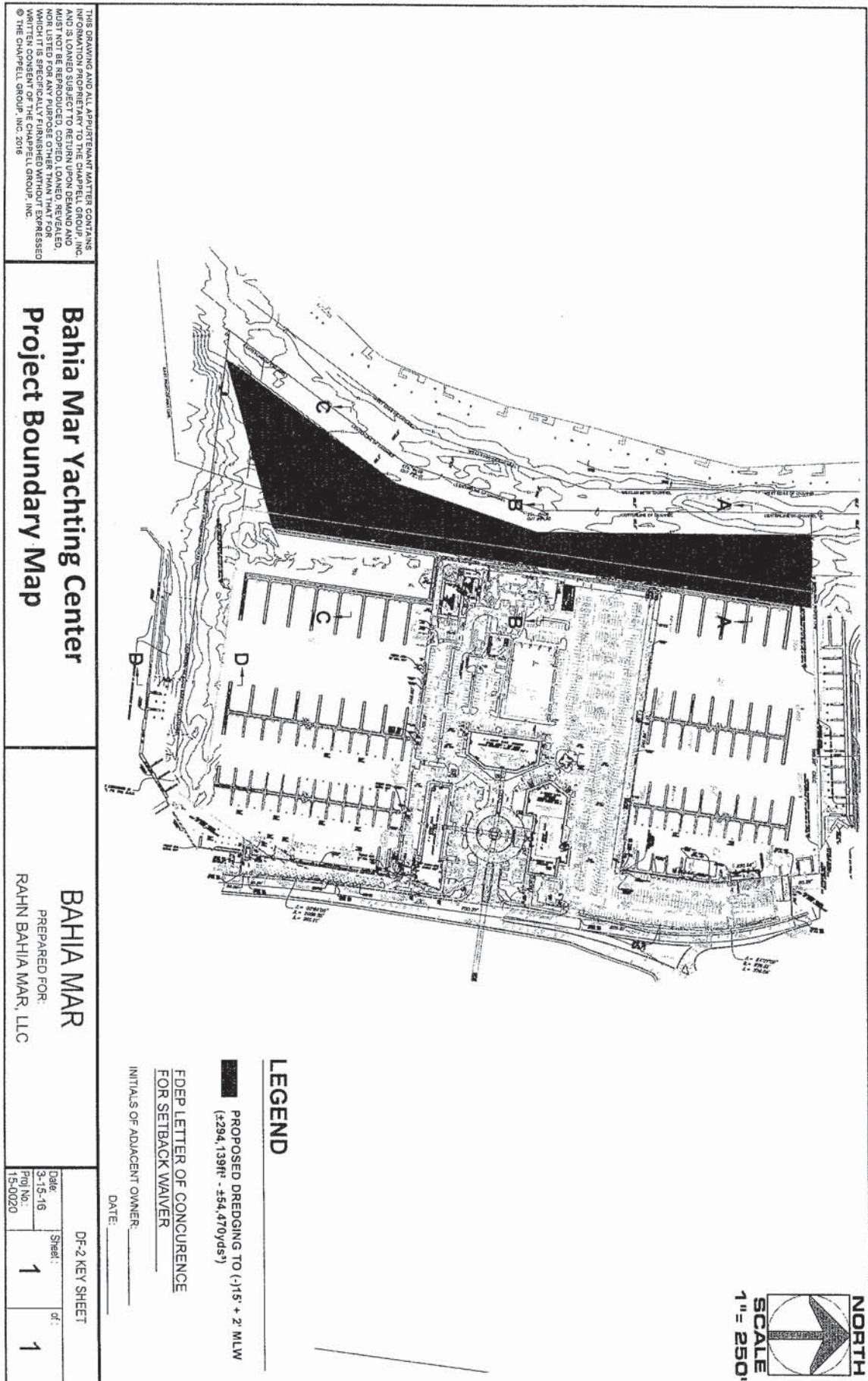
Project Location

Bahia Mar Yachting  
Center

Google ear

Imagery Date: 1/23/2016 26°06:29.44" N 80°06:56.48" W elev 7 ft eye alt 11999 ft









## ATTACHMENT E-2

**WATERWAYS ASSISTANCE PROGRAM FY 2017  
PROJECT APPLICATION  
APPLICANT INFORMATION – PROJECT SUMMARY**

<b>APPLICANT INFORMATION</b>		
<b>Applicant: Town of Hillsboro Beach</b>		
<b>Department: Hillsboro Beach Police Department</b>		
<b>Project Title: Hillsboro Beach Police Department Outboard Motors Replacement Project</b>		
<b>Project Director: Thomas Nagy</b>	<b>Title:</b>	Chief of Police
<b>Project Liaison:</b> <i>(if different from Project Director)</i>	<b>Title:</b>	
<b>Mailing Address: 1210 Hillsboro Mile Suite B</b>		
<b>City: Hillsboro Beach</b>	<b>Zip Code:</b>	33062
<b>Email Address: tnagy@townofhillsborobeach.com</b>	<b>Phone #:</b>	954-427-6600
<b>Project Address: 1210 Hillsboro Mile Hillsboro Beach, FL 33062</b>		

\*\*\*\*\* I hereby certify that the information provided in this application is true and accurate. \*\*\*\*\*

SIGNATURE: \_\_\_\_\_



DATE: 3/3/2017

**PROJECT NARRATIVE** (Please summarize the project in space provided below in 2 paragraphs or less.)

The Hillsboro Beach Police Department has one marine patrol vessel. The Town of Hillsboro Beach consists of 3.2 miles of Intracoastal Water, and we are surrounded by water on three sides. Our current outboard motors are (2) 2008 Yamaha 250hp 4 stroke engines, which are out of warranty, and have 5283 engine hours. This past year, the motors have been breaking down more frequently, requiring significant repairs to be made. When our patrol vessel is taken out of service for repairs, it generally is for a significant amount of time, which decreases our presence on our waterways. The vessel is our only vessel, and gets used on a regular basis, which must be functional and reliable for us to provide the highest level of public and boating safety on our waterways.

Given the town's budget restraints, I am requesting financial assistance utilizing the 2017 FIND Waterway Assistance Program Grant, coupled with the Town's required cash match to obtain two new outboard motors. The Town of Hillsboro Beach is requesting \$20,035.41 in the FY 2017 Waterways Assistance Program grant funds to purchase one motor, and the Town of Hillsboro Beach will match the grants required 50% cash match by purchasing the second motor. The funding under this grant will ensure our ability to provide reliable marine law enforcement patrols and increased public safety of the Intracoastal waterways.

## ATTACHMENT E-3 - PROJECT INFORMATION 2017

Applicant: Town of Hillsboro Beach		Project Title: Hillsboro Beach Police Department Outboard Engine	
Total Project Cost: \$40,070.81	FIND Funding Requested: \$20,035.41	% of Total	50 %
Amount and Source of Applicant's Matching Funds:	\$20,035.41 Town of Hillsboro Beach General Fund		

1. Ownership of Project Site (check one): Own: ☐ Leased: ☐ Other: ☒

2. If leased or other, please describe lease or terms and conditions:

3. Has the District previously provided assistance funding to this project or site? Yes: ☐ No: ☒

4. If yes, please list:

5. What is the current level of public access in terms of the number of boat ramps, boat slips and trailer parking spaces, linear feet of boardwalk (etc.)? (as applicable):

N/A

6. How many additional ramps, slips, parking spaces or other access features will be added by this project?

N/A

7. Are fees charged for the use of this project? No ☒ Yes ☐

**\*\*If yes, please attach additional documentation of fees and how they compare with fees from similar public & private facilities in the area.**

Please list all Environmental Resource Permits required for this project:

AGENCY	Yes / No / N/A	Date Applied For	Date Received
WMD	N/A		
DEP	N/A		
ACOE	N/A		
COUNTY / CITY	N/A		



## ATTACHMENT E-4

**WATERWAYS ASSISTANCE PROGRAM  
APPLICATION AND EVALUATION WORKSHEET**

**DIRECTIONS:** All applicants will complete questions 1 through 6, and then based on the type of project, complete one and only one subsection (E-4A, B, C, D or E) for questions 7-10.

**\*\*Please keep your answers brief and do not change the pagination of Attachment E-4\*\***

All other sub-attachments that are not applicable to an applicant's project should not be included in the submitted application.

<b>Project Title:</b>	Hillsboro Beach Police Department Outboard Motor Replacement Project
<b>Applicant:</b>	Town of Hillsboro Beach

---

**1) PRIORITY LIST:**

- a) Denote the priority list category of this project from Attachment C in the application.** (The application may only be of one type based upon the predominant cost of the project elements.)

Priority list, category # 14- Waterway boating safety programs and equipment

- b) Explain how the project fits this priority category.**

This project seeks funding to assist the Hillsboro Beach Police Department is the purchase of one outboard motor for waterway equipment.

*(For reviewer only)*

Max. Available Score for application 44

Question 1. Range of Score (1 to 2 points)

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**2) WATERWAY RELATIONSHIP:****a) Explain how the project relates to the ICW and the mission of the Navigation District.**

The project supports FIND's mission by supporting the Hillsboro Beach Police Department's ability to provide routine law enforcement patrols and a safe environment for citizens and visitors utilizing the ICW.

**b) What public access or navigational benefit to the ICW or adjoining waterway will result from this project?**

The project supports the ability to conduct marine law enforcement patrols which helps to ensure the maintenance of safe and navigable waters of the ICW.

*(For reviewer only)*  
*(1-6 points)*

---

**3) PUBLIC USAGE & BENEFITS:****a) How is the public usage of this project clearly identified and quantified? Estimate the amount of total public use.**

The requested outboard engine will ensure our ability to provide reliable marine patrols on a daily basis. The marine unit patrols the ICW, making daily contacts, conducts safety vessel inspections, investigates marine accidents, enforces wake violations in manatee zones, and other public safety services related to the boating community.

**b) Discuss the regional and local public benefits that will be provided by the project. Can residents from other counties of the District reasonably access and use the project? Explain.**

The requested outboard engine will ensure our ability to provide reliable marine patrol/law enforcement on a daily basis. The daily patrols will help benefit all boaters who navigate the ICW through Hillsboro Beach. Our marine unit officers make daily contacts while on patrol, conduct boating safety inspections, investigate boating accidents, and enforce wake violations. Any vessel that navigates the ICW will benefit from the services provided by our marine unit.

**c) Are there any restrictions placed on commercial access or use of this site?**  
N/A

*(For reviewer only)*  
*(1-8 points)*

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#### 4) TIMELINESS

- a) Describe current status of the project and present a reasonable and effective timeline for the completion of the project consistent with Attachment E-6.**

Oct-Nov 2017. Town Commission approves FIND grant agreement and becomes executed.

December 2017. Town will process purchase order for the purchase of the outboard motor.

Jan-Feb 2018. Town takes possession of the new boat motor.

Mar-Apr 2018. Project is completed and closeout documents are submitted to FIND.

- b) Briefly explain any unique aspects of this project that could influence the project timeline.**

The Hillsboro Beach Police Department does not anticipate any unique circumstances that would negatively impact the anticipated project timeline.

*(For reviewer only)*  
*(1-3 points)*

---

#### 5) COSTS & EFFICIENCY:

- a) List funding sources and the status and amount of the corresponding funding that will be utilized to complete this project.**

The proposal seeks to fund 50 % of the cost of one outboard engine. The Town of Hillsboro Beach will match the balance of the cost the use of the Town's General Fund.

- b) Identify and describe any project costs that may be increased because of the materials utilized or specific site conditions.**

The project cost is based on a government pricing quote from BRP US Inc. It is not anticipated that the cost of the motors will change. However, should that occur, the Town of Hillsboro Beach will absorb the increased cost.

- c) Describe any methods to be utilized to increase the cost efficiency of this project.**

The Town of Hillsboro Beach will ensure that government pricing is obtained from a certified vendor in the State of Florida.

- d) If there are any fees associated with the use of this facility, please detail. In addition, please provide a listing of the fees charged by similar facilities, public and private, in the project area.**

N/A

*(For reviewer only)*  
*(1-6 points)*

---



**6) PROJECT VIABILITY:**

- a) **What specific need in the community does this project fill? Is this project referenced or incorporated in an existing maritime management, public assess or comp plan?**

The project will help ensure a safe and secure environment for all citizens utilizing the ICW. Hillsboro Beach is essentially surrounded by water on three sides, the ICW to the west, Hillsboro Inlet to the south, and the Atlantic Ocean to the east. Hillsboro Inlet is one of two Inlets in Broward County, and has a very active boating community. Our police presence provides a safe environment and sense of security for all boaters passing through Hillsboro inlet and travel the ICW.

- b) **Clearly demonstrate how the project will continue to be maintained and funded after District funding is completed.**

We budget for routine maintenance with a factory authorized warranty service center with certified mechanics that service: Yamaha, Johnson, Evinrude, and Suzuki engines.

- c) **Will the program result in significant and lasting benefits? Explain.**

Yes. The new engines are expected to be used over the next 5-6 years. This will help contribute to the immediate and long-term safety of boaters on the ICW & Hillsboro Inlet through the provision of routine and reliable law enforcement patrols for many years.

- d) **Please describe any environmental benefits associated with this project.**

The deployment of newer and more efficient engines will have a lesser impact on air and water quality, and reduced noise impact than our existing 2008 engines

*(For reviewer only)*  
*(1-7 points)*

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SUB-TOTAL

**ATTACHMENT E-4C  
LAW ENFORCEMENT & BOATING SAFETY PROJECTS**

**WATERWAYS ASSISTANCE PROGRAM  
APPLICATION AND EVALUATION WORKSHEET**

THIS ATTACHMENT IS TO BE COMPLETED IF YOUR PROJECT IS A LAW  
ENFORCEMENT OR BOATING SAFETY PROJECT

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**7) VIABILITY:**

- c) Describe how the project will address particular public health, safety, or welfare issues of the Navigation District's Waterways.**

The requested outboard engines will enable the Hillsboro Beach Police Department's Marine Unit the equipment needed to continue providing a safe boating environment of the Navigation District's Waterways. With the addition of new engines, reliable patrols will allow the Hillsboro Beach Police Department the opportunity to provide a safe boating environment and enforce the boating laws of our waterways.

- d) How does the project provide significant benefits or enhancements to the District's Waterways?**

The project will provide a significant benefit to the Navigation Districts Waterways, by helping to ensure a safe boating experience to those who utilize the ICW and Hillsboro Inlet with daily law enforcement marine patrols and law enforcement presence. Law enforcement presence will not only help to insure adherence to marine laws, but it will also assist boaters in need of assistance.

*(For reviewer only)  
(1-3 points)*

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**8) EXPERIENCE & QUALIFICATIONS:**

- a) List the personnel tasked with the implementation of this project, their qualifications, previous training and experience.**

Chief Thomas Nagy will be implementing this project. I have served the Town of Hillsboro Beach since 1992, and has served as Chief of Police since 2008. I make sure each member of the marine unit receives the advanced marine patrol safety training that I also received, to properly deal with boating issues and provide public safety on the waterways.

- b) Have the personnel participated in or received state marine law enforcement training?**

Yes. To date, fourteen officers at Hillsboro Beach Police Department are involved in our marine patrol division. All fourteen officers have received advanced marine patrol tactical training in boating safety, boating stops, and tactical boarding, first aid, and vessel accident investigations. Training was provided by the University of North Florida (IPTM) and Tactical Advantage Consultants.

*(For reviewer only)*  
*(1-2 points)*

---

**9) DELIVERABLES:**

- a) Describe the anticipated, long-term measurable results of implementing this project.**

By implementing this project, Hillsboro Beach Police Department will be able to perform enforcement and boating safety initiatives while patrolling the ICW.

- b) What is the range or area of coverage for this project? Please provide a map of the coverage area.**

The Hillsboro Beach Police Department patrols 3.2 miles of ICW as well as Hillsboro Inlet. We also provide mutual aid with surrounding jurisdictions.

- c) Does the project fulfill a particular community need?**

Yes. Through implementation of this project, boaters will benefit from our marine units ability that will provide daily law enforcement services on the ICW, which will enhance the safety of all boaters using the ICW, and increase the boaters education and awareness of our marine laws.

*(For reviewer only 1 to 4 points)*



**10) EDUCATION:****a) What are the educational benefits (if any) of this proposed project?**

Providing members of the local boating community with safety and education materials and advice on navigation and wake regulations, improves the boating experience of everyone that travels along the ICW.

**b) How does the project or program provide effective public boating education or expand boater safety?**

The implementation of this project will provide significant improvements to boating safety, as it will allow our marine officers to perform daily marine patrols, educate the boating community on navigation, wake regulations, conducting vessel safety inspections, and distribute the appropriate boating safety brochures as needed.

*(For reviewer only)*  
*(1 -3 points)*

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**RATING POINT  
TOTAL**

(Note: The total maximum score possible is dependent upon the project priority category but cannot exceed 50 points unless the project qualifies as an emergency-related project. The minimum score possible is 10 points. A score of 35 points or more is required to be considered for funding.)



**ATTACHMENT E-6  
WATERWAYS ASSISTANCE PROGRAM 2017**

**PROJECT TIMELINE**

<b>Project Title:</b>	Hillsboro Beach police Department Outboard Motors Replacement Project
<b>Applicant:</b>	Town of Hillsboro Beach

The applicant is to present a detailed timeline on the accomplishment of the components of the proposed project including, as applicable, completion dates for: permitting, design, bidding, applicant approvals, initiation of construction and completion of construction.

**NOTE: All funded activities must begin AFTER October 1<sup>st</sup>**  
(or be consistent with Rule 66B-2.005(3) - Pre-agreement expenses)

Oct-Nov 2017.	Town Commission approves FIND grant agreement and becomes executed.
December 2017.	Town will process purchase order for the purchase of the outboard motor.
Jan-Feb 2018.	Town takes possession of the new boat motor.
Mar-Apr 2018.	Project is completed and closeout documents are submitted to FIND.





## Hillsboro Beach, FL



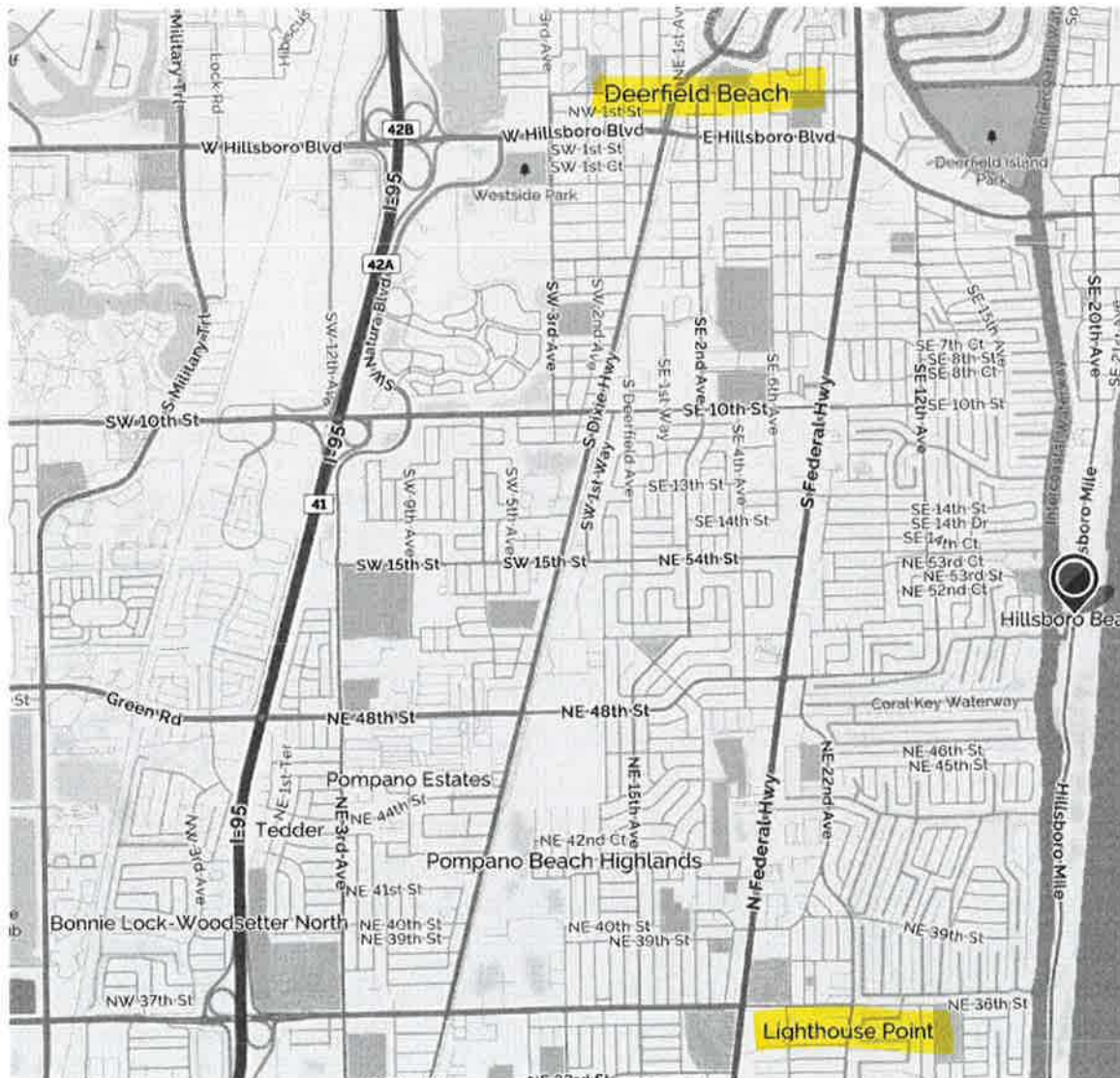
### Description



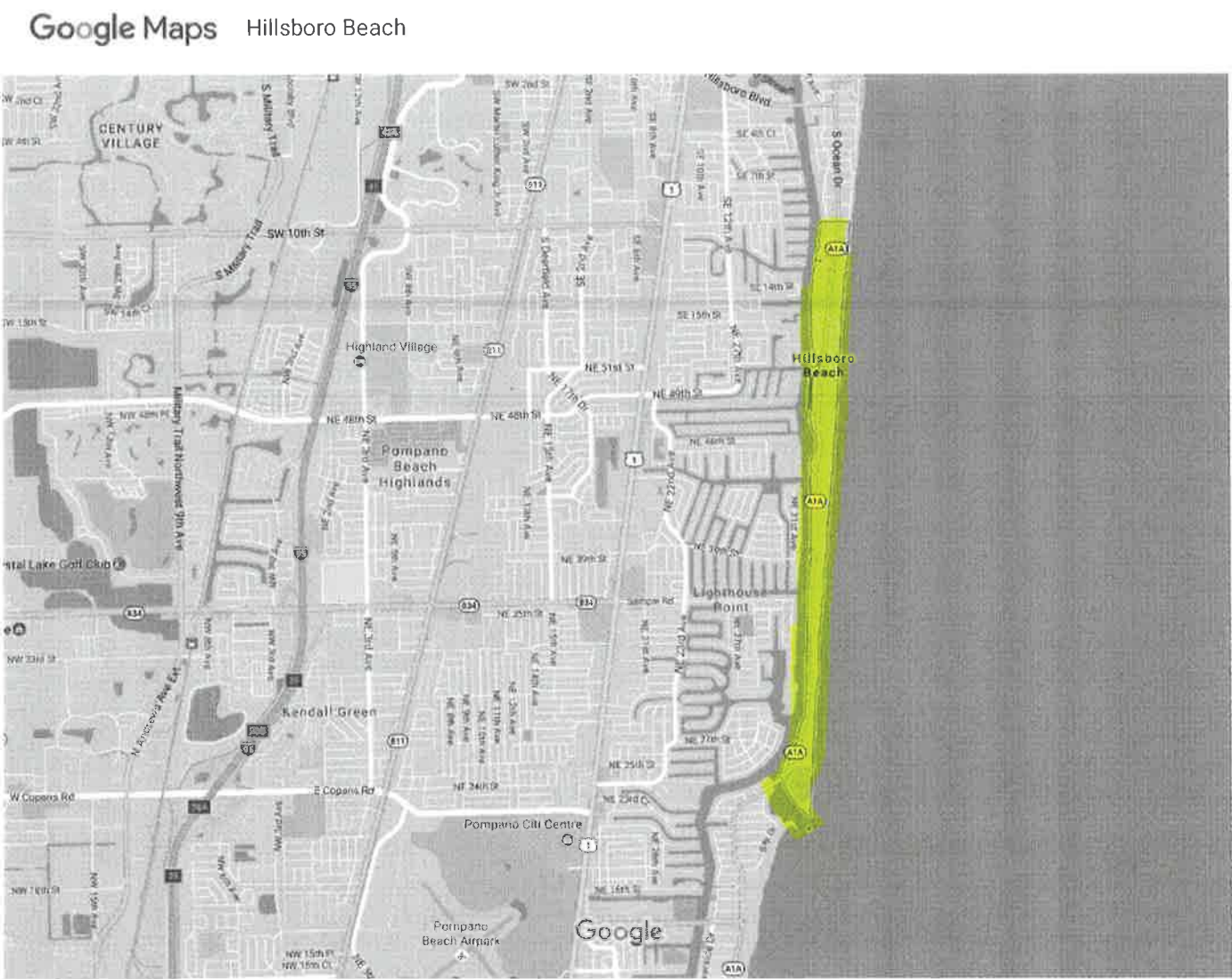
Hillsboro Beach is a town in Broward County, Florida, United States. The town was named for the Earl of Hillsborough, who received large grants of land from the King of England while Florida was an English possession. The 3.2-mile (5.1 km) strip along State Road A1A includes an exclusive stretch called "Hillsboro Mile" or "Millionaires Mile". The population was 1,875 at the 2010 census. It is part of the Miami-Fort Lauderdale-Pompano Beach Metropolitan Statistical Area, which was home to 5,564,635 people at the 2010 census.

Hillsboro Beach is located at  $26^{\circ}17'38''\text{N}$   $80^{\circ}4'42''\text{W}$  /  $26.29389^{\circ}\text{N}$   $80.07833^{\circ}\text{W}$  /  $26.29389$ ;  $-80.07833$  ( $26.293857$ ,  $-80.078243$ ). It is located in northeastern Broward County, along the Atlantic Ocean.

It is adjacent to the following municipalities:







Hillsboro Beach

Florida

Partly Cloudy · 77°F  
2:34 PM





## ATTACHMENT E-2

**WATERWAYS ASSISTANCE PROGRAM FY 2017  
PROJECT APPLICATION  
APPLICANT INFORMATION – PROJECT SUMMARY**

APPLICANT INFORMATION			
<b>Applicant:</b>	Broward County		
<b>Department:</b>	Parks and Recreation Division		
<b>Project Title:</b>	West Lake Park's Anne Kolb Nature Center Exhibit Hall Upgrades		
<b>Project Director:</b>	Linda Briggs Thompson	<b>Title:</b>	Environmental Program Manager
<b>Project Liaison:</b> <i>(if different from Project Director)</i>	Sarah Tobing	<b>Title:</b>	Natural Resource Specialist
<b>Mailing Address:</b>	950 NW 38th Street		
<b>City:</b>	Oakland Park	<b>Zip Code:</b>	33309
<b>Email Address:</b>	stobing@broward.org	<b>Phone #:</b>	954-357-8149
<b>Project Address:</b>	751 Sheridan St, Hollywood, FL 33019		

\*\*\*\*\* I hereby certify that the information provided in this application is true and accurate.\*\*\*\*\*

SIGNATURE:  DATE: 3/28/17

**PROJECT NARRATIVE** (Please summarize the project in space provided below in 2 paragraphs or less.)

The proposed project at West Lake Park's Anne Kolb Nature Center will provide much needed upgrades to the Exhibit Hall which showcases the mangrove habitat adjacent to the Intracoastal Waterway in Broward County. The project's theme is "Coastal Connections" and focuses on broadening the relationship between the mangrove swamp, the Intracoastal Waterway and the Atlantic Ocean for our patrons visiting the hall. Upgrades will include the installation of a 2,500 gallon aquarium, and new displays with information on climate change and sea level rise, tides, Intracoastal Waterway history, manatees, sea turtles, and coral reefs. Visitors, tourists, and children on school field trips use the Exhibit Hall to learn about mangrove tidal estuary ecosystems and their interaction with adjacent waters.

The current nature displays are static and do not permit the visitors to interact with the displays. Hands on interactive displays using modern technologies, will be provided with this grant along with other needed upgrades. Also included in the proposal is the total reconstruction of the main mangrove aquarium tanks. Because they are salt water tanks, there has been extensive corrosion of the existing tank and tank displays.

## ATTACHMENT E-3 - PROJECT INFORMATION 2017

<b>Applicant:</b>	Broward County		<b>Project Title:</b>	West Lake Park's Anne Kolb Nature Cent	
<b>Total Project Cost: \$</b>	\$667,574	<b>FIND Funding Requested: \$</b>	333,787	<b>% of Total Cost:</b>	333,787 50%
<b>Amount and Source of Applicant's Matching Funds:</b>	\$333,787 from 2000 Safe Parks and Land Preservation Bond Funds				

**1. Ownership of Project Site (check one):** Own: ☐ Leased: ☐ Other: ☒

**2. If leased or other, please describe lease or terms and conditions:**

Property is leased from the State of Florida. Lease No. 3417. Building owned by Broward County.

**3. Has the District previously provided assistance funding to this project or site?** Yes: ☒ No: ☐

**4. If yes, please list:**

Assistance was provided for nature center exhibits and a canoe and kayak rental facility prior to 1996. Assistance was provided for a 200 foot dock on the Intracoastal Waterway. FIND also ☒

**5. What is the current level of public access in terms of the number of boat ramps, boat slips and trailer parking spaces, linear feet of boardwalk (etc.)? (as applicable):**

The Anne Kolb Nature Center is part of West Lake Park. West Lake Park receives 76,400 visitors per year. The park contains .5 miles of boardwalk trails, 2.3 miles of gravel trails, canoe and kayak rentals, and a boat dock and fishing piers located on the Intracoastal Waterway.

**6. How many additional ramps, slips, parking spaces or other access features will be added by this project?**

None.

**7. Are fees charged for the use of this project?** No ☐ Yes ☐ \*\*

**\*\*If yes, please attach additional documentation of fees and how they compare with fees from similar public & private facilities in the area.**

**Please list all Environmental Resource Permits required for this project:**

AGENCY	Yes / No / N/A	Date Applied For	Date Recieved
WMD	No		
DEP	No		
ACOE	No		
COUNTY / CITY	No		

**ATTACHMENT E-4****WATERWAYS ASSISTANCE PROGRAM  
APPLICATION AND EVALUATION WORKSHEET**

**DIRECTIONS:** All applicants will complete questions 1 through 6, and then based on the type of project, complete one and only one subsection (E-4A, B, C, D or E) for questions 7-10.

**\*\*Please keep your answers brief and do not change the pagination of Attachment E-4 \*\***

All other sub-attachments that are not applicable to an applicant's project should not be included in the submitted application.

<b>Project Title:</b>	West Lake Park's Anne Kolb Nature Center Exhibit Hall Upgrades
<b>Applicant:</b>	Broward County

**1) PRIORITY LIST:**

- a) Denote the priority list category of this project from Attachment C in the application.** (The application may only be of **one** type based upon the predominant cost of the project elements.)

#10 Waterway Related Environmental Programs and Facilities

- b) Explain how the project fits this priority category.**

The Anne Kolb Nature Center hosts environmental field trips, provides a guided tour boat ride, walking trails and waterway overlooks for visitors and groups. The nature center's eastern border is on the Intracoastal Waterway that feeds waters into West Lake.

*(For reviewer only)*

Max. Available Score for application      46  

*Question 1. Range of Score    (1 to   4   points)*



---

**2) WATERWAY RELATIONSHIP:**

- a) Explain how the project relates to the ICW and the mission of the Navigation District.**

Anne Kolb Nature Center is a part of the 1,570 acre West Lake Park, which has 3.5 miles of shoreline along the ICW in Hollywood, FL. The location of the Anne Kolb Nature Center's proximity to the ICW provides a unique opportunity to educate the public on the ICW.

- b) What public access or navigational benefit to the ICW or adjoining waterway will result from this project?**

The upgrades will include information on the ICW allowing patrons to broaden their understanding of its vital economic, recreational and ecological importance.

*(For reviewer only)*  
*(1-6 points)*

---

**3) PUBLIC USAGE & BENEFITS:**

- a) How is the public usage of this project clearly identified and quantified? Estimate the amount of total public use.**

The Nature Center provides a unique learning experience for local patrons and tourists. It is frequently visited by school groups. Our proximity to Port Everglades, the Fort Lauderdale-Hollywood International Airport, and Hollywood Beach make us a convenient stopover for Port Everglades cruise ship visitors looking for an eco-tourism experience.

- b) Discuss the regional and local public benefits that will be provided by the project. Can residents from other counties of the District reasonably access and use the project? Explain.**

The Anne Kolb Nature Center grounds and Exhibit Hall are open daily (excluding Christmas and the day after Thanksgiving) allowing for patron usage. Broward County's Parks and Recreation Division provides environmental amenities such as the Anne Kolb Nature Center not only for our residents, but visitors from other counties including tourists such as cruise ship passengers in town for their cruise. Additionally, a 200' day dock in the ICW for transient boaters gives them the ability to visit the Nature Center by water using this dock which was funded by FIND.

- c) Are there any restrictions placed on commercial access or use of this site?**

Commercial access and use of the site is restricted to contracted park vendors that serve a legitimate recreational, cultural or educational park purposes.

*(For reviewer only)*  
*(1-8 points)*

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#### 4) TIMELINESS

- a) Describe current status of the project and present a reasonable and effective timeline for the completion of the project consistent with Attachment E-6.**

The Exhibit Hall is currently providing guided tours and programs. Several displays, lighting and the aquarium need extensive renovations. Anticipated completion is August 2019.

- b) Briefly explain any unique aspects of this project that could influence the project timeline.**

This project has been modified from the 2013 submission to include design of demolition of the old exhibit. This will streamline the construction.

*(For reviewer only)*  
*(1-3 points)*

---

#### 5) COSTS & EFFICIENCY:

- a) List funding sources and the status and amount of the corresponding funding that will be utilized to complete this project.**

Matching funds will be provided by the Broward County 2000 Safe Parks and Land Acquisition Bond Funds.

- b) Identify and describe any project costs that may be increased because of the materials utilized or specific site conditions.**

At this time, it is not anticipated that there will be any cost increases in materials.

- c) Describe any methods to be utilized to increase the cost efficiency of this project.**

The use of cost efficient lighting and pumps will have long term cost efficiency for the project.

- d) If there are any fees associated with the use of this facility, please detail. In addition, please provide a listing of the fees charged by similar facilities, public and private, in the project area.**

The Exhibit Hall entrance fee is \$2.00. Fees of other similar facilities in the area: Dr. Von D. Mizell-Eula Johnson State Park in Dania-\$2.00/pedestrian; Gumbo Limbo Nature Center in Boca Raton-\$5.00 suggested donation, Birch State Park, \$2.00.

*(For reviewer only)*  
*(1-6 points)*

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**6) PROJECT VIABILITY:**

- a) What specific need in the community does this project fill? Is this project referenced or incorporated in an existing maritime management, public assess or comp plan?**

The Broward County Commission strives to develop a community with recreation and learning opportunities coupled with a commitment to promote, protect and enhance the environment by means of collaborative partners, community stewardship, appreciation and conservation. This project will meet the needs of this community. There is no maritime management plan.

- b) Clearly demonstrate how the project will continue to be maintained and funded after District funding is completed.**

Management and upkeep of the project will be the responsibility of the Broward County Parks and Recreation Division.

- c) Will the program result in significant and lasting benefits? Explain.**

The West Lake/ Anne Kolb Nature Center is a 1570 acre environmental park along the Intracoastal Waterway. It is an urban park that provides vital green space and protected mangrove habitat. This project will provide a continued commitment to environmental education and preservation.

- d) Please describe any environmental benefits associated with this project.**

This project will broaden the environmental educational opportunities and engage citizens with the coastal ecosystems in Broward County and South Florida.

*(For reviewer only)*  
*(1-7 points)*

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SUB-TOTAL \_\_\_\_\_

FIND FORM NO. 91-25

Rule 66B-2.005 (Effective Date: 3-21-01, Revised 4-24-06, 1-27-14)



**ATTACHMENT E-4B  
ENVIRONMENTAL EDUCATION PROJECTS**

**WATERWAYS ASSISTANCE PROGRAM  
APPLICATION AND EVALUATION WORKSHEET**

THIS ATTACHMENT IS TO BE COMPLETED IF YOUR PROJECT IS AN  
ENVIRONMENTAL EDUCATION PROJECT

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**7) THOROUGHNESS:**

**a) Who is the primary target audience or user group for the project and how were they identified?**

The primary target audience consists of Broward County residents and visitors to the County. The target audience is based on current patron usage.

**b) How have the needs of the target audience been evaluated and met?**

The Broward County Parks and Recreation Division utilizes Customer Service Satisfaction surveys to determine visitor satisfaction and comments. In 2012, a services assessment was conducted by GreenPlay, LLC to target key service strategies for Parks and Recreation.

**c) How many people will the program serve on an annual basis? What will be the measurable results?**

The Nature Center would be expected to serve at least the current number of visitors of 76,400 and would expect an increase due to current, and vital exhibits attracting local visitors from the Port, Airport and new developments in South Florida. Measurable results will be determined through visitor counts and customer satisfaction surveys.

*(For reviewer only)  
(1-5 points)*

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**8) DELIVERABLES:**
**a) Describe the materials and project deliverables to be produced by this project.**

1. Plans for the Exhibits and Displays
2. Completed Exhibit Construction and Installation

**b) Is there a clear and effective plan of dissemination of the materials produced through the project? Please describe.**

These displays will be installed in the Anne Kolb Nature Center Exhibit Hall. We promote the Nature Center through print material, advertising, the internet, and social media through our in-house Marketing and Public Communication Group.

*(For reviewer only)*

*(1-2 points)*

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**9) EXPERIENCE & QUALIFICATIONS:**
**a) Please briefly describe the qualifications of the program administrator(s), including prior experience, and areas of expertise.**

Linda Briggs Thompson is the Environmental Program Manager of Broward County Parks (Parks). Linda will oversee the grant's execution. She has worked as a biologist managing natural areas in South Florida for 18 years. Twelve of the years were spent working in Broward County's natural areas. She has a BS and a MS in Fisheries and Wildlife. Sarah Tobing is a Natural Resources Specialist with Parks. Sarah will be the contact person for the grant and will perform daily project management duties. She has over six years of experience in project management. She has a MS in ecology and specialized in coastal ecosystems.

**b) What previous projects of this nature have been completed by the program manager?**

The program manager completed the development of public use amenities, interpretation, and management of over 20 natural area sites including hydrological restoration projects. The Parks Department has over 50 years of experience in the nature interpretive field including the museum quality exhibit hall at Long Key Nature Center.

*(For reviewer only)*

*(1-2 points)*

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**10) PROJECT GOALS:****a) What are the long-term goals of this project as it relates to the ICW?**

Our long term goals are to educate visitors about the importance of tidal estuaries and the Intracoastal Waterway. Our mission is to cultivate connections to residents and visitors of Broward County of all ages by providing environmental, cultural, and natural education through experiential learning with first-class facilities.

**b) What is the expected duration/frequency of this program?**

The exhibit will be open daily (excluding Christmas and the day after Thanksgiving) allowing for patron usage.

*(For reviewer only)*

*(1-3 points)*

---

**RATING POINT  
TOTAL** \_\_\_\_\_

(Note: The total maximum score possible is dependent upon the project priority category but cannot exceed 50 points unless the project qualifies as an emergency-related project. The minimum score possible is 10 points. A score of 35 points or more is required to be considered for funding.)

Form No. 91-25B

Rule 66B-2.005 (Effective Date: 3-21-01, Revised 4-24-06, 1-27-14)





**ATTACHMENT E-6  
WATERWAYS ASSISTANCE PROGRAM 2017**

**PROJECT TIMELINE**

<b>Project Title:</b>	West Lake Park's Anne Kolb Nature Center Exhibit Hall Upgrades
<b>Applicant:</b>	Broward County

The applicant is to present a detailed timeline on the accomplishment of the components of the proposed project including, as applicable, completion dates for: permitting, design, bidding, applicant approvals, initiation of construction and completion of construction.

**NOTE: All funded activities must begin AFTER October 1<sup>st</sup>**  
(or be consistent with Rule 66B-2.005(3) - Pre-agreement expenses)

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Project agreement executed by Broward County and FIND	November 1, 2017
Procurement process initiated	November 15, 2017
Construction initiated	August 1, 2018
Construction completed	March 29, 2019

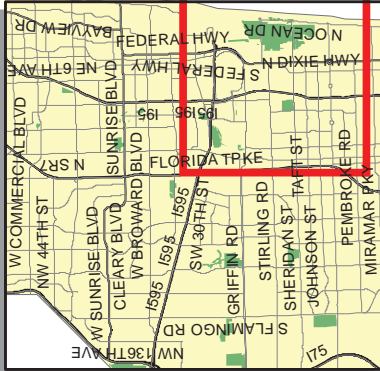
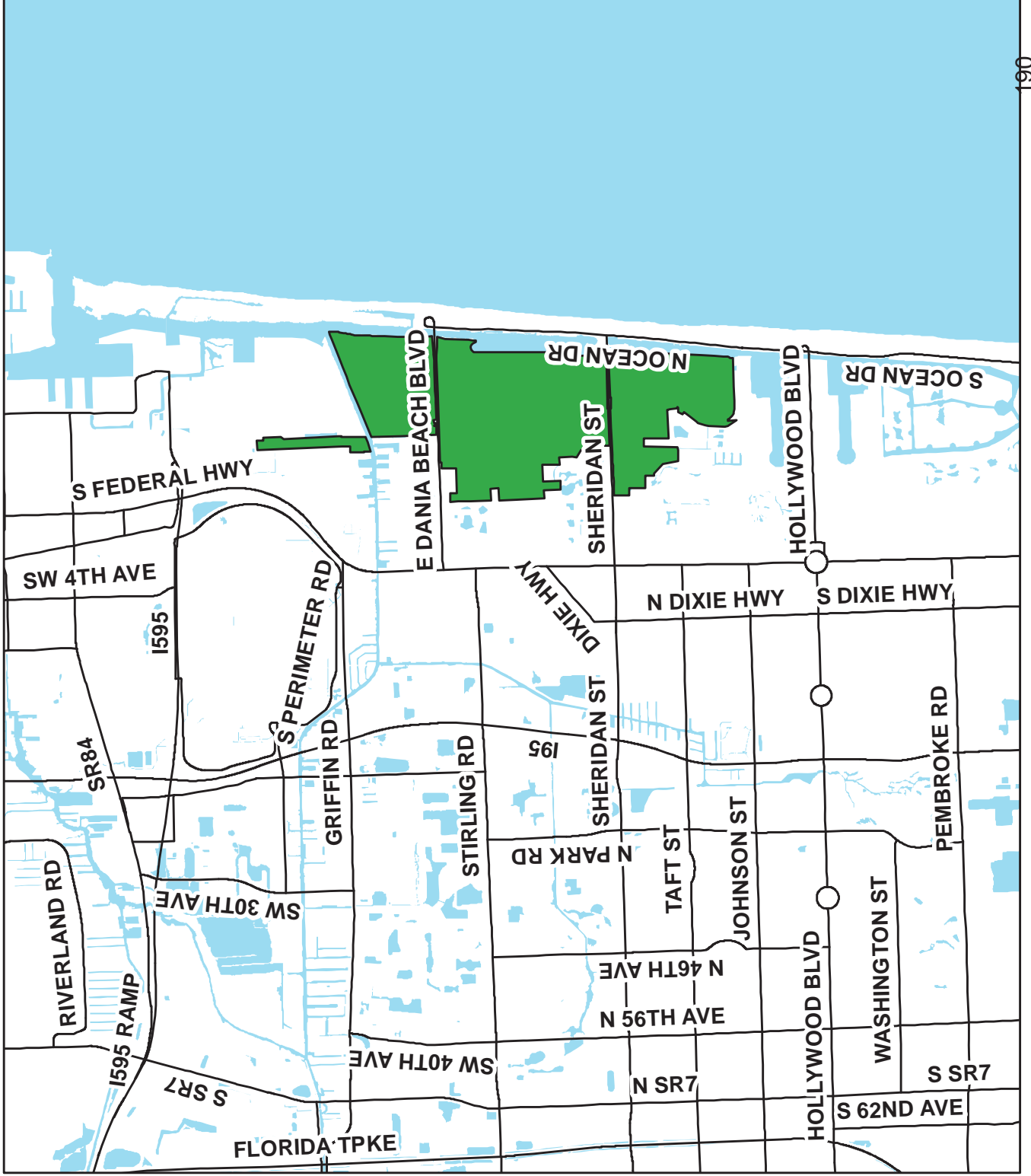
**Parks & Recreation  
Geographic Information System**

**West Lake Park  
Location**

West Lake Boundary

This map is for planning purposes only.  
For more information please call the  
Planning & Development Group at  
954.357.8120

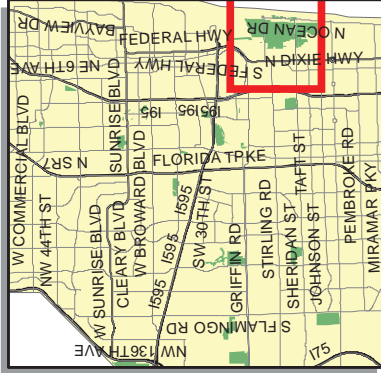
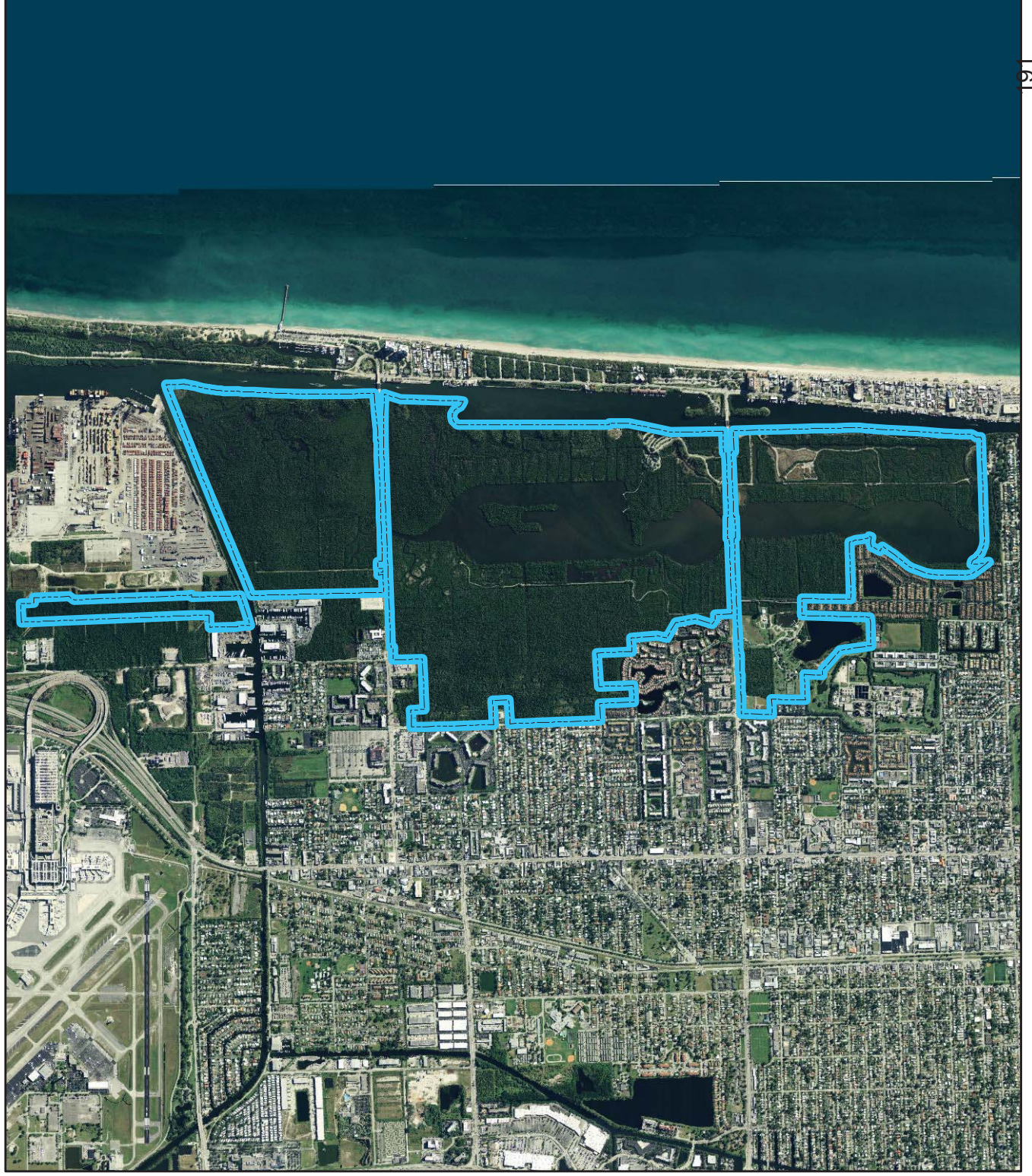
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Broward County Board of County Commissioners  
Parks and Recreation Division  
Planning and Development Group

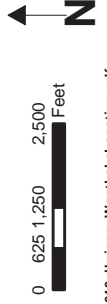
## Parks & Recreation Geographic Information System



# West Lake Park Project Boundary Map

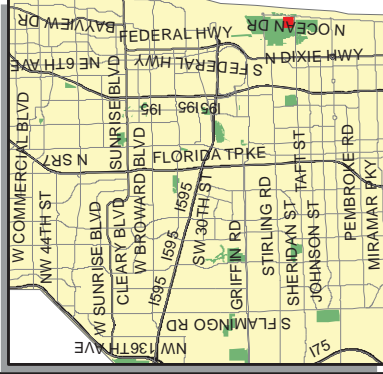


This map is for planning purposes only.  
For more information please call the  
Planning & Development Group at  
954.357.8120



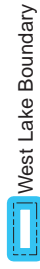


**Parks & Recreation**  
**Geographic Information System**



# Anne Kolb Nature Center at West Lake Park

## Site Development Map



This map is for planning purposes only.  
For more information please call the  
Planning & Development Group at  
954.357.8120





## ATTACHMENT E-2

**WATERWAYS ASSISTANCE PROGRAM FY 2017  
PROJECT APPLICATION  
APPLICANT INFORMATION – PROJECT SUMMARY**

APPLICANT INFORMATION			
<b>Applicant:</b>	Sarah Tobing		
<b>Department:</b>	Broward County Department of Parks and Recreation		
<b>Project Title:</b>	Deerfield Island Boardwalk Replacement, Phase II		
<b>Project Director:</b>	Kevin Bachleda	<b>Title:</b>	Project Manager II
<b>Project Liaison:</b> <i>(if different from Project Director)</i>	Sarah Tobing	<b>Title:</b>	Natural Resource Specialist
<b>Mailing Address:</b>	950 NW 38th Street		
<b>City:</b>	Oakland Park	<b>Zip Code:</b>	33309
<b>Email Address:</b>	stobing@broward.org	<b>Phone #:</b>	954-357-8149
<b>Project Address:</b>	1720 Deerfield Island Park, Deerfield Beach, FL 33441		

\*\*\*\*\* I hereby certify that the information provided in this application is true and accurate.\*\*\*\*\*

SIGNATURE:  DATE: 3/30/17

**PROJECT NARRATIVE** (Please summarize the project in space provided below in 2 paragraphs or less.)

This project will fund the construction of a replacement boardwalk for Deerfield Island Park. The island park is located on the Intracoastal Waterway and contains a 1600' boardwalk through a mangrove swamp. The boardwalk was damaged in Hurricane Wilma in 2005 and an assessment of the damage determined that the supporting structure was degraded and is in need of replacement. The boardwalk is a critical recreation amenity on the island and it has been closed since the 2005 hurricane.

The property is owned by the Florida Inland Navigation District and was dedicated to the State of Florida for recreational purposes in 1966. Broward County leases the island from the state and has operated a park on the property since 1980. FIND funded Phase I of this project which included the design, surveying, and permitting of the boardwalk. Broward County would like to make sure that sufficient amenities are available on the island to achieve a satisfactory experience by visitors.



**ATTACHMENT E-3 - PROJECT INFORMATION 2017**

<b>Applicant:</b>			<b>Project Title:</b>		
<b>Total Project Cost: \$</b>		<b>FIND Funding Requested: \$</b>		<b>% of Total Cost:</b>	
<b>Amount and Source of Applicant's Matching Funds:</b>					

**1. Ownership of Project Site (check one):** Own: ☐ Leased: ☐ Other: ☐

**2. If leased or other, please describe lease or terms and conditions:**

**3. Has the District previously provided assistance funding to this project or site?** Yes: ☐ No: ☐

**4. If yes, please list:**

**5. What is the current level of public access in terms of the number of boat ramps, boat slips and trailer parking spaces, linear feet of boardwalk (etc.)? (as applicable):**

**6. How many additional ramps, slips, parking spaces or other access features will be added by this project?**

**7. Are fees charged for the use of this project?** No ☐ Yes ☐ \*\*

**\*\*If yes, please attach additional documentation of fees and how they compare with fees from similar public & private facilities in the area.**

**Please list all Environmental Resource Permits required for this project:**

AGENCY	Yes / No / N/A	Date Applied For	Date Recieved
WMD			
DEP			
ACOE			
COUNTY / CITY			

**ATTACHMENT E-4****WATERWAYS ASSISTANCE PROGRAM  
APPLICATION AND EVALUATION WORKSHEET**

**DIRECTIONS:** All applicants will complete questions 1 through 6, and then based on the type of project, complete one and only one subsection (E-4A, B, C, D or E) for questions 7-10.

**\*\*Please keep your answers brief and do not change the pagination of Attachment E-4 \*\***

All other sub-attachments that are not applicable to an applicant's project should not be included in the submitted application.

<b>Project Title:</b>	
<b>Applicant:</b>	

---

**1) PRIORITY LIST:**

- a) **Denote the priority list category of this project from Attachment C in the application.** (The application may only be of **one** type based upon the predominant cost of the project elements.)
- b) **Explain how the project fits this priority category.**

*(For reviewer only)*

*Max. Available Score for application*      45  

*Question 1. Range of Score*    (1 to  3  points)

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**2) WATERWAY RELATIONSHIP:**

- a) Explain how the project relates to the ICW and the mission of the Navigation District.
  
  
  
  
  
  
  
  
  
  
- b) What public access or navigational benefit to the ICW or adjoining waterway will result from this project?

*(For reviewer only)*  
*(1-6 points)*

---

**3) PUBLIC USAGE & BENEFITS:**

- a) How is the public usage of this project clearly identified and quantified? Estimate the amount of total public use.
  
  
  
  
  
  
  
  
  
  
- b) Discuss the regional and local public benefits that will be provided by the project. Can residents from other counties of the District reasonably access and use the project? Explain.
  
  
  
  
  
  
  
  
  
  
- c) Are there any restrictions placed on commercial access or use of this site?

*(For reviewer only)*  
*(1-8 points)*

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**4) TIMELINESS**

- a) **Describe current status of the project and present a reasonable and effective timeline for the completion of the project consistent with Attachment E-6.**
  
  
  
  
  
  
  
  
  
  
- b) **Briefly explain any unique aspects of this project that could influence the project timeline.**

*(For reviewer only)*  
*(1-3 points)*

---

**5) COSTS & EFFICIENCY:**

- a) **List funding sources and the status and amount of the corresponding funding that will be utilized to complete this project.**
  
  
  
  
  
  
  
  
  
  
- b) **Identify and describe any project costs that may be increased because of the materials utilized or specific site conditions.**
  
  
  
  
  
  
  
  
  
  
- c) **Describe any methods to be utilized to increase the cost efficiency of this project.**
  
  
  
  
  
  
  
  
  
  
- d) **If there are any fees associated with the use of this facility, please detail. In addition, please provide a listing of the fees charged by similar facilities, public and private, in the project area.**

*(For reviewer only)*  
*(1-6 points)*

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**6) PROJECT VIABILITY:**

- a) **What specific need in the community does this project fill? Is this project referenced or incorporated in an existing maritime management, public assess or comp plan?**
  
  
  
  
  
  
  
  
  
  
- b) **Clearly demonstrate how the project will continue to be maintained and funded after District funding is completed.**
  
  
  
  
  
  
  
  
  
  
- c) **Will the program result in significant and lasting benefits? Explain.**
  
  
  
  
  
  
  
  
  
  
- d) **Please describe any environmental benefits associated with this project.**

*(For reviewer only)*  
*(1-7 points)*

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SUB-TOTAL \_\_\_\_\_

**ATTACHMENT E-4A**  
**DEVELOPMENT & CONSTRUCTION PROJECTS**  
**WATERWAYS ASSISTANCE PROGRAM**  
**APPLICATION AND EVALUATION WORKSHEET**

THIS ATTACHMENT IS TO BE COMPLETED IF YOUR PROJECT IS A  
DEVELOPMENT OR CONSTRUCTION PROJECT BUT **IS NOT** AN INLET  
MANAGEMENT OR BEACH RENOURISHMENT PROJECT.

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**7) PERMITTING:**

- a) **Have all required environmental permits been applied for? (USACE, DEP and WMD)**  
**If permits are NOT required, explain why not.**
  
  
  
  
  
  
  
  
  
  
- b) **If the project is a Phase I project, list the tasks scheduled to obtain the necessary permits and engineering work and provide a general cost estimate for the future Phase II work.**
  
  
  
  
  
  
  
  
  
  
- c) **Detail any significant impediments that may have been identified that would potentially delay the timely issuance of the required permits.**

*(For reviewer only)*  
*(1-4 points)*



---

**8) PROJECT DESIGN:**

- a) **Has the design work been completed? If this is a Phase I project, has a preliminary design been developed?**
  
- b) **Are there unique beneficial aspects to the proposed design that enhance public usage or access, minimize environmental impacts, improve water quality or reduce costs?**

*(For reviewer only)*  
*(1-2 points)*

---

**9) CONSTRUCTION TECHNIQUES:**

- a) **Briefly explain the construction techniques to be utilized for this project. If a Phase 1, elaborate on potential techniques.**
  
- b) **How are the utilized construction techniques appropriate for the project site?**
  
- c) **Identify any unusual construction techniques that may increase or decrease the costs of the project.**

*(For reviewer only)*  
*(1-3 points)*

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**10) CONSTRUCTION MATERIALS:**

a) **List the materials to be utilized for this project. What is the design life of the proposed materials compared to other available materials?**

b) **Identify any unique construction materials that may significantly alter the project costs.**

*(For reviewer only)*  
*(1-3 points)*

---

**RATING POINT  
TOTAL** \_\_\_\_\_

(Note: The total maximum score possible is dependent upon the project priority category but cannot exceed 50 points unless the project qualifies as an emergency-related project. The minimum score possible is 10 points. A score of 35 points or more is required to be considered for funding.)

# FLORIDA INLAND NAVIGATION DISTRICT ASSISTANCE PROGRAM 2017

**(See Rule Section 66B-2.005 & 2.008 for eligibility and funding ratios)**

[illegible]



**ATTACHMENT E-6  
WATERWAYS ASSISTANCE PROGRAM 2017**

**PROJECT TIMELINE**

<b>Project Title:</b>	
<b>Applicant:</b>	

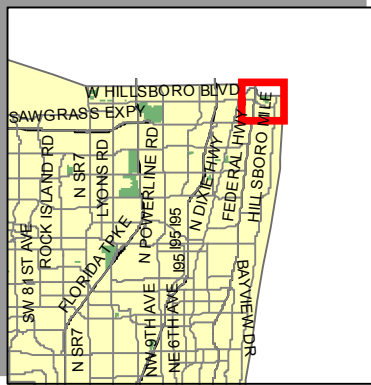
The applicant is to present a detailed timeline on the accomplishment of the components of the proposed project including, as applicable, completion dates for: permitting, design, bidding, applicant approvals, initiation of construction and completion of construction.

**NOTE: All funded activities must begin AFTER October 1<sup>st</sup>**  
(or be consistent with Rule 66B-2.005(3) - Pre-agreement expenses)



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**Parks & Recreation  
 Geographic Information System**

Broward County Board of County Commissioners  
 Parks and Recreation Division  
 Natural Resources and Land Management Section



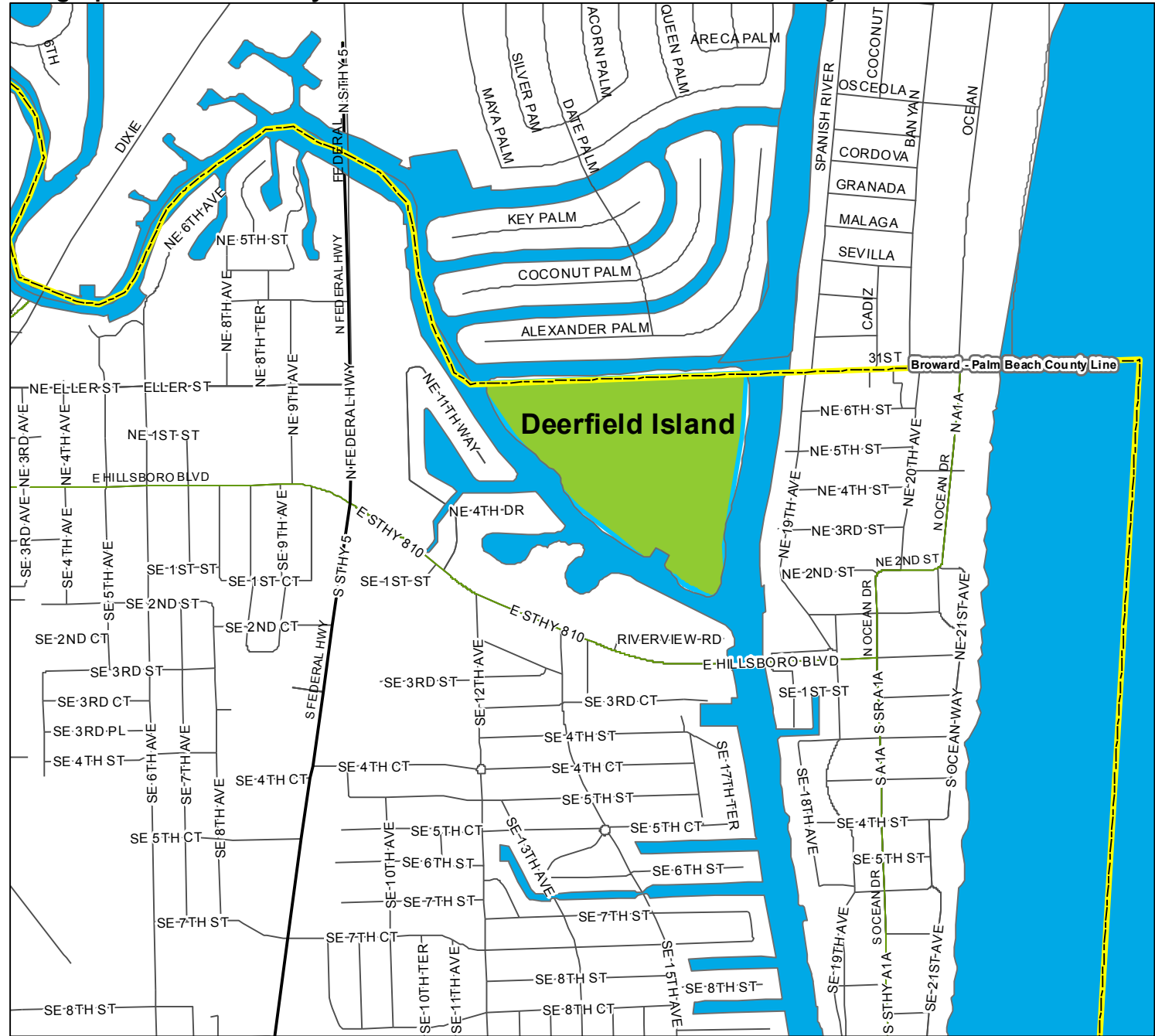
**Location Map  
 Deerfield Island**

 County Line  
 Park Boundaries



This map is for planning purposes only.  
 For more information please call the  
 Environmental Section at 954.357.8120

0 385 770 1,540  
 Feet





# Parks & Recreation Geographic Information System

Broward County Board of County Commissioners  
Parks and Recreation Division  
Natural Resources and Land Management Section



## Existing and Proposed Site Improvements

### Deerfield Island

#### Existing Improvements

- Designated Spoil Area
- Building
- Campground
- Dock
- Driveway
- Rest Rooms
- Trail
- Park Boundaries

#### Proposed Improvement

- Mangrove Boardwalk

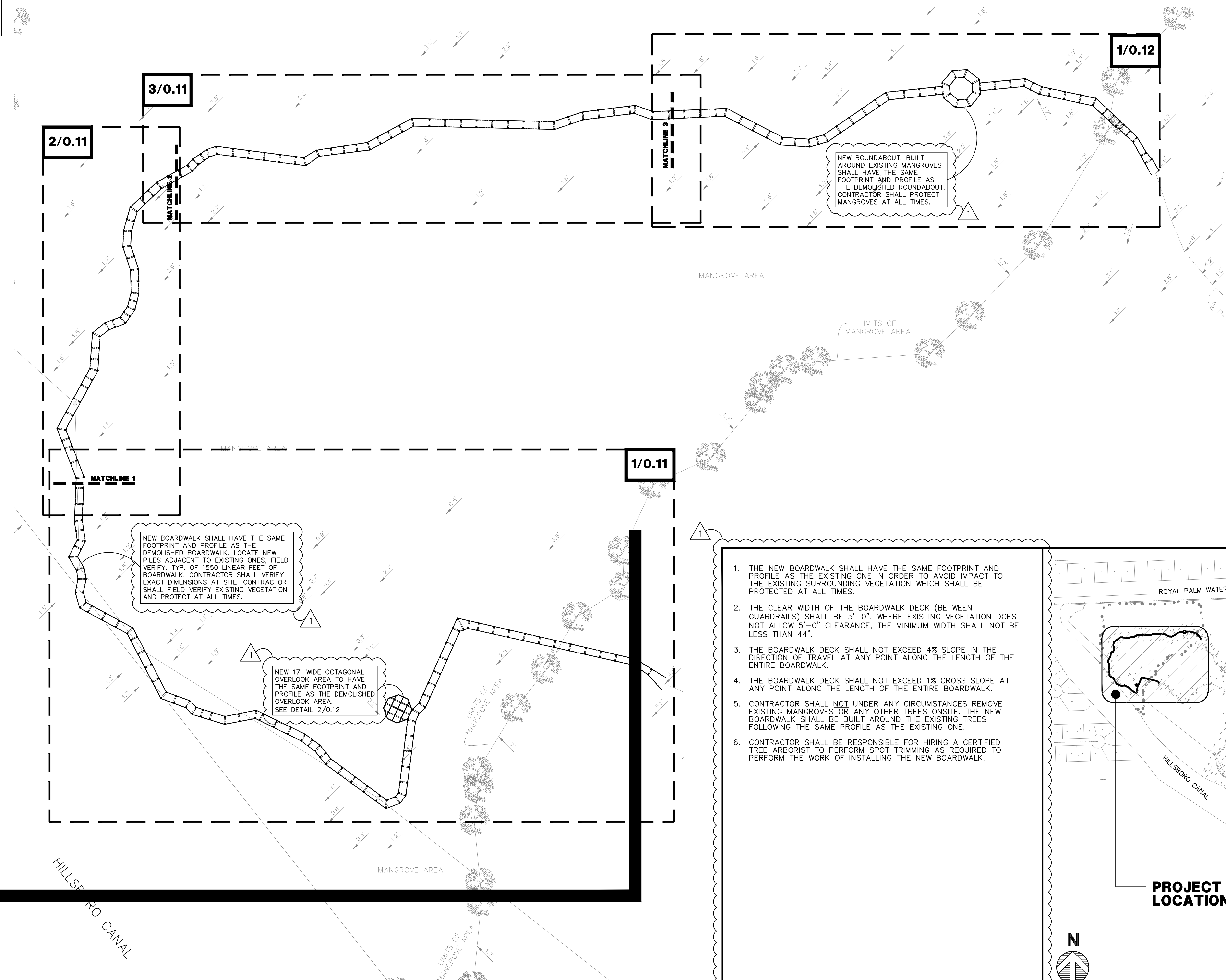


This map is for planning purposes only.  
For more information please call the  
Environmental Section at 954.357.8120

0 75 150 300  
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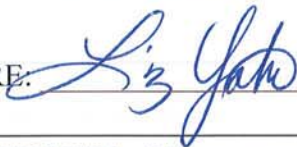
## ATTACHMENT E-2

**WATERWAYS ASSISTANCE PROGRAM FY 2017  
PROJECT APPLICATION  
APPLICANT INFORMATION – PROJECT SUMMARY**

APPLICANT INFORMATION			
<b>Applicant:</b>	Flagler County Board of County Commissioners		
<b>Department:</b>	General Services - Parks and Recreation		
<b>Project Title:</b>	Bing's Landing South Seawall		
<b>Project Director:</b>	Heidi Petito	<b>Title:</b>	General Services Director
<b>Project Liaison:</b> <i>(if different from Project Director)</i>	Liz Yates	<b>Title:</b>	Administrative Assistant
<b>Mailing Address:</b>	1769 E. Moody Blvd. Building #5		
<b>City:</b>	Bunnell	<b>Zip Code:</b>	32110
<b>Email Address:</b>	eyates@flaglercounty.org	<b>Phone #:</b>	386-313-4183
<b>Project Address:</b>	5862 N. Oceanshore Blvd. Palm Coast, FL 32137		

\*\*\*\*\* I hereby certify that the information provided in this application is true and accurate.\*\*\*\*\*

SIGNATURE: \_\_\_\_\_



DATE: \_\_\_\_\_



**PROJECT NARRATIVE** (Please summarize the project in space provided below in 2 paragraphs or less.)

Bing's Landing is one of Flagler County's most heavily used venues for boaters seeking direct access to the Intracoastal Waterway. Bing's is the only public access boat ramp within a 20 mile radius. It has become increasingly more popular since the opening of a BBQ restaurant and bait shop. Due to age and condition, approximately 145 linear feet of retaining wall along the Intracoastal Waterway needs to be reinforced. We are proposing to reinforce the wall by installing an earthen berm and buttress the berm with coquina rock. All maintenance activities will occur above mean high water.

## ATTACHMENT E-3 - PROJECT INFORMATION 2017

<b>Applicant:</b>	Flagler County Board of County	<b>Project Title:</b>	Bing's Landing South Seawall		
<b>Total Project Cost: \$</b>	29,600.00	<b>FIND Funding Requested: \$</b>	14,800	<b>% of Total Cost:</b>	50%
<b>Amount and Source of Applicant's Matching Funds:</b>	\$14,800.00 from the Flagler County General Fund, FY18 Capital Projects				

1. Ownership of Project Site (check one): Own: ☒ Leased: ☐ Other: ☐

2. If leased or other, please describe lease or terms and conditions:

N/A

3. Has the District previously provided assistance funding to this project or site? Yes: ☒ No: ☐

4. If yes, please list:

Project FL-09-16, Project FL-12-18, Project FL-12-19, Project FL-15-25, Project FL-15-26

5. What is the current level of public access in terms of the number of boat ramps, boat slips and trailer parking spaces, linear feet of boardwalk (etc.)? (as applicable):

1 boat ramp, no boat slips, 35 trailer parking spaces, 8 vehicle parking spaces, 467 linear feet of boardwalk, 370 linear feet of floating aluminum dock and a floating aluminum kayak launch.

6. How many additional ramps, slips, parking spaces or other access features will be added by this project?

N/A

7. Are fees charged for the use of this project? No ☒ Yes ☐ \*\*

\*\*If yes, please attach additional documentation of fees and how they compare with fees from similar public & private facilities in the area.

Please list all Environmental Resource Permits required for this project:

AGENCY	Yes / No / N/A	Date Applied For	Date Recieved
WMD	N/A	-	-
DEP	Yes	Pending	Pending
ACOE	Yes	Pending	Pending
COUNTY / CITY	No	-	-



## ATTACHMENT E-4

**WATERWAYS ASSISTANCE PROGRAM  
APPLICATION AND EVALUATION WORKSHEET**

**DIRECTIONS:** All applicants will complete questions 1 through 6, and then based on the type of project, complete one and only one subsection (E-4A, B, C, D or E) for questions 7-10.

**\*\*Please keep your answers brief and do not change the pagination of Attachment E-4 \*\***

All other sub-attachments that are not applicable to an applicant's project should not be included in the submitted application.

<b>Project Title:</b>	Bing's Landing South Seawall
<b>Applicant:</b>	Flagler County Board of County Commissioners

---

**1) PRIORITY LIST:**

a) **Denote the priority list category of this project from Attachment C in the application.** (The application may only be of **one** type based upon the predominant cost of the project elements.)

4. Public shoreline stabilization directly benefiting the District's waterway channels.

b) **Explain how the project fits this priority category.**

This project consists of repairing sections of aged and damaged seawall directly fronting a launch basin that is the only public boat ramp in a 20 mile radius.

*(For reviewer only)*

Max. Available Score for application      49

Question 1. Range of Score    (1 to 7 points)

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**2) WATERWAY RELATIONSHIP:**

- a) **Explain how the project relates to the ICW and the mission of the Navigation District.**

In our continued maintenance of the facilities at Bing's Landing, this repair will strengthen the widely used basin and ensure boaters' enjoyment of the inland waterways.

- b) **What public access or navigational benefit to the ICW or adjoining waterway will result from this project?**

This is a public access, ADA compliant, boat ramp facility which is open 24 hours a day, 7 days a week. Improvements and continued maintenance will only enhance the popularity of this park.

*(For reviewer only)*  
*(1-6 points)*

---

**3) PUBLIC USAGE & BENEFITS:**

- a) **How is the public usage of this project clearly identified and quantified? Estimate the amount of total public use.**

Public usage of Bing's Landing is obvious due to the number of boat trailers found at the facility on a day-to-day basis. On weekends, parking frequently overflows from the more-than-30 trailer parking spaces into other areas of the park.

- b) **Discuss the regional and local public benefits that will be provided by the project. Can residents from other counties of the District reasonably access and use the project? Explain.**

Bing's Landing is the northern most boat launch in Flagler County, therefore, the first launch accessible to boaters visiting from St. Johns County. It is also the closest boat launch to Matanzas Inlet, an increasingly popular boating and fishing destination. Fortifying the shoreline will ensure the continued use of this facility by local and visiting park patrons.

- c) **Are there any restrictions placed on commercial access or use of this site?**

In accordance with Flagler County ordinance 23-2.28&30, it is prohibited to: erect or occupy any structure in any park or playground, or sell or give away from any such structure any food, drink or other thing, without county authorization.

*(For reviewer only)*  
*(1-8 points)*

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#### 4) TIMELINESS

- a) **Describe current status of the project and present a reasonable and effective timeline for the completion of the project consistent with Attachment E-6.**

It is anticipated that Flagler County will be able to complete the repair of the seawall within 1 year of receiving the funding needed for the project

- b) **Briefly explain any unique aspects of this project that could influence the project timeline.**

Aside from weather related events, (hurricanes, tropical storms, etc) there are no known aspects of this project that would influence the timeline or delay construction.

*(For reviewer only)*  
*(1-3 points)*

---

#### 5) COSTS & EFFICIENCY:

- a) **List funding sources and the status and amount of the corresponding funding that will be utilized to complete this project.**

The proposed match (\$14,800.00) will be budgeted from the Flagler County General Fund, FY18 Capital Projects.

- b) **Identify and describe any project costs that may be increased because of the materials utilized or specific site conditions.**

N/A

- c) **Describe any methods to be utilized to increase the cost efficiency of this project.**

Flagler County will act as the Owner/Builder pulling permits and also act as the general contractor for work performed.

- d) **If there are any fees associated with the use of this facility, please detail. In addition, please provide a listing of the fees charged by similar facilities, public and private, in the project area.**

There are no fees charged for access to or use of this facility. There are no privately owned boat launches open to the general public in Flagler County. No fees are charged at any County-owned facilities with the exception of rental or reservation fees.

*(For reviewer only)*  
*(1-6 points)*

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**6) PROJECT VIABILITY:**

- a) **What specific need in the community does this project fill? Is this project referenced or incorporated in an existing maritime management, public assess or comp plan?**

Being the only direct access boat ramp into the ICW within a 20 mile radius, the community would be without a valuable asset if this facility did not exist or if it was not maintained and upgraded as needed.

- b) **Clearly demonstrate how the project will continue to be maintained and funded after District funding is completed.**

Flagler County Parks & Recreation will provide perpetual maintenance of this site. The department has a full time staff and oversees maintenance of all County facilities.

- c) **Will the program result in significant and lasting benefits? Explain.**

Yes. This project, repairing our existing seawall will help to maintain the integrity of our boat basin and ensure the continuing popularity of this facility.

- d) **Please describe any environmental benefits associated with this project.**

*(For reviewer only)*  
*(1-7 points)*

---

SUB-TOTAL \_\_\_\_\_

FIND FORM NO. 91-25

Rule 66B-2.005 (Effective Date: 3-21-01, Revised 4-24-06, 1-27-14)

**ATTACHMENT E-4A  
DEVELOPMENT & CONSTRUCTION PROJECTS**

**WATERWAYS ASSISTANCE PROGRAM  
APPLICATION AND EVALUATION WORKSHEET**

THIS ATTACHMENT IS TO BE COMPLETED IF YOUR PROJECT IS A  
DEVELOPMENT OR CONSTRUCTION PROJECT BUT IS NOT AN INLET  
MANAGEMENT OR BEACH RENOURISHMENT PROJECT.

---

**7) PERMITTING:**

- a) Have all required environmental permits been applied for? (USACE, DEP and WMD)  
If permits are NOT required, explain why not.**

Flagler County is in the process of gathering information needed to apply for permits at this time. Permits will be applied for in April 2017. We believe that many of our activities will be covered under 'maintenance' (Nationwide permit #3) or covered by F.S. 403.813 (1)(e) that pertains to the restoration of seawalls.

- b) If the project is a Phase I project, list the tasks scheduled to obtain the necessary permits and engineering work and provide a general cost estimate for the future Phase II work.**

N/A

- c) Detail any significant impediments that may have been identified that would potentially delay the timely issuance of the required permits.**

N/A

*(For reviewer only)  
(1-4 points)*

---

**8) PROJECT DESIGN:**

- a) **Has the design work been completed? If this is a Phase I project, has a preliminary design been developed?**

The design work has been completed.

- b) **Are there unique beneficial aspects to the proposed design that enhance public usage or access, minimize environmental impacts, improve water quality or reduce costs?**

Materials used to reinforce the retaining wall are indigenous to Flagler County (coquina rock).

*(For reviewer only)*  
*(1-2 points)*

---

**9) CONSTRUCTION TECHNIQUES:**

- a) **Briefly explain the construction techniques to be utilized for this project. If a Phase 1, elaborate on potential techniques.**

Existing retaining wall components will be broken mechanically and cleared both mechanically and by hand. Repairs will be done by hand and replacement of the seawall will be completed both mechanically and by hand.

- b) **How are the utilized construction techniques appropriate for the project site?**

This project is located within a National Scenic Byway Corridor. Careful construction techniques are appropriate for this site due to the sensitive environmental nature of the site and its known archaeological and historical resources.

- c) **Identify any unusual construction techniques that may increase or decrease the costs of the project.**

None.

*(For reviewer only)*  
*(1-3 points)*

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**10) CONSTRUCTION MATERIALS:**

- a) **List the materials to be utilized for this project. What is the design life of the proposed materials compared to other available materials?**

Earthen berm of clean fill dirt, filter fabric to stabilize new berm, Bahia sod to cover new dirt and coquina rock to reinforce existing retaining wall. These materials are the most viable and environmentally friendly to use for the purposes of this project.

- b) **Identify any unique construction materials that may significantly alter the project costs.**

N/A

*(For reviewer only)*  
*(1-3 points)*

---

**RATING POINT  
TOTAL** \_\_\_\_\_

(Note: The total maximum score possible is dependent upon the project priority category but cannot exceed 50 points unless the project qualifies as an emergency-related project. The minimum score possible is 10 points. A score of 35 points or more is required to be considered for funding.)

## ATTACHMENT E-5

**FLORIDA INLAND NAVIGATION DISTRICT  
ASSISTANCE PROGRAM 2017**

**PROJECT COST ESTIMATE**

(See Rule Section 66B-2.005 & 2.008 for eligibility and funding ratios)

<b>Project Title:</b>	<b>Bing's Landing South Seawall</b>
<b>Applicant:</b>	<b>Flagler County Board of County Commissioners</b>

<b>Project Elements</b> <i>(Please list the MAJOR project elements and provide general costs for each one. For Phase I Projects, please list the major elements and products expected)</i>	<b>Quantity or Total Estimated Cost</b> <i>(Number and/or Footage etc.)</i>	<b>Applicant's Cost</b>	<b>FIND Cost</b>
<b>Equipment Rental (Bobcat Attachment)</b>	<b>\$1,500.00</b>	<b>\$750.00</b>	<b>\$750.00</b>
<b>Remove 400 cubic yards of debris</b>	<b>\$2,200.00</b>	<b>\$1,100.00</b>	<b>\$1,100.00</b>
<b>Install 800 cubic yard earthen berm</b>	<b>\$12,000.00</b>	<b>\$6,000.00</b>	<b>\$6,000.00</b>
<b>Install 900 sq ft filter fabric</b>	<b>\$225.00</b>	<b>\$112.50</b>	<b>\$112.50</b>
<b>Install 1,500 sq ft of sod</b>	<b>\$375.00</b>	<b>\$187.50</b>	<b>\$187.50</b>
<b>Install 400 cubic yards of coquina rock to form seawall</b>	<b>\$13,300.00</b>	<b>\$6,650.00</b>	<b>\$6,650.00</b>
<b>**TOTALS =</b>	<b>\$29,600.00</b>	<b>\$ 14,800.00</b>	<b>\$14,800.00</b>

ATTACHMENT E-6  
WATERWAYS ASSISTANCE PROGRAM 2017

PROJECT TIMELINE

Project Title:	Bings Landing South Seawall
Applicant:	Flagler County Board of County Commissioners

The applicant is to present a detailed timeline on the accomplishment of the components of the proposed project including, as applicable, completion dates for: permitting, design, bidding, applicant approvals, initiation of construction and completion of construction.

NOTE: All funded activities must begin AFTER October 1<sup>st</sup>  
(or be consistent with Rule 66B-2.005(3)- Pre-agreement expenses)

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\*Projected schedule based upon approved grant agreement and available funding October 1, 2017

This is an in-house maintenance project that is above the mean high water mark.  
All necessary permits will be obtained. Project start date:

10/1/17

Project Closeout:

9/30/18





### Flagler County Property Appraiser

Parcel: 40-10-31-3150-00000-0180 Acres: 7.449

Name:	FLAGLER COUNTY BOARD OF COUNTY	Land Value	7,449
Site:	5862 N OCEAN SHORE BLVD	Building Value	294,300
Sale:	1,000,000 on 10-1989 Reason=U Qual=N	Misc Value	265,224
Mail:	COMMISSIONERS	Just Value	566,973
	1769 E MOODY BLVD	Assessed Value	566,973
	BLDG 2 SUITE 302	Exempt Value	566,973
	BUNNELL, FL 32110	Taxable Value	0



The Flagler County Property Appraiser's Office makes every effort to produce the most accurate information possible. No warranties, expressed or implied, are provided for the data herein, its use or interpretation. The assessment information is from the last certified taxroll. All data is subject to change before the next certified taxroll. PLEASE NOTE THAT THE PROPERTY APPRAISER MAPS ARE FOR ASSESSMENT PURPOSES ONLY NEITHER FLAGLER COUNTY NOR ITS EMPLOYEES ASSUME RESPONSIBILITY FOR ERRORS OR OMISSIONS ---THIS IS NOT A SURVEY---

Date printed: 03/30/17 : 15:55:50





Flagler County Property Appraiser			
Parcel: 40-10-31-3150-00000-0180 Acres: 7.449			
Name:	FLAGLER COUNTY BOARD OF COUNTY	Land Value	7,449
Site:	5862 N OCEAN SHORE BLVD	Building Value	294,300
Sale:	1,000,000 on 10-1989 Reason=U Qual=N	Misc Value	265,224
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The Flagler County Property Appraiser's Office makes every effort to produce the most accurate information possible. No warranties, expressed or implied, are provided for the data herein, its use or interpretation. The assessment information is from the last certified taxroll. All data is subject to change before the next certified taxroll. PLEASE NOTE THAT THE PROPERTY APPRAISER MAPS ARE FOR ASSESSMENT PURPOSES ONLY NEITHER FLAGLER COUNTY NOR ITS EMPLOYEES ASSUME RESPONSIBILITY FOR ERRORS OR OMISSIONS ---THIS IS NOT A SURVEY---

Date printed: 03/30/17 : 16:09:50

A1A

*Proposed Reinforcement  
of Retaining Wall*



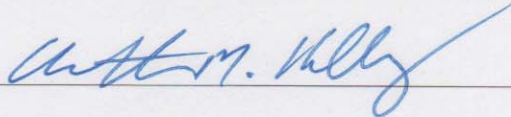
## ATTACHMENT E-2

**WATERWAYS ASSISTANCE PROGRAM FY 2017  
PROJECT APPLICATION  
APPLICANT INFORMATION – PROJECT SUMMARY**

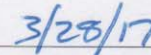
APPLICANT INFORMATION			
<b>Applicant:</b> Town of Marineland			
<b>Department:</b> Marina			
<b>Project Title:</b> Town of Marineland Marina Reconstruction Phase 3			
<b>Project Director:</b> Mayor Leslie Babonis		<b>Title:</b>	Mayor, Town of Marineland
<b>Project Liaison:</b> <i>(if different from Project)</i> Chris Kelley		<b>Title:</b>	Dockmaster
<b>Mailing Address:</b>		101 Tolstoy Lane	
<b>City:</b> St Augustine		<b>Zip Code:</b>	32080
<b>Email Address:</b> marinelandmarina@gmail.com		<b>Phone #:</b>	904-315-9892
<b>Project Address:</b>		101 Tolstoy Lane, St. Augustine, FL 32080	

\*\*\*\*\* I hereby certify that the information provided in this application is true and accurate. \*\*\*\*\*

SIGNATURE: \_\_\_\_\_



DATE: \_\_\_\_\_


**PROJECT NARRATIVE** (Please summarize the project in space provided below in 2 paragraphs or less.)

The Town of Marineland is seeking funding for phase 3 of the redevelopment of the Town of Marineland Marina. Phase 1 was completed and the public marina reopened as a "Clean Marina" on August 20, 2011. Phase 2 construction is underway to accommodate this ever-popular destination for 30'-55' trawlers and sailboats and will be completed summer 2017. The marina is permitted for 85 slips and both the Army Corps and DEP permits are in place. The success of this municipal marina beckons for additional docks as the marina has become a waypoint, destination, Clean Marina, and safe harbor for transient vessels cruising the Atlantic ICW. The marina is at capacity and turning away potential visitors to this documented Remarkable Coastal Place. The goal of phase 3 is to add approximately 275' of transient floating docks inside the already existing marina basin to accommodate larger cruising vessels over 60' as well as increasing dock access to smaller day boats. Attracting the boating community creates a destination for boat clubs and local vessels to visit this unique and iconic coastal place and to participate in the eco-educational and science programming that is a benchmark of this unique environment. The proposed project would also include parking, restroom facilities, a pavilion and additional administrative space. The Town of Marineland's comprehensive plan includes operating the marina as a hub for local and transient vessels traversing the Atlantic Intracoastal Waterway.



## ATTACHMENT E-3 - PROJECT INFORMATION 2017

<b>Applicant: Town of Marineland</b>		<b>Project Title:</b>	
<b>Total Project Cost: \$350,000</b>	<b>FIND Funding Requested: \$175,000</b>	<b>% of Total Cost: 50%</b>	
<b>Amount and Source of Applicant's Matching Funds:</b>	Flagler County Tourist Development Council \$150,000 Town of Marineland \$25,000		

1. **Ownership of Project Site (check one):** Own: ☒ Leased: ☐ Other: ☐

2. **If leased or other, please describe lease or terms and conditions:**

3. **Has the District previously provided assistance funding to this project or site?** Yes: ☒ No: ☐

4. **If yes, please list:**

The district provided \$202,000 for the completion of phase 1 of the development of the marina in 2011, \$136,983 for phase 2 construction in 2014, and \$184,556 for phase 2 construction in 2016.

5. **What is the current level of public access in terms of the number of boat ramps, boat slips and trailer parking spaces, linear feet of boardwalk (etc.)? (as applicable):**

There are currently 54 slips in the marina. The 250' floating dock, 4 of the fixed slips and all 30 of the phase 2 slips are available to the public on a first-come-first-served basis. The remainder of the slips are available for monthly rental. The proposed floating facedock for Phase 3 will be available to the public on a first-come-first-served basis.

6. **How many additional ramps, slips, parking spaces or other access features will be added by this project?**

Phase 3 will add an additional 275' facedock to create from 6-10 slips depending on boat length. The total build out of the project will not exceed 85 slips within the marina basin.

7. **Are fees charged for the use of this project?** No ☐ Yes ☒

**\*\*If yes, please attach additional documentation of fees and how they compare with fees from similar public & private facilities in the area.**

**Please list all Environmental Resource Permits required for this project:**

AGENCY	Yes / No / N/A	Date Applied For	Date Received
WMD	N/A		
DEP	Yes		Jan. 5, 2009
ACOE	Yes		April 7, 2010
COUNTY / CITY	N/A		

**ATTACHMENT E-4****WATERWAYS ASSISTANCE PROGRAM  
APPLICATION AND EVALUATION WORKSHEET**

**DIRECTIONS:** All applicants will complete questions 1 through 6, and then based on the type of project, complete one and only one subsection (E-4A, B, C, D or E) for questions 7-10.

**\*\*Please keep your answers brief and do not change the pagination of Attachment E-4\*\***

All other sub-attachments that are not applicable to an applicant's project should not be included in the submitted application.

<b>Project Title:</b>	Town of Marineland Marina Reconstruction Phase 3
<b>Applicant:</b>	Town of Marineland

**1) PRIORITY LIST:**

a) **Denote the priority list category of this project from Attachment C in the application.** (The application may only be of **one** type based upon the predominant cost of the project elements.)  
Line item 8: Acquisition, dredging, shoreline stabilization and development of public boat docking and mooring facilities.

b) **Explain how the project fits this priority category.**

The funding request is for the reconstruction of the Town of Marineland Marina expanding the opportunities for public access for transient vessels – public boat docking.

*(For reviewer only)*

Max. Available Score for application     47

Question 1. Range of Score     (1 to 5 points)



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## 2) WATERWAY RELATIONSHIP:

- a) Explain how the project relates to the ICW and the mission of the Navigation District.

The Town of Marineland Marina is directly contiguous with the ICW and is operated by the Town of Marineland to create a municipal harbor for transient vessels.

- b) What public access or navigational benefit to the ICW or adjoining waterway will result from this project?

Marineland Marina has had a long history as a significant waypoint/stopover for vessels traversing the ICW. Many 5-8 knot boats prefer to make the run from New Smyrna to Marineland, and then to Fernandina. The Marineland Marina makes these jumps possible during daylight hours which significantly reduces the hazards of navigating in the dark. The closest marinas are 17 miles to the north and 7 miles to the south.

*(For reviewer only)*  
*(1-6 points)*

---

## 3) PUBLIC USAGE & BENEFITS:

- a) How is the public usage of this project clearly identified and quantified? Estimate the amount of total public use.

The Marineland Marina is open to slip rental opportunity for the general public. Both monthly and transient slips are offered to the general public on a first come-first served basis.

- b) Discuss the regional and local public benefits that will be provided by the project. Can residents from other counties of the District reasonably access and use the project? Explain.

The Marineland Marina offers a safe haven for cruisers in a completely protected basin. Vessels from St. Augustine often times seek refuge at Marineland from the winter storms as the mooring fields there can be very rough in a Northeast wind. Marineland Marina also offers a destination for boaters interested in the cultural/historical/scientific legacy of Marineland and the 40,000 acres of parks and conservation lands that surround the marina.

Yes residents from other counties of the District can access and use the project. The general public will have the opportunity to rents slips at regional market rates. Residents of Volusia, Flagler, St. Johns, and Duval county will find it convenient and only a day away for most vessels in these counties.

- c) Are there any restrictions placed on commercial access or use of this site?

Commercial dockage is limited especially during peak transient season as this is a recreational/transient marina facility in a tourist area that does not provide good access for commercial projects.

*(For reviewer only)*  
*(1-8 points)*

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#### 4) TIMELINESS

- a) Describe current status of the project and present a reasonable and effective timeline for the completion of the project consistent with Attachment E-6.

Phase 1 was completed in August of 2011. Phase 2 is well underway and should be completed by August, 2017. It is anticipated that Phase 3 construction will begin in May, 2018 and be completed by September, 2018.

- b) Briefly explain any unique aspects of this project that could influence the project timeline.

There are no known issues that would affect the time schedule for this project at this time. The project has already been permitted by the necessary agencies.

*(For reviewer only)*  
*(1-3 points)*

---

#### 5) COSTS & EFFICIENCY:

- a) List funding sources and the status and amount of the corresponding funding that will be utilized to complete this project.

The Town is applying for a grant for \$150,000 from the Flagler County Tourist Development Council. There is also an existing grant pending match from the Florida Boating Improvement Program for \$300,000.

- b) Identify and describe any project costs that may be increased because of the materials utilized or specific site conditions.

The Town of Marineland has adopted a progressive Comprehensive Plan that requires that new development utilize green products where possible. One such green product would be to use a recycled decking material, such as Trex, for the docks.

- c) Describe any methods to be utilized to increase the cost efficiency of this project.

The project will be put out for public bid as required by the municipality guiding protocols. Where possible the work that can be accomplished by volunteers will be done by same. Much of the infrastructure was completed in Phases 1 and 2, such as bulkheads, engineering, electrical service, and pump-out facilities. Phase 3 will have cost efficiency advantages of that continuation.

- d) If there are any fees associated with the use of this facility, please detail. In addition, please provide a listing of the fees charged by similar facilities, public and private, in the project area.

Daily - \$1.25/ft

Weekly - \$6.00/ft

Monthly - \$10.00/ft

7 other marinas from Palm Coast to St. Augustine charge monthly rates that range from \$8.00 to \$15.00/ft based on the quality of the marina and the amenities offered. Daily rates range from \$1.00/ft to \$2.25/ft.

*(For reviewer only)*  
*(1-6 points)*

---



**6) PROJECT VIABILITY:**

- a) What specific need in the community does this project fill? Is this project referenced or incorporated in an existing maritime management, public assess or comp plan?

Yes. There is currently a waiting list for vessels to dock at the Marineland Marina and there is also a need for slips for the research organizations within the Town. The marina is also the closest one to the Matanzas Inlet of any on the ICW. The Town of Marineland Comp Plan does include the marina as a necessary source of revenue.

- b) Clearly demonstrate how the project will continue to be maintained and funded after District funding is completed.

The project will be self-funded through slip rental fees as well as through the town reserves.

- c) Will the program result in significant and lasting benefits? Explain.

Some of the proposed boat slips will be leased to the University of Florida Whitney Lab, the Guana Tolomato Matanzas National Estuarine Research Reserve(GTMNERR), and Georgia Aquarium's Marineland Dolphin Adventure for biomedical and marine/estuarine research. These well known institutions continue to learn more about our environment we live and boat in every day.

- d) Please describe any environmental benefits associated with this project.

The Town of Marineland Marina is staffed by environmental educators that carry the highest regard for this most natural and productive coastal ecosystem surrounding the marina. This environmental ethic continues through our clean marina program and various environmental education programs that are available for boaters such as the Florida Master Naturalist Program that is taught by the marina staff. All landscaping for the Marineland Marina is native plantings that require no watering or fertilizers. All products used in the daily business operations for the marina such as paper and restroom products are made from recycled materials and the marina offers recycling for all the boaters as well as free pump-outs and continued support and information on the best practices for boaters to sustain the natural communities in coastal Florida.

*(For reviewer only)*  
*(1-7 points)*

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SUB-TOTAL \_\_\_\_\_



**ATTACHMENT E-4A  
DEVELOPMENT & CONSTRUCTION PROJECTS**

**WATERWAYS ASSISTANCE PROGRAM  
APPLICATION AND EVALUATION WORKSHEET**

THIS ATTACHMENT IS TO BE COMPLETED IF YOUR PROJECT IS A  
DEVELOPMENT OR CONSTRUCTION PROJECT BUT IS NOT AN INLET  
MANAGEMENT OR BEACH RENOURISHMENT PROJECT.

---

**7) PERMITTING:**

- a) Have all required environmental permits been applied for? (USACE, DEP and WMD)  
If permits are NOT required, explain why not.

The project has acquired the necessary Army Corp and the DEP Permits. All that is needed is the building permit issued by Flagler County.

- b) If the project is a Phase I project, list the tasks scheduled to obtain the necessary permits and engineering work and provide a general cost estimate for the future Phase II work.

Phase 3 cost estimate is \$350,000.

- c) Detail any significant impediments that may have been identified that would potentially delay the timely issuance of the required permits.

None know at this time.

*(For reviewer only)  
(1-4 points)*

---

**8) PROJECT DESIGN:**

- a) Has the design work been completed? If this is a Phase I project, has a preliminary design been developed?

A preliminary design has been completed by ATM for Phase 3.

- b) Are there unique beneficial aspects to the proposed design that enhance public usage or access, minimize environmental impacts, improve water quality or reduce costs?

The project is designed to be built and is currently operated as a Florida "Clean Marina". Green Building practices shall be utilized where feasible and pump-out is available at most slips.

*(For reviewer only)*

*(1-2 points)*

---

**9) CONSTRUCTION TECHNIQUES:**

- a) Briefly explain the construction techniques to be utilized for this project. If a Phase 1, elaborate on potential techniques.

Standard best management building practices shall be used on this project.

- b) How are the utilized construction techniques appropriate for the project site?

The Town of Marineland requires that all licensed development use green building materials and design. The Town also requires Best Management Practices on all developments and construction.

- c) Identify any unusual construction techniques that may increase or decrease the costs of the project.

There are none known at this time.

*(For reviewer only)*

*(1-3 points)*

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**10) CONSTRUCTION MATERIALS:**

- a) List the materials to be utilized for this project. What is the design life of the proposed materials compared to other available materials?

Concrete pilings and timber floating docks with recycled composite decking. All utilities will be marine grade standard with an average life expectancy of well over 30 years.

- b) Identify any unique construction materials that may significantly alter the project costs.

There are none known at this time.

*(For reviewer only)*  
*(1-3 points)*

---

**RATING POINT**  
**TOTAL** \_\_\_\_\_

(Note: The total maximum score possible is dependent upon the project priority category but cannot exceed 50 points unless the project qualifies as an emergency-related project. The minimum score possible is 10 points. A score of 35 points or more is required to be considered for funding.)

Form No. 91-25A  
Rule 66B-2.005 (Effective Date: 3-21-01, revised 4-24-06, 1-27-14)





**ATTACHMENT E-6  
WATERWAYS ASSISTANCE PROGRAM 2017**

**PROJECT TIMELINE**

<b>Project Title:</b>	Town of Marineland Marina Phase 3
<b>Applicant:</b>	Town of Marineland

The applicant is to present a detailed timeline on the accomplishment of the components of the proposed project including, as applicable, completion dates for: permitting, design, bidding, applicant approvals, initiation of construction and completion of construction.

**NOTE: All funded activities must begin AFTER October 1<sup>st</sup>**  
(or be consistent with Rule 66B-2.005(3) - Pre-agreement expenses)

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**April 2016 - July 2017**

Secure multiple funding sources to accomplish the construction of Phase 3 of the Town of Marineland Marina.

**January 2018**

Utilize an engineering firm to complete final engineering with bidding support services to contractors, as the project will be put out for public bid as required by the municipality guiding protocols.

**March 2018**

The contract will be awarded to the lowest bidder and final construction plans will be completed.

Secure a grant anticipation note.

**May 2018 - September 2018**

Dredge the marina basin removing approximately 3000 cubic yards of sediment as per a bathymetric survey.

Construct a floating transient dock and associated utilities.

Construct a marina building to include restrooms to support the new capacity of the expansion.

Add appropriate signage for the new expansion and fire safety to conform to the Town of Marineland requirements.

Complete as-builds for Army Corps, DEP, and any other reporting obligations for grant reimbursement.



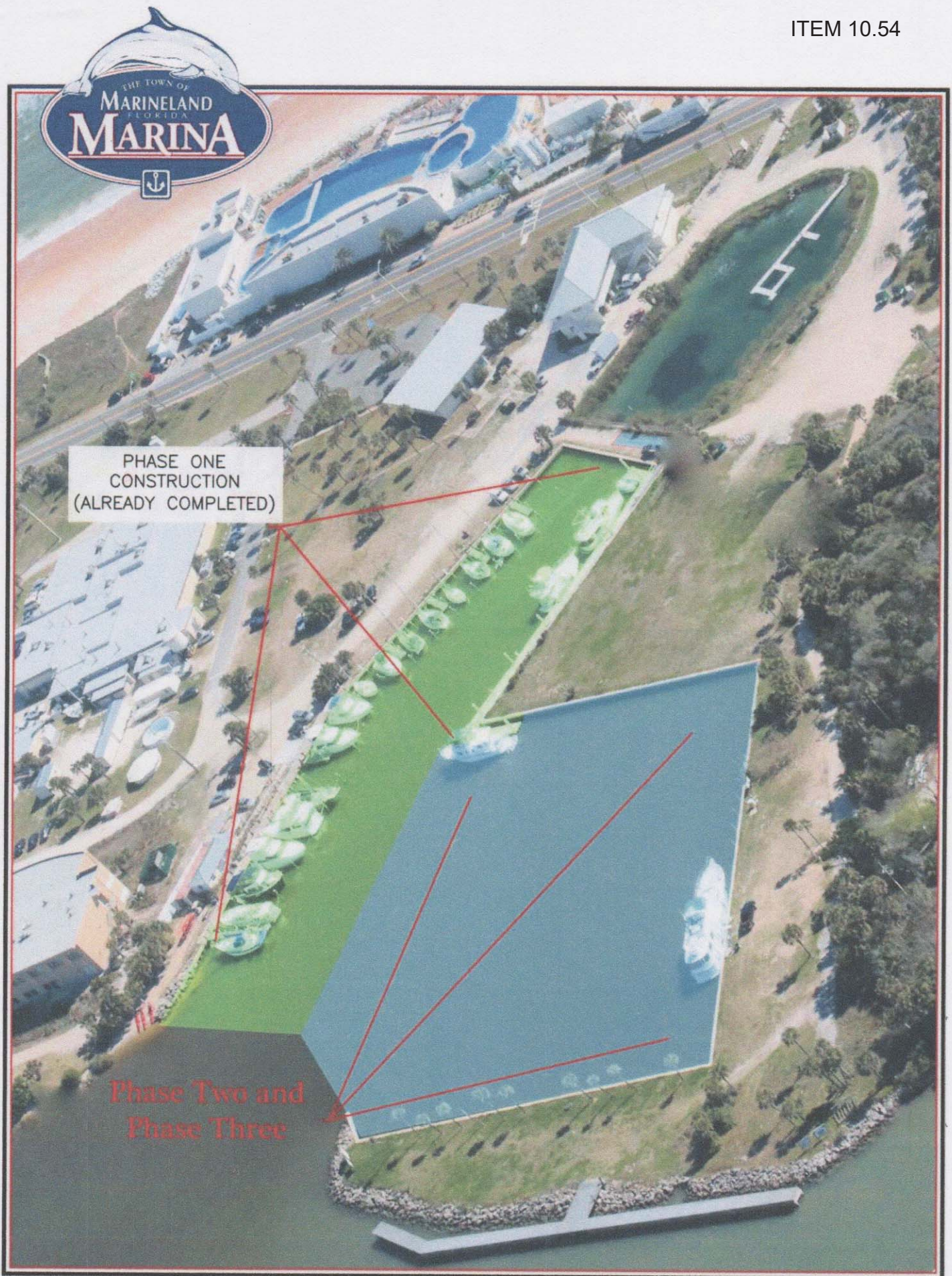
Flagler County Location Map



City Location Map





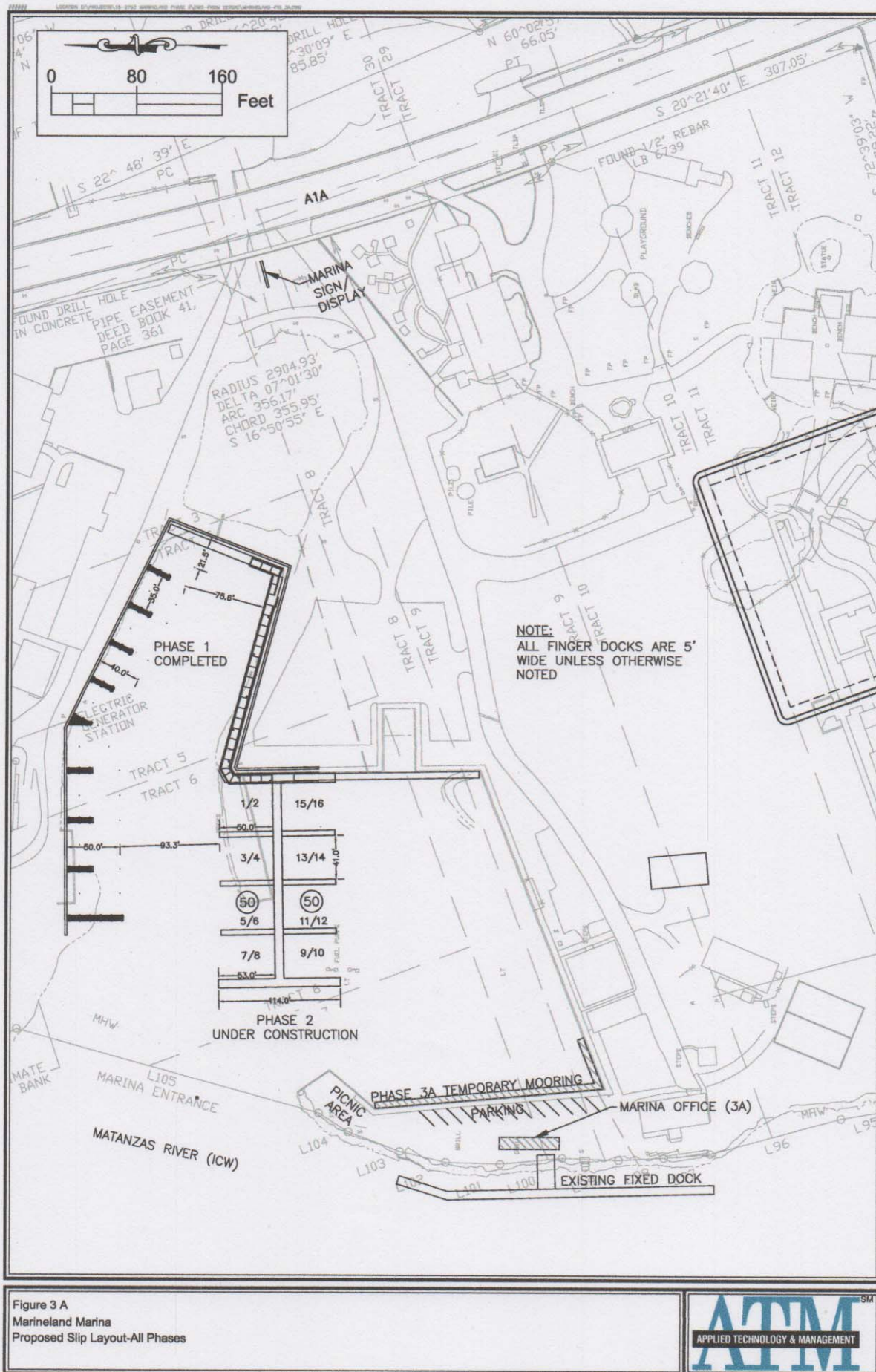


PHASE ONE  
CONSTRUCTION  
(ALREADY COMPLETED)

Phase Two and  
Phase Three

WORK AREA





## ATTACHMENT E-2

**WATERWAYS ASSISTANCE PROGRAM FY 2017  
PROJECT APPLICATION  
APPLICANT INFORMATION – PROJECT SUMMARY**

<b>APPLICANT INFORMATION</b>			
<b>Applicant:</b> City of Belle Glade			
<b>Department:</b> Finance Department			
<b>Project Title:</b> Pavilion Lake Piers, Docks, and Gangways			
<b>Project Director:</b> Phillip Rincon		<b>Title:</b>	Grants/Special Projects Manager
<b>Project Liaison:</b> <i>(if different from Project)</i>		<b>Title:</b>	
<b>Mailing Address:</b>	110 Dr. Martin Luther King Jr Blvd., West		
<b>City:</b> Belle Glade	<b>Zip Code:</b>	33430	
<b>Email Address:</b> Princon@belleglade-fl.com	<b>Phone #:</b>	561.996.0100 ext. 123	
<b>Project Address:</b>	500 Canal Street Road North, Belle Glade, FL 33430		

\*\*\*\*\* I hereby certify that the information provided in this application is true and accurate. \*\*\*\*\*

SIGNATURE:  DATE: 03/27/2017

**PROJECT NARRATIVE** (Please summarize the project in space provided below in 2 paragraphs or less.)

The City of Belle Glade is requesting funding for the demolition and subsequent construction of a new wooden boardwalk with two land access piers that connect to two aluminum gangways with wooden floating boat docks, respectively. The project also includes shoreline stabilization. The project will provide a safer and more accessible structure for the public to visit, especially the wetlands surrounding Torry Island and Lake Okeechobee.



## ATTACHMENT E-3 - PROJECT INFORMATION 2017

Applicant: City of Belle Glade		Project Title: Pavilion Lake Piers, Docks, and Gangways	
Total Project Cost: \$ 699,384	FIND Funding Requested: \$ 349,692	% of Total Cost: 50% of total cost	
Amount and Source of Applicant's Matching Funds:	City of Belle Glade: \$ 349,692		

**1. Ownership of Project Site (check one):** Own: ☒ Leased: ☐ Other: ☐

**2. If leased or other, please describe lease or terms and conditions:**

N/A

**3. Has the District previously provided assistance funding to this project or site?** Yes: ☒ No: ☐

**4. If yes, please list:**

In 2008- construction of bulkheads; 2009-Walkway, hand rails, piers, gangways; 2014-Boardwalk, 2016-Waterfront-lagoon Fishing Section and observation tower

**5. What is the current level of public access in terms of the number of boat ramps, boat slips and trailer parking spaces, linear feet of boardwalk (etc.)? (as applicable):**

Torry Island currently has 8 boat docks/piers of various sizes for fishing and/or swimming, a boardwalk, 2 large double boat ramps and 2 single boat ramps, and over 150 trailer spaces. Specifically, on the North side of Pavilion Lake (located within Torry Island) are three wooden docks: 200'6'', 118', & 201', and 1 deteriorated boardwalk to be demolished and replaced according to the project's proposed plans.

**6. How many additional ramps, slips, parking spaces or other access features will be added by this project?**

The project will add two wooden boat docks, providing an additional total of 8-12 docking tie-up sites.

**7. Are fees charged for the use of this project?** No ☒ Yes ☐ \*\*

**\*\*If yes, please attach additional documentation of fees and how they compare with fees from similar public & private facilities in the area.**

**Please list all Environmental Resource Permits required for this project:**

AGENCY	Yes / No / N/A	Date Applied For	Date Received
WMD	N/A		
DEP	Yes	In application process	Pending
ACOE	N/A		
COUNTY / CITY	N/A		

## ATTACHMENT E-4

**WATERWAYS ASSISTANCE PROGRAM  
APPLICATION AND EVALUATION WORKSHEET**

**DIRECTIONS:** All applicants will complete questions 1 through 6, and then based on the type of project, complete one and only one subsection (E-4A, B, C, D or E) for questions 7-10.

**\*\*Please keep your answers brief and do not change the pagination of Attachment E-4\*\***

All other sub-attachments that are not applicable to an applicant's project should not be included in the submitted application.

<b>Project Title:</b>	Pavilion Lake Piers, Docks and Gangways
<b>Applicant:</b>	City of Belle Glade

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**1) PRIORITY LIST:**

- a) Denote the priority list category of this project from Attachment C in the application.** (The application may only be of one type based upon the predominant cost of the project elements.)

#8 Acquisition, dredging, shoreline stabilization and development of public boat docking facilities.

- b) Explain how the project fits this priority category.**

This project fits priority category #8, which proposes shoreline stabilization and redevelopment of the area for 2 boat docking facilities.

*(For reviewer only)*

Max. Available Score for application     47

Question 1. Range of Score     (1 to 5 points)

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**2) WATERWAY RELATIONSHIP:**

- a) Explain how the project relates to the ICW and the mission of the Navigation District.**

The project will provide public access to wetlands surrounding Torry Island and Lake Okeechobee for recreational fishing, a safer recreational water environment for boaters, kayakers, and canoers to enjoy, and an increased number of dock tie-ups to be used by daily boaters.

- b) What public access or navigational benefit to the ICW or adjoining waterway will result from this project?**

The project location provides access to Lake Okeechobee surrounding Torry Island wetlands. The project will provide additional dock sites with tie-ups for visitors accessing or returning from adjoining waterways.

*(For reviewer only)*  
*(1-6 points)*

---

**3) PUBLIC USAGE & BENEFITS:**

- a) How is the public usage of this project clearly identified and quantified? Estimate the amount of total public use.**

The final project will be open to the public, as is the current area to be redeveloped. Visitors will have free access to Torry Island, parking spots, Pavilion Lake and proposed new boardwalk, piers, and boat docks. The public use of this project is primarily quantified by the number of campers that register when visiting the campgrounds. There are approximately 58,775 campers that visit the site each year, many of which, visit the campground specifically for its boating opportunities.

- b) Discuss the regional and local public benefits that will be provided by the project. Can residents from other counties of the District reasonably access and use the project? Explain.**

The project's major benefit regionally, is the creation of additional docks with tie-ups for boaters seeking to visit the Lake Okeechobee and the City of Belle Glade's wetlands surrounding Torry Island. Residents from other district counties will have public access to the completed facility for recreational fishing, boating, canoeing and kayaking. Locally, benefits include the showcase of a new developed site that will help draw much needed visitors to the area and an expected increase in indirect local business sales.

- c) Are there any restrictions placed on commercial access or use of this site?**

At the present time, commercial access must be approved by the City and City Commissioners.

*(For reviewer only)*  
*(1-8 points)*

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#### 4) TIMELINESS

- a) Describe current status of the project and present a reasonable and effective timeline for the completion of the project consistent with Attachment E-6.**

Overall, the project is expected to take up to 6 to 8 months to complete, weather permitting, from notice to proceed. Once proper permitting is obtained, the project will begin with demolition and shoreline construction including mobilization, estimated to take 30-45 days; the pile placement and pre-cast construction is estimated to take 60 days; the boardwalk construction is estimated to take 45 days; and the gangway and dock installation is estimated to take 30 days.

- b) Briefly explain any unique aspects of this project that could influence the project timeline.**

There are currently no unique aspects to this project that will negatively influence the projected timeline or completion of this project. The project timeline and cost are positively influenced due to the proximity of the shoreline for direct delivery of materials.

*(For reviewer only)*  
*(1-3 points)*

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#### 5) COSTS & EFFICIENCY:

- a) List funding sources and the status and amount of the corresponding funding that will be utilized to complete this project.**

City of Belle Glade funds will be used to match 50% of the total cost of the project, totaling \$349,692, and is presently seeking 50% of the total cost from FIND, totaling \$349,692.

- b) Identify and describe any project costs that may be increased because of the materials utilized or specific site conditions.**

There are no foreseen project costs that may increase due to materials utilized or site conditions.

- c) Describe any methods to be utilized to increase the cost efficiency of this project.**

Shoreline establishment of native species of grasses will be carried out. This technique is recommended to preserve and enhance the shoreline and is considered quicker and more cost effective than using sod. Cost efficiency will also be conveyed and managed throughout the bidding and contract award process. All bid contracts will be awarded to the lowest, responsive and responsible bidder.

- d) If there are any fees associated with the use of this facility, please detail. In addition, please provide a listing of the fees charged by similar facilities, public and private, in the project area.**

There are no fees associated with the use of this facility.

*(For reviewer only)*  
*(1-6 points)*

---

**6) PROJECT VIABILITY:**

- a) What specific need in the community does this project fill? Is this project referenced or incorporated in an existing maritime management, public assess or comp plan?**

This project is part of the city's strategic plan to expand recreational water activities and provide a safer water environment for local residents and visitors alike. Currently, local residents and visitors enjoy walking around the lake and fishing off of the piers and docks that are open to the public but currently, there are no areas on the South-end of Pavilion Lake to launch or tie up canoes, kayaks, or small boats.

- b) Clearly demonstrate how the project will continue to be maintained and funded after District funding is completed.**

The completed project will be owned and maintained by the City of Belle Glade and supported through City funds.

- c) Will the program result in significant and lasting benefits? Explain.**

The project's benefits are the following: a significant financial benefit to local businesses and the City of Belle Glade, provide public access to the wetlands surrounding Torry Island and Lake Okeechobee for recreational fishing; a safer recreational water environment for boaters, kayakers, canoers to enjoy; an increased number of dock tie-up sites to be used by visitors (the City doesn't charge for access to ramps, parking, picnic areas, and Pavilion Lake, all are open to the public); and a restored stabilized shoreline that has been greatly affected by erosion.

- d) Please describe any environmental benefits associated with this project.**

The aluminum material for the gangways will be corrosion-resistant and environmentally friendly, and the new wooden boardwalk, piers, and deck will be constructed with pressure treated wood to replace the existing boardwalk, which has met its usable life.

*(For reviewer only)*  
*(1-7 points)*

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SUB-TOTAL \_\_\_\_\_

FIND FORM NO. 91-25

Rule 66B-2.005 (Effective Date: 3-21-01, Revised 4-24-06, 1-27-14)

**ATTACHMENT E-4A  
DEVELOPMENT & CONSTRUCTION PROJECTS**

**WATERWAYS ASSISTANCE PROGRAM  
APPLICATION AND EVALUATION WORKSHEET**

THIS ATTACHMENT IS TO BE COMPLETED IF YOUR PROJECT IS A  
DEVELOPMENT OR CONSTRUCTION PROJECT BUT IS NOT AN INLET  
MANAGEMENT OR BEACH RENOURISHMENT PROJECT.

**7) PERMITTING:**

- a) Have all required environmental permits been applied for? (USACE, DEP and WMD)  
If permits are NOT required, explain why not.**

Yes, the permitting for the FDEP is currently underway. Permits from the USACE are not applicable for this construction project within this area and a letter from USACE stating that a permit or authorization is not required is pending and will be forwarded to FIND upon its attainment.

- b) If the project is a Phase I project, list the tasks scheduled to obtain the necessary permits and engineering work and provide a general cost estimate for the future Phase II work.**

N/A. The project is not a Phase I project.

- c) Detail any significant impediments that may have been identified that would potentially delay the timely issuance of the required permits.**

The FDEP permit may require additional items due to the potential of any shoreline vegetation impact that may require mitigation planting or other protections to ensure that impacts are minimal. Though, the majority of the area is deep water habitat due to the steep slope of Pavilion Lake and is expected to have minimal or no vegetation.

*(For reviewer only)  
(1-4 points)*



---

## 8) PROJECT DESIGN:

- a) **Has the design work been completed? If this is a Phase I project, has a preliminary design been developed?**

A preliminary design for the elements and their related sizing and connection / access points to existing facilities are in the preliminary process and in-field placement for areas and construction concerns have been addressed.

- b) **Are there unique beneficial aspects to the proposed design that enhance public usage or access, minimize environmental impacts, improve water quality or reduce costs?**

The project will re-establish a connection of a larger public access trail on Torry Island. This area is comprised of two walking trails, two pedestrian bridges, and three docks with gangways and concrete sidewalks. The proposed facility is essential to complete the trail path with a new boardwalk with docks to circulate the area. Each completed dock will also have two benches for visitors to sit on, a ladder leading into the water in case of an emergency or to be used by swimmers, and 8-12 tie-ups.

*(For reviewer only)*  
*(1-2 points)*

---

## 9) CONSTRUCTION TECHNIQUES:

- a) **Briefly explain the construction techniques to be utilized for this project. If a Phase 1, elaborate on potential techniques.**

- Demolition of existing boardwalk and shoreline excavation.
- Once all turbidity controls are in place, the existing removal of the boardwalk and wooden bulkhead with related excavated material will begin. This task should not require the usage of barges or floating work areas and should be completed from shoreline access points.
- Placement of the filter fabric and rip rap will follow, from shoreline vantage points.
- Driving of concrete piles for the placement of the wooden boardwalk. Due to the proximity to the shore, it is anticipated that the guide piles for the floating docks will also be placed.
- Once the piles are driven, the boardwalk construction will begin followed by the installation of the gangways and docks.

- b) **How are the utilized construction techniques appropriate for the project site?**

All typical construction techniques are expected to be utilized on the project, including all shoreline based activities, due to the project's proximity to the shoreline.

- c) **Identify any unusual construction techniques that may increase or decrease the costs of the project.**

The utilization of the shoreline for all shoreline based activities reduces project costs and eliminates the need for temporary dockage or barges and provides a more rapidly maneuvering of materials from direct truck access and for offloading.

*(For reviewer only)*  
*(1-3 points)*

---

**10) CONSTRUCTION MATERIALS:**

- a) List the materials to be utilized for this project. What is the design life of the proposed materials compared to other available materials?**

The proposed materials for this project are:

- Concrete piles – 50-75 year expected life span
- Wooden boardwalk – 25-30 year expected life span
- Wooden floating docks – 3-50 year expected life span
- Aluminum Gangways – 40+ years
- Rip Rap – 75-100 year expected life span as pending shoreline degradation due to muck soils not actual rip rap decay.

Aluminum components are 6000 series high strength marine grade aluminum, or similar material. All screws, bolts, nuts and washers will be stainless steel. The deck will have a textured powder coat finish that meets or exceeds AAMA 2604 for Salt Spray Resistance and Outdoor Exposure testing in South Florida.

- b) Identify any unique construction materials that may significantly alter the project costs.**

Shoreline stabilization will be completed with great expediency and attention to avoid an excess of turbid items due to the muck and highly organic soil in the area.

*(For reviewer  
only) (1-3 points)*

**RATING POINT  
TOTAL** \_\_\_\_\_

(Note: The total maximum score possible is dependent upon the project priority category but cannot exceed 50 points unless the project qualifies as an emergency-related project. The minimum score possible is 10 points. A score of 35 points or more is required to be considered for funding.)

## ATTACHMENT E-5

**FLORIDA INLAND NAVIGATION DISTRICT  
ASSISTANCE PROGRAM 2017**

**PROJECT COST ESTIMATE**

**(See Rule Section 66B-2.005 & 2.008 for eligibility and funding ratios)**

<b>Project Title:</b>	Pavilion Lake Piers, Docks, and Gangways
<b>Applicant:</b>	City of Belle Glade

<b>Project Elements</b> <i>(Please list the MAJOR project elements and provide general costs for each one. For Phase I Projects, please list the major elements and products expected)</i>	<b>Quantity or Total Estimated Cost</b> <i>(Number and/or Footage etc.)</i>	<b>Applicant's Cost</b>	<b>FIND Cost</b>
1. Shoreline Grading: Removal of Existing Materials, Shoreline grading, Rip-Rap Along Shoreline, Filter Fabric	1. \$182,768	1. \$91,384	1. \$91,384
2. Dock & Boardwalk: Installation of 2 Docks (36'x28' & 22'x24'); Concrete Approach Slabs for Piers, Aluminum Gangways (20'x6'), Concrete Piles (est. 2 per 16 LF), Install Pressure Treated Deck w/piers, Fencing Chain Link (6' high)	2. \$341,206	2. \$170,603	2. \$170,603
3. Earth Work: Clearing and Grubbing, Seeding Mulching, Turbidity Controls, Density Testing	3. \$45,556	3. \$22,778	3. \$22,778
4. Mobilization / Engineering: Mobilization & Demobilization, Engineering and Permitting, Construction Inspections	4. \$129,854	4. \$64,927	4. \$64,927

<b>**TOTALS =</b>	<b>\$699,384</b>	<b>\$349,692</b>	<b>\$349,692</b>
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**ATTACHMENT E-6  
WATERWAYS ASSISTANCE PROGRAM 2017**

**PROJECT TIMELINE**

<b>Project Title:</b>	Pavilion Lake Piers, Docks, and Gangways
<b>Applicant:</b>	The City of Belle Glade

The applicant is to present a detailed timeline on the accomplishment of the components of the proposed project including, as applicable, completion dates for: permitting, design, bidding, applicant approvals, initiation of construction and completion of construction.

**NOTE: All funded activities must begin AFTER October 1<sup>st</sup>**  
(or be consistent with Rule 66B-2.005(3) - Pre-agreement expenses)

April

Obtain final permits with construction plans for the project: Start date April 1, 2017 - 120 days

October

Bid project - 30 days October 1, 2017

November

Award and NTP November 30, 2017

January 2018

Demolition and shoreline prep 15 days Jan 1, 2018

March

Shoreline stabilization March 15, 2018

May

Pile Placement May 1, 2018

June

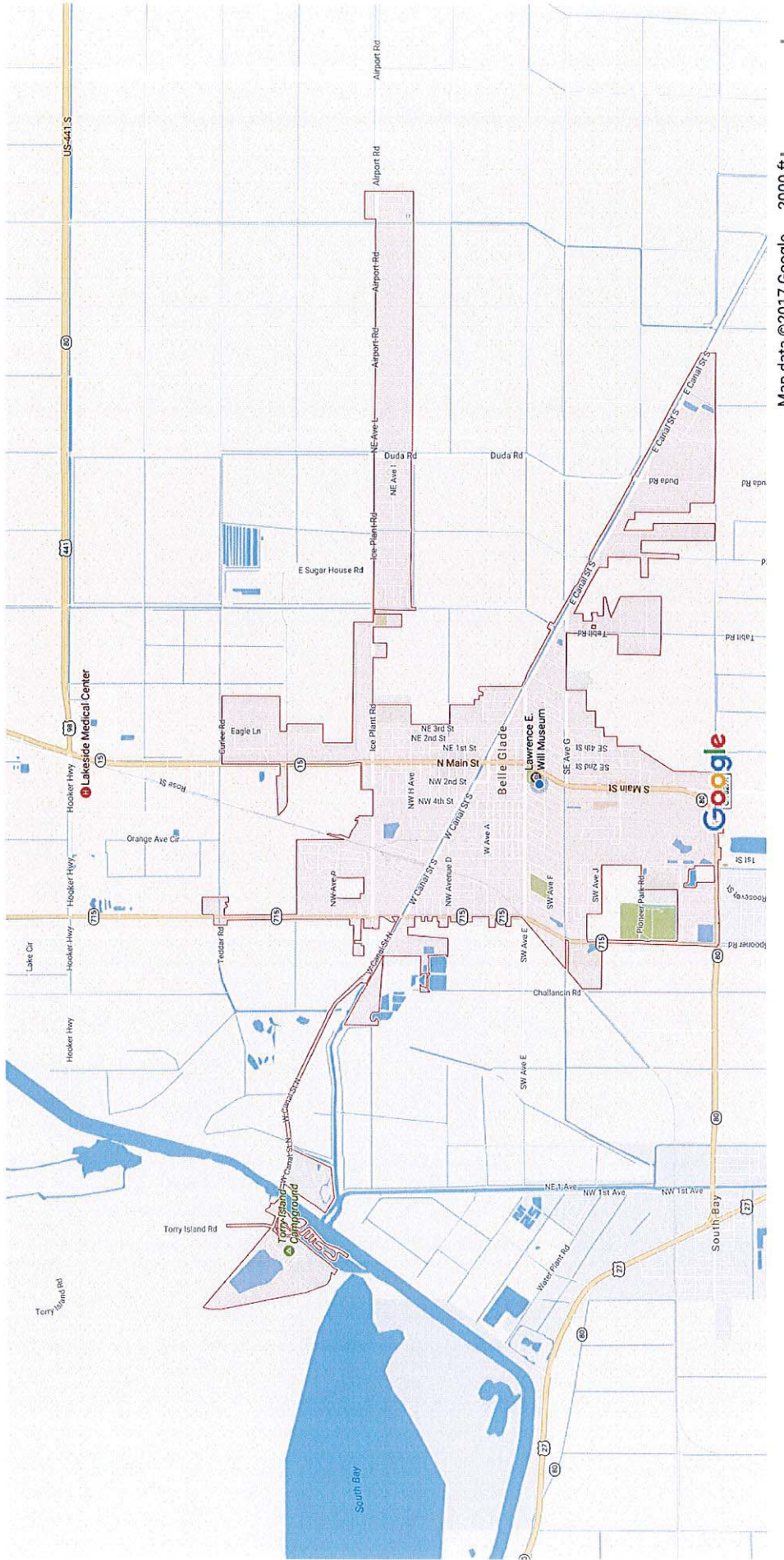
Boardwalk and gangway/docks installation June 30, 2018

July

Project completion July 15, 2018

# Belle Glade

Street map of the City of Belle Glade, showing location of activity and service area boundaries





**Pavilion Lake Piers, Docks, and Gangways**

Boundry Map

**Legend**

- Boardwalk
- Dock Locations
- Lake Boundry

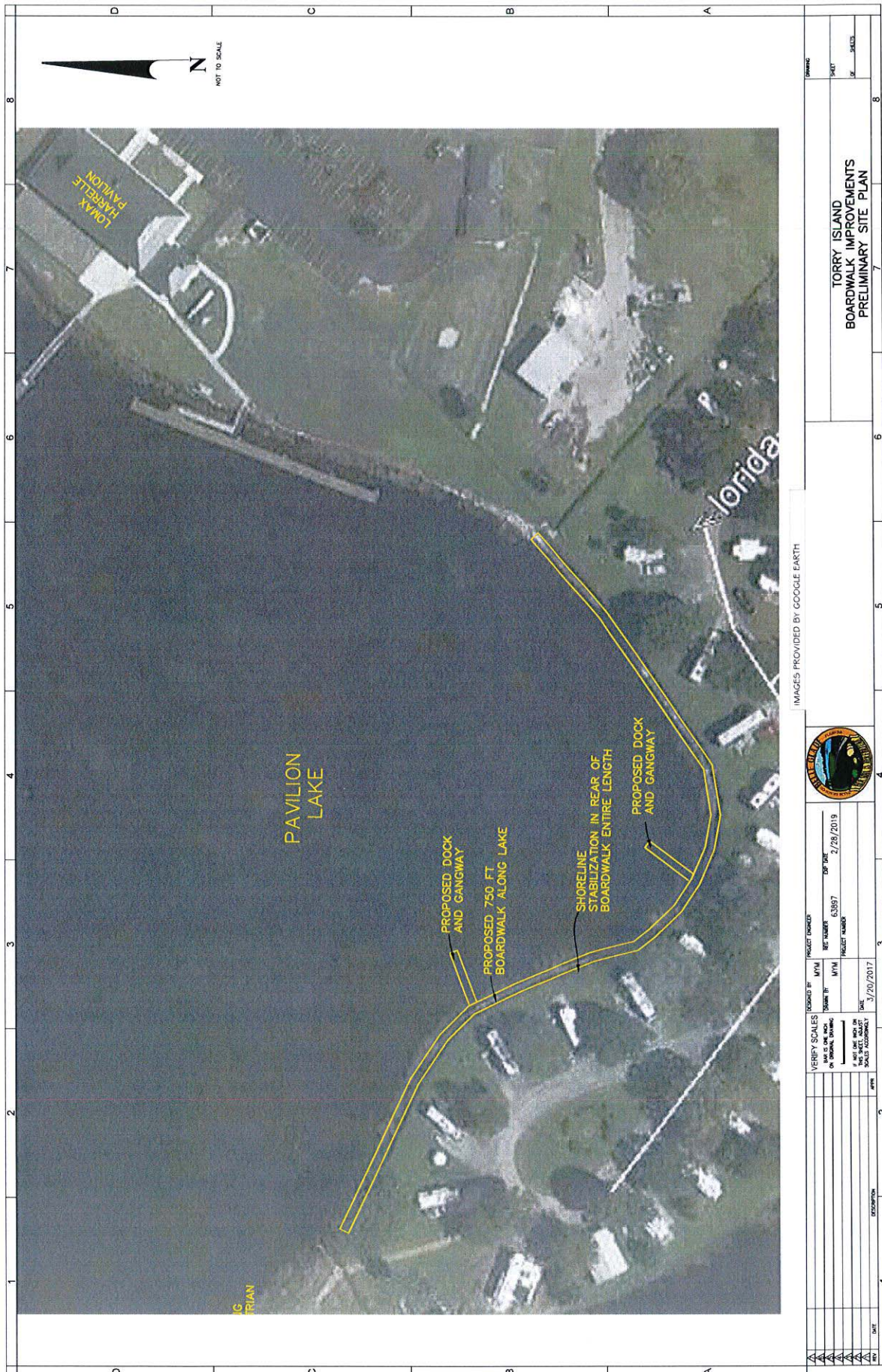


Google Earth

© 2016 Google

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## ATTACHMENT E-2

**WATERWAYS ASSISTANCE PROGRAM FY 2017  
PROJECT APPLICATION  
APPLICANT INFORMATION – PROJECT SUMMARY**

<b>APPLICANT INFORMATION</b>			
<b>Applicant:</b> City of Boca Raton			
<b>Department:</b> Municipal Services			
<b>Project Title:</b> Lake Wyman and Rutherford Park Restoration Project Phase I			
<b>Project Director:</b> Dan Grippo		<b>Title:</b>	Municipal Services Director
<b>Project Liaison:</b> <i>(if different from Project)</i>		<b>Title:</b>	
<b>Mailing Address:</b>	201 W. Palmetto Park Road		
<b>City:</b> Boca Raton	<b>Zip Code:</b>	33431	
<b>Email Address:</b> dgrippo@myboca.us	<b>Phone #:</b>	561-416-3409	
<b>Project Address:</b>	Rutherford Park: 600 NE 24 <sup>th</sup> St, Boca Raton and Lake Wyman 1500 NE 5 <sup>th</sup> Ave,		

\*\*\*\*\* I hereby certify that the information provided in this application is true and accurate. \*\*\*\*\*

SIGNATURE:  DATE: 3/13/2017

**PROJECT NARRATIVE** (Please summarize the project in space provided below in 2 paragraphs or less.)

This Phase 1 grant application is to request funding assistance for engineering and environmental services pertaining to the proposed Rutherford Park and Lake Wyman Park Restoration Project.

The Rutherford Park and Lake Wyman Restoration Project is located in the Intracoastal Waterway, 1.5 miles north of the Boca Raton Inlet, and encompasses Rutherford Park and Lake Wyman Park located within the City of Boca Raton.

Components of the Rutherford Park and Lake Wyman Restoration Project include the following:

- (1) Remove invasive non-native material throughout portions of both park sites
- (2) Restore the wetland resources with the creation of mangrove habitat
- (3) Restore and enhance approximately 1 mile of the canoe trail system
- (4) Repair/Replace and construct new boardwalks within the Rutherford Park Project Area
- (5) Remove invasive material along the FIND property and create a coastal hammock with a walking path and connections to Rutherford Park.

## ATTACHMENT E-3 - PROJECT INFORMATION 2017

<b>Applicant:</b> City of Boca Raton		<b>Project Title:</b> Lake Wyman & Rutherford Park Restoration Project Phase I	
<b>Total Project Cost:</b> \$320,000		<b>FIND Funding Requested:</b> \$147,500	<b>% of Total Cost:</b> Between 25% and 50%
<b>Amount and Source of Applicant's Matching Funds:</b>  \$177,500 City of Boca Raton General Fund			

**1. Ownership of Project Site (check one):** Own: ☐ Leased: ☐ Other: ☒

**2. If leased or other, please describe lease or terms and conditions:**

42 acres of the proposed project area is owned by the City of Boca Raton and 8 acres is owned by FIND.

The City of Boca Raton is in the process of entering into a lease agreement with FIND for the FIND property located on the south-eastern portion of Lake Wyman.

**3. Has the District previously provided assistance funding to this project or site?** Yes: ☒ No: ☐

**4. If yes, please list:**

\$115,800 was granted to the City of Boca Raton for the Lake Wyman Development Project (PB-BR 88-4)

**5. What is the current level of public access in terms of the number of boat ramps, boat slips and trailer parking spaces, linear feet of boardwalk (etc.)? (as applicable):**

This site is currently accessible by land and has boardwalks and two pavilions. A canoe livery is available; however, the City no longer operates the rental facility due to the limited navigation of the canoe trails.

**6. How many additional ramps, slips, parking spaces or other access features will be added by this project?**

This project will provide the following:

- (1) Repair/replace and construct new boardwalk links throughout the Rutherford Park area
- (2) Restore and enhance approximately 1 mile of canoe trail by conducting maintenance dredging
- (3) Create a coastal hammock with a walking path along the FIND property

**7. Are fees charged for the use of this project?** No ☒ Yes ☐ \*\*

**\*\*If yes, please attach additional documentation of fees and how they compare with fees from similar public & private facilities in the area.**

**Please list all Environmental Resource Permits required for this project:**

AGENCY	Yes / No / N/A	Date Applied For	Date Received
WMD	No	N/A	
DEP	Yes	TBD	
ACOE	Yes	TBD	
COUNTY / CITY	Yes	TBD	



## ATTACHMENT E-4

**WATERWAYS ASSISTANCE PROGRAM  
APPLICATION AND EVALUATION WORKSHEET**

**DIRECTIONS:** All applicants will complete questions 1 through 6, and then based on the type of project, complete one and only one subsection (E-4A, B, C, D or E) for questions 7-10.

**\*\*Please keep your answers brief and do not change the pagination of Attachment E-4\*\***

All other sub-attachments that are not applicable to an applicant's project should not be included in the submitted application.

<b>Project Title:</b>	Rutherford and Lake Wyman Park Restoration Project      Phase I
<b>Applicant:</b>	City of Boca Raton

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**1) PRIORITY LIST:**

- a) Denote the priority list category of this project from Attachment C in the application.** (The application may only be of one type based upon the predominant cost of the project elements.)

Public waterfront parks and boardwalks and associated improvements (Number 12).

- b) Explain how the project fits this priority category.**

This project involves the restoration of Lake Wyman Park and Rutherford Park in the City of Boca Raton to increase recreational opportunities for the residents of and visitors to Boca Raton and Palm Beach County. Upon completion, the parks will feature almost one (1) mile of canoe trails, repaired and newly constructed boardwalks and the removal of exotic vegetation. Upon exotic vegetation removal, the City will re-plant with mangroves and other native vegetation. A coastal hammock and walking path will be created on the FIND property.

*(For reviewer only)*

Max. Available Score for application    45

Question 1. Range of Score    (1 to <sup>3</sup> points)

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## 2) WATERWAY RELATIONSHIP:

### a) Explain how the project relates to the ICW and the mission of the Navigation District.

This project is located directly adjacent to the ICW and will provide access from the ICW to the revitalized canoe trails within Rutherford Park and Lake Wyman. This project will restore vital habitat and provide recreational opportunities to exploration of those habitats.

### b) What public access or navigational benefit to the ICW or adjoining waterway will result from this project?

Dredging and expanding the existing canoe trails will allow for daily usages. Additionally, with the revitalization and expansion of the canoe trail, visitors will be able to enter/exit the canoe trail from the ICW.

*(For reviewer only)*  
*(1-6 points)*

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## 3) PUBLIC USAGE & BENEFITS:

### a) How is the public usage of this project clearly identified and quantified? Estimate the amount of total public use.

Rutherford Park and Lake Wyman Park currently have limited usage by the public. The expansion of and improvements to the recreational components are anticipated to increase visitors to the parks, especially during weekends and holidays. Access to canoe trail system, will be enhanced by dredging of the trails and allowing entrance in and out of the canoe trail system from the ICW.

Enhancing and revitalizing the boardwalks throughout the Rutherford Park and part of Lake Wyman will increase the public usage within these two parks.

### b) Discuss the regional and local public benefits that will be provided by the project. Can residents from other counties of the District reasonably access and use the project? Explain.

This project involves the restoration of coastal habitat, which will provide valuable ecosystem services to the public, and over 2,500 linear feet of enhancements and additional boardwalks for the general public. The enhanced canoe trail system will provide an in-depth look at coastal habitats that are not easily accessible in other areas of Boca Raton. Additionally, residents and visitors alike will be able to access the canoe trail systems from the ICW or within Rutherford Park.

### c) Are there any restrictions placed on commercial access or use of this site?

Yes. Commercial access is not a component of this project. Residents within the City of Boca Raton voted on referendum in November 2016 to not allow commercial components to City-owned waterfront property.

*(For reviewer only)*  
*(1-8 points)*

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#### 4) TIMELINESS

- a) Describe current status of the project and present a reasonable and effective timeline for the completion of the project consistent with Attachment E-6.**

The City is currently in the planning stage and has developed conceptual plans for the two park areas. The City is in the process of hiring a consultant who will begin working on the engineering, permitting and design of the project. The City anticipates applying for permits by the end of 2017 and permit issuance by the end of the 2018. The City anticipates construction commencement in October/November 2019.

- b) Briefly explain any unique aspects of this project that could influence the project timeline.**

8 acres of this site is presently owned by FIND (MSA 690) and leased to the City of Boca Raton. Consent to include the FIND parcel is contingent upon the City entering into a lease agreement with FIND for the FIND property and for the City to grant FIND permanent landside access to FIND parcel MSA 684A, which is located within Spanish River Park, also in the City of Boca Raton.

Additionally, this project will require the City to obtain both an FDEP and USACE permit. The City anticipates approximately a year to 18 months to obtain these permits. If it takes longer than 18 months to obtain the permits, then the timeline may be extended.

*(For reviewer only)*  
*(1-3 points)*

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#### 5) COSTS & EFFICIENCY:

- a) List funding sources and the status and amount of the corresponding funding that will be utilized to complete this project.**

Currently, the only funding source is the City of Boca Raton and the requested \$125,000 matching FIND funds.

- b) Identify and describe any project costs that may be increased because of the materials utilized or specific site conditions.**

Current project costs are based on recently completed projects and engineer's estimates.

- c) Describe any methods to be utilized to increase the cost efficiency of this project.**

The City could potentially utilize a portion of the fill from dredging the canoe trails in other areas of Lake Wyman Park, which would reduce the amount of material that would be transported offsite. The City will coordinate with Palm Beach County and other governmental agencies to potentially find beneficial re-use of the remaining material, thereby reducing the overall cost of disposal.

- d) If there are any fees associated with the use of this facility, please detail. In addition, please provide a listing of the fees charged by similar facilities, public and private, in the project area.**

There will be no fees associated with the canoe trails, boardwalks, coastal hammock or use of the passive components of both Rutherford Park and Lake Wyman Park.

*(For reviewer only)*  
*(1-6 points)*



**6) PROJECT VIABILITY:**

- a) What specific need in the community does this project fill? Is this project referenced or incorporated in an existing maritime management, public assess or comp plan?**

The community would greatly benefit from this project, as there is no other similar park within the City of Boca Raton with canoe trails or a coastal hammock. The closest similar parks are at Ocean Ridge Natural Area (10.5 miles to the north) or Deerfield Island Park (3 miles to the south in Broward County).

This project is a City Council Priority per the City Strategic Plan. Additionally, this is a publicly supported project.

- b) Clearly demonstrate how the project will continue to be maintained and funded after District funding is completed.**

Because this project is located within the City of Boca Raton, the City of Boca Raton will provide the long-term maintenance of the park and will incorporate the needed funds to maintain this park in the City's yearly operating budget.

- c) Will the program result in significant and lasting benefits? Explain.**

This project will provide 8 acres of a coastal hammock habitat, which will provide long-lasting environmental benefits for fish and wildlife, including habitat and water quality improvements, and recreational benefits for the community by providing canoe trails with access to these canoe trails from the ICW. Additionally, this project will enhance and incorporate additional boardwalks throughout Rutherford Park and a connection point with Lake Wyman.

- d) Please describe any environmental benefits associated with this project.**

This project will provide coastal habitat, which will provide long-lasting environmental benefits for fish and wildlife, including habitat and water quality improvements, and recreational benefits for the community by providing access to areas of the park which are currently inaccessible, including the canoe trails and parts of the boardwalk.

*(For reviewer only)*  
*(1-7 points)*

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SUB-TOTAL \_\_\_\_\_

FIND FORM NO. 91-25

Rule 66B-2.005 (Effective Date: 3-21-01, Revised 4-24-06, 1-27-14)

**ATTACHMENT E-4A  
DEVELOPMENT & CONSTRUCTION PROJECTS**

**WATERWAYS ASSISTANCE PROGRAM  
APPLICATION AND EVALUATION WORKSHEET**

THIS ATTACHMENT IS TO BE COMPLETED IF YOUR PROJECT IS A  
DEVELOPMENT OR CONSTRUCTION PROJECT BUT IS NOT AN INLET  
MANAGEMENT OR BEACH RENOURISHMENT PROJECT.

**7) PERMITTING:**

- a) Have all required environmental permits been applied for? (USACE, DEP and WMD)  
If permits are NOT required, explain why not.**

Both an FDEP and USACE permit is required for this project. The City has not applied for the permits yet, but plans to apply for these permits by December, 2017.

- b) If the project is a Phase I project, list the tasks scheduled to obtain the necessary permits and engineering work and provide a general cost estimate for the future Phase II work.**

The City is currently in the process of hiring an engineering consultant who will conduct at a minimum the following:

- Site inspections
- Seagrass surveys
- Geotechnical and topographical surveys
- Species delineation
- Project area designs
- Invasive species plant removal
- Mangrove and seagrass mitigation and enhancement plans
- Construction methodology
- Material dewatering and removal
- Coastal hammock development

Construction cost estimates for Phase 2 are approximately \$3.5 million dollars.

- c) Detail any significant impediments that may have been identified that would potentially delay the timely issuance of the required permits.**

No impediments are anticipated.

*(For reviewer only)  
(1-4 points)*



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**8) PROJECT DESIGN:**

- a) **Has the design work been completed? If this is a Phase I project, has a preliminary design been developed?**

No. A conceptual design has been developed. The City is currently in the process of hiring an engineering consultant to commence the design phase of this project.

- b) **Are there unique beneficial aspects to the proposed design that enhance public usage or access, minimize environmental impacts, improve water quality or reduce costs?**

The canoe trail and boardwalk and coastal hammock trail system are designed to provide access to areas of the park currently not available and showcase a diversity of habitats including mangrove and maritime hammock, while minimizing impacts to existing mangroves. The restoration areas provide habitat for fish and wildlife and contribute to water quality improvements.

*(For reviewer only)*  
*(1-2 points)*

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**9) CONSTRUCTION TECHNIQUES:**

- a) **Briefly explain the construction techniques to be utilized for this project. If a Phase 1, elaborate on potential techniques.**

This is a Phase 1 project and the City is currently in the process of hiring an engineering firm to assist in the engineering, permitting and design as well as construction bidding documents. Although the final construction techniques are not finalized, potential techniques include, exotic vegetation being chipped, burned at the site, or being removed by hand. Dredging of the canoe trails will be challenging and will require material removal prior to dredging of the canoe trail to provide more access to the site. The existing boardwalks will be inspected for safety. New/replacement boardwalks will utilize the existing footprint to the best extent possible to minimize any mangrove impacts.

- b) **How are the utilized construction techniques appropriate for the project site?**

This is a Phase 1 project, and thus the above construction techniques are only conceptual. Once an engineering firm is hired a detailed plan will be developed and the best appropriate technique will be determined at that time. Some of the initial concerns with the seagrasses located adjacent to the project site is the limiting ability to utilize a barge to conduct some of the dredging and other construction activities. Land based construction is currently the preferred method.

- c) **Identify any unusual construction techniques that may increase or decrease the costs of the project.**

Land-based construction is currently proposed. Costs may increase if a shallow draft barge is necessary to create access from the channel entrance to the canoe trails.

*(For reviewer only)*  
*(1-3 points)*

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**10) CONSTRUCTION MATERIALS:**

- a) List the materials to be utilized for this project. What is the design life of the proposed materials compared to other available materials?**

As this is a Phase 1 project, construction materials have not been identified for this project.

- b) Identify any unique construction materials that may significantly alter the project costs.**

As this is a Phase 1 project, construction materials have not been identified for this project.

*(For reviewer only)*  
*(1-3 points)*

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**RATING POINT  
TOTAL** \_\_\_\_\_

(Note: The total maximum score possible is dependent upon the project priority category but cannot exceed 50 points unless the project qualifies as an emergency-related project. The minimum score possible is 10 points. A score of 35 points or more is required to be considered for funding.)

## ATTACHMENT E-5

**FLORIDA INLAND NAVIGATION DISTRICT  
ASSISTANCE PROGRAM 2017**

**PROJECT COST ESTIMATE**

**(See Rule Section 66B-2.005 & 2.008 for eligibility and funding ratios)**

<b>Project Title:</b>	<b>Lake Wyman and Rutherford Park Restoration Project</b>
<b>Applicant:</b>	<b>City of Boca Raton</b>

<b>Project Elements</b> (Please list the MAJOR project elements and provide general costs for each one. For Phase I Projects, please list the major elements and products expected)	<b>Quantity or Total Estimated Cost</b> (Number and/or Footage etc.)	<b>Applicant's Cost</b>	<b>FIND Cost</b>
Seagrass Survey	\$30,000	\$22,500	\$7,500*
30% Engineering/Design	\$40,000	\$30,000	10,000*
60%- 100%Engineering/ Design	\$80,000	\$40,000	\$40,000
Permitting	\$120,000	\$60,000	\$60,000
Construction Plans and Specs Development and bidding assistance	\$50,000	\$25,000	\$25,000

<b>**TOTALS =</b>	<b>\$320,000</b>	<b>\$177,500</b>	<b>\$142,500</b>
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\*Note- the costs associated with the seagrass survey and the 30% engineering/design are pre-agreement costs and are budgeted at 25% FIND cost-share

**ATTACHMENT E-6  
WATERWAYS ASSISTANCE PROGRAM 2017**

**PROJECT TIMELINE**

<b>Project Title:</b>	<b>Lake Wyman and Rutherford Park Restoration Project</b>
<b>Applicant:</b>	<b>City of Boca Raton</b>

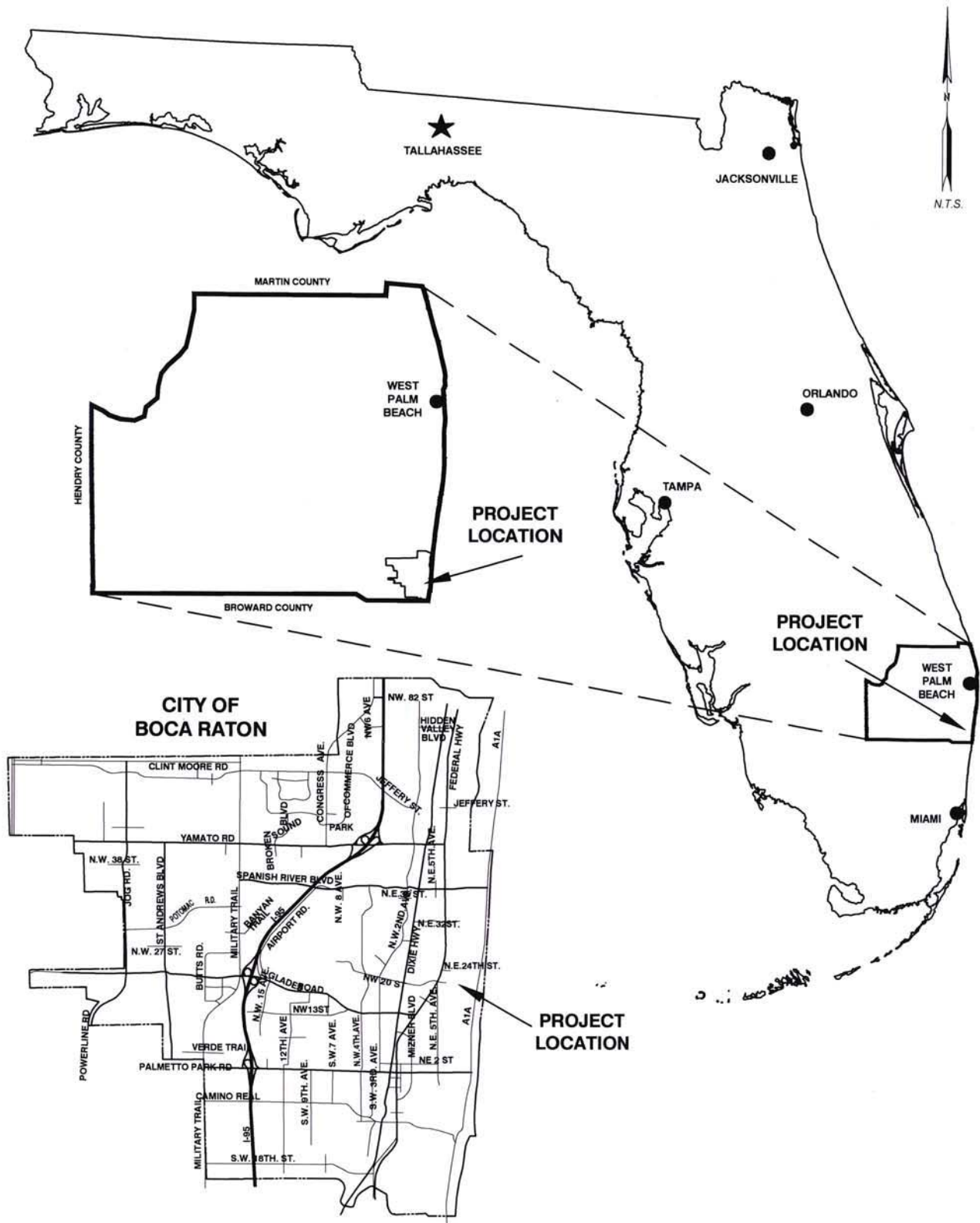
The applicant is to present a detailed timeline on the accomplishment of the components of the proposed project including, as applicable, completion dates for: permitting, design, bidding, applicant approvals, initiation of construction and completion of construction.

**NOTE: All funded activities must begin AFTER October 1<sup>st</sup>**  
(or be consistent with Rule 66B-2.005(3) - Pre-agreement expenses)

**Phase 1- Engineering, Permitting, Design, Construction Plans & Specs Development and Bid Assistance**

June –August 2017	Conduct Seagrass Survey
June 2017	Initiate Engineering/Design
December 2017	Submit application for permits to state and federal agencies
September 2018	Begin plans and specs development
November 2018	Begin development of Bid documents
December 2018	Projected receipt of permits
January 2019	Project goes out to Bid





**City Of Boca Raton**  
Municipal Services Department  
201 West Palmetto Park Rd. Boca Raton Florida 33432

**Lake Wyman and Rutherford Park  
Restoration Project  
Sht. 1 of 3**

2/27/2017

M-217





**City Of Boca Raton**

Municipal Services Department

201 West Palmetto Park Rd. Boca Raton Florida 33432

**Lake Wyman and Rutherford Park  
Restoration Project  
Sht. 2 of 3**

2/27/2017

M-217





**City Of Boca Raton**  
Municipal Services Department  
201 West Palmetto Park Rd. Boca Raton Florida 33432

**Lake Wyman and Rutherford Park  
Restoration Project  
Sht. 3 of 3**

2/27/2017

M-217



## ATTACHMENT E-2

**WATERWAYS ASSISTANCE PROGRAM FY 2017  
PROJECT APPLICATION  
APPLICANT INFORMATION – PROJECT SUMMARY**

APPLICANT INFORMATION			
<b>Applicant:</b>	City of Riviera Beach		
<b>Department:</b>	City Manager's Office		
<b>Project Title:</b>	Marina Replacement / Reconfiguration / Expansion – Pier F		
<b>Project Director:</b>	Danny D. Jones	<b>Title:</b>	Deputy City Manager
<b>Project Liaison:</b> <i>(if different from Project)</i>	John H Sprague	<b>Title:</b>	Marina Project Consultant
<b>Mailing Address:</b>	840 SW Salerno Rd		
<b>City:</b>	Stuart, Florida	<b>Zip Code:</b>	34997
<b>Email Address:</b>	Spragueconsulting@me.com	<b>Phone #:</b>	561 723-5418
<b>Project Address:</b>	200 East 13 <sup>th</sup> St Riviera Beach, Florida 33404		

\*\*\*\*\* I hereby certify that the information provided in this application is true and accurate. \*\*\*\*\*



DATE: March 7<sup>th</sup> 2017

SIGNATURE: \_\_\_\_\_

<p><b>PROJECT NARRATIVE</b> (Please summarize the project in space provided below in 2 paragraphs or less.)</p> <p>This project will widen and strengthen the 35-year-old concrete dock F with additional concrete pilings and caps. New pre-manufactured aluminum dock sections matching other portions of the project will be installed on top that provide needed protected utility corridors between dock sections as well as 150 ft. of marginal dockage along its face. The expansion and new section of this project is to construct a 14 ft. by 325ft wave attenuating concrete floating dock creating marginal dockage on both sides for up to 300 ft. vessels. The project includes all utilities, engineering/design, project administration and management associated with this project to provide needed accommodations for ICW and ocean users in this high demand geographical location for large vessels.</p>
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## ATTACHMENT E-3 - PROJECT INFORMATION 2017

<b>Applicant:</b>		<b>Project Title:</b>	
<b>Total Project Cost: \$ 2,400,000</b>	<b>FIND Funding Requested: \$1,200,000</b>	<b>% of Total Cost: 50%</b>	
<b>Amount and Source of Applicant's Matching Funds:</b>  \$1,200,000 from the City of Riviera Beach			

**1. Ownership of Project Site (check one):** Own: ☒ Leased: ☐ Other: ☒

**2. If leased or other, please describe lease or terms and conditions:**

Upland Property is owned by the City of Riviera Beach with all riparian rights and a use Dedication from the State of Florida for the sovereignty submerged lands within the riparian rights area.

**3. Has the District previously provided assistance funding to this project or site?** Yes: ☐ No: ☐

**If yes, please list:**

The District has assisted in funding portions of the seawall, docks A, B, C, D, community dock and including engineering, and other miscellaneous items. FIND'S overall participation in assistance dollars to date is approximately 25% of the total amount spent by the city for the replacement of the docks at this time.

**4. What is the current level of public access in terms of the number of boat ramps, boat slips and trailer parking spaces, linear feet of boardwalk (etc.)? (as applicable):**

The marina has 111 slips and approximately 2,000 ft of marginal dockage built to date. Pier G, scheduled for construction during the summer of 2017, will add another 13 slips and 345 feet of additional marginal dockage.

**5. How many additional ramps, slips, parking spaces or other access features will be added by this project?**

Pier F will provide 650 feet of additional marginal dockage along the floating dock and 150 feet of additional marginal dockage along the fixed section of the pier. Pier F will provide berthing with complete utilities for all sized vessels including 3-phase power for the super-yacht class.

**6. Are fees charged for the use of this project?** No ☐ Yes ☒

**\*\*If yes, please attach additional documentation of fees and how they compare with fees from similar public & private facilities in the area.**

See attached

**Please list all Environmental Resource Permits required for this project:**

AGENCY	Yes / No / N/A	Date Applied For	Date Received
WMD	N/A		
DEP	Yes	September 8 <sup>th</sup> Mod	September 19, 2016
ACOE	Yes	December 2016 Mod	January 26, 2017
COUNTY / CITY	Yes	Contractor will apply	

## ATTACHMENT E-4

**WATERWAYS ASSISTANCE PROGRAM  
APPLICATION AND EVALUATION WORKSHEET**

**DIRECTIONS:** All applicants will complete questions 1 through 6, and then based on the type of project, complete one and only one subsection (E-4A, B, C, D or E) for questions 7-10.

**\*\*Please keep your answers brief and do not change the pagination of Attachment E-4\*\***

All other sub-attachments that are not applicable to an applicant's project should not be included in the submitted application.

<b>Project Title:</b>	<b>Marina Replacement / Reconfiguration / Expansion - Pier F</b>
<b>Applicant:</b>	<b>City of Riviera Beach</b>

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**1) PRIORITY LIST:**

- a) **Denote the priority list category of this project from Attachment C in the application. (The application may only be of one type based upon the predominant cost of the project elements.)**  
 # 8 Acquisition, dredging, shoreline stabilization and development of public boat docking and mooring facilities;
- b) **Explain how the project fits this priority category.**  
 The project will provide additional public dockage to accommodate very large vessels utilizing the newly adjoining FIND ICW 17ft deepening project. The docks will supply daily, monthly or annual dockage to waterway users on a first come first serve basis. This application includes all necessary engineering & surveying for dock location, piling load tests, bid documents, and construction management for this dock to be completed.

*(For reviewer only)*

Max. Available Score for application     47

Question 1. Range of Score    (1 to 5 points)

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## 2) WATERWAY RELATIONSHIP:

### a) Explain how the project relates to the ICW and the mission of the Navigation District.

Provides needed dockage, fuel, safe harbor, other activities and provisions for waterway users of the ICW located 100 ft. from this project location. This marina will be able to accommodate all the users of the ICW including this deepened portion. In addition this project is close to the deep water of Palm Beach Inlet and supports easy navigation to the ocean and ICWW. The project will provide much needed berthing for large vessels noting there is presently a wait list for vessels in excess of 200 feet.

### b) What public access or navigational benefit to the ICW or adjoining waterway will result from this project?

The City marina is 97% open to the public marina and includes extensive marginal dockage with dedicated transient dockage. The marina also has a variety of slip sizes to accommodate a full range of vessels and presently houses many types of charter vessels, fishing, diving, rentals and water taxis. The City of Riviera Beach Marina is one of three facilities in the area that can support vessels in excess of 200 feet. The proposed project will provide additional dockage for large vessels taking full advantage of FIND's recent deepening of the ICWW. This portion of the ICWW is very busy as it intersects the Port of Palm Beach turning basin and the Palm Beach deep water inlet and this facility, now interconnected to the deep water port and inlet by the 17-foot ICWW channel, is a perfect location for large vessel berthing.

*(For reviewer only)*

*(1-6 points)*

---

## 3) PUBLIC USAGE & BENEFITS:

### a) How is the public usage of this project clearly identified and quantified? Estimate the amount of total public use.

This marina is 97% occupied currently and open to the public first come first serve including dedicated transient slips for visitors. The marina also includes slips for vessels that charter to the non-boat owning public and visitors to the area for diving, fishing, sight-seeing, dinner cruises, and rentals of PWC's and Kayaks to the general public. Onsite facilities associated with the marina include a newly constructed event center and restaurant.

### b) Discuss the regional and local public benefits that will be provided by the project. Can residents from other counties of the District reasonably access and use the project? Explain.

The marina maintains slips for transient vessels travelling to and from other counties, states or countries. The marina is just west of the Palm Beach Inlet and located 100ft from the newly deepened ICW channel. By providing funding assistance for this project by increasing access for Super-yachts greatly increases economic benefits to the entire local and regional economy and more jobs for companies whose employees work in the region on these large vessels.

### c) Are there any restrictions placed on commercial access or use of this site?

Some slips received funding assistance from Federal Sport Fish money that limit use to recreational vessels only. However the marina maintains other slips for commercial vessels that provide charter fishing, diving, dinner/cruise and rental boats for the general non-boat owning public as well as slips for the Port of Palm Beach Pilot boats.

*(For reviewer only)*

*(1-8 points)*

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#### 4. TIMELINESS

- c) **Describe current status of the project and present a reasonable and effective timeline for the completion of the project consistent with Attachment E-6.**

Permits are in place, the layout design is complete and the dock manufacturing design will commence once funding assistance is secured late 2017. This dock is slated to go to bid early 2018 and the project should be completed by late summer of 2018.

- d) **Briefly explain any unique aspects of this project that could influence the project timeline.**

We have been under design and construction for several years on a continual basis and are familiar with any issues encountered during the previous construction process.

The construction methods for the floating and fixed docks are the same as the other completed docks which installation had no unusual issues. The upland utilities (water, electric, sewer and fire protection) are in place ready for connections to this dock. The dock location on the very south end of the marina will have little or no interaction with the public using the rest of the marina.

*(For reviewer only)*

*(1-3 points)*

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#### 5) COSTS & EFFICIENCY:

- a) **List funding sources and the status and amount of the corresponding funding that will be utilized to complete this project.**

The City has committed by resolution to provide the 50% matching funding for this project.

- b) **Identify and describe any project costs that may be increased because of the materials utilized or specific site conditions.**

Based on continued use and familiarity of the products used as well as conversations with vendors we believe there will be no increases in project costs. The costs of massive concrete floating docks warranted for Cat 3 storms, as well as the heavy steel pilings are understood based on previous phases of marina construction and are included in the project budgets. We have already completed load testing for pilings and have completed a wave energy study of the area so the dock manufacturer can determine piling lengths and diameters required.

- c) **Describe any methods to be utilized to increase the cost efficiency of this project.**

A wave energy study and lateral load tests onsite give the floating dock engineers information to assist in dock and support pile design. Although this is a competitive bid process, it is the intent to maintain the same design concept as previous phases, ultimately increasing cost efficiency for this project.

- d) **If there are any fees associated with the use of this facility, please detail. In addition, please provide a listing of the fees charged by similar facilities, public and private, in the project area.**

Dockage is charged for all overnight stays on a daily, monthly or annual basis. There is some allowance for free day dockage to support upland restaurants and shops. Attached is the latest comparison study of rates.

*(For reviewer only)*

*(1-6 points)*

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**6) PROJECT VIABILITY:**

- a) What specific need in the community does this project fill? Is this project referenced or incorporated in an existing maritime management, public assess or comp plan?**

Riviera Beach has a long history of being a vibrant commercial waterfront city due to it's proximately to Palm Beach inlet, the ocean and the ICW. This marina rebuilding/redesign is part of updating and modernizing public use of its waterfront. Yes, the marina is part of the master redevelopment plan for the City/CRA for the downtown and went through months of meetings, charrettes, master planning, zoning and City Council and CRA Commissioners resolutions and actions.

- b) Clearly demonstrate how the project will continue to be maintained and funded after District funding is completed.**

The City has set up budget and accounting to insure that capitol and maintenance moneys will be deposited quarterly and available to maintain the marina both structurally and aesthetically. Backup is available if requested from the finance department.

- c) Will the program result in significant and lasting benefits? Explain.**

Yes. This project as part of previous portions of the marina replacement and reconfiguration has been designed and built using the latest technology and lasting materials to insure that it will last and benefit the users. This marina has been designed for long life and built to withstand a Category 3 hurricane loaded. In addition the docks provide protection for the vessels docked within the marina and will greatly reduce the destruction of vessels and damage to the environment in a hurricane event. By using massive concrete floating docks throughout the marina has created an easier and safer atmosphere for the loading of people and gear regardless of tide and wind conditions.

- d) Please describe any environmental benefits associated with this project.**

To date the marina has been designed and built with no impacts to seagrasses or hard bottom coral. It has pump out available at every slip, and built with a redundant pump system should one pump go down for repair. The location of this marina has very clean water on incoming tides and these massive floating docks create large areas for growth to occur on their bottoms, as well as the pilings. This project will incorporate the existing fixed concrete dock as part of the improvements and will maintain with no disturbance the existing natural rock with habitat that is presently located beneath the dock.

*(For reviewer only)*

*(1-7 points)*

SUB-TOTAL \_\_\_\_\_

FIND FORM NO. 91-25

Rule 66B-2.005 (Effective Date: 3-21-01, Revised 4-24-06, 1-27-14)



**ATTACHMENT E-4A  
DEVELOPMENT & CONSTRUCTION PROJECTS**

**WATERWAYS ASSISTANCE PROGRAM  
APPLICATION AND EVALUATION WORKSHEET**

THIS ATTACHMENT IS TO BE COMPLETED IF YOUR PROJECT IS A  
DEVELOPMENT OR CONSTRUCTION PROJECT BUT IS NOT AN INLET  
MANAGEMENT OR BEACH RENOURISHMENT PROJECT.

**7) PERMITTING:**

- a) **Have all required environmental permits been applied for? (USACE, DEP and WMD)**  
**If permits are NOT required, explain why not.**

Yes we have received the DEP and USACE permits.

- b) **If the project is a Phase I project, list the tasks scheduled to obtain the necessary permits and engineering work and provide a general cost estimate for the future Phase II work.**

N/A

- c) **Detail any significant impediments that may have been identified that would potentially delay the timely issuance of the required permits.**

N/A **Note:** The timely significant impediments have already taken place prior to USACE permit issuance due to the non-responsive nature of how National Marine Fisheries Service conducts business.

*(For reviewer only)*  
*(1-4 points)*

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**8) PROJECT DESIGN:**

- a) **Has the design work been completed? If this is a Phase I project, has a preliminary design been developed?**  
Yes
- b) **Are there unique beneficial aspects to the proposed design that enhance public usage or access, minimize environmental impacts, improve water quality or reduce costs?**  
Yes, wide, safe and stable concrete floating docks that allow easy boarding and loading of provisions and Equipment. Avoidance of sea-grass, bottom of docks will provide growth of habitat for fish and other critters. This basin flushes well due to close proximity to the inlet.

*(For reviewer only)*  
*(1-2 points)*

---

**9) CONSTRUCTION TECHNIQUES:**

- a) **Briefly explain the construction techniques to be utilized for this project. If a Phase 1, elaborate on potential techniques.**  
Concrete floating docks will be designed for a Cat 3 storm (loaded) based on a previous wave energy study that provided data to assist engineering. The floating dock sections will be manufactured offsite, transported to a designated staging area and ultimately towed by tug to the site. The floating docks will be interconnected and supported by steel piles driven using a vibratory hammer. Pre-manufactured aluminum frame overlay sections with hardwood decking will be installed over the existing concrete pier with the outer section supported by pre-stressed concrete piles driven using a barge with crane and drop or diesel hammer. Utilities along the fixed pier will be run in chases between the concrete deck and the decking of the aluminum frames. Utilities on the floating dock will be run in troughs cast integral with the concrete float sections.
- b) **How are the utilized construction techniques appropriate for the project site?**  
The construction techniques are typical for floating docks of this nature and have been used in other areas of Florida with similar environmental conditions. The proposed construction techniques will be similar to that used on previous phases of improvements, which demonstrated great success. Without this type of docks and pilings a Cat 3 hurricane warranty would not be possible in this site as well as the safety and stability would not be achieved.
- c) **Identify any unusual construction techniques that may increase or decrease the costs of the project.**  
Based on the marina location next to very deep water at the port and capacity to support larger super-yachts, the project requires massive concrete dock sections including large steel support piles. This requires large heavy equipment to handle and install, which can increase costs of construction. The concrete floating docks, however require fewer support piles than a fixed dock system.

*(For reviewer only)*  
*(1-3 points)*

---

**10) CONSTRUCTION MATERIALS:****a) List the materials to be utilized for this project. What is the design life of the proposed materials compared to other available materials?**

- 1) Pre-stressed concrete pilings: 50 year plus design life. Best
- 2) Steel pilings: 30 years plus design life. Needed to meet lateral load requirements. Best
- 3) Concrete floating docks. Best as stable for large vessels and provide wave-attenuating ability to protect vessels inside basin and get Cat 3 - 20 year warranty.
- 4) Aluminum frame fixed dock sections. Used to overlay existing concrete dock to make wider, safe walkway for access to the floating dock. The aluminum frames provide practical utility routing. 30 years plus design life.
- 5) IPE decking on the fixed dock, 20 year plus design life. Wears well, aesthetically pleasing and stays slip resistant. Matches rest of fixed docks in the marina.
- 6) Aluminum cleats and SS Ballard's.
- 7) HDPE pipe for water and sewer. Long life good flex. Only long term material
- 8) Stainless Steel electrical cabinets and pedestals. Long life, low maintenance.

**b) Identify any unique construction materials that may significantly alter the project costs.**

Most of the materials listed above may be slightly more costly than others, however to build a marina in saltwater for large vessels in open water and hurricane prone areas, the materials and approach will reduce costs over the long run, require less maintenance and provide a much safer environment for the vessels and crew.

*(For reviewer only)*

*(1-3 points)*

**RATING POINT**

**TOTAL** \_\_\_\_\_

(Note: The total maximum score possible is dependent upon the project priority category but cannot exceed 50 points unless the project qualifies as an emergency-related project. The minimum score possible is 10 points. A score of 35 points or more is required to be considered for funding.)



## ATTACHMENT E-5

**FLORIDA INLAND NAVIGATION DISTRICT  
ASSISTANCE PROGRAM 2017**

**PROJECT COST ESTIMATE**

**(See Rule Section 66B-2.005 & 2.008 for eligibility and funding ratios)**

<b>Project Title:</b>	<b>Marina Replacement / Reconfiguration / Expansion – Pier F</b>
<b>Applicant:</b>	<b>City of Riviera Beach</b>

<b>Project Elements</b> <i>(Please list the MAJOR project elements and provide general costs for each one. For Phase I Projects, please list the major elements and products expected)</i>	<b>Quantity or Total Estimated Cost</b> <i>(Number and/or Footage etc.)</i>	<b>Applicant's Cost</b>	<b>FIND Cost</b>
Contractor Mobilization and Demobilization	\$ 75,000	<b>50%    \$   37,500</b>	<b>50%    \$   37,500</b>
Existing Pier Partial Demolition / Repairs	\$ 75,000	<b>50%    \$   37,500</b>	<b>50%    \$   37,500</b>
Fixed Dock Overlay - Furnish and Install - includes structures, piles, cleats, railing, fender piles and accessories	\$ 580,000	<b>50%    \$   290,000</b>	<b>50%    \$   290,000</b>
Floating Dock – Furnish and Install - includes structures, piles, cleats, access gangway and accessories	\$ 915,000	<b>50%    \$   457,500</b>	<b>50%    \$   457,500</b>
Utilities and Fire Protection - includes water, sewer, electric, cable and fire	\$ 395,000	<b>50%    \$   197,500</b>	<b>50%    \$   197,500</b>
Construction Layout and Final Asbuilts	\$ 35,000	<b>50%    \$   17,500</b>	<b>50%    \$   17,500</b>
Environmental Control Measures	\$ 25,000	<b>50%    \$   12,500</b>	<b>50%    \$   12,500</b>
City Permits, Bonds and Licenses	\$ 50,000	<b>50%    \$   25,000</b>	<b>50%    \$   25,000</b>
Engineering, Permitting, Construction Administration & Project Management	\$ 250,000	<b>50%    \$   125,000</b>	<b>50%    \$   125,000</b>
<b>** TOTALS =</b>	<b>\$2,400,000</b>	<b>\$1,200,000</b>	<b>\$1,200,000</b>

**ATTACHMENT E-6  
WATERWAYS ASSISTANCE PROGRAM 2017**

**PROJECT TIMELINE**

<b>Project Title:</b>	<b>Marina Replacement / Reconfiguration / Expansion – Pier F</b>
<b>Applicant:</b>	<b>City of Riviera Beach</b>

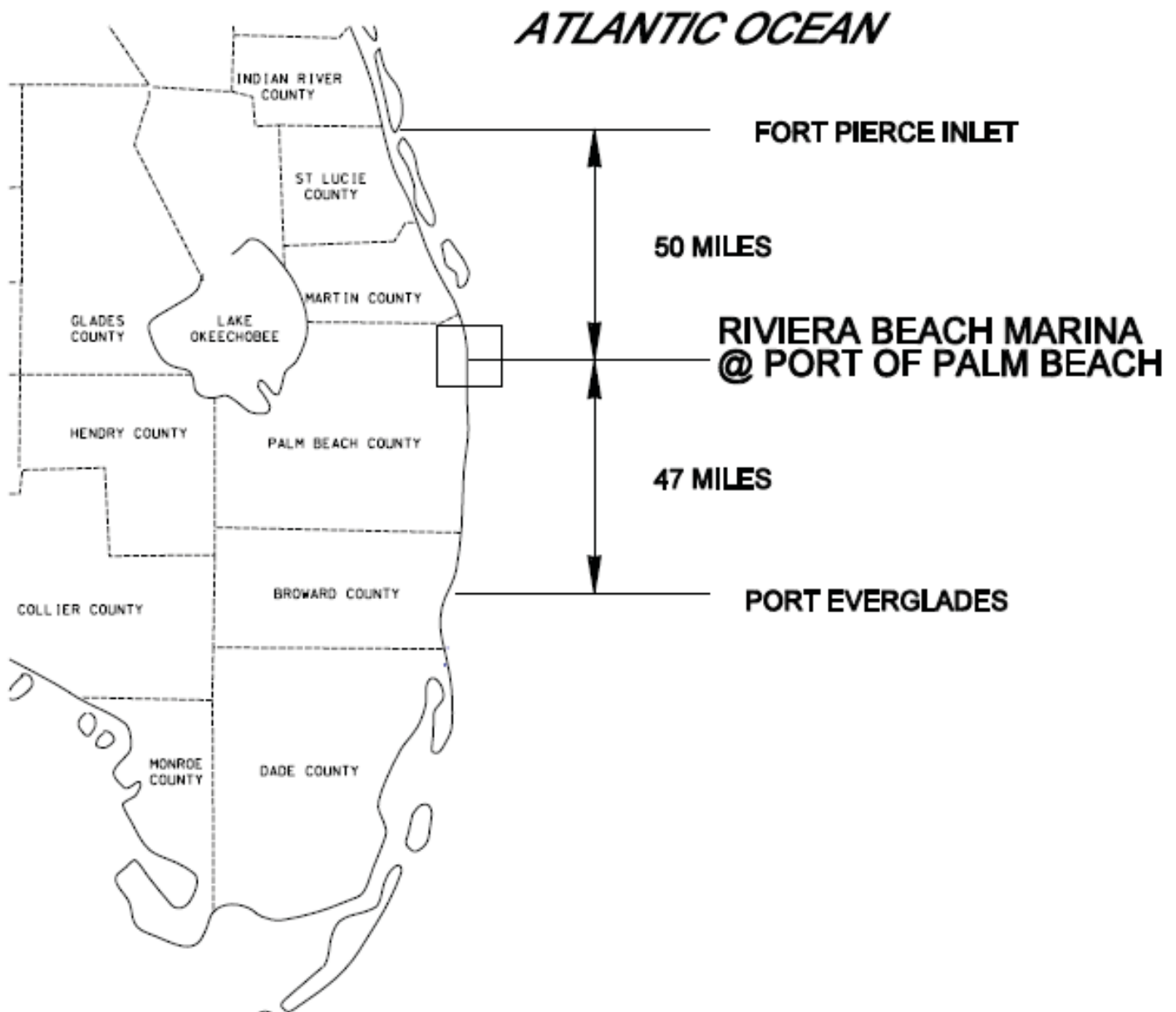
The applicant is to present a detailed timeline on the accomplishment of the components of the proposed project including, as applicable, completion dates for: permitting, design, bidding, applicant approvals, initiation of construction and completion of construction.

**NOTE: All funded activities must begin AFTER October 1<sup>st</sup>**  
(or be consistent with Rule 66B-2.005(3) - Pre-agreement expenses)

---

**Phase II.B – Marina Replacement / Reconfiguration / Expansion – Pier F**

October 1, 2017: Commence with Preparation of Bid Documents  
 January 2, 2018: Advertise for Bids  
 March 1, 2018: Contractor / Manufacturer Selection and Award of Contract  
 April 1, 2018: Shop Drawings Complete – Commence Dock Manufacturing  
 July 1, 2018: Dock Manufacturing Complete – Contractor Mobilization  
 December 30, 2018: Construction Complete

**NOT TO BE USED FOR CONSTRUCTION**

**CITY OF RIVIERA BEACH  
MARINA IMPROVEMENTS  
PROJECT PROXIMITY  
MAP**

PALM BEACH COUNTY, FLORIDA

Revisions:




SEA DIVERSIFIED, INC.  
Surveying and Engineering Applications

21 NW 2nd STREET  
Delray Beach, Florida 33444

Date:	MARCH 2017
Drawn by:	W.T.S.
Checked by:	W.T.S.
Scale:	N.T.S.

Sheet:

**2**

CADD ID:





# **CITY OF RIVIERA BEACH MARINA IMPROVEMENTS**

## **AERIAL MAP**

PALM BEACH COUNTY, FLORIDA

Revisions:




SEA DIVERSIFIED, INC.  
Surveying and Engineering Applications

21 NW 2nd STREET  
Delray Beach, Florida 33444

Date:	MARCH 2017
Drawn by:	W.T.S.
Checked by:	W.T.S.
Scale:	N.T.S.

Sheet:

**3**

CADD ID:





## **FIND PARTICIPATION TO DATE:**

**BULKHEAD REPLACEMENT  
 PROMENADE DOCK  
 PIERS A, A1, B, C, D AND D1  
 PIER G - SCHEDULED FOR CONSTRUCTION - 2017  
 WATER TAXI DOCK  
 COMMUNITY DOCK  
 ENGINEERING AND PERMITTING**



### **CITY OF RIVIERA BEACH MARINA IMPROVEMENTS NEW & EXISTING CONDITIONS**

PALM BEACH COUNTY, FLORIDA

Revisions:




**SEA DIVERSIFIED, INC.**  
 Surveying and Engineering Applications

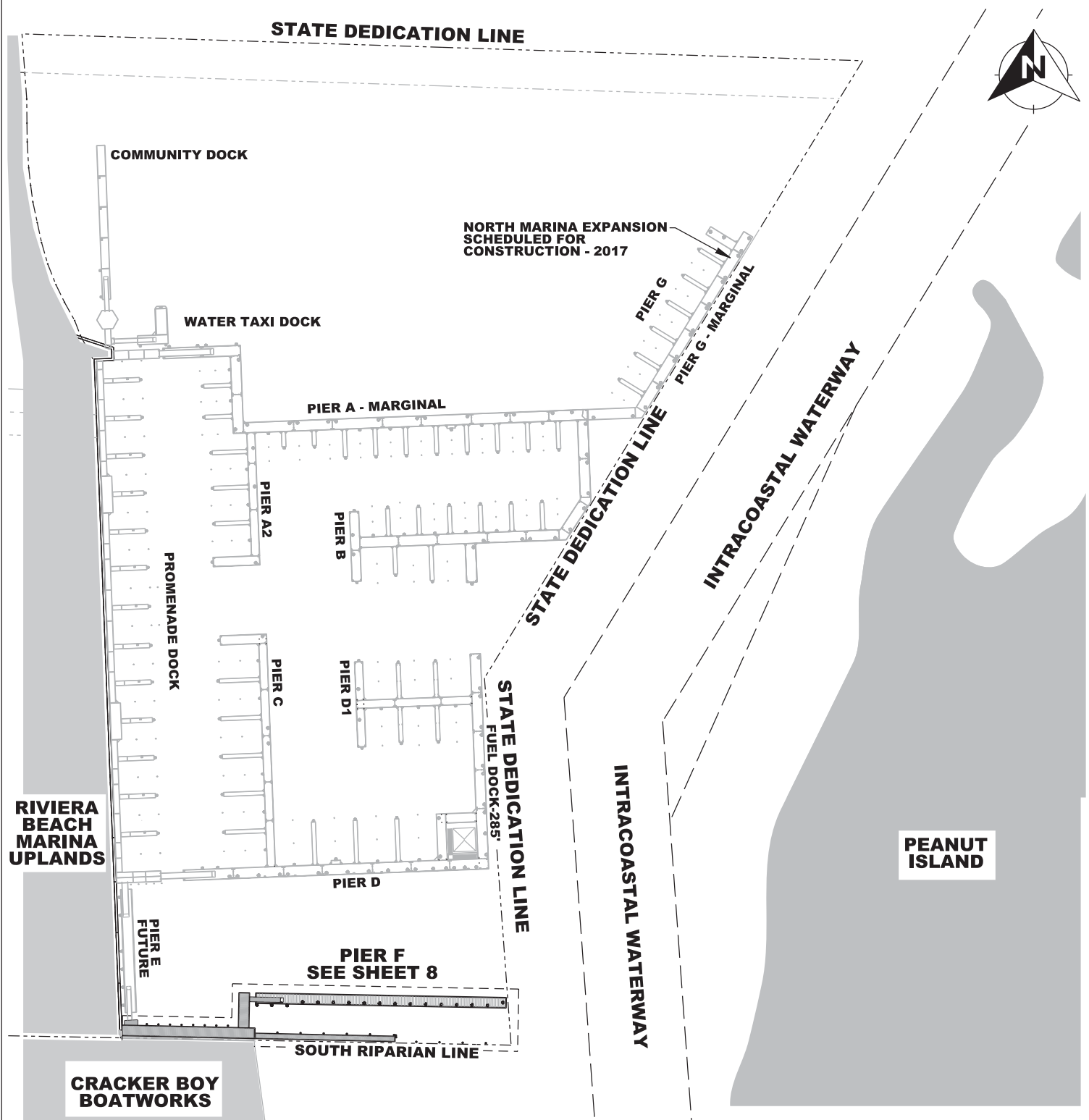
21 NW 2nd STREET  
 Delray Beach, Florida 33444

Date:	MARCH 2017
Drawn by:	W.T.S.
Checked by:	W.T.S.
Scale:	N.T.S.

Sheet:

**6**

CADD ID:



**CITY OF RIVIERA BEACH  
MARINA IMPROVEMENTS  
OVERALL MARINA PLAN  
EXISTING AND PROPOSED**

PALM BEACH COUNTY, FLORIDA

Revisions:



**SEA DIVERSIFIED, INC.**  
Surveying and Engineering Applications

21 NW 2nd STREET  
Delray Beach, Florida 33444

Sheet:

7

CADD ID:

Date:	MARCH 2017
Drawn by:	W.T.S.
Checked by:	W.T.S.
Scale:	1"=180'



## ATTACHMENT E-2

**WATERWAYS ASSISTANCE PROGRAM FY 2017  
PROJECT APPLICATION  
APPLICANT INFORMATION – PROJECT SUMMARY**

<b>APPLICANT INFORMATION</b>			
<b>Applicant:</b>	Village of North Palm Beach		
<b>Department:</b>	Parks and Recreation		
<b>Project Title:</b>	Anchorage Park		
<b>Project Director:</b>	Mark Hodgkins	<b>Title:</b>	Parks and Recreation Director
<b>Project Liaison:</b> <i>(if different from Project Director)</i>		<b>Title:</b>	
<b>Mailing Address:</b>	501 US Highway 1		
<b>City:</b>	North Palm Beach	<b>Zip Code:</b>	33408
<b>Email Address:</b>	mnhodgkins@village-npb.org	<b>Phone #:</b>	
<b>Project Address:</b>	603 Anchorage Drive North Palm Beach, FL 33408		

\*\*\*\*\* I hereby certify that the information provided in this application is true and accurate.\*\*\*\*\*

SIGNATURE: \_\_\_\_\_

DATE: 4/18/17

**PROJECT NARRATIVE** (Please summarize the project in space provided below in 2 paragraphs or less.)

The Village of North Palm Beach has begun the next phase of improvements to Anchorage Park. The first phase of the project was completed in 2010 with financial assistance from FIND. The site, which is located on the Earman River, is the Village's largest public access point to the AICW. In 2013 and 2015 the Village has received grants from the Land and Water Conservation Fund that will serve as the match for this grant request.

The project will construct a new canoe/kayak launch facility and boat day docks. In addition, improvements will include waterway access trails and viewing points. The total estimated cost for this project is \$400,000. The Village will match 50% of the total project costs.

## ATTACHMENT E-3 - PROJECT INFORMATION 2017

<b>Applicant:</b>	Village of North Palm Beach	<b>Project Title:</b>	Anchorage Park		
<b>Total Project Cost: \$</b>	650,000-400,000	<b>FIND Funding Requested: \$</b>	200,000	<b>% of Total Cost:</b>	34- 50%
<b>Amount and Source of Applicant's Matching Funds:</b>	2013 Land and Water Conservation Fund Grant \$200,000 2015 Land and Water Conservation Fund Grant \$200,000				

1. Ownership of Project Site (check one): Own: ☒ Leased: ☐ Other: ☒

2. If leased or other, please describe lease or terms and conditions:

3. Has the District previously provided assistance funding to this project or site? Yes: ☒ No: ☐

4. If yes, please list:

2008 WAP - Anchorage Park \$200,000

5. What is the current level of public access in terms of the number of boat ramps, boat slips and trailer parking spaces, linear feet of boardwalk (etc.)? (as applicable):

The site has a boat ramp with two launch lanes, 30 boat slips and 95 trailer parking spaces. The project site has several existing boardwalks including along the boat ramps.

6. How many additional ramps, slips, parking spaces or other access features will be added by this project?

The project will add 3 day-dock slips. There will be no fees to access the facilities funded through WAP Funding.

7. Are fees charged for the use of this project? No ☒ Yes ☐ \*\*

\*\*If yes, please attach additional documentation of fees and how they compare with fees from similar public & private facilities in the area.

Please list all Environmental Resource Permits required for this project:

AGENCY	Yes / No / N/A	Date Applied For	Date Recieved
WMD	Yes	Has not been applied for	
DEP			
ACOE			
COUNTY / CITY	Yes	Has not been applied for	

**ATTACHMENT E-4****WATERWAYS ASSISTANCE PROGRAM  
APPLICATION AND EVALUATION WORKSHEET**

**DIRECTIONS:** All applicants will complete questions 1 through 6, and then based on the type of project, complete one and only one subsection (E-4A, B, C, D or E) for questions 7-10.

**\*\*Please keep your answers brief and do not change the pagination of Attachment E-4 \*\***

All other sub-attachments that are not applicable to an applicant's project should not be included in the submitted application.

<b>Project Title:</b>	Anchorage Park
<b>Applicant:</b>	Village of North Palm Beach

**1) PRIORITY LIST:**

- a) Denote the priority list category of this project from Attachment C in the application.** (The application may only be of **one** type based upon the predominant cost of the project elements.)

#7- Acquisition, dredging, shoreline stabilization and development of public boat docking and mooring facilities

- b) Explain how the project fits this priority category.**

The project will develop three new day-dock boat slips. These public docks will provide increased access to the park and its recreational amenities.

*(For reviewer only)*

Max. Available Score for application 47

Question 1. Range of Score (1 to 5 points)



---

**2) WATERWAY RELATIONSHIP:**

- a) Explain how the project relates to the ICW and the mission of the Navigation District.**

Anchorage Park is located on the Earman River which provides access to the ICW. The completion of the project will preserve public access to the waterway and enhance the community's ability to access the Intracoastal.

- b) What public access or navigational benefit to the ICW or adjoining waterway will result from this project?**

Anchorage Park is located on the Earman River which provides boaters with access to the ICW. The kayak launch will provide direct access to the ICW. The project will preserve public access to the waterway and enhance the community's ability to enjoy the waterway's natural re

*(For reviewer only)*  
*(1-6 points)*

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**3) PUBLIC USAGE & BENEFITS:**

- a) How is the public usage of this project clearly identified and quantified? Estimate the amount of total public use.**

Anchorage Park is a popular recreation destination. The site is the Village's largest public access point to the waterway. Heavy use has led to the need for expansion and renovation of aging facility.

- b) Discuss the regional and local public benefits that will be provided by the project. Can residents from other counties of the District reasonably access and use the project? Explain.**

The site is open to all residents of the region. While local residents can access the park by cycling or walking, visitors from all over the area will be able to enjoy the site due to increased parking and boat access.

- c) Are there any restrictions placed on commercial access or use of this site?**

The project site does not allow commercial access. Anchorage Park has been developed for use by the residents of the northern Palm Beach County area.

*(For reviewer only)*  
*(1-8 points)*

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#### 4) TIMELINESS

- a) Describe current status of the project and present a reasonable and effective timeline for the completion of the project consistent with Attachment E-6.**

The project has completed preliminary design. Final construction specifications are being completed and the Village expects to obtain permitting by August 2017. The anticipated start date for construction is October 2017. The project will take 6-8 months to complete.

- b) Briefly explain any unique aspects of this project that could influence the project timeline.**

The project site is susceptible to weather events such as hurricanes. However, with construction expected to take place after hurricane season, the chances for delays are drastically reduced.

*(For reviewer only)*  
*(1-3 points)*

---

#### 5) COSTS & EFFICIENCY:

- a) List funding sources and the status and amount of the corresponding funding that will be utilized to complete this project.**

The Village will two awarded federal grants. The Village received a \$200,000 LWCF grant in 2013 and another \$200,000 in 2015. A portion of these funds will assist the Village in matching this grant.

- b) Identify and describe any project costs that may be increased because of the materials utilized or specific site conditions.**

There are no anticipated increase in the cost of completing the project.

- c) Describe any methods to be utilized to increase the cost efficiency of this project.**

In addition to seeking all available grant funding, the Village will engage an experienced project manager, which will reduce costs and allow better overall cost control.

- d) If there are any fees associated with the use of this facility, please detail. In addition, please provide a listing of the fees charged by similar facilities, public and private, in the project area.**

Fees will not be charged for use of the of any facilities funded by FIND

*(For reviewer only)*  
*(1-6 points)*

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**6) PROJECT VIABILITY:**

- a) **What specific need in the community does this project fill? Is this project referenced or incorporated in an existing maritime management, public assess or comp plan?**

The project site is one of the most popular outdoor recreation destinations in the area. Anchorage Park is also one of the few publicly owned waterfront parks and marinas located in the area. Increased usage and enhanced safety will benefit the community

- b) **Clearly demonstrate how the project will continue to be maintained and funded after District funding is completed.**

The Village has maintained the park since its inception. The site will continue to be maintained by the Village's Parks and Recreation Department and Public Works staff. Costs of maintaining the project are designated in the Village's annual budget.

- c) **Will the program result in significant and lasting benefits? Explain.**

The improvements being made as part of the project will enable the park to serve the community for many years to come. To ensure the facilities of the site will continue to provide lasting benefits, the project elements will be constructed using proven techniques and materials.

- d) **Please describe any environmental benefits associated with this project.**

The project will enhance public access to the water and related habitats. Construction of the facilities will be done using the most environmental friendly techniques and to best incorporate the facilities into the natural setting.

*(For reviewer only)*  
*(1-7 points)*

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SUB-TOTAL \_\_\_\_\_

FIND FORM NO. 91-25

Rule 66B-2.005 (Effective Date: 3-21-01, Revised 4-24-06, 1-27-14)



**ATTACHMENT E-4A  
DEVELOPMENT & CONSTRUCTION PROJECTS**

**WATERWAYS ASSISTANCE PROGRAM  
APPLICATION AND EVALUATION WORKSHEET**

THIS ATTACHMENT IS TO BE COMPLETED IF YOUR PROJECT IS A  
DEVELOPMENT OR CONSTRUCTION PROJECT BUT **IS NOT** AN INLET  
MANAGEMENT OR BEACH RENOURISHMENT PROJECT.

**7) PERMITTING:**

- a) Have all required environmental permits been applied for? (USACE, DEP and WMD)  
If permits are NOT required, explain why not.**

The Village will need to obtain a municipal construction permit and SFWMD permit. The Village has not applied for these permits because a final design has not been completed. However the Village has engineered and is in the process of completing final design and permitting. This is anticipated to occur before September 2017.

- b) If the project is a Phase I project, list the tasks scheduled to obtain the necessary permits and engineering work and provide a general cost estimate for the future Phase II work.**

N/A

- c) Detail any significant impediments that may have been identified that would potentially delay the timely issuance of the required permits.**

As the project site is an existing waterfront recreational and boating facility there are no anticipated issues that would delay permitting.

*(For reviewer only)  
(1-4 points)*

---

**8) PROJECT DESIGN:**

- a) Has the design work been completed? If this is a Phase I project, has a preliminary design been developed?**

The preliminary design of the project has been completed and approved. The plan is included as part of this application. Final design and permitting has begun and expected to be completed by September 2017.

- b) Are there unique beneficial aspects to the proposed design that enhance public usage or access, minimize environmental impacts, improve water quality or reduce costs?**

The project will increase public access to the waterway by redesigning the current site. The project will be integrated into the facilities completed as part of Phase I and lead to increase access for the surrounding region including those visiting by boat.

*(For reviewer only)*  
*(1-2 points)*

---

**9) CONSTRUCTION TECHNIQUES:**

- a) Briefly explain the construction techniques to be utilized for this project. If a Phase 1, elaborate on potential techniques.**

The Village will contract with experienced companies to complete each element of the project. A contractor will be selected based on not only cost but experience.

- b) How are the utilized construction techniques appropriate for the project site?**

The development of the project will be consistent with all accepted techniques of waterfront construction and adhere to all guidelines and regulations set forth by the Village, County, District and the State.

- c) Identify any unusual construction techniques that may increase or decrease the costs of the project.**

The project does not involve any unique construction techniques.

*(For reviewer only)*  
*(1-3 points)*

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**10) CONSTRUCTION MATERIALS:**

- a) List the materials to be utilized for this project. What is the design life of the proposed materials compared to other available materials?**

As a result of recent hurricanes, the project will be completed with materials known to more effectively survive any future storms. The ability of the Village not only to enhance the site, but also renovate the elements to increase safety and durability is crucial. The Village will use recycled materials whenever feasible and cost effective. Elements such as viewing benches are often composed of recycled plastics. The anticipated design life of the project is 20 years.

- b) Identify any unique construction materials that may significantly alter the project costs.**

The project will not involve any unique materials.

*(For reviewer only)*  
*(1-3 points)*

---

**RATING POINT  
TOTAL** \_\_\_\_\_

(Note: The total maximum score possible is dependent upon the project priority category but cannot exceed 50 points unless the project qualifies as an emergency-related project. The minimum score possible is 10 points. A score of 35 points or more is required to be considered for funding.)





**ATTACHMENT E-6  
WATERWAYS ASSISTANCE PROGRAM 2017**

**PROJECT TIMELINE**

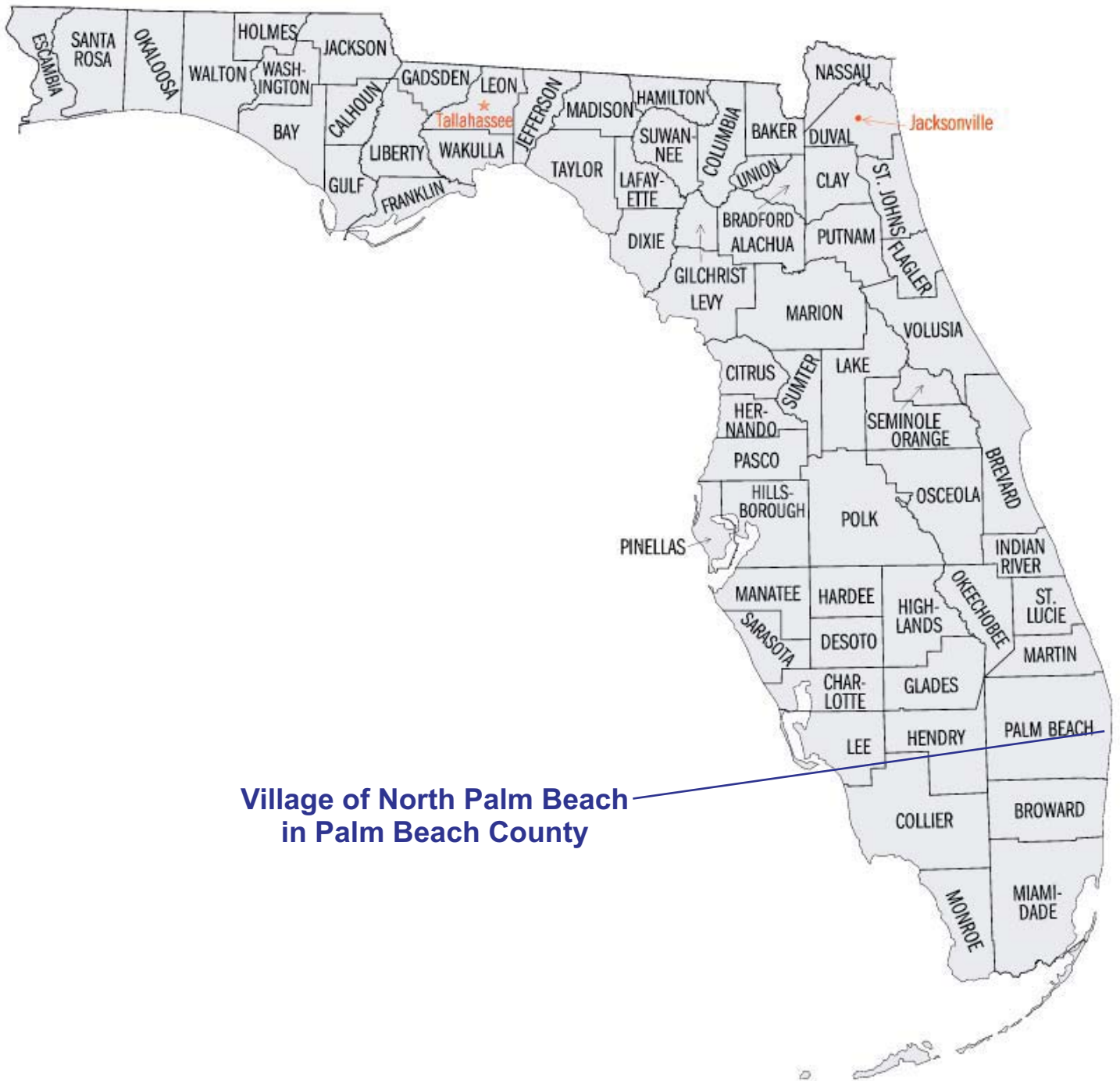
<b>Project Title:</b>	Anchorage Park
<b>Applicant:</b>	Village of North Palm Beach

The applicant is to present a detailed timeline on the accomplishment of the components of the proposed project including, as applicable, completion dates for: permitting, design, bidding, applicant approvals, initiation of construction and completion of construction.

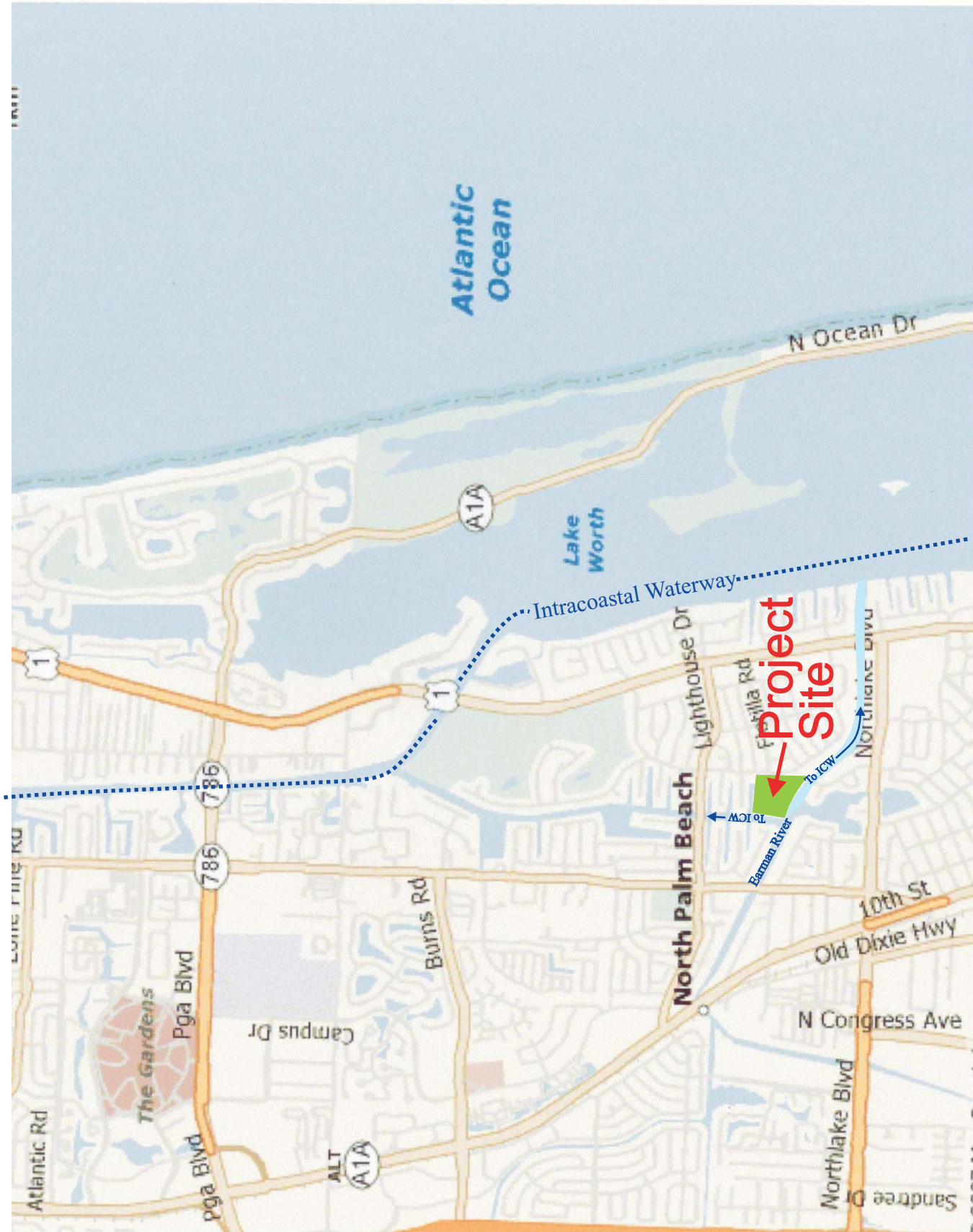
**NOTE: All funded activities must begin AFTER October 1<sup>st</sup>**  
(or be consistent with Rule 66B-2.005(3) - Pre-agreement expenses)

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PROJECT ACTIVITY	EST. COMPLETION DATE
Design and Engineering (Not part of the grant request)	August 2017
Permitting	August 2017
Contractor Selection	September 2017
Construction Commencement	October 2017
Construction Complete	May 2018









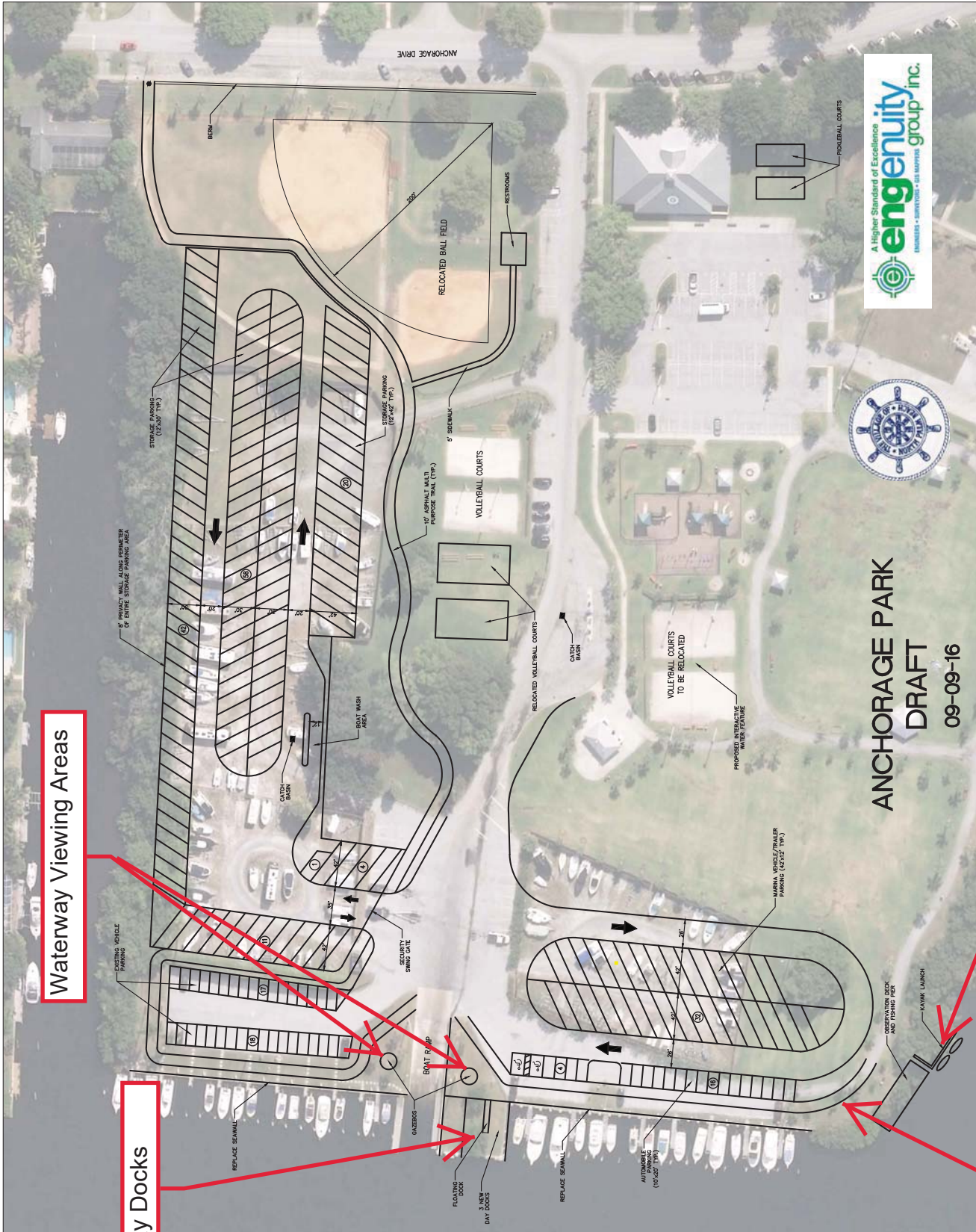
2017 FIND ELEMENTS

Waterway Viewing Areas

Day Docks

Kayak/Canoe Launch

Waterway Pathways



- NOTES:
1. DRIVEWAY IN STORAGE PARKING AREA IS TO BE RELOCATED TO THE SOUTH SIDE OF THE DRIVEWAY.
  2. STORAGE PARKING SPACES ARE TO BE PARKED IN THE EXISTING DRIVEWAY.
  3. LIGHTING IN STORAGE PARKING AREA WILL BE PROVIDED BY THE CITY.
  4. MAINT. PURPOSE TRAIL WILL HAVE LIGHTING PROVIDED BY THE CITY.
  5. THERE WILL BE VEGETATION IN FRONT OF THESE PARKING SPACES.

PARKING SUMMARY

EXISTING VEHICLE PARKING	= 20
STORAGE (LOT) = 32	
MARINA VEHICLE/TRAILER PARKING	= 20
AUTOMOBILE PARKING (LOT) = 25	





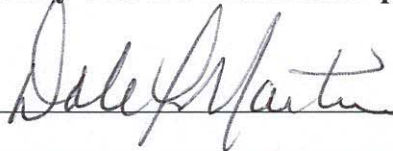
## ATTACHMENT E-2

**WATERWAYS ASSISTANCE PROGRAM FY 2017  
PROJECT APPLICATION  
APPLICANT INFORMATION – PROJECT SUMMARY**

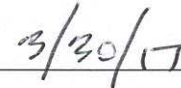
APPLICANT INFORMATION			
<b>Applicant:</b>	City of Fernandina Beach		
<b>Department:</b>	Marina		
<b>Project Title:</b>	Southern Basin Dock Realignment <del>Phase II</del> Phase IB		
<b>Project Director:</b>	Joe Springer	<b>Title:</b>	Marina Manager
<b>Project Liaison:</b> (if different from Project Director)	Dale Martin	<b>Title:</b>	City Manager
<b>Mailing Address:</b>	204 Ash Street		
<b>City:</b>	Fernandina Beach	<b>Zip Code:</b>	32034
<b>Email Address:</b>	dmartin@fbfl.org	<b>Phone #:</b>	904-310-3100
<b>Project Address:</b>	23 S. Front Street – Fernandina Beach, FL 32034		

\*\*\*\*\* I hereby certify that the information provided in this application is true and accurate.\*\*\*\*\*

SIGNATURE: \_\_\_\_\_



DATE: \_\_\_\_\_



**PROJECT NARRATIVE** (Please summarize the project in space provided below in 2 paragraphs or less.)

Fernandina Harbor Marina has a severe siltation problem. It has been determined by realigning the internal docks on the south end of the marina, the water flow through the marina will be allowed to flow at a greater unobstructed rate. This greater water flow should discourage the sedimentary drop outs currently being experienced.

The docks, when complete will change from an east/west fingered pier slips to contiguous north/south side tie configuration.

## ATTACHMENT E-3 - PROJECT INFORMATION 2017

Phase IB

<b>Applicant:</b>	City of Fernandina Beach	<b>Project Title:</b>	Southern Basin Dock Realignment Phase II		
<b>Total Project Cost: \$</b>	300,000	<b>FIND Funding Requested: \$</b>	150,000	<b>% of Total Cost:</b>	50%
<b>Amount and Source of Applicant's Matching Funds:</b>	<p>\$150,000.</p> <p>The City of Fernandina Beach will provide \$150,000 of funding from the local property tax revenue to match with a request of \$150,000 in funding from FIND.</p>				

**1. Ownership of Project Site (check one):** Own: ☒ Leased: ☐ Other: ☐

**2. If leased or other, please describe lease or terms and conditions:**

**3. Has the District previously provided assistance funding to this project or site?** Yes: ☒ No: ☐

**4. If yes, please list:** (1) 2005: Mooring Field Phase I; (2) 2005: Riverfront Boardwalk; (3) 2006 Mooring Field Phase II; (4) 2006 Docks E, F & G Rehabilitation Phase I; (5) 2007 Docks E, F & G Rehabilitation Phase II; (6) 2008 Dock E, F & G Rehabilitation Phase II-B; (7) 2011 Dredging Marina Basin Phase A; (8) 2012 Dredging Marina Basin Phase B; (9) (2014) Enhancements and Improvements to the Marina's Breakwater Dock; (10) 2014 Mooring Field Expansion Phase I (a); (11) 2015 Dock 6 Fire Line Replacement; (12) 2015 Breakwater Dock Improvements and Safety Enhancements; (13) 2015 Mooring Field Expansion Phase I (b); (14) 2016 Marina Basin Dredging; (15) 2016 Southern Basin Realignment

**5. What is the current level of public access in terms of the number of boat ramps, boat slips and trailer parking spaces, linear feet of boardwalk (etc.)?** (as applicable): Existing Managed Mooring Field consisting of 20 mooring balls, One three lane boat ramp, 120 boat slips, which 72 are innerdocking slips, 12 vehicle and trailer parking locations and an additional acreage for temporary boat trailer parking

**6. How many additional ramps, slips, parking spaces or other access features will be added by this project?**

**7. Are fees charged for the use of this project?** No ☐ Yes ☒

**\*\* If yes, please attach additional documentation of fees and how they compare with fees from similar public & private facilities in the area.**

**Please list all Environmental Resource Permits required for this project:**

AGENCY	Yes / No / N/A	Date Applied For	Date Received
WMD	No	Click here to enter text.	Click here to enter text.
DEP	Yes-SAJ-1997-02063 SP	1/20/2011	1/20/2011
ACOE	Yes-45-75835-099 EE	01/20/2011	1/20/2011
COUNTY / CITY	N/A	Click here to enter text.	Click here to enter text.



## ATTACHMENT E-4

WATERWAYS ASSISTANCE PROGRAM  
APPLICATION AND EVALUATION WORKSHEET

**STEP 1:** All applicants will complete Attachment E-4 of the worksheet, which includes questions 1 through 6. **\*\*Do not answer with more than four sentences.\*\***

**STEP 2:** Complete **one and only one sub-Attachment** (E-4 A, B, C, D or E, questions 7-10) according to the applicant's project type.

All other sub-attachments that are not applicable to an applicant's project should not be included in the submitted application.

<b>Project Title:</b>	Southern Basin Dock Realignment Phase I-I- IB
<b>Applicant:</b>	City of Fernandina Beach

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**1) PRIORITY LIST:**

- a) **Denote the priority list category of this project from Attachment C in the application.** (The application may only be of **one** type based upon the predominant cost of the project elements.)

Priority #8 – Acquisition, dredging, shoreline stabilization and **development of public boat docking** and mooring facilities.

- b) **Explain how the project fits this priority category.**

The project develops the existing docking facilities in the southern basin of the marina.

(For reviewer only)

Max. Available Score for application 47

Question 1. Range of Score (1 to 5 points)

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**2) WATERWAY RELATIONSHIP:**

- a) **Explain how the project directly relates to the ICW and the mission of the Navigation District.**

The project fits with the mission of the Navigation District as it would be a waterway improvement program that will enable an increased number of boaters entering the ICW access to safe and secure dockage that can accommodate vessels for both short and longer periods of time.

- b) **What public access or navigational benefit to the ICW or adjoining waterway will result from this project?**

As the number of boaters increases, we need to have a known product to provide safe and secure dockage for both the local and transient boaters that is less affected by siltation. This project will insure these boaters are able to achieve that requirement in and on the Amelia River and while they enjoy their travels on the ICW.

*(For reviewer only)*  
*(1-6 points)*

---

**3) PUBLIC USAGE & BENEFITS:**

- a) **How is the public usage of this project clearly identified and quantified? Estimate the amount of total public use.**

In fiscal year 2013/2014, and again in fiscal year 2014/2015, an increase in usage of approximately 12% occurred each fiscal year. The number of stays on the docks decreased in 2015/2016 as fewer dock spaces were available due to siltation. This decrease in available slip locations was exacerbated in the 2016/2017 fiscal year by additional siltation. By increasing the number of available docking spaces, the boating public will benefit.

- b) **Discuss the regional and local public benefits that will be provided by the project. Can residents from other counties of the District reasonably access and use the project? Explain.**

The regional and local public benefits include: increased number of boat slips available to transient boaters; boat ramp able to launch larger boats; and Marina able to accommodate events such as fishing contests. As the first Marina in Florida available to boaters coming from the north, the Fernandina Harbor Marina must maintain a good reputation as a desirable and reliable stop for transient boaters. All of the above will be a boon to the local economy that relies on the tourism industry as its primary source for jobs and revenue.

YES - Boaters from the surrounding counties including Duval, St. Johns and Flagler are within a few hours sail from the Fernandina Harbor Marina. The boaters coming in from both the North and the South will be able to stay over to rest, replenish and enjoy the local area.

- c) **Are there any restrictions placed on commercial access or use of this site?**

No

*(For reviewer only)*  
*(1-8 points)*

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#### 4) TIMELINESS

- a) **Describe current status of the project and present a reasonable and effective timeline for the completion of the project consistent with Attachment E-6.**

The marina is subject to approximately a siltation factor of 1 foot per year. Although dredging has slowed the inevitable loss of slips, the slips are still being lost. This realignment will help to minimize the siltation and therefore the inevitable reduction in usable dock space. If approved and funded, bid documents will be prepared in September 2017. The bidding process will be conducted in October/November 2017. Vendor(s) will be selected in November 2017. Contract execution will take place with the Vendors and the City of Fernandina Beach in December 2017. Planning, design and permitting will start in December 2017/January 2018 and will be completed by April 2018. Phase III of the project, if approved, will follow a similar timeline for calendar 2018 – 2019.

- b) **Briefly explain any unique aspects of this project that could influence the project timeline.**

Weather conditions might create temporary delays in the project but there appears to be no other aspects that could influence the project timeline.

*(For reviewer only)*

*(1-3 points)*

---

#### 5) COSTS & EFFICIENCY:

- a) **List funding sources and the status and amount of the corresponding funding that will be utilized to complete this project.**

The City of Fernandina Beach will provide \$150,000 of funding from the local property tax revenue to match a request of \$150,000 in funding from FIND.

- b) **Identify and describe any project costs that may be increased because of the materials utilized or specific site conditions.**

No known material or site conditions should alter Phase II on this project.

- c) **Describe any methods to be utilized to increase the cost efficiency of this project.**

The City of Fernandina Beach will have all pilings and docks removed on a staggered basis to insure some slips will be available to the boating public. Sections of docks will be removed, rehabilitated or replaced and then, returned to the Southern Basin. This will be a continuous process that will enable the successful bidder an opportunity to work on the water or on the land depending on the conditions on a particular work day.

- d) **If there are any fees associated with the use of this facility, please detail. In addition, please provide a listing of the fees charged by similar facilities, public and private, in the project area.**

Deep water Dockage	
Fernandina Harbor Marina	2.00 per foot per night
Amelia River Marina	2.00 per foot per night
Oyster Bay Yacht Club and Marina	2.00 per foot per night
Fee Sheet Attached	

*(For reviewer only)*

*(1-6 points)*

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**6) PROJECT VIABILITY:**

- a) What specific need in the community does this project fill? Is this project referenced or incorporated in an existing maritime management, public assess or comp plan?**

The siltation taking place at Fernandina Harbor Marina is causing the local and transient boaters reduced access to viable deep water dockage. By having an alternative alignment of the internal docks within the basin of the marina, the constant need to dredge will be minimized. This will be accomplished by having all of the docks oriented to a North/South configuration which is in line with the natural water directions.

- b) Clearly demonstrate how the project will continue to be maintained and funded after District funding is completed.**

As the improvements to the southern basin are an integral part of the dock itself, the City of Fernandina Beach will provide for the maintenance of these improvements as part of the annual budget process. Repairs and maintenance will be provided when possible by city employees.

- c) Will the program result in significant and lasting benefits? Explain.**

With the successful outcome of this phase, the long term benefits will be the ability to dock boats in naturally deep water areas, particularly transient vessels that require more than 4 ½' draft. The number of vessels requesting dockage is increasing every year. In addition the number of deep draft sail boats has increased and the public demands dockside access when available. By having additional usable dock space available, we will be able to not only use them for daily first come first served but also for advanced reservation.

- d) Please describe any environmental benefits associated with this project.**

By utilizing the existing docks in a reconfigured placement, no additional docks will need to be manufactured or transported to our site. The realignment of the southern marina basin docks will encourage unobstructed water flow and scouring of the internal area. This in turn should minimize the need to dredge and also, the need to transport dredged material to an off load site.

*(For reviewer only)*  
*(1-7 points)*

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SUB-TOTAL \_\_\_\_\_

FIND FORM NO. 91-25

Rule 66B-2.005 (Effective Date: 3-21-01, Revised 4-24-06, 1-27-14)



**ATTACHMENT E-4A  
DEVELOPMENT & CONSTRUCTION PROJECTS**

**WATERWAYS ASSISTANCE PROGRAM  
APPLICATION AND EVALUATION WORKSHEET**

THIS ATTACHMENT IS TO BE COMPLETED IF YOUR PROJECT IS A  
DEVELOPMENT OR CONSTRUCTION PROJECT BUT IS NOT AN INLET  
MANAGEMENT OR BEACH RENOURISHMENT PROJECT.

---

**7) PERMITTING:**

- a) **Have all required environmental permits been applied for? If permits are NOT required, explain why not.**

Environmental permits, Submerged Land Leases and ACOE are in place.

- b) **If the project is a Phase I project, list the tasks scheduled to obtain the necessary permits and engineering work. Please provide a general cost estimate for the future Phase II work.**

- c) **Detail any significant impediments that may have been identified that would potentially delay the timely issuance of the required permits.**

No significant impediments have been identified

*(For reviewer only)  
(1-4 points)*

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**8) PROJECT DESIGN:**

- a) **Has the design work been completed? If this is a Phase I project, has a preliminary design been developed?**

Preliminary design has been completed and final decision is waiting for City approval.

- b) **Are there unique beneficial aspects to the proposed design that enhance public usage or access, minimize environmental impacts, improve water quality or reduce costs?**

The realignment of the marina basin docks will encourage unobstructed water flow and scouring of the internal area. This in turn should minimize the need to dredge sediment and transport that dredged material to an off load site, thus reducing costs to FIND and the City of Fernandina Beach.

*(For reviewer only)*  
*(1-2 points)*

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**9) CONSTRUCTION TECHNIQUES:**

- a) **Briefly explain the construction techniques to be utilized for this project. If a Phase 1, elaborate on potential techniques.**

The existing docks will be disassembled and removed from the water. While these floating dock sections are out of the water they will be inspected and repairs made if needed. In addition, the existing installed pilings will either be utilized or removed. If removed, replacement pilings will be installed. Prior to piling installation, bed leveling will take place if needed. Pilings will be installed and the floating dock reattached.

- b) **How are the utilized construction techniques appropriate for the project site?**

These construction techniques are the standard of this type of construction

- c) **Identify any unusual construction techniques that may increase or decrease the costs of the project.**

N/A

*(For reviewer only)*  
*(1-3 points)*

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**10) CONSTRUCTION MATERIALS:**

- a) **List the materials to be utilized for this project. What is the design life of the proposed materials compared to other available materials?**

Concrete pilings and floating docks and all ancillary hardware to be salt water tolerant.

- b) **Identify any unique construction materials that may significantly alter the project costs.**

No unique construction materials have been identified.

*(For reviewer only)*  
*(1-3 points)*

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**RATING POINT  
TOTAL** \_\_\_\_\_

(Note: The total maximum score possible is dependent upon the project priority category but cannot exceed 50 points unless the project qualifies as an emergency-related project. The minimum score possible is 10 points. A score of 35 points or more is required to be considered for funding.)

Form No. 91-25A

Rule 66B-2.005 (Effective Date: 3-21-01, revised 4-24-06, 1-27-14)



## ATTACHMENT E-5

**FLORIDA INLAND NAVIGATION DISTRICT  
ASSISTANCE PROGRAM 2017**

**PROJECT COST ESTIMATE**

**(See Rule Section 66B-2.005 & 2.008 for eligibility and funding ratios)**

<b>Project Title:</b>	Southern Basin Dock Realignment Phase I B
<b>Applicant:</b>	City of Fernandina Beach

<b>Project Elements</b> <i>(Please list the MAJOR project elements and provide general costs for each one. For Phase I Projects, please list the major elements and products expected)</i>	<b>Quantity or Total Estimated Cost</b> <i>(Number and/or Footage etc.)</i>	<b>Applicant's Cost</b>	<b>FIND Cost</b>
<b>Planning</b> Existing Data Review Initial Site Analysis Site Analysis Summary	32,000.00	16,000.00	16,000.00
<b>Design</b> Design Surveys Geotechnical Services Preliminary Design Documents Cost Estimate Submittal Final Design Documents	75,000.00	37,500.00	37,500.00
<b>Permitting</b> Permit Application Submissions Additional Permitting Requests Final Permitting Submissions	43,000.00	21,500.00	21,500.00
<b>**TOTALS =</b>	<b>\$ 150,000.00</b>	<b>\$ 75,000.00</b>	<b>\$ 75,000.00</b>

## ATTACHMENT E-6 WATERWAYS ASSISTANCE PROGRAM 2017

### PROJECT TIMELINE

<b>Project Title:</b>	Southern Basin Dock Realignment Phase II
<b>Applicant:</b>	City of Fernandina Beach

The applicant is to present a detailed timeline on the accomplishment of the components of the proposed project including, as applicable, completion dates for: permitting, design, bidding, applicant approvals, initiation of construction and completion of construction.

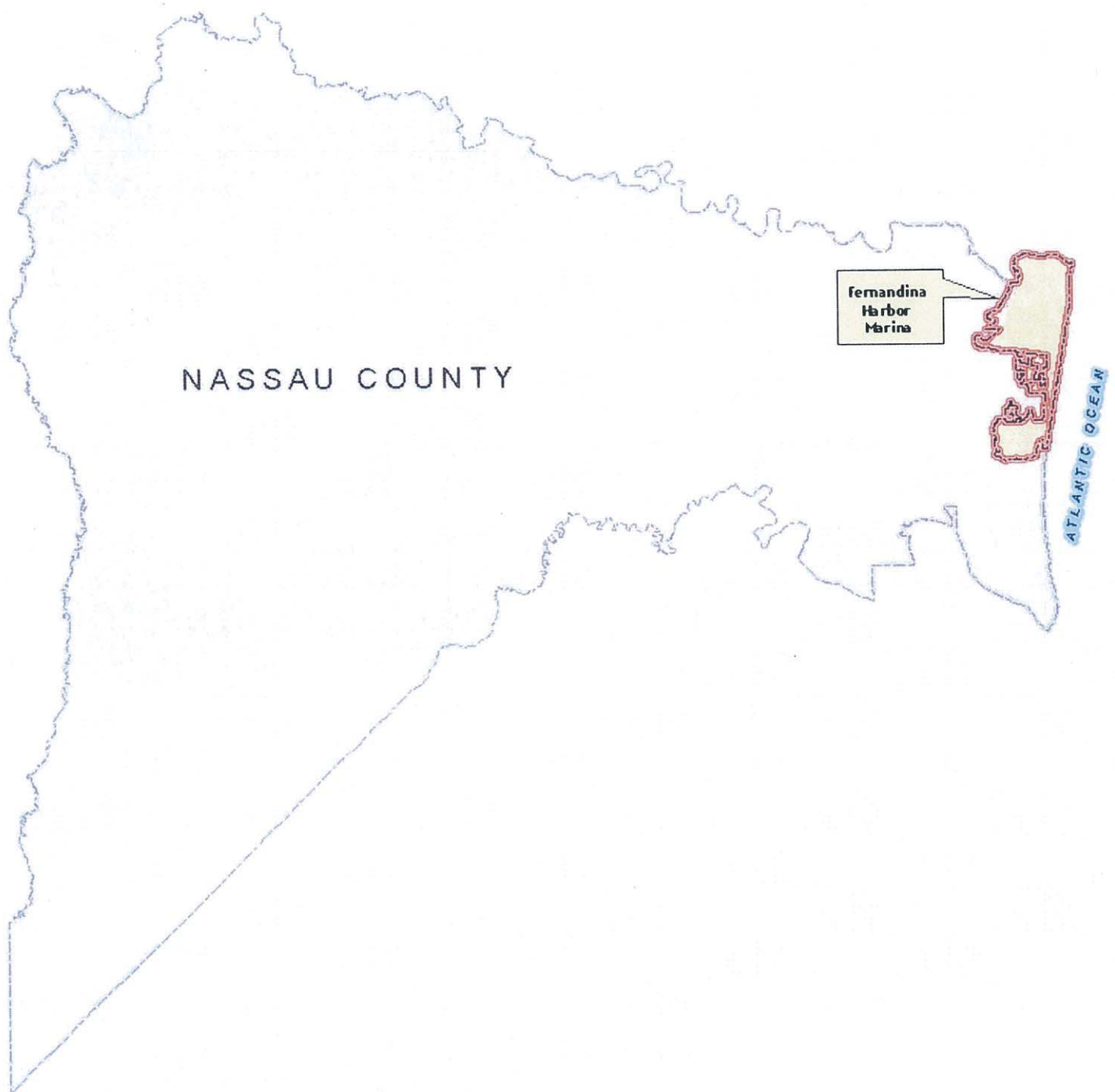
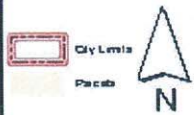
**NOTE: All funded activities must begin AFTER October 1<sup>st</sup>**  
(or be consistent with Rule 66B-2.005(3) - Pre-agreement expenses)

	<- 2 0 1 7 -   -   -   -   2 0 1 8 ->											
PROJECT TASK	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug
Prepare Bid Documents												
Solicit & Open Bids												
Bid Analysis & Selection of Vendor(s)												
Contract Execution w/City												
Engineering and Permitting												
Submit Costs Documentation to FIND for Partial Reimbursement												



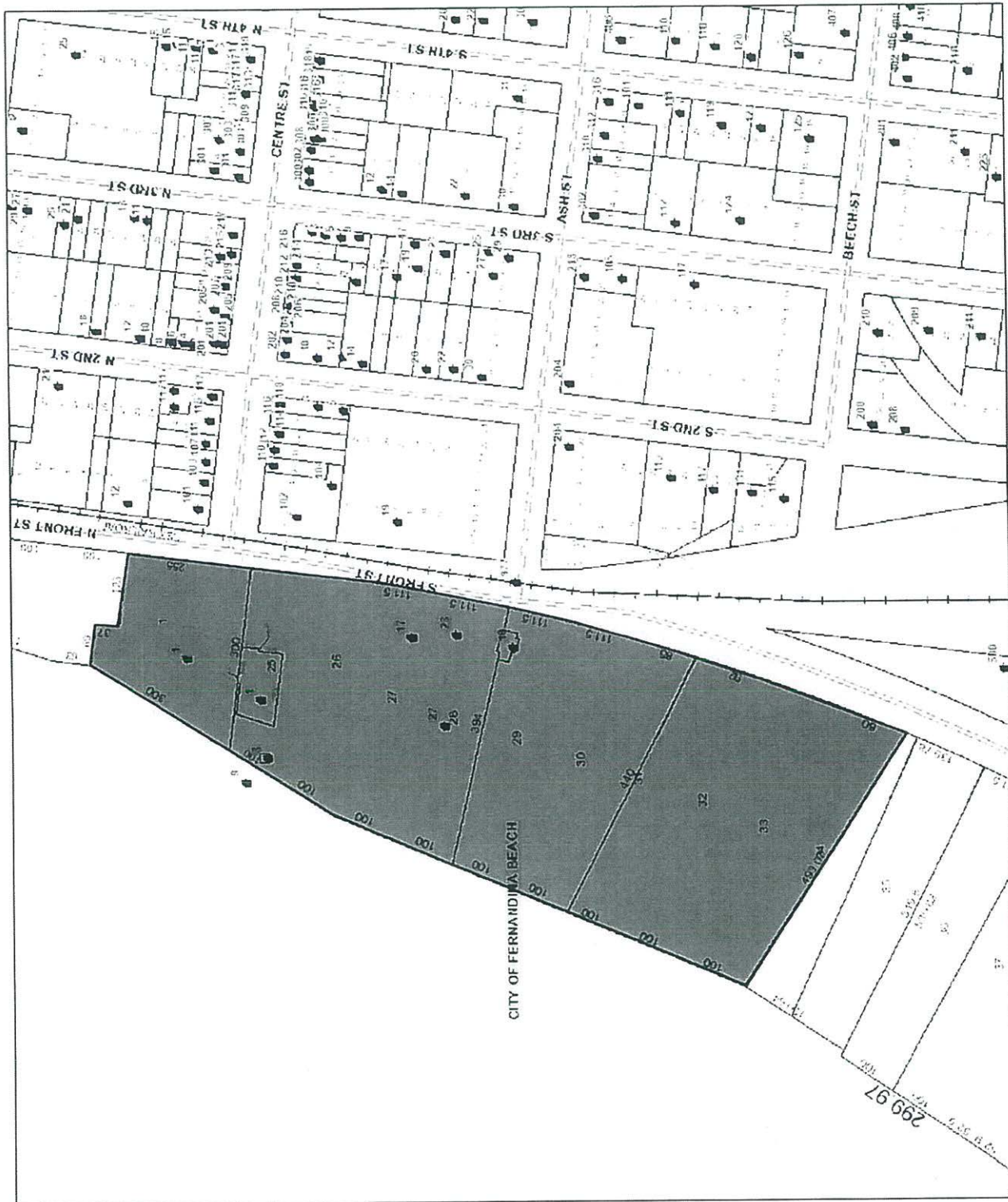
# Nassau County

4/1/2011





PROJECT BOUNDARY MAP



*Fernandina Harbor Marina*  
(Nassau County Property Appraiser)

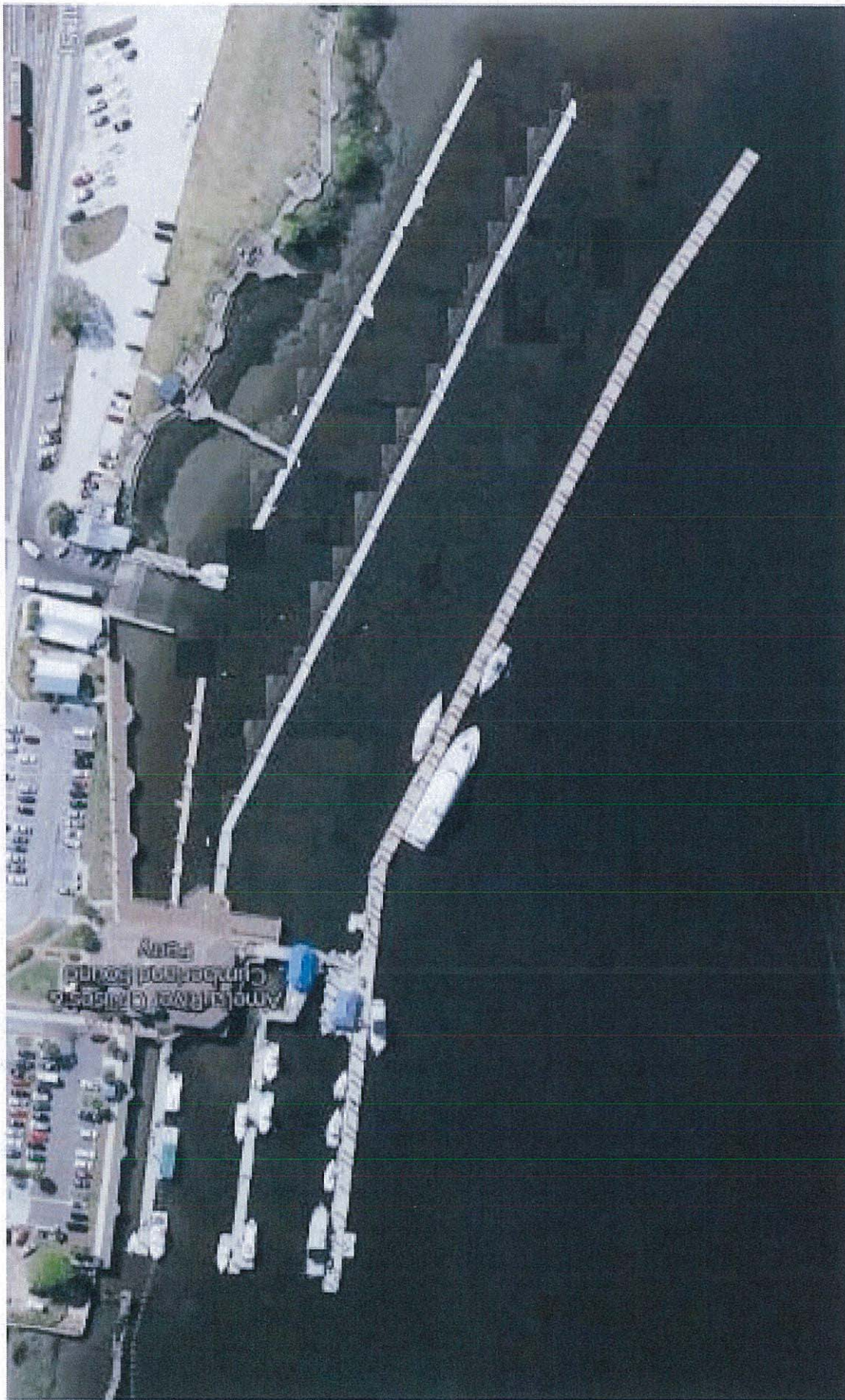


CURRENT ALIGNMENT OF SOUTHERN DOCKS





Proposed North/South Configuration





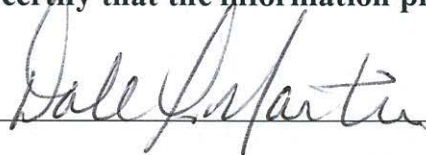
## ATTACHMENT E-2

**WATERWAYS ASSISTANCE PROGRAM FY 2017  
PROJECT APPLICATION  
APPLICANT INFORMATION – PROJECT SUMMARY**

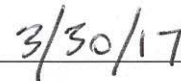
<b>APPLICANT INFORMATION</b>			
<b>Applicant:</b>	City of Fernandina Beach		
<b>Department:</b>	Marina		
<b>Project Title:</b>	Mooring Field Capacity Increase Phase II		
<b>Project Director:</b>	Joe Springer	<b>Title:</b>	Marina Manager
<b>Project Liaison:</b> <i>(if different from Project Director)</i>	Dale Martin	<b>Title:</b>	City Manager
<b>Mailing Address:</b>	204 Ash Street		
<b>City:</b>	Fernandina Beach	<b>Zip Code:</b>	32034
<b>Email Address:</b>	dmartin@fbfl.org	<b>Phone #:</b>	904-310-3100
<b>Project Address:</b>	23 S. Front Street – Fernandina Beach, FL 32034		

\*\*\*\*\* I hereby certify that the information provided in this application is true and accurate.\*\*\*\*\*

SIGNATURE: \_\_\_\_\_



DATE: \_\_\_\_\_



**PROJECT NARRATIVE** (Please summarize the project in space provided below in 2 paragraphs or less.)

The City of Fernandina Beach utilized FIND funding assistance to complete Phases I(a) and I(b). The end result of this project is to increase the number of mooring devices from between 20 to 99 in the Managed Mooring Field

Phase II of this project entails the purchase and installation of mooring balls and the purchase and installation of parameter buoys.

## ATTACHMENT E-3 - PROJECT INFORMATION 2017

<b>Applicant:</b>	City of Fernandina Beach		<b>Project Title:</b>	Mooring Field Capacity Increase Phase II	
<b>Total Project Cost: \$</b>	300,000	<b>FIND Funding Requested: \$</b>	150,000	<b>% of Total Cost:</b>	50%
<b>Amount and Source of Applicant's Matching Funds:</b>	<p>\$150,000.</p> <p>The City of Fernandina Beach will provide \$150,000 of funding from the local property tax revenue to match with a request of \$150,000 in funding from FIND.</p>				

1. Ownership of Project Site (check one): Own: ☒ Leased: ☐ Other: ☐

2. If leased or other, please describe lease or terms and conditions:

3. Has the District previously provided assistance funding to this project or site? Yes: ☒ No: ☐

4. If yes, please list: (1) 2005: Mooring Field Phase I; (2) 2005: Riverfront Boardwalk; (3) 2006 Mooring Field Phase II; (4) 2006 Docks E, F & G Rehabilitation Phase I; (5) 2007 Docks E, F & G Rehabilitation Phase II; (6) 2008 Dock E, F & G Rehabilitation Phase II-B; (7) 2011 Dredging Marina Basin Phase A; (8) 2012 Dredging Marina Basin Phase B; (9) (2014) Enhancements and Improvements to the Marina's Breakwater Dock; (10) 2014 Mooring Field Expansion Phase I (a); (11) 2015 Dock 6 Fire Line Replacement; (12) 2015 Breakwater Dock Improvements and Safety Enhancements; (13) 2015 Mooring Field Expansion Phase I (b)

5. What is the current level of public access in terms of the number of boat ramps, boat slips and trailer parking spaces, linear feet of boardwalk (etc.)? (as applicable): Existing Managed Mooring Field consisting of 20 mooring balls, One three lane boat ramp, 120 boat slips, which 72 are innerdocking slips, 12 vehicle and trailer parking locations and additional acreage for temporary boat trailer parking

6. How many additional ramps, slips, parking spaces or other access features will be added by this project? Less than 79 Additional mooring devices

7. Are fees charged for the use of this project? No ☐ Yes ☒

\*\*\* If yes, please attach additional documentation of fees and how they compare with fees from similar public & private facilities in the area.

Please list all Environmental Resource Permits required for this project:

AGENCY	Yes / No / N/A	Date Applied For	Date Received
WMD	No	Click here to enter text.	Click here to enter text.
DEP	Yes-SAJ-1997-02063 SP	1/20/2011	1/20/2011
ACOE	Yes-45-75835-099 EE	01/20/2011	1/20/2011
COUNTY / CITY	N/A	Click here to enter text.	Click here to enter text.



## ATTACHMENT E-4

WATERWAYS ASSISTANCE PROGRAM  
APPLICATION AND EVALUATION WORKSHEET

**STEP 1:** All applicants will complete Attachment E-4 of the worksheet, which includes questions 1 through 6. **\*\*Do not answer with more than four sentences.\*\***

**STEP 2:** Complete **one and only one sub-Attachment** (E-4 A, B, C, D or E, questions 7-10) according to the applicant's project type.

All other sub-attachments that are not applicable to an applicant's project should not be included in the submitted application.

<b>Project Title:</b>	Mooring Field Capacity Increase Phase II
<b>Applicant:</b>	City of Fernandina Beach

---

**1) PRIORITY LIST:**

- a) **Denote the priority list category of this project from Attachment C in the application.** (The application may only be of **one** type based upon the predominant cost of the project elements.)

Priority #8 – Acquisition, dredging, shoreline stabilization and development of public boat ramps and **mooring facilities**

- b) **Explain how the project fits this priority category.**

The project develops the existing mooring field from 20 mooring devices to a number less than 99 mooring devices.

*(For reviewer only)*

Max. Available Score for application 47

Question 1. Range of Score (1 to 5 points)

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**2) WATERWAY RELATIONSHIP:**

- a) Explain how the project directly relates to the ICW and the mission of the Navigation District.**

The project fits with the mission of the Navigation District as it would be a waterway improvement program that will enable an increased number of boaters entering the ICW access to safe and secure mooring balls that can accommodate vessels averaging 35 feet and with a draft of 4 ½ feet.

- b) What public access or navigational benefit to the ICW or adjoining waterway will result from this project?**

As the number of boaters and boaters that prefer the efficiency of utilizing Managed Mooring Fields is increasing, we need to have a known product to provide safe and secure mooring for both local and transient boaters. This project will insure these boaters are able to achieve that requirement in and on the Amelia River and while they enjoy the travel to the ICW.

*(For reviewer only)*  
*(1-6 points)*

---

**3) PUBLIC USAGE & BENEFITS:**

- a) How is the public usage of this project clearly identified and quantified? Estimate the amount of total public use.**

In fiscal year 2014/2015, and again in fiscal year 2015/2016, an increase in usage of approximately 9% to 12% each year. The number of stays on the mooring nights has gone from 2500 nights to 2800 nights.

- b) Discuss the regional and local public benefits that will be provided by the project. Can residents from other counties of the District reasonably access and use the project? Explain.**

The regional and local public benefits include: increased number of boat slips available to transient boaters; boat ramp able to launch larger boats; and Marina able to accommodate events such as fishing contests. As the first Marina in Florida available to boaters coming from the north, the Fernandina Harbor Marina must maintain a good reputation as a desirable and reliable stop for transient boaters. All of the above will be a boon to the local economy that relies on the tourism industry as its primary source for jobs and revenue.

YES - Boaters from the surrounding counties including Duval, St. Johns and Flagler are within a few hours sail from the Fernandina Harbor Marina. The boaters coming in from both the North and the South will be able to stay over to rest, replenish and enjoy the local area.

- c) Are there any restrictions placed on commercial access or use of this site?**

Per our Manage Mooring documents, no commercial activities may take place in the managed area.

*(For reviewer only)*  
*(1-8 points)*

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#### 4) TIMELINESS

- a) **Describe current status of the project and present a reasonable and effective timeline for the completion of the project consistent with Attachment E-6.**

The current state of the managed mooring field includes a total of twenty(20) 24" mooring balls tethered with chain to helical anchors imbedded in the river bottom. If approved and funded, bid documents will be prepared in September 2017. The bidding process will be conducted in October/November 2017. Vendor(s) will be selected in November 2017. Contract execution will take place with the Vendors and the City of Fernandina Beach in December/January 2017-2018. Construction and installation will start in January/February 2018 and will be completed by April/May 2018. Reporting and paperwork will be submitted to FIND for reimbursement in July/August 2018.

- b) **Briefly explain any unique aspects of this project that could influence the project timeline.**

Weather conditions might create temporary delays but there appears to be no other aspects that could influence the project timeline.

*(For reviewer only)*  
*(1-3 points)*

---

#### 5) COSTS & EFFICIENCY:

- a) **List funding sources and the status and amount of the corresponding funding that will be utilized to complete this project.**

The City of Fernandina Beach will provide \$150,000 of funding from the local property tax revenue to match with a request of \$150,000 in funding from FIND.

- b) **Identify and describe any project costs that may be increased because of the materials utilized or specific site conditions.**

No known material or site conditions should alter Phase II of this project.

- c) **Describe any methods to be utilized to increase the cost efficiency of this project.**

The City of Fernandina Beach will have all helical anchors installed at one time and, then install the actual mooring devices following a scheduled roll out calendar

- d) **If there are any fees associated with the use of this facility, please detail. In addition, please provide a listing of the fees charged by similar facilities, public and private, in the project area.**

N/A – nearest mooring field is approximately 75 miles away in St. Augustine.

*(For reviewer only)*  
*(1-6 points)*

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**6) PROJECT VIABILITY:**

- a) **What specific need in the community does this project fill? Is this project referenced or incorporated in an existing maritime management, public assess or comp plan?**

The siltation taking place at Fernandina Harbor Marina is causing the local and transient boaters reduced access to deep water viable slips. By having an alternative to constant dredging being considered and tested, we hope to provide deep water mooring for the boats that visit the area.

- b) **Clearly demonstrate how the project will continue to be maintained and funded after District funding is completed.**

The City of Fernandina Beach will maintain the existing mooring field with all proceeds going into the maintenance of the managed mooring field.

- c) **Will the program result in significant and lasting benefits? Explain.**

With the successful outcome of this phase, the long term benefits will be the ability to moor boats in naturally deep water areas, particularly transient vessels that require 4 ½' draft. The number of vessels requesting mooring balls is increasing every year. By having additional mooring balls available, we will be able to not only use them for daily first come first served but also for special events and advanced reservation.

- d) **Please describe any environmental benefits associated with this project.**

By increasing the number of mooring balls, we will be able to offer the option of having boats stay in the managed mooring field instead of just dropping anchor in areas not identified as proper locations for anchorage.

*(For reviewer only)*  
*(1-7 points)*

SUB-TOTAL \_\_\_\_\_

FIND FORM NO. 91-25

Rule 66B-2.005 (Effective Date: 3-21-01, Revised 4-24-06, 1-27-14)



**ATTACHMENT E-4A  
DEVELOPMENT & CONSTRUCTION PROJECTS  
WATERWAYS ASSISTANCE PROGRAM  
APPLICATION AND EVALUATION WORKSHEET**

THIS ATTACHMENT IS TO BE COMPLETED IF YOUR PROJECT IS A  
DEVELOPMENT OR CONSTRUCTION PROJECT BUT IS NOT AN INLET  
MANAGEMENT OR BEACH RENOURISHMENT PROJECT.

---

**7) PERMITTING:**

- a) **Have all required environmental permits been applied for? If permits are NOT required, explain why not.**  
Required permits were applied for prior to Sept 30<sup>th</sup>, 2016. Applied Technologies and Management has completed the preliminary work for the State of Florida General Permit for Mooring Fields. The City of Fernandina Beach is waiting for the approval of the Florida GP.
- b) **If the project is a Phase I project, list the tasks scheduled to obtain the necessary permits and engineering work. Please provide a general cost estimate for the future Phase II work.**  
This is a Phase II project.
- c) **Detail any significant impediments that may have been identified that would potentially delay the timely issuance of the required permits.**  
No impediments have been identified

*(For reviewer only)  
(1-4 points)*

---

**8) PROJECT DESIGN:**

- a) **Has the design work been completed? If this is a Phase I project, has a preliminary design been developed?**

No, Phase I(b) addresses the specific design work for this project.

- b) Are there unique beneficial aspects to the proposed design that enhance public usage or access, minimize environmental impacts, improve water quality or reduce costs?**

With the addition of up to 79 mooring devices, transient and local boaters will have a safe and secure location to moor their vessels and not rely on their ability to properly drop anchor. By identifying the Managed Mooring Field, the questions associated with “riding the hook” are eliminated.

*(For reviewer only)*  
*(1-2 points)*

---

## **9) CONSTRUCTION TECHNIQUES:**

- a) Briefly explain the construction techniques to be utilized for this project. If a Phase 1, elaborate on potential techniques.**

Standard and accepted marine construction practices will be utilized to install helical type devices to the river bottom. These devices will then have the tethered mooring devices attached that are identified in Phase 1(b).

- b) How are the utilized construction techniques appropriate for the project site?**

The same techniques that were used to install the original 20 mooring devices will be used again taking any improvements, such as elastic rode to replace the chain, into consideration for Phase II of this project.

- c) Identify any unusual construction techniques that may increase or decrease the costs of the project.**

No unusual construction techniques have been identified.

*(For reviewer only)*  
*(1-3 points)*

---

**10) CONSTRUCTION MATERIALS:**

- a) **List the materials to be utilized for this project. What is the design life of the proposed materials compared to other available materials?**

Helical anchors, poly tethering ropes, standard mooring device, stainless and galvanized metal products should add up to a usable life time greater than twenty years.

- b) **Identify any unique construction materials that may significantly alter the project costs.**

No unique construction materials have been identified.

*(For reviewer only)*  
*(1-3 points)*

**RATING POINT  
 TOTAL** \_\_\_\_\_

(Note: The total maximum score possible is dependent upon the project priority category but cannot exceed 50 points unless the project qualifies as an emergency-related project. The minimum score possible is 10 points. A score of 35 points or more is required to be considered for funding.)

Form No. 91-25A

Rule 66B-2.005 (Effective Date: 3-21-01, revised 4-24-06, 1-27-14)



## ATTACHMENT E-5

FLORIDA INLAND NAVIGATION DISTRICT  
ASSISTANCE PROGRAM 2017

## PROJECT COST ESTIMATE

(See Rule Section 66B-2.005 & 2.008 for eligibility and funding ratios)

<b>Project Title:</b>	Mooring Field Expansion Phase II
<b>Applicant:</b>	City of Fernandina Beach

<b>Project Elements</b> <i>(Please list the MAJOR project elements and provide general costs for each one. For Phase I Projects, please list the major elements and products expected)</i>	<b>Quantity or Total Estimated Cost</b> <i>(Number and/or Footage etc.)</i>	<b>Applicant's Cost</b>	<b>FIND Cost</b>
Mobilization	12,500.00	6,250.00	6,250.00
79 Helix Style Anchors	76,250.00	38,125.00	38,125.00
Installation of Helical Style Anchors (with extensions where needed)	54,726.00	27,363.00	27,363.00
Helix Technician (4 days on site + travel and per diem)	9,200.00	4,600.00	4,600.00
99 Mooring Devices	29,924.00	14,962.00	14,962.00
Attaching Hardware and Lines	59,300.00	29,650.00	29,650.00
Installation of 99 Mooring Devices	22,600.00	11,300.00	11,300.00
15 Additonal Permieter Buoys	9,500.00	4,750.00	4,750.00
Installation of additional Perimeter Buoys	5,000.00	2,500.00	2,500.00
Testing and Turnover	21,000.00	10,500.00	10,500.00

<b>**TOTALS =</b>	<b>\$ 300,000.00</b>	<b>\$ 150,000.00</b>	<b>\$ 150,000.00</b>
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## ATTACHMENT E-6 WATERWAYS ASSISTANCE PROGRAM 2017

### PROJECT TIMELINE

<b>Project Title:</b>	Mooring Field Capacity Increase Phase II
<b>Applicant:</b>	City of Fernandina Beach

The applicant is to present a detailed timeline on the accomplishment of the components of the proposed project including, as applicable, completion dates for: permitting, design, bidding, applicant approvals, initiation of construction and completion of construction.

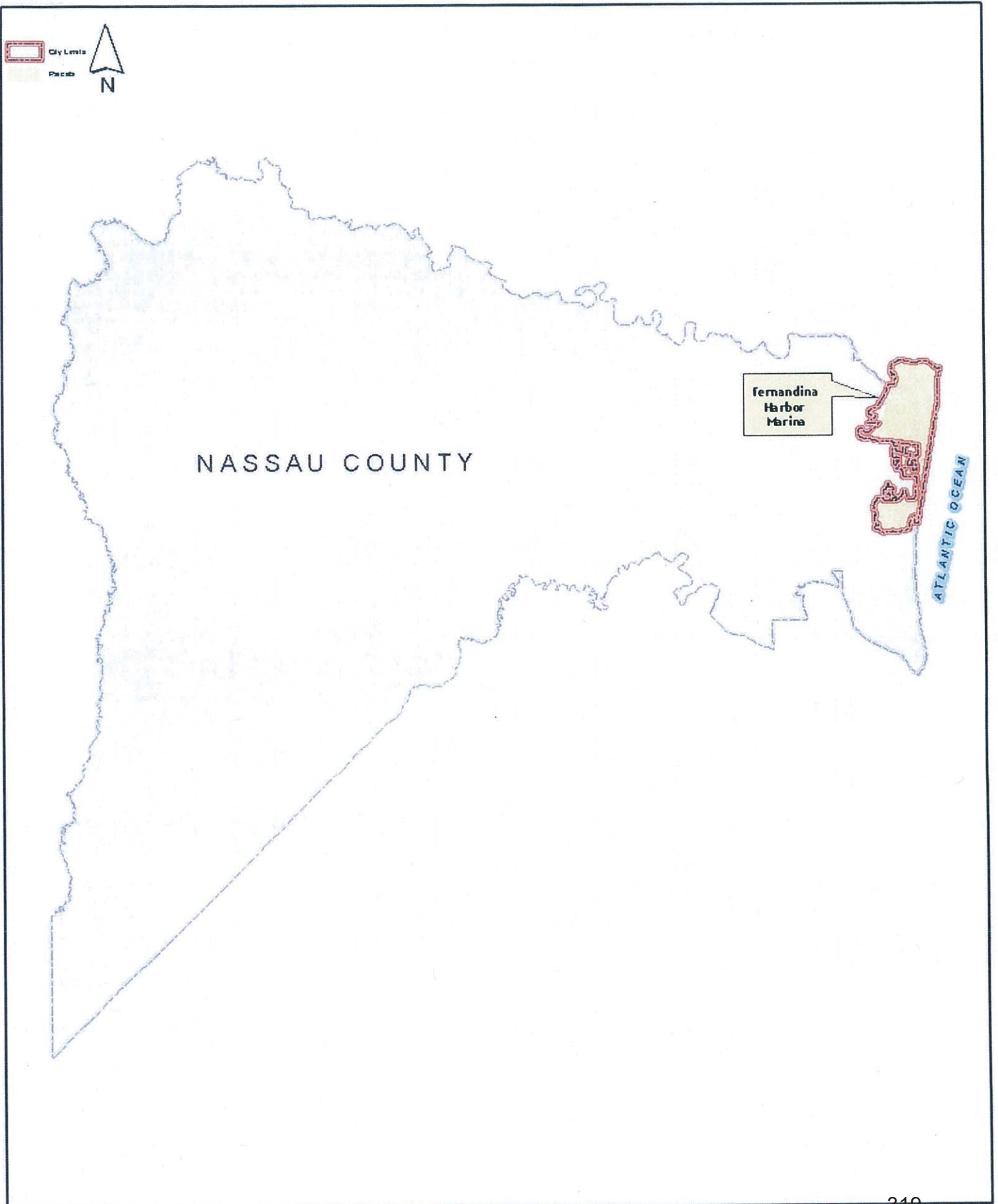
**NOTE: All funded activities must begin AFTER October 1<sup>st</sup>**  
(or be consistent with Rule 66B-2.005(3) - Pre-agreement expenses)

	< - 2 0 1 7 -       -       -       -       -       2 0 1 8 - >											
PROJECT TASK	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug
Prepare Bid Documents												
Solicit & Open Bids												
Bid Analysis & Selection of Vendor(s)												
Contract Execution w/City												
Installation												
Submit Costs Documentation to FIND for Reimbursement												



# Nassau County

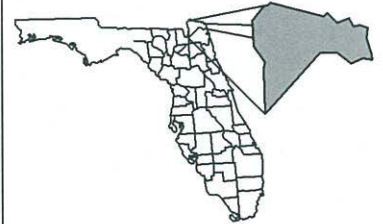
4/1/2011





**FERNANDINA HARBOR MARINA  
MOORING FIELD**  
3 SOUTH FRONT STREET  
FERNANDINA BEACH, FLORIDA 32034

**NASSAU COUNTY, FL**



**SHEET INDEX:**

1. COVER SHEET & LOCATION MAP
2. EXISTING CONDITIONS
3. PLAN VIEW
4. BOUNDARIES
5. STATION DETAILS
6. TYPICAL ANCHOR DETAILS

BENCHMARK TIDE STATION NUMBER:  
872-0030

TIDAL DATUM	ELEVATION (MLLW)
MHHW	6.56
MHW	6.21
NAVD88	3.83
MLW	0.19
MLLW	0

**NOTES:**

1. IMAGE WAS DOWNLOADED FROM LABINS.ORG WEBSITE.
2. ELEVATIONS REFERENCE MEAN LOWER LOW WATER (MLLW).
3. CONVERT MLLW TO NAVD88 BY SUBTRACTING 3.83'.



2201 NW 40th Terrace  
Gainesville, FL 32605  
(386) 256-1477

**Cover Sheet  
& Location Map**

Fernandina Harbor Marina - Mooring Field  
3 South Front St., Fernandina Beach, Florida 32034

**REVISIONS**

JOB NO: 15-2864

CHECKED BY: RS

DATE: 10/04/2016

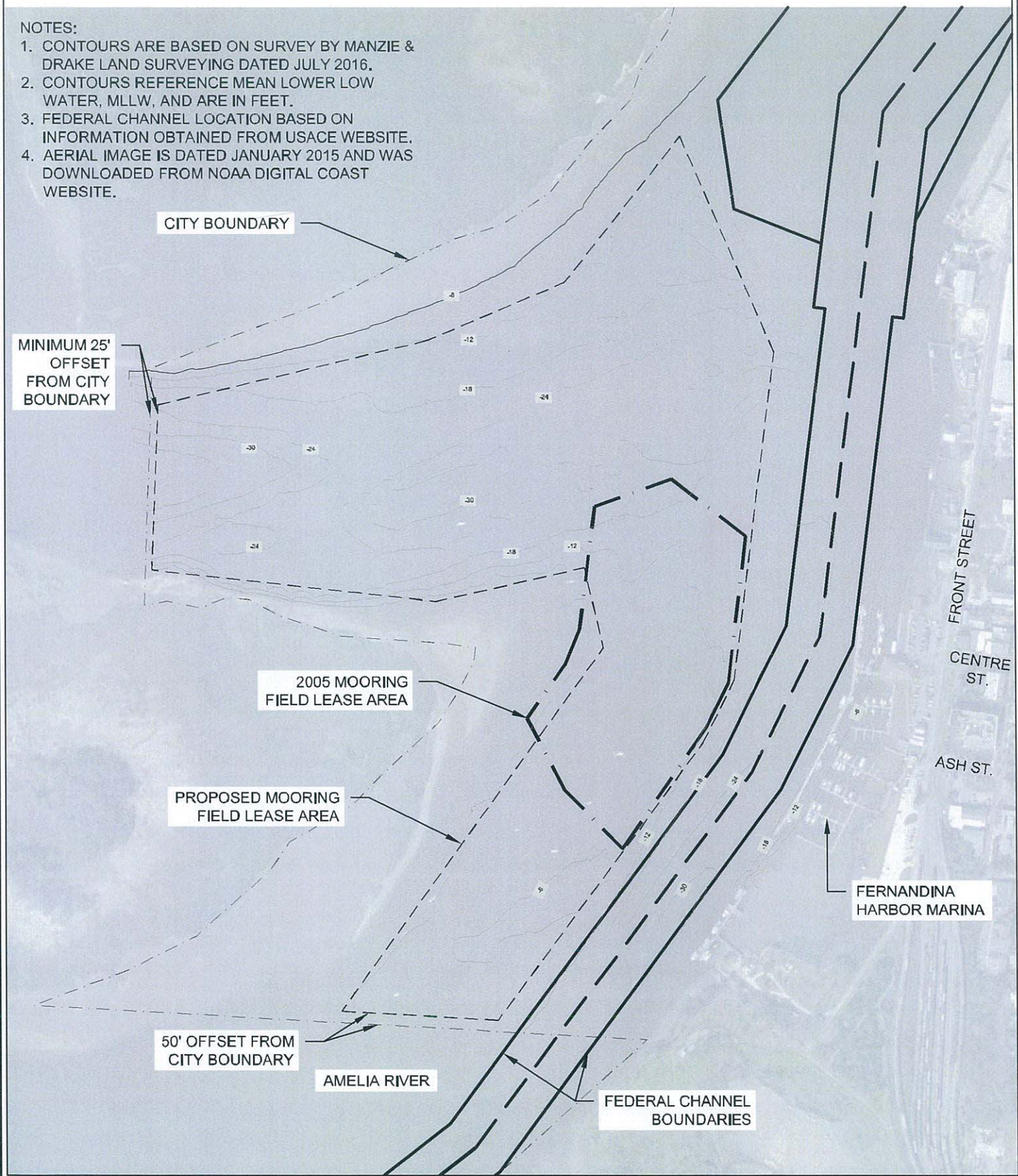
DRAWN BY: MM

SCALE: Shown 320 SHEET: 1



NOTES:

1. CONTOURS ARE BASED ON SURVEY BY MANZIE & DRAKE LAND SURVEYING DATED JULY 2016.
2. CONTOURS REFERENCE MEAN LOWER LOW WATER, MLLW, AND ARE IN FEET.
3. FEDERAL CHANNEL LOCATION BASED ON INFORMATION OBTAINED FROM USACE WEBSITE.
4. AERIAL IMAGE IS DATED JANUARY 2015 AND WAS DOWNLOADED FROM NOAA DIGITAL COAST WEBSITE.



2201 NW 40th Terrace  
Gainesville, FL 32605  
(386) 256-1477  
Certificate of Accreditation #1000

Mooring Field  
Existing Conditions

Fernandina Harbor Marina - Mooring Field  
3 South Front St., Fernandina Beach, Florida 32034

REVISIONS


JOB NO: 15-2864

CHECKED BY: RS

DATE: 10/04/2016

DRAWN BY: MM

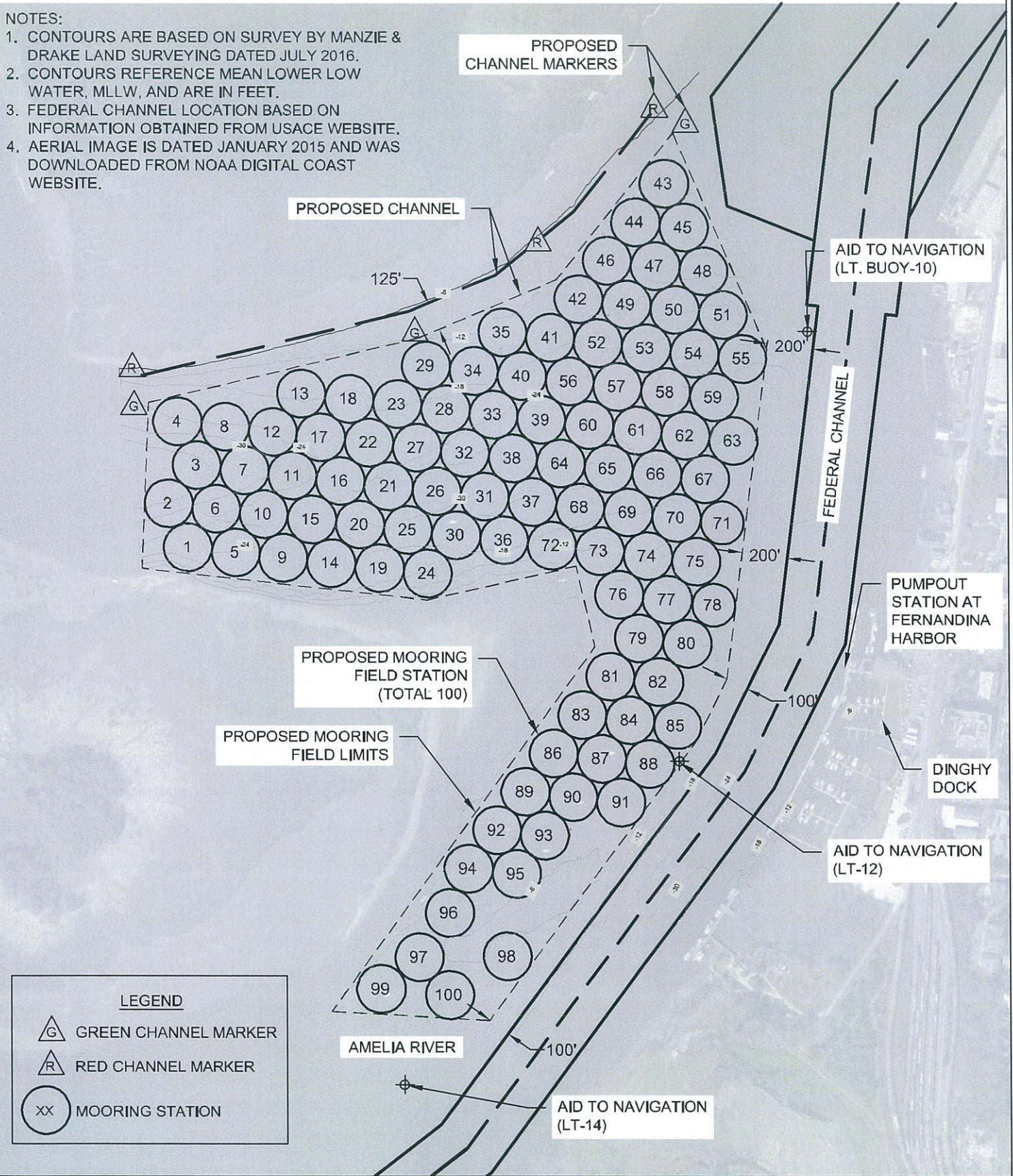
SCALE: Shown

324 SHEET: 2



NOTES:

1. CONTOURS ARE BASED ON SURVEY BY MANZIE & DRAKE LAND SURVEYING DATED JULY 2016.
2. CONTOURS REFERENCE MEAN LOWER LOW WATER, MLLW, AND ARE IN FEET.
3. FEDERAL CHANNEL LOCATION BASED ON INFORMATION OBTAINED FROM USACE WEBSITE.
4. AERIAL IMAGE IS DATED JANUARY 2015 AND WAS DOWNLOADED FROM NOAA DIGITAL COAST WEBSITE.





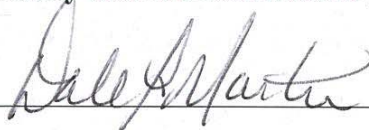
## ATTACHMENT E-2

**WATERWAYS ASSISTANCE PROGRAM FY 2017  
PROJECT APPLICATION  
APPLICANT INFORMATION – PROJECT SUMMARY**

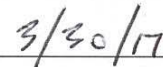
<b>APPLICANT INFORMATION</b>			
<b>Applicant:</b>	City of Fernandina Beach		
<b>Department:</b>	Marina		
<b>Project Title:</b>	Marina Basin Maintenance Dredging Phase II		
<b>Project Director:</b>	Joe Springer	<b>Title:</b>	Marina Manager
<b>Project Liaison:</b> <i>(if different from Project Director)</i>	Dale L. Martin	<b>Title:</b>	City Manager
<b>Mailing Address:</b>	204 Ash Street		
<b>City:</b>	Fernandina Beach	<b>Zip Code:</b>	32034
<b>Email Address:</b>	dmartin@fbfl.org	<b>Phone #:</b>	904-310-3100
<b>Project Address:</b>	3 S. Front Street – Fernandina Beach, FL 32034		

\*\*\*\*\* I hereby certify that the information provided in this application is true and accurate.\*\*\*\*\*

SIGNATURE: \_\_\_\_\_



DATE: \_\_\_\_\_



**PROJECT NARRATIVE** (Please summarize the project in space provided below in 2 paragraphs or less.)

Although plans are being put in place to minimize the dredging requirements the Fernandina Harbor Marina, additional dredging is required to keep dockage available for transient and local boaters.

The project consists of providing for a pre-dredge and post-dredge bathymetric study of the dredge area, mechanical dredging from the south end of the breakwater, and the disposal of approximately 10,000 cubic yards of material.

## ATTACHMENT E-3 - PROJECT INFORMATION 2017

<b>Applicant:</b>	City of Fernandina Beach		<b>Project Title:</b>	Marina Basin Maintenance Dredging Phase II	
<b>Total Project Cost: \$</b>	303,300	<b>FIND Funding Requested: \$</b>	151,650	<b>% of Total Cost:</b>	50%
<b>Amount and Source of Applicant's Matching Funds:</b>	<p>\$151,650.</p> <p>The City of Fernandina Beach will provide \$151,650 of funding from the local property tax revenue to match with a request of \$151,650 in funding from FIND.</p>				

**1. Ownership of Project Site (check one):** Own: ☒ Leased: ☐ Other: ☐

**2. If leased or other, please describe lease or terms and conditions:**

**3. Has the District previously provided assistance funding to this project or site?** Yes: ☒ No: ☐

**4. If yes, please list:** (1) 2005: Mooring Field Phase I; (2) 2005: Riverfront Boardwalk; (3) 2006 Mooring Field Phase II; (4) 2006 Docks E, F & G Rehabilitation Phase I; (5) 2007 Docks E, F & G Rehabilitation Phase II; (6) 2008 Docks E, F & G Rehabilitation Phase II-B; (7) 2011 Dredging Marina Basin Phase A; (8) 2012 Dredging Marina Basin Phase B; (9) 2014 Enhancements and Improvements to the Marina's Breakwater Dock; (10) 2014 Mooring Field Expansion Phase I (a); (11) 2015 Dock 6 Fire Line Replacement; (12) 2015 Breakwater Dock Improvements and Safety Enhancements, Phase II; (13) 2015 Mooring Field Expansion Phase I (b); (14) 2016 Marina Basin Dredging; (15) 2016 Southern Basin Realignment

**5. What is the current level of public access in terms of the number of boat ramps, boat slips and trailer parking spaces, linear feet of boardwalk (etc.)?** (as applicable): Existing Managed Mooring Field consisting of mooring balls; one three-lane boat ramp; 120 boat slips including 72 innerdocking slips; 12 vehicle and trailer parking locations and an additional acre for temporary boat trailer parking

**6. How many additional ramps, slips, parking spaces or other access features will be added by this project?** None, this project will make access to the existing inventory available.

**7. Are fees charged for the use of this project?** No ☐ Yes ☒

\*\*\*If yes, please attach additional documentation of fees and how they compare with fees from similar public & private facilities in the area.

**Please list all Environmental Resource Permits required for this project:**

AGENCY	Yes / No / N/A	Date Applied For	Date Received
WMD	No	Click here to enter text.	Click here to enter text
DEP	Yes-SAJ-1997-02063 SP	1/20/2011	1/20/2011
ACOE	Yes-45-75835-099 EE	01/20/2011	1/20/2011
COUNTY / CITY	N/A	Click here to enter text.	Click here to enter text



## ATTACHMENT E-4

**WATERWAYS ASSISTANCE PROGRAM  
APPLICATION AND EVALUATION WORKSHEET**

**DIRECTIONS:** All applicants will complete questions 1 through 6, and then based on the type of project, complete one and only one subsection (E-4A, B, C, D or E) for questions 7-10.

**\*\*Please keep your answers brief and do not change the pagination of Attachment E-4\*\***

All other sub-attachments that are not applicable to an applicant's project should not be included in the submitted application.

<b>Project Title:</b>	Marina Basin Maintenance Dredging Phase II
<b>Applicant:</b>	City of Fernandina Beach

---

**1) PRIORITY LIST:**

- a) Denote the priority list category of this project from Attachment C in the application.** (The application may only be of **one** type based upon the predominant cost of the project elements.)

Priority #8 – Acquisition, dredging, shoreline stabilization and development of public boat docking and mooring facilities.

- b) Explain how the project fits this priority category.**

The project involves dredging a public marina, particularly concentrating on removing silt from around the areas used by transient boaters.

(For reviewer only)  
Max. Available Score for application      47

Question 1. Range of Score    (1 to 5 points)

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## 2) WATERWAY RELATIONSHIP:

- a) **Explain how the project directly relates to the ICW and the mission of the Navigation District.**

The project fits with the mission of the Navigation District as it would be a waterway improvement program that will enable an increased number of boaters entering the ICW to access and use boat slips that can accommodate vessels averaging 35 feet and with a draft of 41/2 feet.

- b) **What public access or navigational benefit to the ICW or adjoining waterway will result from this project?**

Dredging of the Marina basin will include the existing public boat ramp and the boat slips. This will allow more boaters to use the boat ramp to access the ICW and adjoining waterways. At the same time, more boaters, including transient and local boaters, will be able to enter the Marina from the ICW to use the public boat ramp and Marina slips.

*(For reviewer only)*  
*(1-6 points)*

---

## 3) PUBLIC USAGE & BENEFITS:

- a) **How is the public usage of this project clearly identified and quantified? Estimate the amount of total public use.**

In the preceding four fiscal years, an increase in usage of approximately 9% - 12% occurred each fiscal year. Our records for previous fiscal years indicate a decrease in nightly dockage due to the siltation. This siltation is filling our slips and causing a lack of slips to place boats in. In addition, local boater that use the day docks for short term dockage are not able to do so as the area these boats use are also silting in.

- b) **Discuss the regional and local public benefits that will be provided by the project. Can residents from other counties of the District reasonably access and use the project? Explain.**

The regional and local public benefits include: increased number of boat slips available to transient boaters; boat ramp able to launch larger boats; and Marina able to accommodate events such as fishing contests. As the first Marina in Florida available to boaters coming from the north, the Fernandina Harbor Marina must maintain a good reputation as a desirable and reliable stop for transient boaters. All of the above will be a boon to the local economy that relies on the tourism industry as its primary source for jobs and revenue.

YES - Boaters from the surrounding counties including Duval, St. Johns and Flagler are within a few hours sail from the Fernandina Harbor Marina. The boaters coming in from both the North and the South will be able to stay over to rest, replenish and enjoy the local area.

- c) **Are there any restrictions placed on commercial access or use of this site?**  
 No

*(For reviewer only)*  
*(1-8 points)*

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#### 4) TIMELINESS

- a) **Describe current status of the project and present a reasonable and effective timeline for the completion of the project consistent with Attachment E-6.**

If approved and funded, bid documents will be prepared in September 2017. The bidding process will be conducted in October/November 2017. Vendor(s) will be selected in November 2017. Contract execution will take place with the vendor (s) and the City of Fernandina Beach in December 2017. This project will start in December 2017/January 2018 and will be completed by April 2018.

- b) **Briefly explain any unique aspects of this project that could influence the project timeline.**

Weather conditions might create temporary delays in the dredging but there appear to be no other aspects that could influence the project timeline.

*(For reviewer only)*  
*(1-3 points)*

---

#### 5) COSTS & EFFICIENCY:

- a) **List funding sources and the status and amount of the corresponding funding that will be utilized to complete this project.**

The City of Fernandina Beach will provide \$151,650 of funding from the local property tax revenue to match with a request of \$151,650 in funding from FIND.

- b) **Identify and describe any project costs that may be increased because of the materials utilized or specific site conditions.**

No known material or site conditions should alter this project.

- c) **Describe any methods to be utilized to increase the cost efficiency of this project.**

N/A

- d) **If there are any fees associated with the use of this facility, please detail. In addition, please provide a listing of the fees charged by similar facilities, public and private, in the project area.**

N/A

*(For reviewer only)*  
*(1-6 points)*

---



**6) PROJECT VIABILITY:**

- a) What specific need in the community does this project fill? Is this project referenced or incorporated in an existing maritime management, public assess or comp plan?**

The siltation taking place at Fernandina Harbor Marina is causing the local and transient boaters reduced access to deep water viable slips. This project will allow transient vessels access to the inner marina docking areas within the protected breakwater. These docks are currently unusable for boats with a draft of more than 41/2 feet due to this excessive siltation, which renders the interior slips inaccessible during low tide. During the past year, the Marina has had to turn away numerous transient boaters due to the siltation problem. At the same time, siltation around the public boat ramp prevents boaters with larger trailerable vessels and deeper drafts from being able to launch here.

- b) Clearly demonstrate how the project will continue to be maintained and funded after District funding is completed.**

The City has consulted with a marine engineering firm to assess alternative dredging technologies to determine if the marina configuration should be changed for the Southern Basin. If that area is reconfigured, the need for dredging should be diminished.

- c) Will the program result in significant and lasting benefits? Explain.**

By dredging the Marina in 2017 and 2018, the City will be able to operate the Marina at full capacity and make available public docking slips to all boats, particularly transient vessels that require a 41/2' draft. An increase in visitors will help the local economy, as well.

- d) Please describe any environmental benefits associated with this project.**

By increasing the number of available slips, we will be able to offer dockage in the marina instead of boaters just "dropping anchor" in areas not identified as proper locations for anchorage.

*(For reviewer only)*  
*(1-7 points)*

SUB-TOTAL \_\_\_\_\_

FIND FORM NO. 91-25

Rule 66B-2.005 (Effective Date: 3-21-01, Revised 4-24-06, 1-27-14)



**ATTACHMENT E-4A  
DEVELOPMENT & CONSTRUCTION PROJECTS**

**WATERWAYS ASSISTANCE PROGRAM  
APPLICATION AND EVALUATION WORKSHEET**

THIS ATTACHMENT IS TO BE COMPLETED IF YOUR PROJECT IS A  
DEVELOPMENT OR CONSTRUCTION PROJECT BUT IS NOT AN INLET  
MANAGEMENT OR BEACH RENOURISHMENT PROJECT.

---

**7) PERMITTING:**

- a) **Have all required environmental permits been applied for? If permits are NOT required, explain why not.**

Yes

- b) **If the project is a Phase I project, list the tasks scheduled to obtain the necessary permits and engineering work. Please provide a general cost estimate for the future Phase II work.**

N/A

- c) **Detail any significant impediments that may have been identified that would potentially delay the timely issuance of the required permits.**

No significant impediments have been identified.

*(For reviewer only)  
(1-4 points)*

---

**8) PROJECT DESIGN:**

- a) **Has the design work been completed? If this is a Phase I project, has a preliminary design been developed?**

Yes

- b) **Are there unique beneficial aspects to the proposed design that enhance public usage or access, minimize environmental impacts, improve water quality or reduce costs?**

Dredging the marina basin will enhance the public usage and access to the boat slips, boat ramp and the local waterways.

*(For reviewer only)*  
*(1-2 points)*

---

**9) CONSTRUCTION TECHNIQUES:**

- a) **Briefly explain the construction techniques to be utilized for this project. If a Phase 1, elaborate on potential techniques.**

Dredging will be performed by either hydraulic dredge, mechanical removal by clamshell or track hoe excavator or a combination of methods. Dredge material will be disposed of either on City owned property or at a FIND MSDA.

- b) **How are the utilized construction techniques appropriate for the project site?**

Such dredge methods have been previously permitted and successfully used at this location. Such precise position control of the dredge will not be necessary since all dredging occurs within the physical boundaries of the docks and slips at the marina. Position control can be done with tape measures and by following contours provided to the dredging company by the engineering firm tasked to provide such hydrographic information. There will be no impacts of obstruction to navigations in the existing shipping channels. Dredging will be done only on the landward side of the existing wave attenuator. All dredging equipment will moor and operate within the marina basin.

- c) **Identify any unusual construction techniques that may increase or decrease the costs of the project.**

There will be no unusual construction /dredging techniques.

*(For reviewer only)*  
*(1-3 points)*

---

**10) CONSTRUCTION MATERIALS:**

- a) **List the materials to be utilized for this project. What is the design life of the proposed materials compared to other available materials?**

As stated above, dredging will be performed by hydraulic dredge, mechanical removal, clamshell, or track hoe excavator or a combination of methods. All work will be accomplished from the waterward areas using motorized vessels less than 40' in length and powered by inboard or outboard engines. Equipment shall be stationed on shallow draft barges, with a maximum length of 60' and maximum width of 24'. Material scows will have a maximum length of 200'. Barges and scows will be kept in place by spuds or anchors or lines tied to existing marina pilings. Barge movement will occur at mid- or high tides in order to prevent prop scour of shoreline areas not being dredged.

- b) **Identify any unique construction materials that may significantly alter the project costs.**

N/A

*(For reviewer only)*  
*(1-3 points)*

**RATING POINT  
 TOTAL** \_\_\_\_\_

(Note: The total maximum score possible is dependent upon the project priority category but cannot exceed 50 points unless the project qualifies as an emergency-related project. The minimum score possible is 10 points. A score of 35 points or more is required to be considered for funding.)



## ATTACHMENT E-5

**FLORIDA INLAND NAVIGATION DISTRICT  
ASSISTANCE PROGRAM 2017**

**PROJECT COST ESTIMATE**

**(See Rule Section 66B-2.005 & 2.008 for eligibility and funding ratios)**

<b>Project Title:</b>	Marina Basin Maintenance Dredging Phase II
<b>Applicant:</b>	City of Fernandina Beach

<b>Project Elements</b> <i>(Please list the MAJOR project elements and provide general costs for each one. For Phase I Projects, please list the major elements and products expected)</i>	<b>Quantity or Total Estimated Cost</b> (Number and/or Footage etc.)	<b>Applicant's Cost</b>	<b>FIND Cost</b>
Pre-dredge Bathymetric Survey	3,000.00	1,500.00	1,500.00
Mobilization	18,000.00	9,000.00	9,000.00
Dredge material from basin bottom	10,000 Cubic Yds. at \$18.01 per CY = \$180,100.	90,050.00	90,050.00
Transportation of dredged materials to off load site in water tight trucks	10,000 Cubic Yds. at \$8.87 per CY = \$88,700.	44,350.00	44,350.00
Demobilization and Clean up	4,000.00	2,000.00	2,000.00
Post-dredge Bathymetric Survey	3,000.00	1,500.00	1,500.00
Water Sampling	6,500.00	3,250.00	3,250.00
<b>**TOTALS =</b>	<b>\$ 303,300.00</b>	<b>\$ 151,650.00</b>	<b>\$ 151,650.00</b>

**ATTACHMENT E-6  
WATERWAYS ASSISTANCE PROGRAM 2017**

**PROJECT TIMELINE**

<b>Project Title:</b>	Marina Basin Maintenance Dredging Phase II
<b>Applicant:</b>	City of Fernandina Beach

The applicant is to present a detailed timeline on the accomplishment of the components of the proposed project including, as applicable, completion dates for: permitting, design, bidding, applicant approvals, initiation of construction and completion of construction.

**NOTE: All funded activities must begin AFTER October 1<sup>st</sup>**  
(or be consistent with Rule 66B-2.005(3) - Pre-agreement expenses)

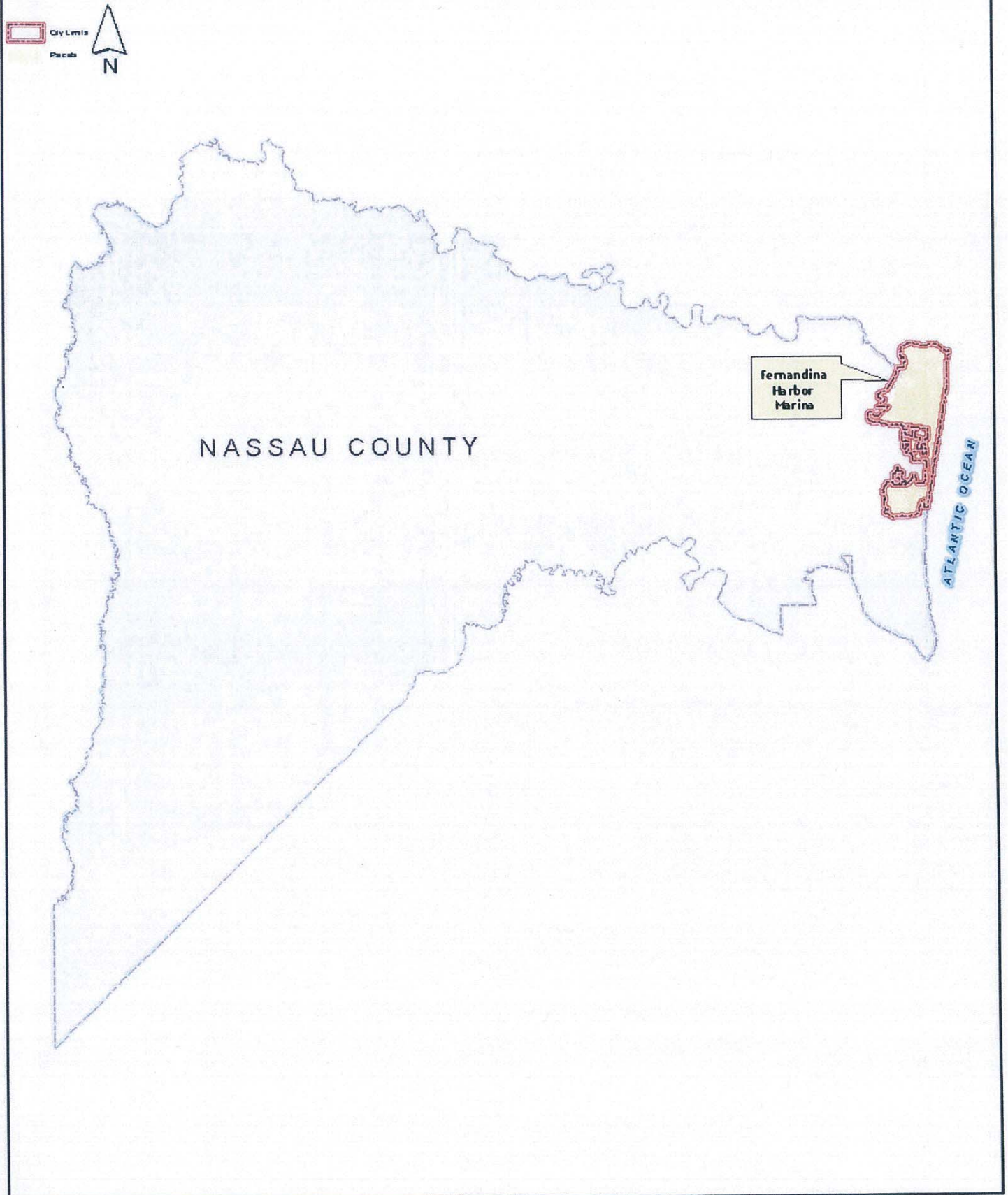
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PROJECT TASK	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept.
Prepare Bid Documents												
Solicit & Open Bids												
Bid Analysis & Selection of Vendor(s)												
Contract Execution w/City												
Engineering and Permitting												
Submit Costs Documentation to FIND for Partial Reimbursement												





# Nassau County

4/1/2011

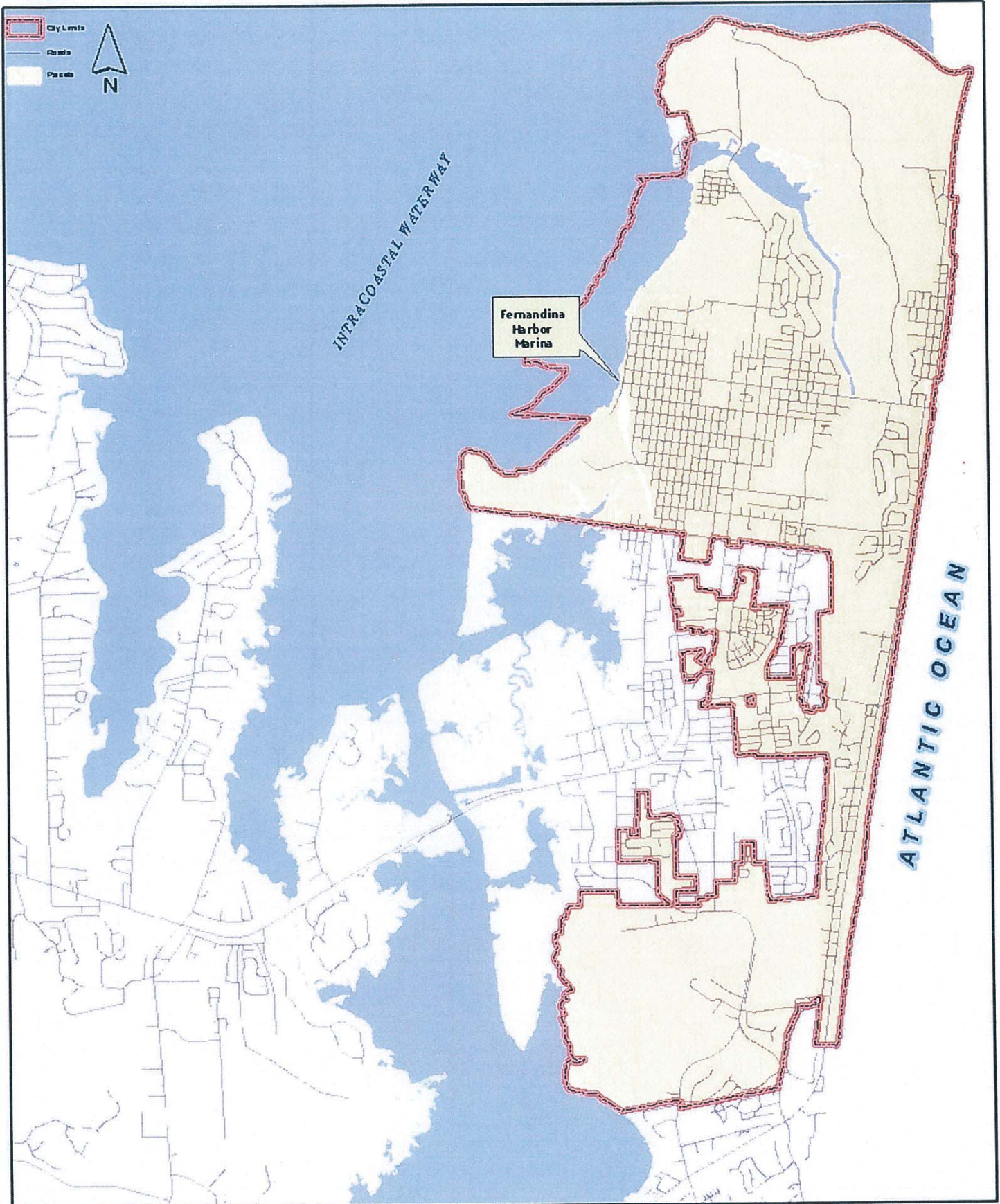




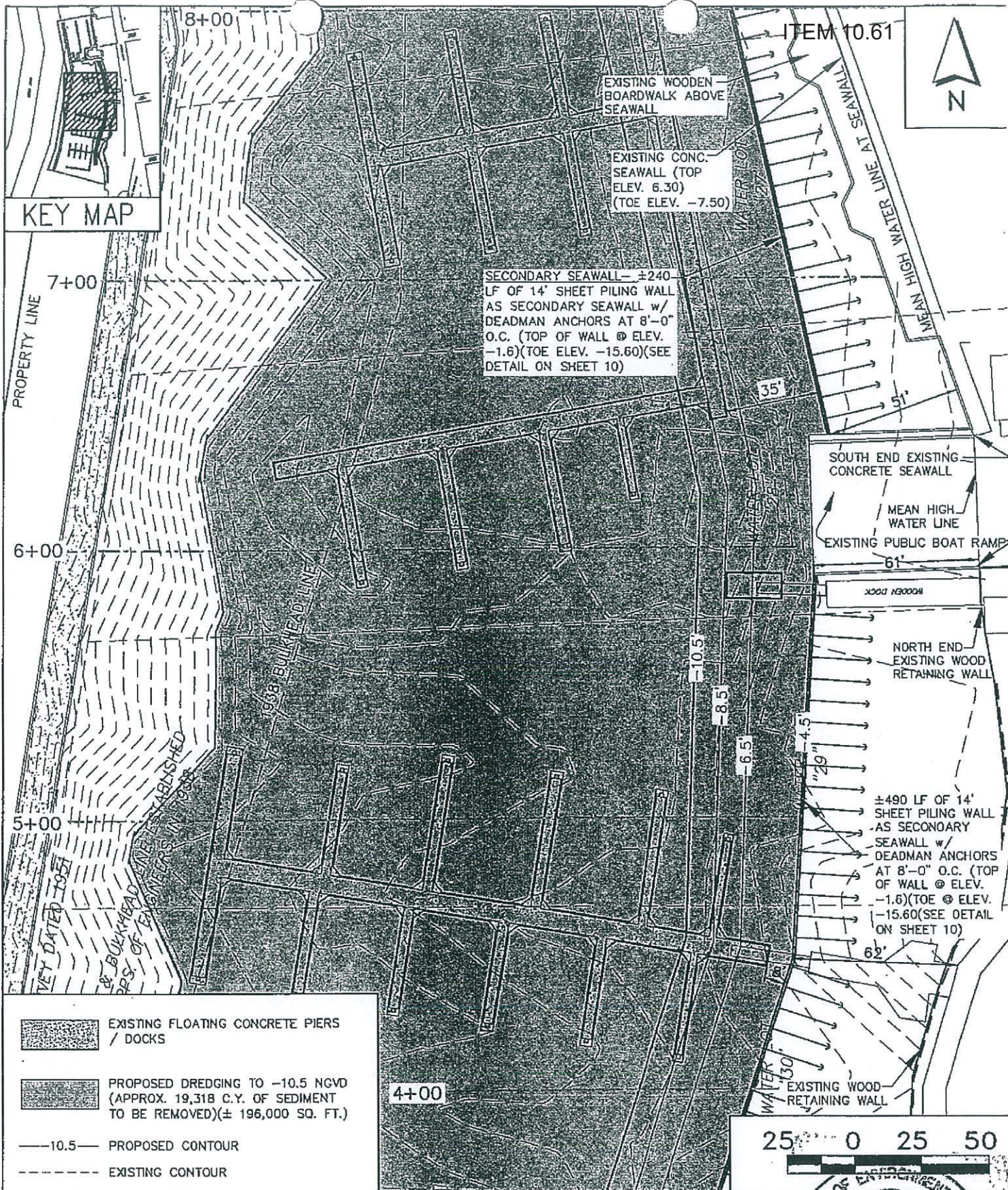




# City of Fernandina Beach

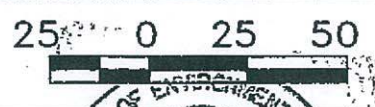
4/1/2011







-  EXISTING FLOATING CONCRETE PIERS / DOCKS
-  PROPOSED DREDGING TO -10.5 NGVD (APPROX. 19,318 C.Y. OF SEDIMENT TO BE REMOVED)(± 196,000 SQ. FT.)
- 10.5— PROPOSED CONTOUR
- - - - - EXISTING CONTOUR



EXHIBITS PREPARED BY:

**ZEVE COHEN & ASSOCIATES, INC.**

CIVIL ENGINEERS • LANDSCAPE ARCHITECTS  
(EB 4516) (LC 62)

PLANNERS • TRANSPORTATION • ENVIRONMENTAL

WWW.ZEVECOHEN.COM

FERNANDINA HARBOR  
MAINTENANCE DREDGING

PROPOSED WORK

DATE PREPARED: 4/29/2011 BY: RTC JOB NO.: 59043 DRAWING NAME: 59043 EXHIBIT 18

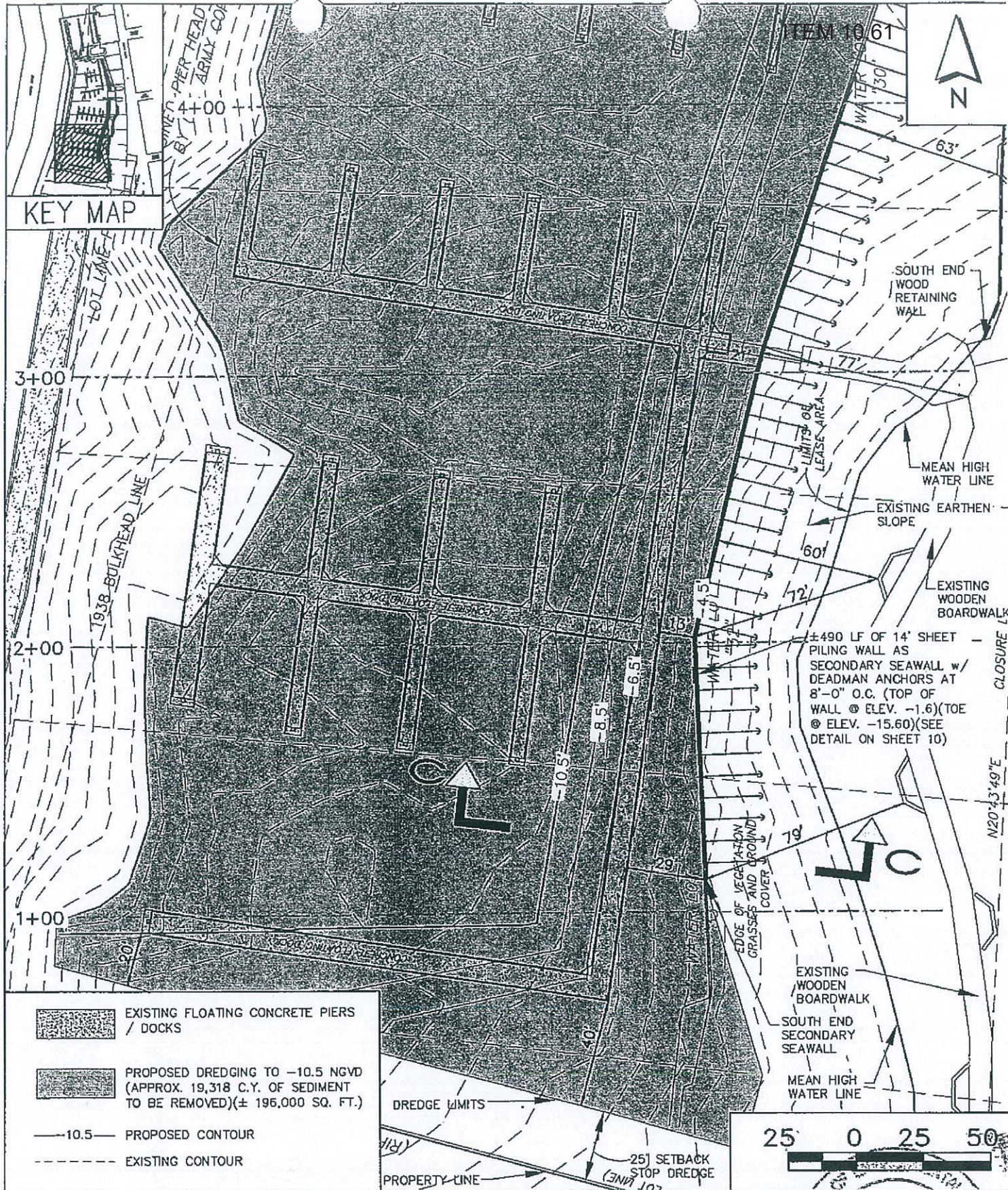
STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION PERMIT SHEET: 18



ITEM 10.61



KEY MAP



EXISTING FLOATING CONCRETE PIERS / DOCKS



PROPOSED DREDGING TO -10.5 NGVD (APPROX. 19,318 C.Y. OF SEDIMENT TO BE REMOVED)(± 196,000 SQ. FT.)

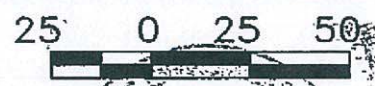
—10.5— PROPOSED CONTOUR

- - - - - EXISTING CONTOUR

DREDGE LIMITS

PROPERTY LINE

25' SETBACK STOP DREDGE (LOT LINE)



EXHIBITS PREPARED BY:

**ZEVE COHEN & ASSOCIATES, INC.**

CIVIL ENGINEERS • LANDSCAPE ARCHITECTS  
(EB 4516) (LC 62)

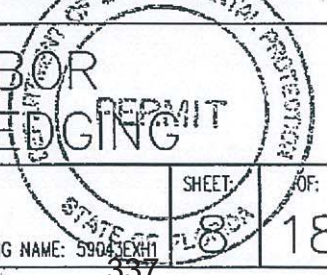
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# FERNANDINA HARBOR MAINTENANCE DREDGING

## PROPOSED WORK

DATE PREPARED: 4/29/2011 BY: RTC JOB NO.: 59043 DRAWING NAME: 59043 EXH 11



SHEET: 11 OF: 18





## ATTACHMENT E-2

**WATERWAYS ASSISTANCE PROGRAM FY 2017  
PROJECT APPLICATION  
APPLICANT INFORMATION – PROJECT SUMMARY**

<b>APPLICANT INFORMATION</b>			
<b>Applicant:</b>	CITY OF STUART		
<b>Department:</b>	PUBLIC WORKS		
<b>Project Title:</b>	SHEPARD PARK IMPROVEMENTS PART 3		
<b>Project Director:</b>	TIM VOELKER, P.E.	<b>Title:</b>	CITY ENGINEER
<b>Project Liaison:</b> <i>(if different from Project Director)</i>	MARC ROGOLINO	<b>Title:</b>	CAPITAL PRJ. COORD.
<b>Mailing Address:</b>	121 SW FLAGLER AVE.		
<b>City:</b>	STUART	<b>Zip Code:</b>	34994
<b>Email Address:</b>	MROGOLINO@CI.STUART .FL.US	<b>Phone #:</b>	772-221-4700
<b>Project Address:</b>	400 SOUTH FEDERAL HWY. STUART, FLORIDA 34994		

\*\*\*\*\* I hereby certify that the information provided in this application is true and accurate.\*\*\*\*\*

SIGNATURE: \_\_\_\_\_



DATE: \_\_\_\_\_

3/17/17

**PROJECT NARRATIVE** (Please summarize the project in space provided below in 2 paragraphs or less.)

The intent of this project is to stabilize the shoreline and eliminate erosion into the adjacent District's waterway by constructing a new seawall at the City of Stuart's Shepard Park. The project consists of constructing approximately 680 LF of FRP sheeting and 680 LF of a 24" x 24" concrete pile cap, as well as, demolition of the existing timber walkway and construction of an ADA compliant sidewalk. In addition, the project will also include site grading that will help promote percolation of stormwater run-off into the soil rather than discharging into the adjacent District's waterway.

The 2015 FIND Assistance Program approved assistance funding to the City of Stuart in the amount of \$232,158.00 for the above listed improvements. Due to poor soil conditions encountered onsite, the new seawall requires longer sheet piles and driven prestressed concrete piles for the tieback/deadman anchoring system. These items have increased the original estimated project cost from \$494,000.00 to \$970,000.00. Therefore, the City is requesting an additional \$261,667.50 in FIND approved assistance funding for the 2017 FIND Waterways Assistance Program.

## ATTACHMENT E-3 - PROJECT INFORMATION 2017

<b>Applicant:</b>	CITY OF STUART		<b>Project Title:</b>	SHEPARD PARK IMPROVEMENTS PART 3	
<b>Total Project Cost: \$</b>	523,335.00	<b>FIND Funding Requested: \$</b>	261,667.50	<b>% of Total Cost:</b>	50%
<b>Amount and Source of Applicant's Matching Funds:</b>	The City's match is \$261,667.50 and the source is from infrastructure sales tax. For the 2015 FIND Waterways Assistance Program, the City's match was \$261,842.00 for a new seawall. Due to poor soil conditions encountered onsite, the new seawall requires longer sheet piles and driven prestressed concrete piles for the tieback/deadman anchoring system. These items have increased the original estimated project cost; therefore, the City is requesting additional funding for 2017.				

1. Ownership of Project Site (check one): Own: ☒ Leased: ☐ Other: ☐

2. If leased or other, please describe lease or terms and conditions:

N/A

3. Has the District previously provided assistance funding to this project or site? Yes: ☒ No: ☐

4. If yes, please list:

Public restrooms, boat trailer parking, boat slips, seawall, riverwalk, fishwalk and boat ramp reconstruction.

5. What is the current level of public access in terms of the number of boat ramps, boat slips and trailer parking spaces, linear feet of boardwalk (etc.)? (as applicable):

A two lane boat ramp, seven boat slips, 1,200 LF of public boardwalk, eleven boat trailer parking spaces, waterfront public park with pavilion, children's playground, restrooms and vehicle parking.

6. How many additional ramps, slips, parking spaces or other access features will be added by this project?

An ADA compliant sidewalk.

7. Are fees charged for the use of this project? No ☒ Yes ☐ \*\*

\*\*If yes, please attach additional documentation of fees and how they compare with fees from similar public & private facilities in the area.

Please list all Environmental Resource Permits required for this project:

AGENCY	Yes / No / N/A	Date Applied For	Date Recieved
WMD	N/A		
DEP	N/A		
ACOE	YES	Nov. 2012	March 2015
COUNTY / CITY	N/A		



## ATTACHMENT E-4

**WATERWAYS ASSISTANCE PROGRAM  
APPLICATION AND EVALUATION WORKSHEET**

**DIRECTIONS:** All applicants will complete questions 1 through 6, and then based on the type of project, complete one and only one subsection (E-4A, B, C, D or E) for questions 7-10.

**\*\*Please keep your answers brief and do not change the pagination of Attachment E-4 \*\***

All other sub-attachments that are not applicable to an applicant's project should not be included in the submitted application.

<b>Project Title:</b>	SHEPARD PARK IMPROVEMENTS PART 3
<b>Applicant:</b>	CITY OF STUART

---

**1) PRIORITY LIST:**

- a) Denote the priority list category of this project from Attachment C in the application.** (The application may only be of **one** type based upon the predominant cost of the project elements.)

Priority #12- Public waterfront parks and boardwalks and associated improvements.

- b) Explain how the project fits this priority category.**

The existing seawall is failing, allowing upland soils to erode into Frazier Creek. The project proposes to construct a new seawall, which will stabilize the shoreline and eliminate erosion into the adjacent District's waterway. This will improve the overall water quality for the District.

*(For reviewer only)*

Max. Available Score for application     45

Question 1. Range of Score    (1 to 3 points)

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**2) WATERWAY RELATIONSHIP:**

- a) Explain how the project relates to the ICW and the mission of the Navigation District.**

The seawall provides shoreline stabilization and affords the ability to navigate from Shepard Park boat ramp to the ICW via Frazier Creek.

- b) What public access or navigational benefit to the ICW or adjoining waterway will result from this project?**

The project allows for recreational and commercial boaters direct connection to the adjoining waterways.

*(For reviewer only)*  
*(1-6 points)*

---

**3) PUBLIC USAGE & BENEFITS:**

- a) How is the public usage of this project clearly identified and quantified? Estimate the amount of total public use.**

The City of Stuart Public Works Dept. inspects and maintains the park a minimum four times a week. Based on staff's observations the public usage of the two lane boat ramp varies from several a day to the maximum boat trailer parking capacity of 12 plus. The boardwalk usage also varies with the time of year and time of day.

- b) Discuss the regional and local public benefits that will be provided by the project. Can residents from other counties of the District reasonably access and use the project? Explain.**

The Public benefits includes recreational and commercial access to the ICW and access from other locations by boat to a public park that has boardwalks, picnic pavilions, restrooms and playgrounds.

Yes. The project is located in Shepard Park, which is a four acre park open to the public year-round and has no user fees.

- c) Are there any restrictions placed on commercial access or use of this site?**

The City does not have restrictions placed on commercial access or use of the site.

*(For reviewer only)*  
*(1-8 points)*

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#### 4) TIMELINESS

- a) Describe current status of the project and present a reasonable and effective timeline for the completion of the project consistent with Attachment E-6.**

The final design is complete. If the FIND assistance funding request is approved, the City anticipates advertising the project in November 2017 with an award of one contract for construction.

- b) Briefly explain any unique aspects of this project that could influence the project timeline.**

The 2015 FIND Waterways Assistance Program approved funding to the City of Stuart for a new seawall to be completed by September 30, 2017. Due to poor soil conditions encountered onsite, the new seawall requires longer sheet piles and driven prestressed concrete piles for the tieback/deadman anchoring system. The City will be requesting a one year extension to the original project agreement for a new completion date of September 30, 2018.

*(For reviewer only)*  
*(1-3 points)*

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#### 5) COSTS & EFFICIENCY:

- a) List funding sources and the status and amount of the corresponding funding that will be utilized to complete this project.**

The City of Stuart funding match source would be our voter approved Infrastructure Sales Tax.

- b) Identify and describe any project costs that may be increased because of the materials utilized or specific site conditions.**

Due to poor soil conditions encountered onsite, the new seawall requires longer sheet piles and driven prestressed concrete piles for the tieback/deadman anchoring system. These items have increased the original estimated project cost from \$494,000.00 to \$970,000.00.

- c) Describe any methods to be utilized to increase the cost efficiency of this project.**

Bid documents will allow for the use of alternative materials and construction methods that meet minimum specifications, provide for cost reductions and a longer useful life.

- d) If there are any fees associated with the use of this facility, please detail. In addition, please provide a listing of the fees charged by similar facilities, public and private, in the project area.**

The City does not have a user fee for the use of the park, boat slips, boat ramp, or boardwalks.

*(For reviewer only)*  
*(1-6 points)*

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**6) PROJECT VIABILITY:**

- a) What specific need in the community does this project fill? Is this project referenced or incorporated in an existing maritime management, public assess or comp plan?**

The specific needs to the community are to provide access to the St. Lucie River and Okeechobee Waterway, as well as, provide recreation and environmental education to the public.

This project is identified in the following;

- City's Five Year Capital Improvement Plan (CIP)
- City's Comprehensive Plan
- 2014 Martin and St. Lucie Regional Waterways Plan

- b) Clearly demonstrate how the project will continue to be maintained and funded after District funding is completed.**

The City of Stuart's annual operating budget provides funding for annual routine maintenance of the facility.

- c) Will the program result in significant and lasting benefits? Explain.**

Yes. The long term benefit will be the stabilization of the upland soils, which will eliminate erosion into the adjacent District's waterway. In addition, site grading is proposed along the landward side of the new seawall to convey runoff away from the seawall and increase the useful life of the seawall.

- d) Please describe any environmental benefits associated with this project.**

The project proposes to construct a new seawall and cap, along with associated site grading improvements to help stabilize the shoreline and eliminate erosion into the adjacent District's waterway. This will help improve the overall water quality and lessen the need for maintenance dredging.

*(For reviewer only)*  
*(1-7 points)*

---

**SUB-TOTAL** \_\_\_\_\_

FIND FORM NO. 91-25

Rule 66B-2.005 (Effective Date: 3-21-01, Revised 4-24-06, 1-27-14)

**ATTACHMENT E-4A  
DEVELOPMENT & CONSTRUCTION PROJECTS**

**WATERWAYS ASSISTANCE PROGRAM  
APPLICATION AND EVALUATION WORKSHEET**

THIS ATTACHMENT IS TO BE COMPLETED IF YOUR PROJECT IS A  
DEVELOPMENT OR CONSTRUCTION PROJECT BUT IS NOT AN INLET  
MANAGEMENT OR BEACH RENOURISHMENT PROJECT.

**7) PERMITTING:**

- a) Have all required environmental permits been applied for? (USACE, DEP and WMD)  
If permits are NOT required, explain why not.**

Yes, The City of Stuart has obtained the required Environmental Resource Permits from the Florida Department of Environmental Protection (FDEP) and the U.S. Army Corp. of Engineers (ACOE) related to the construction of the proposed seawall replacement.

- b) If the project is a Phase I project, list the tasks scheduled to obtain the necessary permits and engineering work and provide a general cost estimate for the future Phase II work.**

This is not a phased project. If the FIND funding request is approved, the City anticipates advertising the project in November 2017 with an award of one contract for construction.

- c) Detail any significant impediments that may have been identified that would potentially delay the timely issuance of the required permits.**

All required permits have been issued.

*(For reviewer only)  
(1-4 points)*

---

**8) PROJECT DESIGN:**

- a) Has the design work been completed? If this is a Phase I project, has a preliminary design been developed?**

Yes, final design is complete. If the FIND funding request is approved, the City anticipates advertising the project in November 2017 with an award of one contract for construction.

- b) Are there unique beneficial aspects to the proposed design that enhance public usage or access, minimize environmental impacts, improve water quality or reduce costs?**

Yes, replacement of the seawall will eliminate erosion, improve water quality and lessen the need for maintenance dredging.

*(For reviewer only)*  
*(1-2 points)*

---

**9) CONSTRUCTION TECHNIQUES:**

- a) Briefly explain the construction techniques to be utilized for this project. If a Phase 1, elaborate on potential techniques.**

The replacement of the failing sheet piles will be addressed utilizing a replacement FRP sheet pile in front of the existing and filling the gap between the two with flowable cementitious fill material.

- b) How are the utilized construction techniques appropriate for the project site?**

The techniques used in the project are intended to reduce cost and restore the structural integrity to the seawall, while minimizing any environmental impacts during construction.

- c) Identify any unusual construction techniques that may increase or decrease the costs of the project.**

None noted.

*(For reviewer only)*  
*(1-3 points)*

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**10) CONSTRUCTION MATERIALS:**

- a) **List the materials to be utilized for this project. What is the design life of the proposed materials compared to other available materials?**

Concrete, FRP sheet piling, structural reinforcing steel, and flowable cementitious fill material.  
Life expectancy is 40+ years.

- b) **Identify any unique construction materials that may significantly alter the project costs.**

None specifically required, but specifications will allow for alternate material.

*(For reviewer only)*  
*(1-3 points)*

---

**RATING POINT  
TOTAL** \_\_\_\_\_

(Note: The total maximum score possible is dependent upon the project priority category but cannot exceed 50 points unless the project qualifies as an emergency-related project. The minimum score possible is 10 points. A score of 35 points or more is required to be considered for funding.)

Form No. 91-25A  
Rule 66B-2.005 (Effective Date: 3-21-01, revised 4-24-06, 1-27-14)

## ATTACHMENT E-5

FLORIDA INLAND NAVIGATION DISTRICT  
ASSISTANCE PROGRAM 2017

## PROJECT COST ESTIMATE

(See Rule Section 66B-2.005 & 2.008 for eligibility and funding ratios)

<b>Project Title:</b>	SHEPARD PARK IMPROVEMENTS PART 3
<b>Applicant:</b>	CITY OF STUART

<b>Project Elements</b> <i>(Please list the MAJOR project elements and provide general costs for each one. For Phase I Projects, please list the major elements and products expected)</i>	<b>Quantity or Total Estimated Cost</b> <i>(Number and/or Footage etc.)</i>	<b>Applicant's Cost</b>	<b>FIND Cost</b>
1. Construct new seawall and cap. <ul style="list-style-type: none"> <li>• 680 LF of FRP sheeting.</li> <li>• 680 LF 24"X 24" concrete pile cap</li> <li>• Demolition of 737 LF of timber walkway and construction of an ADA compliant sidewalk.</li> <li>• Site grading to eliminate stormwater run-off and improve percolation</li> </ul>	\$523,335.00	\$261,667.50	\$261,667.50
<b>**TOTALS =</b>	\$ 523,335.00	\$ 261,667.50	\$ 261,667.50

**ATTACHMENT E-6  
WATERWAYS ASSISTANCE PROGRAM 2017**

**PROJECT TIMELINE**

<b>Project Title:</b>	SHEPARD PARK IMPROVEMENTS PART 3
<b>Applicant:</b>	CITY OF STUART

The applicant is to present a detailed timeline on the accomplishment of the components of the proposed project including, as applicable, completion dates for: permitting, design, bidding, applicant approvals, initiation of construction and completion of construction.

**NOTE: All funded activities must begin AFTER October 1<sup>st</sup>**  
(or be consistent with Rule 66B-2.005(3) - Pre-agreement expenses)

October 31, 2017:	Execute FIND project agreement
November 2, 2017:	Advertise invitation to bid
November 29, 2017:	Receive bids
January 8, 2018:	Award construction contract
February 5, 2018:	Notice to Proceed
August 6, 2018:	Complete construction
September 14, 2018:	Project close-out







## Project Boundary Map







# Site Development Map



**Shepard Park New Seawall**



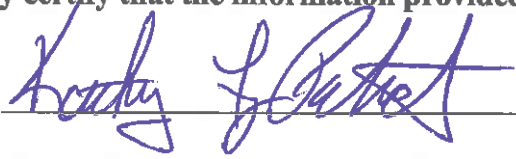
## ATTACHMENT E-2

**WATERWAYS ASSISTANCE PROGRAM FY 2017  
PROJECT APPLICATION  
APPLICANT INFORMATION – PROJECT SUMMARY**

<b>APPLICANT INFORMATION</b>			
<b>Applicant:</b>		<u>Martin County Board of County Commissioners</u>	
<b>Department:</b>			
<b>Project Title:</b>		<u>Jensen Beach Managed Mooring Field</u>	
<b>Project Director:</b>		<u>Kathy Fitzpatrick</u>	<b>Title:</b> <u>Coastal Engineer, Martin County</u>
<b>Project Liaison:</b> <i>(if different from Project Director)</i>			<b>Title:</b>
<b>Mailing Address:</b>		<u>2401 SE Monterey Rd</u>	
<b>City:</b>		<u>Stuart, FL</u>	<b>Zip Code:</b> <u>34946</u>
<b>Email Address:</b>		<u>kfitzpat@martin.fl.us</u>	<b>Phone #:</b> <u>(772) 288 5429</u>
<b>Project Address:</b>			

\*\*\*\*\* I hereby certify that the information provided in this application is true and accurate. \*\*\*\*\*

SIGNATURE: \_\_\_\_\_


DATE: 3/22/17

**PROJECT NARRATIVE** (Please summarize the project in space provided below in 2 paragraphs or less.)

The Jensen Beach Managed Mooring project is located in the Indian River Lagoon, immediately adjacent to Jensen Beach, FL. The project design is complete and permits have been issued. When constructed, the project will include the installation of 51 mooring buoys located in 4 mooring "pods", the construction of a dinghy dock along Jensen Beach Causeway to facilitate ingress and egress between the mooring field and the adjacent uplands and the installation of shower/restroom, laundry and Harbor Master's office facilities on the uplands for use by mooring field patrons.

## ATTACHMENT E-3 - PROJECT INFORMATION 2017

<b>Applicant:</b>	Martin County BOCC	<b>Project Title:</b>	Jensen Beach Mooring Field
<b>Total Project Cost: \$</b>	\$1,401,000	<b>FIND Funding Requested: \$</b> 502,070	<b>% of Total Cost:</b> 36%
<b>Amount and Source of Applicant's Matching Funds:</b>	The remaining amount, \$899,070 , will be partially funded through other grant programs. Any remaining funds required will be provided by Martin County from its Capital Improvement funds.		

1. Ownership of Project Site (check one): Own: ☐ Leased: ☒ Other: ☐

2. If leased or other, please describe lease or terms and conditions:

A submerged lands lease for the mooring field and upland facility has been granted as part of the Environmental Resource Permit Application to the Florida DEP.

3. Has the District previously provided assistance funding to this project or site? Yes: ☐ No: ☒

4. If yes, please list:

5. What is the current level of public access in terms of the number of boat ramps, boat slips and trailer parking spaces, linear feet of boardwalk (etc.)? (as applicable):

Jensen Beach Causeway currently provides 140 parking spaces and 58 trailers spaces, all of which are open to the public on a first come first serve basis. There are 2 boat ramps on the Causeway; one on the north side and one on the south side. The entire Causeway is open to the public and offers picnic shelters, a fishing pier (in the area of the boat ramp on the north side of the Causeway) and a wood viewing platform (adjacent to the boat ramp on the south side of the Causeway).

6. How many additional ramps, slips, parking spaces or other access features will be added by this project?

The Project proposes to add 51 mooring buoys, which will be available for rental and use by the Public on a first come first serve basis. In addition to these slips, the Project includes the installation of a dinghy dock along the south side of Jensen Beach Causeway in order for mooring patrons to access the adjacent uplands and construction of a Harbor Master's facility.

7. Are fees charged for the use of this project? No ☐ Yes ☒ \*\*

**\*\*If yes, please attach additional documentation of fees and how they compare with fees from similar public & private facilities in the area.**

Fees for use of the proposed Project have yet to be determined. Dinner Key Mooring Field in Miami-Dade County charges \$23.36 per day, \$322.43 per month for month-to-month mooring. The Sunset Bay Marina and Anchorage located in Stuart has 69 moorings and charges \$330 per month or \$25.00 per day. The Jensen Beach Managed Mooring Field will charge reasonable prevailing rates once open to the public.

**Please list all Environmental Resource Permits required for this project:**

AGENCY	Yes / No / N/A	Date Applied For	Date Received
WMD	N/a		
DEP	Yes	12/24/09	12/22/11
ACOE	Yes	12/24/09	3/2/12
COUNTY / CITY	N/A		

**ATTACHMENT E-4****WATERWAYS ASSISTANCE PROGRAM  
APPLICATION AND EVALUATION WORKSHEET**

**DIRECTIONS:** All applicants will complete questions 1 through 6, and then based on the type of project, complete one and only one subsection (E-4A, B, C, D or E) for questions 7-10.

**\*\*Please keep your answers brief and do not change the pagination of Attachment E-4\*\***

All other sub-attachments that are not applicable to an applicant's project should not be included in the submitted application.

<b>Project Title:</b>	<u>Jensen Beach Managed Mooring Field</u>
<b>Applicant:</b>	<u>Martin County Board of County Commissioners</u>

**1) PRIORITY LIST:**

- a) Denote the priority list category of this project from Attachment C in the application.** (The application may only be of one type based upon the predominant cost of the project elements.)

**8. Acquisition, Dredging, Shoreline Stabilization and Development of Public Boat Docking and Mooring Facilities**

- b) Explain how the project fits this priority category.**

The proposed Project will install 51 mooring buoys south of the Jensen Beach Causeway, to accommodate the mooring of vessels ranging from 20 to 60 feet in length. Additionally, the Project includes the installation of a dinghy dock which will accommodate the temporary mooring of 18 vessels providing mooring patrons access to the Harbor Master's facility, upland restrooms, showers, trash receptacles, transportation and amenities. The mooring field will be available to the Public on a first come first serve basis.

*(For reviewer only)*

Max. Available Score for application 47

Question 1. Range of Score (1 to 5 points)



## 2) WATERWAY RELATIONSHIP:

### a) Explain how the project relates to the ICW and the mission of the Navigation District.

The proposed Project is located immediately west of the ICW in Jensen Beach , Martin County and will provide an affordable and safe managed mooring facility (daily, month to month, and longterm) for boaters traversing the ICW. Additionally, the management of the mooring field will help prevent future derelict vessels adjacent to the ICW in this area, control illegal anchoring and will improve public navigation, safety, submerged aquatic resources and aesthetics along this portion of the ICW.

### b) What public access or navigational benefit to the ICW or adjoining waterway will result from this project?

The 51 new mooring buoys will be open to the public on a first come first serve basis for a reasonable fee and will provide boaters with a safe and convenient location to moor their vessels with direct access to the adjacent ICW. Additionally, the project will provide proper navigational marking and lighting of the anchorage area to keep vessels within appropriate navigational areas and outside of nearby seagrass beds and management will help prevent new derelict vessels, thereby improving navigation on waters adjacent to this portion of the ICW.

*(For  
reviewer  
only) (1-6  
points)*

## 3) PUBLIC USAGE & BENEFITS:

### a) How is the public usage of this project clearly identified and quantified? Estimate the amount of total public use.

The Project area, amenable to public usage, is currently being used as an ad hoc anchoring area by the public due to its close proximity to the ICW, its convenient upland facilities located along Jensen Beach Causeway and Indian River Drive, its sheltered location and the minimal presence of mooring fields in the Martin County-St. Lucie County area. Sunset Bay Marina and Anchorage in Stuart (the only other mooring field in the County) is approximately 12 miles away by water and was recently reopened with 69 moorings with near 100% occupancy during "season" and approximately 80% annual average occupancy. A cursory review of aerials for the Project area revealed the presence of as many as 20 vessels at any given time; therefore, the 51 mooring buoys are planned as part of the managed mooring field, approximately 2.5 times the number of randomly anchored vessels.

### b) Discuss the regional and local public benefits that will be provided by the project. Can residents from other counties of the District reasonably access and use the project? Explain.

The proposed mooring field and associated dinghy dock which will provide public access to mooring field and upland amenities on a first come first serve basis for a reasonable fee is located just north of the "Crossroads" where the ICW intersects with the Okeechobee Waterway and the St. Lucie Inlet. Water quality and aesthetics in the area will be improved by requiring vessel pumpout, regulating vessel maintenance and eliminating future derelict vessel impacts through management of the facility. Furthermore, there is a potential for increased

economic activity as a result of the Project in the form of jobs and service hours for the work required during the design, permitting, and construction of the facility, in addition to the annual income that will be generated from the mooring rentals and purchases from local merchants by mooring field users.

The Proposed managed mooring field will be available to residents of any county on a first come first served basis. The location of the Project adjacent to the ICW, just north of the busy "Crossroads" area and public launching facilities lends itself to easy access and public use.

**c) Are there any restrictions placed on commercial access or use of this site?**

Commercial activities and vessels engaged in commercial activities are prohibited in the facility, however, this does not prohibit commercial vessels from using the facility or its amenities. No advertising or soliciting shall be authorized on any vessel within the facility, with the exception of "for sale by owner" signs (2 sign maximum) not to exceed 2 square feet in size. Use of moorings for brokerage purposes is strictly prohibited.

*(For review  
er only)  
(1-8  
points)*

#### **4) TIMELINESS**

**a) Describe current status of the project and present a reasonable and effective timeline for the completion of the project consistent with Attachment E-6.**

The Project design is complete and incorporates recommendations received during regulatory agency pre-application meetings. Environmental permits have been issued. Project bidding is planned for October/November, 2017, Project commencement is estimated to begin in June 2018, and construction should be completed in December 2018.

**b) Briefly explain any unique aspects of this project that could influence the project timeline.**

There are no aspects of the project that point to project timeline adjustments.

*(For reviewer only)  
(1-3 points)*

#### **5) COSTS & EFFICIENCY:**

**a) List funding sources and the status and amount of the corresponding funding that will be utilized to complete this project.**

Martin County has already spent \$195,000 toward the permitting, engineering and design of the project and is applying for and anticipates funding from the FWC Boating Improvement Program (FBIP) and from FWC under its Boating Infrastructure Grant Program (BIGP). Applications will be submitted by FWC's deadlines for 2017. This will provide full project funding.

- b) Identify and describe any project costs that may be increased because of the materials utilized or specific site conditions.**

The Project will utilize commercially available mooring buoys and anchor systems, specifically designed for this type of application. However, the incorporation of fiberglass grated decking materials on the dinghy dock to facilitate light penetration for seagrass growth will increase the cost of decking this structure.

- c) Describe any methods to be utilized to increase the cost efficiency of this project.**

Pre-Application meetings with the regulatory agencies were held in order to design the Project in accordance with environmental guidelines to reduce the number of future changes to the Project design and construction materials. Additionally, using commercially available pre-fabricated products will further reduce costs.

- d) If there are any fees associated with the use of this facility, please detail. In addition, please provide a listing of the fees charged by similar facilities, public and private, in the project area.**

Martin County will establish a reasonable fee for mooring at the proposed facility based on similar facilities such as the City of Miami's Dinner Key Managed Mooring Field, Miami-Dade County, Florida which charges a flat rate fee of \$325/month per mooring on a month to month basis, and \$25/night for a one day stay. The private Sunset Bay Marina and Anchorage located in Stuart Florida, charges a \$330 monthly mooring fee or \$25.00 per day for its 69 available mooring buoys. Income generated from leasing the moorings will be utilized for facility maintenance, enforcement, and general operations.

*(For reviewer only)*  
*(1-6 points)*

## **6) PROJECT VIABILITY:**

- a) What specific need in the community does this project fill? Is this project referenced or incorporated in an existing maritime management, public assess or comp plan?**

The project fills a need for managed mooring opportunities along the ICW in and near Martin County, as there is only one other mooring facility (Sunset Bay Marina and Anchorage) in the region, which is located in Stuart 12 miles from the Jensen Beach Causeway and 7 miles from the Intracoastal Waterway by boat. The Anchorage closed in 2008 for renovations and now provides 17 fewer moorings than during its previous operation. Given the high use of the Anchorage mooring field prior to its renovations and the current usage patterns of the proposed project area by ad hoc anchoring, there is a clear public need for additional moorings in the area.

- b) Clearly demonstrate how the project will continue to be maintained and funded after District funding is completed.**

The facility will likely be managed as a County Park amenity. The Project will continue to be managed and maintained for public use and enjoyment by a Harbormaster. Income generated from leasing the moorings will be utilized for facility maintenance, enforcement, and general operations.



**c) Will the program result in significant and lasting benefits? Explain.**

There are significant and lasting benefits that will result from this Project, including the addition of much needed affordable and secure public mooring for local and transient boaters, improved water quality by requiring vessels to utilize marine sanitation devices and providing regularly scheduled visits by the Martin Ship Pump Out Operation Program vessel, improved navigation by providing navigational marking and lighting of the anchorage area to keep vessels within appropriate navigational areas and outside of nearby seagrass beds, improved boater and public safety with management of the mooring field, improved aquatic resource and private property protection by eliminating anchor drag and sediment scour using permanently installed mooring buoys attached to anchors and preventing derelict vessels which currently displace, scour and shade seagrass beds in the area. In addition, the project will increase the public's access to upland facilities via the construction of the 18 slip dinghy dock as well as improve public conveniences onshore by adding shower and laundry facilities.

**d) Please describe any environmental benefits associated with this project.**

Improved water quality by requiring vessels to utilize marine sanitation devices and providing regularly scheduled visits by the Martin Ship Pump Out Operation Program vessel

*(For reviewer only)*

*(1-7 points)*

---

SUB-TOTAL

FIND FORM NO. 91-25

Rule 66B-2.005 (Effective Date: 3-21-01, Revised 4-24-06, 1-27-14)

**ATTACHMENT E-4A  
DEVELOPMENT & CONSTRUCTION PROJECTS**

**WATERWAYS ASSISTANCE PROGRAM  
APPLICATION AND EVALUATION WORKSHEET**

THIS ATTACHMENT IS TO BE COMPLETED IF YOUR PROJECT IS A  
DEVELOPMENT OR CONSTRUCTION PROJECT BUT IS NOT AN INLET  
MANAGEMENT OR BEACH RENOURISHMENT PROJECT.

---

**7) PERMITTING:**

- a) Have all required environmental permits been applied for? (USACE, DEP and WMD)  
If permits are NOT required, explain why not.**

Yes. Environmental permit applications have all been issued.

- b) If the project is a Phase I project, list the tasks scheduled to obtain the necessary permits and engineering work and provide a general cost estimate for the future Phase II work.**

This is not a Phase I project

- c) Detail any significant impediments that may have been identified that would potentially delay the timely issuance of the required permits.**

Permits have been issued for this project.

*(For reviewer only)  
(1-4 points)*

---

**8) PROJECT DESIGN:**

- a) Has the design work been completed? If this is a Phase I project, has a preliminary design been developed?**

The Project permit design has been completed and the permit has been issued.

- b) Are there unique beneficial aspects to the proposed design that enhance public usage or access, minimize environmental impacts, improve water quality or reduce costs?**

The Project has been located in an area easily accessible to the boating public, in that it is adjacent to the ICW and Jensen Beach/Stuart Causeway, both of which accommodate a large number of boaters on a daily basis. The mooring buoy placement, dinghy dock material and placement have all been designed to avoid and minimize environmental impacts through siting in areas devoid of seagrass where possible, incorporating fiberglass grated decking to allow sunlight penetration, and selecting pre-fabricated durable materials to reduce construction costs. The prevention of future derelict vessels at the Project site will enhance overall environmental quality as well as improve aesthetics and use of a Harbormaster will result in all vessels having and using proper sewage systems and local pumpout facilities and help prevent illegal anchoring and/or dumping, which could further adversely impact water quality, aesthetics, and submerged aquatic resources.

*(For reviewer only)*

*(1-2 points)*

---

**9) CONSTRUCTION TECHNIQUES:**

- a) Briefly explain the construction techniques to be utilized for this project. If a Phase 1, elaborate on potential techniques.**

The auger disc type mooring anchors will be placed with diver assistance from a shallow draft barge and the piles for the dinghy docks will be driven into place, not jetted. The dinghy dock will be constructed with light transmitting material to reduce the shading of seagrass in the area

- b) How are the utilized construction techniques appropriate for the project site?**

The proposed mooring field and dinghy dock are located in an area of adequate water depth (6 to 10 feet) to allow for operation of the watercraft for which the mooring field is designed (draft of vessels from 2 to 4.5 feet) without the need for dredging and without the craft having an adverse impact on marine resources. The use of a shallow draft barge, driving the dinghy dock piles rather than jetting them, installation of turbidity curtains around the area of construction and using divers to position the mooring anchors in areas devoid of marine resources will minimize impacts to seagrass and other resources in the vicinity of the Project. Since the dinghy dock will be located in an area that supports seagrass, elevating the access walkway to +6 feet MHW and the use of light transmitting materials will allow sunlight to reach the seagrass under the dock.



- c) **Identify any unusual construction techniques that may increase or decrease the costs of the project.**

The cost of light transmitting decking for the dinghy dock and diver assistance with mooring bouy placement to reduce seagrass impacts will increase costs; however, these increased costs are offset by environmental benefits.

*(For reviewer only)*  
*(1-3 points)*

---

## 10) CONSTRUCTION MATERIALS:

- a) **List the materials to be utilized for this project. What is the design life of the proposed materials compared to other available materials?**

The following design lives are based on past experience but many variables can affect these approximations: Twelve (12) inch diameter concrete piles (design life 15 years), Ultraviolet stabilized fiberglass grated light transmitting decking for the dinghy dock (design life 15 years), Twenty four (24) inch rubber chafing hose and Stormsoft mooring buoy line system (design life 10-15 years), and auger disk anchoring system (design life 25 years).

- b) **Identify any unique construction materials that may significantly alter the project costs.**

Light transmitting material is specified for the decking of the dinghy dock and it is significantly more expensive than normal timber decking but allows sunlight to penetrate to the submerged resources. An auger disk system is being utilized in lieu of concrete anchors to protect seagrasses and to provide added holding strength during storms.

*(For reviewer only)*  
*(1-3 points)*

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**RATING POINT  
 TOTAL** \_\_\_\_\_

(Note: The total maximum score possible is dependent upon the project priority category but cannot exceed 50 points unless the project qualifies as an emergency-related project. The minimum score possible is 10 points. A score of 35 points or more is required to be considered for funding.)

## ATTACHMENT E-5

FLORIDA INLAND NAVIGATION DISTRICT  
ASSISTANCE PROGRAM 2017

## PROJECT COST ESTIMATE

(See Rule Section 66B-2.005 & 2.008 for eligibility and funding ratios)

<b>Project Title:</b>	<u>Jensen Beach Mananged Mooring Field</u>
<b>Applicant:</b>	<u>Martin County Board of County Commissioners</u>

<b>Project Elements</b> <i>(Please list the MAJOR project elements and provide a general cost break out for each one. For Phase I Projects, please list the major elements and products expected)</i>	<b>Quantity Estimated Cost</b> <b>(Number and/or Footage)</b>	<b>Applicant's Cost</b>	<b>FIND Cost</b>
<b>Construction Inspection and Admin</b>	<b>\$ 300,000</b>	<b>\$ 300,000</b>	<b>\$ 0.00</b>
<b>Mooring Field Construction</b> <b>Including dinghy dock, moorings and Harbor Master's upland shower/restroom/laundry facility</b>	<b>\$1,101,140</b>	<b>\$ 599,070</b>	<b>\$ 502,070</b>

<b>**TOTALS =</b>	<b><u>\$1,401,140</u></b>	<b><u>\$ 899,070.00</u></b>	<b><u>\$502,070.00</u></b>
-------------------	---------------------------	-----------------------------	----------------------------

**ATTACHMENT E-6  
WATERWAYS ASSISTANCE**

**PROGRAM 2017 PROJECT**

**TIMELINE**

<b>Project Title:</b>	<u>Jensen Beach Managed Mooring Field</u>
<b>Applicant:</b>	<u>Martin County Board of County Commissioners</u>

The applicant is to present a detailed timeline on the accomplishment of the components of the proposed project including, as applicable, completion dates for: permitting, design, bidding, applicant approvals, initiation of construction and completion of construction.

**NOTE: All funded activities must begin AFTER  
October 1<sup>st</sup>  
(or be consistent with Rule 66B-2.005(3) - Pre-agreement  
expenses)**

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**Design:** The design phase of the project was completed on December 23, 2009.

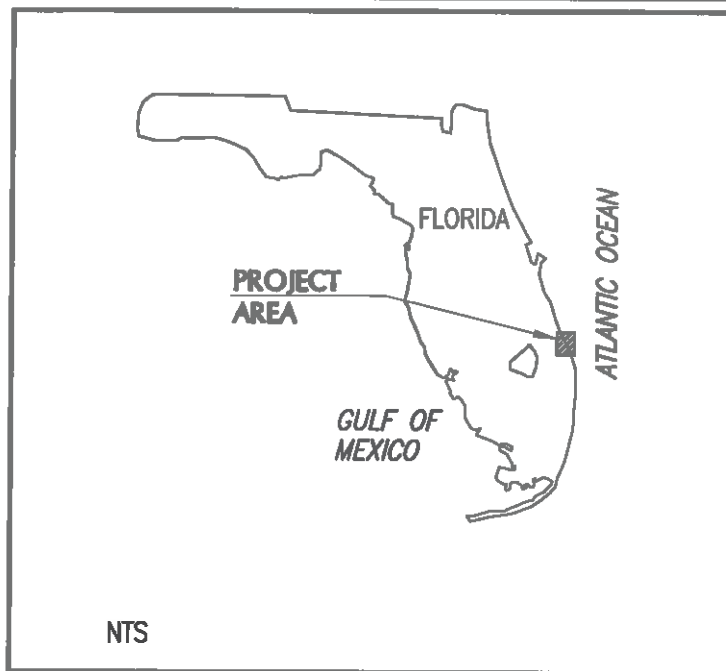
**Permitting Completion:** The environmental permit applications were issued in 2011 and 2012.

**Bidding:** Bidding is expected to be completed by December 31, 2017.

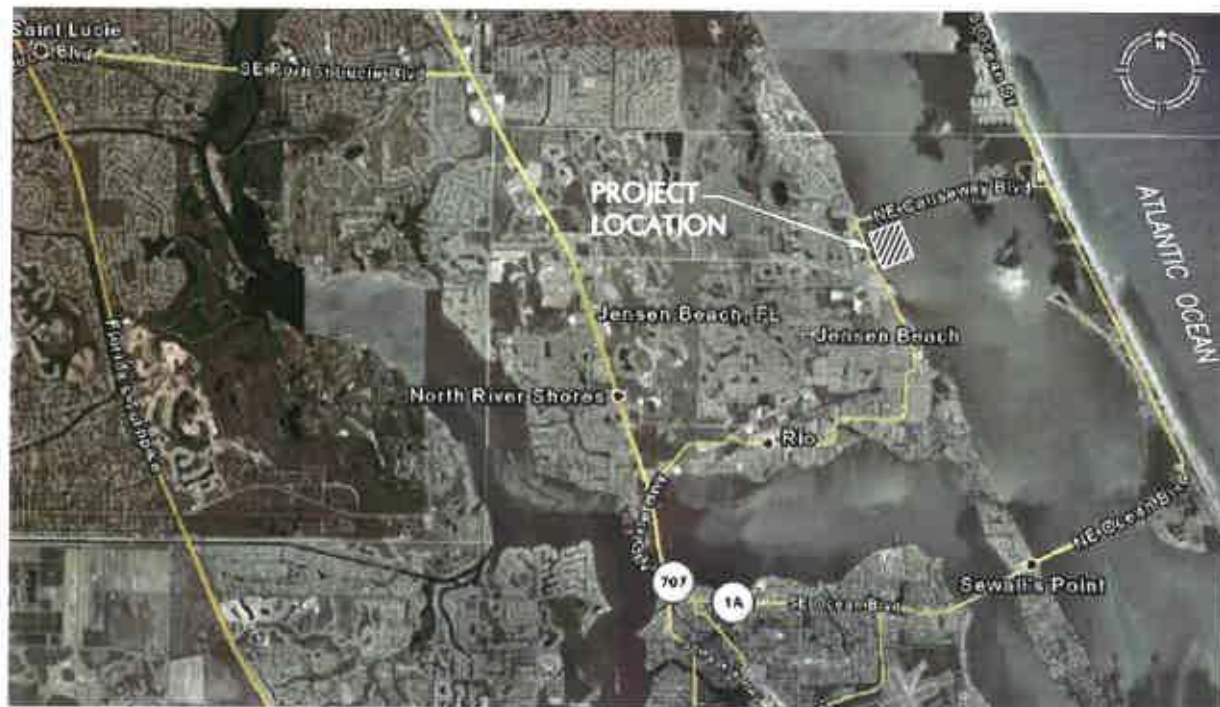
**Initiation of Construction:** Construction is expected to commence in May, 2018.


**Completion of Construction:** Construction is expected to be completed in December 2018.





SHEET INDEX	
Sheet Title	
1	LOCATION MAP
2	EXISTING CONDITIONS
3	MARINE RESOURCES
4	PROPOSED MARINE WORKS
5	RESOURCES & PROPOSED WORK
6	MOORING AREAS LAYOUT
7	MOORING COORDINATE TABLES
8	PROPOSED DOCK
9	PROP. DOCK ELEVATION VIEW
10	TYPICAL DOCK SECTION
11	MOORING SYSTEM DETAIL
12	REGULATORY BUOY DETAIL
13	TURBIDITY CURTAIN
14	TURBIDITY CURTAIN DETAILS
15	UPLAND WORK
16	GENERAL NOTES



T.K. BLANKENSHIP FL. REG. 55910	01/14/11	PERMIT REVISION	APP. NO:		CLIENT:	
	08/03/10	PERMIT REVISIONS	PROJECT NO:	268000.01	MARTIN COUNTY	
	12/24/09	ENV. RESOURCE PERMIT	DATUM:	NAVD 88	2401 SE MONTEREY ROAD	
	DATE:	DESCRIPTION:	DRAWN BY:	SV	STUART, FLORIDA 34996	
			CHECKED BY:	TKB	JENSEN BEACH MOORING FIELD	
SUBMITTED BY:			LOCATION MAP			
 COASTAL SYSTEMS INTERNATIONAL, INC. 464 South Dixie Highway, Coral Gables, Florida 33146 Tel: 305-661-3655 Fax: 305-661-1914 www.CoastalSystemsintl.com STATE OF FLORIDA EB #7087 Coastal, Environmental, Civil Engineering and Management			SHEET 1 OF 16			

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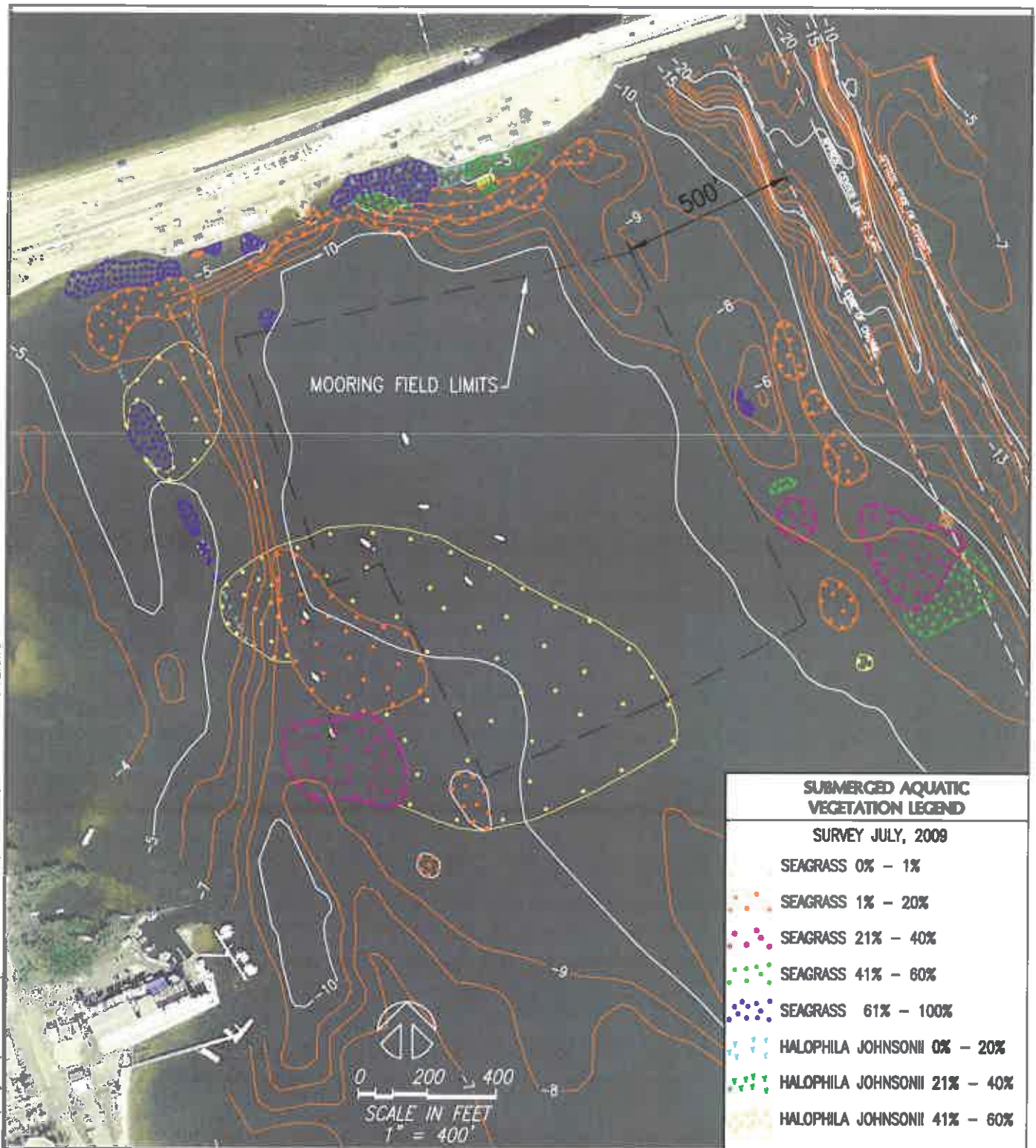


	01/14/11	PERMIT REVISION	APP. NO:		<b>CLIENT:</b> <b>MARTIN COUNTY</b> 2401 SE MONTEREY ROAD STUART, FLORIDA 34996 <b>JENSEN BEACH MOORING FIELD</b>
	06/03/10	PERMIT REVISIONS	PROJECT NO:	268000.01	
	12/24/09	ENV. RESOURCE PERMIT	DATUM:	NAVD 88	
	DATE:	DESCRIPTION:	DRAWN BY:	SV	
	SUBMITTED BY:		CHECKED BY:	TKB	
	<b>COASTAL SYSTEMS INTERNATIONAL, INC.</b> 464 South Dixie Highway, Coral Gables, Florida 33146 Tel: 305-661-3655 Fax: 305-661-1914 www.CoastalSystemsintl.com STATE OF FLORIDA EB #7087 Coastal, Environmental, Civil Engineering and Management				
<b>EXISTING CONDITIONS</b>					
SHEET 2 OF 16					

T.K. BLANKENSHIP  
FL. REG. 55910



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**SUBMERGED AQUATIC  
VEGETATION LEGEND**

SURVEY JULY, 2009

SEAGRASS 0% - 1%

SEAGRASS 1% - 20%

SEAGRASS 21% - 40%

SEAGRASS 41% - 60%

SEAGRASS 61% - 100%

HALOPHILA JOHNSONII 0% - 20%

HALOPHILA JOHNSONII 21% - 40%

HALOPHILA JOHNSONII 41% - 60%

CLIENT:

**MARTIN COUNTY**

 2401 SE MONTEREY ROAD  
STUART, FLORIDA 34996

**JENSEN BEACH MOORING FIELD**
**MARINE RESOURCES**

SHEET 3 OF 16

01/14/11	PERMIT REVISION	APP. NO:	
06/03/10	PERMIT REVISIONS	PROJECT NO:	268000.01
12/24/09	ENV. RESOURCE PERMIT	DATUM:	NAVD 88
DATE:	DESCRIPTION:	DRAWN BY:	SV
		CHECKED BY:	TKB
SUBMITTED BY:			




**COASTAL SYSTEMS INTERNATIONAL, INC.**  
404 South Dade Highway, Coral Gables, Florida 33146  
Tel: 305-661-3655 Fax: 305-661-1914 www.CoastalSystemsInt.com  
STATE OF FLORIDA EB #7087  
Coastal, Environmental, CMI Engineering and Management

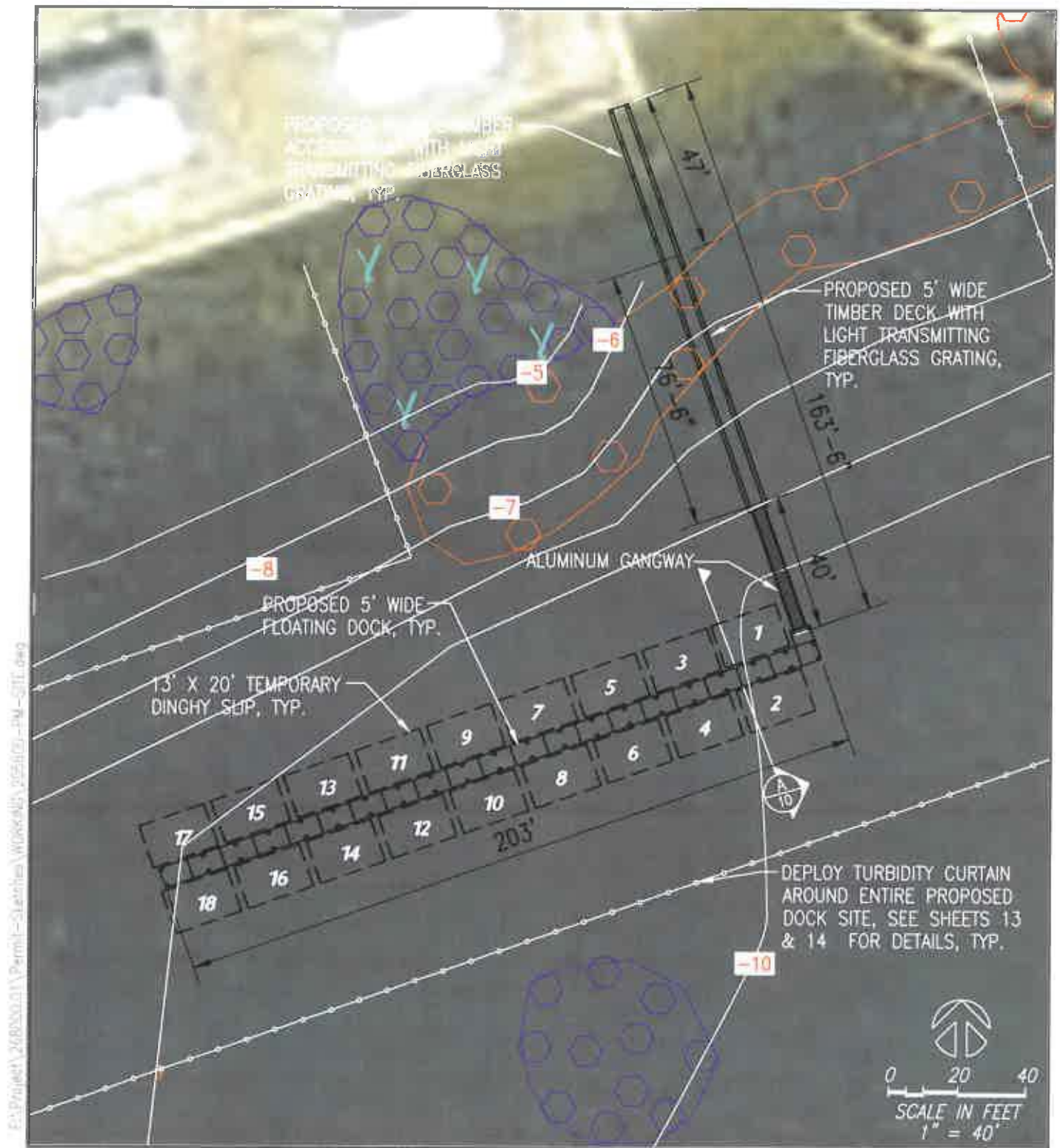
 T.K. BLANKENSHIP  
FL. REG. 55910





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		01/14/11	PERMIT REVISION		PROJECT NO:	268000.01
		09/08/10	DEP REVISION		DATUM:	NAVD 88
		06/03/10	PERMIT REVISIONS		DRAWN BY:	SV
		12/24/09	ENV. RESOURCE PERMIT		CHECKED BY:	TKB
DATE:		DESCRIPTION:	SUBMITTED BY:			
<div style="display: flex; justify-content: space-between;"> <div> <p>T.K. BLANKENSHIP FL REG. 55910</p> </div> <div> <p>SHEET 4 OF 16</p> </div> </div>						



<p>01/14/11 PERMIT REVISION</p> <p>06/03/10 PERMIT REVISIONS</p> <p>12/24/09 ENV. RESOURCE PERMIT</p> <p>DATE: DESCRIPTION:</p>		APP. NO:		<p>CLIENT:</p> <p><b>MARTIN COUNTY</b></p> <p>2401 SE MONTEREY ROAD</p> <p>STUART, FLORIDA 34996</p> <p><b>JENSEN BEACH MOORING FIELD</b></p>
		PROJECT NO:	268000.01	
		DATUM:	NAVD 88	
		DRAWN BY:	SV	
<p>DATE: 12/24/09</p> <p>DESCRIPTION: ENV. RESOURCE PERMIT</p> <p>CHECKED BY: TKB</p>		<p>PROPOSED DOCK</p>		<p>SHEET 8 OF 16</p>
<p>SUBMITTED BY:</p> <p><b>COASTAL SYSTEMS INTERNATIONAL, INC.</b></p> <p>464 South Dade Highway, Coral Gables, Florida 33146</p> <p>Tel: 305-661-3655 Fax: 305-661-1914 www.CoastalSystemsInt.com</p> <p>STATE OF FLORIDA EB #7087</p> <p>Coastal, Environmental, Civil Engineering and Management</p>				

T.K. BLANKENSHIP  
FL REG. 55910





## ATTACHMENT E-2

**WATERWAYS ASSISTANCE PROGRAM FY 2017  
PROJECT APPLICATION  
APPLICANT INFORMATION – PROJECT SUMMARY**

<b>APPLICANT INFORMATION</b>			
<b>Applicant:</b>	Town of Jupiter Island		
<b>Department:</b>	Public Safety Department		
<b>Project Title:</b>	Public Safety Marine Fire Supression		
<b>Project Director:</b>	Robert Garlo	<b>Title:</b>	Public Safety Dept. Chief
<b>Project Liaison:</b> <i>(if different from Project Director)</i>		<b>Title:</b>	
<b>Mailing Address:</b>	2 Bridge Road		
<b>City:</b>	Hobe Sound	<b>Zip Code:</b>	33455
<b>Email Address:</b>	rgarlo@tji.martin.fl.us	<b>Phone #:</b>	(772) 545-0121
<b>Project Address:</b>	Public Safety Marine Unit, River Road, Town of Jupiter Island		

\*\*\*\*\* I hereby certify that the information provided in this application is true and accurate.\*\*\*\*\*

SIGNATURE: Robert Garlo DATE: 3/17/17

**PROJECT NARRATIVE** (Please summarize the project in space provided below in 2 paragraphs or less.)

The Town of Jupiter Island is seeking to bolster its public safety capabilities within the Town's jurisdictional waters surrounding Jupiter Island. The Town, through its Public Safety Department, operates two marine patrol units monitoring and enforcing public navigation law and safety along the waterways. Currently, there is a lack of water-based fire suppression in the area and the Town is advancing towards the purchase of a fire suppression pump which would be mounted onto one of the marine units.

The added fire suppression capability would greatly improve public safety in an area that is highly active for boating along the Intracoastal Waterway. Public safety marine units will be able to greatly reduce response time and be more effective at suppressing vessel or structure fires from the waterside. Jupiter Island's Public Safety Department officers are all certified firefighters and provide the highest level of safety and protection to the public, including non-residential boaters.



## ATTACHMENT E-3 - PROJECT INFORMATION 2017

<b>Applicant:</b>	Town of Jupiter Island	<b>Project Title:</b>	Public Safety Marine Fire Supression		
<b>Total Project Cost: \$</b>	\$34,000	<b>FIND Funding Requested: \$</b>	\$17,000	<b>% of Total Cost:</b>	50%
<b>Amount and Source of Applicant's Matching Funds:</b>	Town of Jupiter Island, General Fund Revenue (\$17,000)				

1. Ownership of Project Site (check one): Own: ☐ Leased: ☐ Other: ☒

2. If leased or other, please describe lease or terms and conditions:

N/A. Patrol area covers waters of the State of Florida.

3. Has the District previously provided assistance funding to this project or site? Yes: ☒ No: ☐

4. If yes, please list:

FIND matching grant funds for rigid inflatable vessel (\$30,000)

5. What is the current level of public access in terms of the number of boat ramps, boat slips and trailer parking spaces, linear feet of boardwalk (etc.)? (as applicable):

N/A. Not associated with specific property improvements.

6. How many additional ramps, slips, parking spaces or other access features will be added by this project?

N/A.

7. Are fees charged for the use of this project? No ☒ Yes ☐ \*\*

\*\*If yes, please attach additional documentation of fees and how they compare with fees from similar public & private facilities in the area.

Please list all Environmental Resource Permits required for this project:

AGENCY	Yes / No / N/A	Date Applied For	Date Recieved
WMD	N/A		
DEP	N/A		
ACOE	N/A		
COUNTY / CITY	N/A		

## ATTACHMENT E-4

**WATERWAYS ASSISTANCE PROGRAM  
APPLICATION AND EVALUATION WORKSHEET**

**DIRECTIONS:** All applicants will complete questions 1 through 6, and then based on the type of project, complete one and only one subsection (E-4A, B, C, D or E) for questions 7-10.

**\*\*Please keep your answers brief and do not change the pagination of Attachment E-4 \*\***

All other sub-attachments that are not applicable to an applicant's project should not be included in the submitted application.

<b>Project Title:</b>	Public Safety Marine Fire Supression
<b>Applicant:</b>	Town of Jupiter Island

---

**1) PRIORITY LIST:**

- a) **Denote the priority list category of this project from Attachment C in the application.** (The application may only be of **one** type based upon the predominant cost of the project elements.)

Priority List Category 14. Waterway boating safety programs and equipment.

- b) **Explain how the project fits this priority category.**

Fire suppression pump to be mounted onto Public Safety marine unit, adding water-based fire fighting capabilities to the public.

*(For reviewer only)*

Max. Available Score for application    44

Question 1. Range of Score    (1 to 2 points)

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**2) WATERWAY RELATIONSHIP:**

- a) **Explain how the project relates to the ICW and the mission of the Navigation District.**

The project will increase the capability of the Public Safety Department to respond to vessel and/or structure fires from the water, meeting the mission of the District priority number 14 by improving waterway boating safety.

- b) **What public access or navigational benefit to the ICW or adjoining waterway will result from this project?**

No direct public access benefit. There will be additional navigation benefits related to improved boating safety along the ICW.

*(For reviewer only)*

*(1-6 points)*

---

**3) PUBLIC USAGE & BENEFITS:**

- a) **How is the public usage of this project clearly identified and quantified? Estimate the amount of total public use.**

N/A

- b) **Discuss the regional and local public benefits that will be provided by the project. Can residents from other counties of the District reasonably access and use the project? Explain.**

By adding a water-based fire suppression system, the improved response time for the south Martin County, north Palm Beach County sections of the ICW will be greatly improved, providing significant public health and safety benefits for both counties.

- c) **Are there any restrictions placed on commercial access or use of this site?**

N/A

*(For reviewer only)*

*(1-8 points)*

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#### 4) TIMELINESS

- a) **Describe current status of the project and present a reasonable and effective timeline for the completion of the project consistent with Attachment E-6.**

An initial quotation for equipment and installation has been received which serves as the basis for the Town's request. Town procurement policy will require three quotes before final action can be taken by the Commission for purchasing the equipment.

- b) **Briefly explain any unique aspects of this project that could influence the project timeline.**

There are no unique aspects of this project that could influence the timeline. The Town is in the process of soliciting additional quotes and anticipates bringing a purchase request before the Commission for approval before the end of August 2017.

*(For reviewer only)*  
*(1-3 points)*

---

#### 5) COSTS & EFFICIENCY:

- a) **List funding sources and the status and amount of the corresponding funding that will be utilized to complete this project.**

The source of the funds (\$34,000) will be General Ad Valorem, collected annually.

- b) **Identify and describe any project costs that may be increased because of the materials utilized or specific site conditions.**

No cost increases are anticipated. The Town's request is based on a quotation received. Other quotes to be requested will be reviewed by the Town for sufficiency in meeting the needs of the Public Safety Department but will not result in a cost increase.

- c) **Describe any methods to be utilized to increase the cost efficiency of this project.**

The Town will evaluate at least two other quotes and will select the lowest price quotation which meets the needs of the Public Safety Department.

- d) **If there are any fees associated with the use of this facility, please detail. In addition, please provide a listing of the fees charged by similar facilities, public and private, in the project area.**

N/A

*(For reviewer only)*  
*(1-6 points)*

---

---

**6) PROJECT VIABILITY:**

- a) **What specific need in the community does this project fill? Is this project referenced or incorporated in an existing maritime management, public assess or comp plan?**

The project fills a gap in water-based fire suppression and response for southern Martin County and northern Palm Beach County. Jupiter Island Public Safety Department is triple-certified and will be able to provide improved fire fighting capabilities for the boating publics, as well as waterfront structures in the event of a fire emergency.

- b) **Clearly demonstrate how the project will continue to be maintained and funded after District funding is completed.**

The Town is committed to operating and maintaining all life saving and fire fighting apparatus which are operated by the Public Safety Department. The fire suppression system to be installed will be maintained per the manufacturer's specifications.

- c) **Will the program result in significant and lasting benefits? Explain.**

The Jupiter Island Public Safety Department currently serves to patrol the waters of the ICW between St. Lucie Inlet and Jupiter Inlet, assisting with enforcement of speed zones as well as responding to the safety needs of the boating public. Adding fire suppression to the marine unit's capabilities will result in significant and lasting public benefits.

- d) **Please describe any environmental benefits associated with this project.**

By reducing or eliminating fire damage and potentially catastrophic losses, there is a potential reduction in spills, release of harmful chemicals during combustion, and other environmental hazards associated with vessel fires.

*(For reviewer only)*  
*(1-7 points)*

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SUB-TOTAL \_\_\_\_\_

FIND FORM NO. 91-25

Rule 66B-2.005 (Effective Date: 3-21-01, Revised 4-24-06, 1-27-14)

**ATTACHMENT E-4C  
LAW ENFORCEMENT & BOATING SAFETY PROJECTS**

**WATERWAYS ASSISTANCE PROGRAM  
APPLICATION AND EVALUATION WORKSHEET**

THIS ATTACHMENT IS TO BE COMPLETED IF YOUR PROJECT IS A LAW  
ENFORCEMENT OR BOATING SAFETY PROJECT

---

**7) VIABILITY:**

- c) Describe how the project will address particular public health, safety, or welfare issues of the Navigation District's Waterways.**

The project fills a gap in water-based fire suppression and response for southern Martin County and northern Palm Beach County. Jupiter Island Public Safety Department is triple-certified and will be able to provide improved fire fighting capabilities for the boating publics, as well as waterfront structures in the event of a fire emergency.

- d) How does the project provide significant benefits or enhancements to the District's Waterways?**

By adding a water-based fire suppression system, the improved response time for the south Martin County, north Palm Beach County sections of the ICW will be greatly improved, providing significant public health and safety benefits for both counties in an area that is highly active for boating along the Intracoastal Waterway.

*(For reviewer only)  
(1-3 points)*

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**8) EXPERIENCE & QUALIFICATIONS:**

- a) List the personnel tasked with the implementation of this project, their qualifications, previous training and experience.**

Robert Garlo, Public Safety Department Chief  
 Baron Taylor, Public Safety Department Corporal  
 Officers Robert Brown and Brad Richards (Marine Patrol Officers)

- b) Have the personnel participated in or received state marine law enforcement training?**

Yes. Each officer of the Public Safety Department is triple-certified in law enforcement, fire and medical response.

The Marine Patrol Unit Officers have additional on-water training and certifications. Certifications can be provided as needed.

*(For reviewer only)*  
*(1-2 points)*

---

**9) DELIVERABLES:**

- a) Describe the anticipated, long-term measurable results of implementing this project.**

The project will institute a new, long-term program capability of water-based fire suppression which will continue indefinitely.

- b) What is the range or area of coverage for this project? Please provide a map of the coverage area.**

The coverage area of the marine unit extends the full length of Jupiter Island from the St. Lucie Inlet south to the Jupiter Inlet, including both the ICW and waters of the Atlantic Ocean. A map is provided for reference.

- c) Does the project fulfill a particular community need?**

The project fills a current gap in water-based fire suppression between southern Martin County and northern Palm Beach County.

*(For reviewer only)*  
*(1-4 points)*

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**10) EDUCATION:**

a) What are the educational benefits (if any) of this proposed project?

N/A

b) How does the project or program provide effective public boating education or expand boater safety?

Boater safety is expanded through an increased capacity to respond to boating emergencies, including vessel fires.

*(For reviewer only)*  
*(1 -3 points)*

---

**RATING POINT  
TOTAL** \_\_\_\_\_

(Note: The total maximum score possible is dependent upon the project priority category but cannot exceed 50 points unless the project qualifies as an emergency-related project. The minimum score possible is 10 points. A score of 35 points or more is required to be considered for funding.)

## ATTACHMENT E-5

**FLORIDA INLAND NAVIGATION DISTRICT  
ASSISTANCE PROGRAM 2017**

## PROJECT COST ESTIMATE

**(See Rule Section 66B-2.005 & 2.008 for eligibility and funding ratios)**

<b>Project Title:</b>	Public Safety Marine Fire Supression
<b>Applicant:</b>	Town of Jupiter Island

<b>Project Elements</b> <i>(Please list the MAJOR project elements and provide general costs for each one. For Phase I Projects, please list the major elements and products expected)</i>	<b>Quantity or Total Estimated Cost</b> <i>(Number and/or Footage etc.)</i>	<b>Applicant's Cost</b>	<b>FIND Cost</b>
DARLEY 64 HP SKID MOUNT FIRE PUMP (OR EQUIVALENT) INCLUDING 3" ANNODIZED DISCHARGE HEAD, FUEL TANK, 12 VOLT PRIMER, MARINIZED ENGINE COATED/TREATED FOR SALTWATER USE, INSTALLED	1 @ \$34,000	\$17,000	\$17,000
<b>**TOTALS =</b>	<b>\$ 34,000</b>	<b>\$ 17,000</b>	<b>\$ 17,000</b>



**ATTACHMENT E-6  
WATERWAYS ASSISTANCE PROGRAM 2017**

**PROJECT TIMELINE**

<b>Project Title:</b>	Public Safety Marine Fire Suppression
<b>Applicant:</b>	Town of Jupiter Island

The applicant is to present a detailed timeline on the accomplishment of the components of the proposed project including, as applicable, completion dates for: permitting, design, bidding, applicant approvals, initiation of construction and completion of construction.

**NOTE: All funded activities must begin AFTER October 1<sup>st</sup>**  
(or be consistent with Rule 66B-2.005(3) - Pre-agreement expenses)

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Approval for the grant funded purchase will occur in Fiscal year 2017/2018.

All purchasing will be conducted in accordance with the Town's purchasing policy.

# Location Map



Project Location:  
Martin County  
Town of Jupiter Island

Patrol 28 miles of waterway, including two inlets and areas of heavy recreational use, manatee slow zones and environmental sensitivity along the Intracoastal Waterway.



Jupiter Island Marine Patrol  
Location and Patrol Area





## ATTACHMENT E-2

**WATERWAYS ASSISTANCE PROGRAM FY 2017  
PROJECT APPLICATION  
APPLICANT INFORMATION – PROJECT SUMMARY**

<b>APPLICANT INFORMATION</b>			
<b>Applicant:</b>	City of Port St. Lucie		
<b>Department:</b>	Public Works		
<b>Project Title:</b>	Riverwalk Boardwalk Extension Project Phase 1		
<b>Project Director:</b>	Colt Schwerdt, P.E.	<b>Title:</b>	Manager, Public Works Dept.
<b>Project Liaison:</b> <i>(if different from Project Director)</i>	Bridget Kean, AICP	<b>Title:</b>	CRA Director
<b>Mailing Address:</b>	121 SW Port St. Lucie Boulevard		
<b>City:</b>	Port St. Lucie, FL	<b>Zip Code:</b>	34984
<b>Email Address:</b>	bkean@cityofpsl.com	<b>Phone #:</b>	772-873-6489
<b>Project Address:</b>	2200 SE Veterans Memorial Parkway, Port St. Lucie, FL 34952		

\*\*\*\*\* I hereby certify that the information provided in this application is true and accurate.\*\*\*\*\*

SIGNATURE: Bridget Kean DATE: 3/27/2017

**PROJECT NARRATIVE** (Please summarize the project in space provided below in 2 paragraphs or less.)

The Riverwalk Boardwalk Extension Project ~~Phase 1~~ will construct approximately 2,200 linear feet of new boardwalk along the North Fork of the St. Lucie River south of Port St. Lucie Boulevard and adjacent to approximately 43 acres of city owned waterfront park land including the Port St. Lucie Botanical Gardens. The North Fork of the St. Lucie River is a state aquatic preserve that runs in a southerly direction through Port St. Lucie then merges with the Indian River Lagoon and the Intercoastal Waterway (ICW) before flowing out the St. Lucie Inlet to the Atlantic Ocean.

The project is being undertaken to enhance public access to the river through the creation of an ADA compliant multi-use recreational corridor along the river. The project will also include eight additional daytime only boat docking slips, two of which will be handicapped accessible and 3 fishing platforms. An existing boardwalk runs alongside the river north of Port St. Lucie Blvd and adjacent to 20 acres of publicly owned riverfront parkland and public boat ramps. A future phase of the project will connect these two areas of boardwalk via a connection under the Port St. Lucie Boulevard bridge to create a one mile ADA compliant multi-use recreational tract along the river. Subsequent phases will add park improvements and infrastructure improvements to the city owned waterfront park land.

**ATTACHMENT E-3 - PROJECT INFORMATION 2017**

<b>Applicant:</b>	City of Port St. Lucie	<b>Project Title:</b>	Riverwalk Boardwalk Extension		
<b>Total Project Cost: \$</b>	\$2,000,000	<b>FIND Funding Requested: \$</b>	\$400,000	<b>% of Total Cost:</b>	20%
<b>Amount and Source of Applicant's Matching Funds:</b>	Approximately \$1.5 million in general revenue funds has been allocated to the City's Capital Improvement Fund by the City Council for Phase 1 construction. If needed, additional funds will come from the Park Impact Fees Fund.				

**1. Ownership of Project Site (check one):** Own: ☒ Leased: ☐ Other: ☐

**2. If leased or other, please describe lease or terms and conditions:**

N/A

**3. Has the District previously provided assistance funding to this project or site?** Yes: ☒ No: ☐

**4. If yes, please list:**

The City received a FIND grant in the amount of \$396,000 in 2007/08 for the existing boardwalk.

**5. What is the current level of public access in terms of the number of boat ramps, boat slips and trailer parking spaces, linear feet of boardwalk (etc.)? (as applicable):**

There are no existing improvements along the river south of Port St. Lucie Boulevard. All existing improvements, including boat ramps, temporary boat docks, and 1,960 linear feet of boardwalk are located north of Port St. Lucie Blvd.

**6. How many additional ramps, slips, parking spaces or other access features will be added by this project?**

Phase 1 will provide 8 additional daytime only boat docking slips, 2 handicapped accessible, 3 fishing platforms and 2,200 linear feet of new boardwalk along the North Fork of the St. Lucie River south of Port St. Lucie Boulevard.

**7. Are fees charged for the use of this project?** No ☒ Yes ☐

**8. If yes, please attach additional documentation of fees and how they compare with fees from similar public & private facilities in the area.**

**Please list all Environmental Resource Permits required for this project:**

AGENCY	Yes / No / N/A	Date Applied For	Date Recieved
WMD	Yes	TBD	TBD
DEP	Yes	TBD	TBD
ACOE	Yes	TBD	TBD
COUNTY / CITY	Yes	01/18/2017	TBD

**ATTACHMENT E-4****WATERWAYS ASSISTANCE PROGRAM  
APPLICATION AND EVALUATION WORKSHEET**

**DIRECTIONS:** All applicants will complete questions 1 through 6, and then based on the type of project, complete one and only one subsection (E-4A, B, C, D or E) for questions 7-10.

**\*\*Please keep your answers brief and do not change the pagination of Attachment E-4 \*\***

All other sub-attachments that are not applicable to an applicant's project should not be included in the submitted application.

<b>Project Title:</b>	Riverwalk Boardwalk Extension Project Phase 1
<b>Applicant:</b>	City of Port St. Lucie

**1) PRIORITY LIST:**

- a) Denote the priority list category of this project from Attachment C in the application.** (The application may only be of **one** type based upon the predominant cost of the project elements.)

Public waterfront parks and boardwalks and associated improvements.

- b) Explain how the project fits this priority category.**

The proposed improvements will provide 2,200 linear feet of new boardwalk, boat docking slips and fishing platforms adjacent to a waterfront park along the North Fork of the St. Lucie River. The St. Lucie River merges with the Indian River Lagoon and the Intercoastal Waterway (ICW) before flowing out the St. Lucie Inlet into the Atlantic Ocean.

*(For reviewer only)*

Max. Available Score for application 45

Question 1. Range of Score (1 to 3 points)



---

**2) WATERWAY RELATIONSHIP:**

- a) Explain how the project directly relates to the ICW and the mission of the Navigation District.**

The proposed project is consistent with ICW's mission to develop waterway access and improvement projects. Currently access to the river in Port St. Lucie is limited to boaters and owners of riverfront properties. The boardwalk will enhance access to the river for all users.

- b) What public access or navigational benefit to the ICW or adjoining waterway will result from this project?**

Phase 1 construction will provide approximately 2,200 linear feet of a multi-use ADA compliant boardwalk, 8 new boat slips and 3 fishing platforms. Upon completion, the boardwalk will provide a one mile recreation tract along the river that will also serve an off-road alternative to busy road crossing.

*(For reviewer only)*

*(1-6 points)*

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**3) PUBLIC USAGE & BENEFITS:**

- a) How is the public usage of this project clearly identified and quantified? Estimate the amount of total public use.**

The project is being undertaken by the City of Port St. Lucie to provide enhanced public access to the river and additional river related activities. Public usage will be quantified by number of visitors to the area, attendees at city events, and public use of parking spaces and boat docking areas.

- b) Discuss the regional and local public benefits that will be provided by the project.**

The project is intended to promote the North Fork of the St. Lucie River as a destination in Port St. Lucie and to be utilized by the public, both residents and non-residents of the City, for recreational purposes. No permit or fee is required to use the boardwalk, city boat slips, boat ramps, or parking areas. These facilities are free and provided to the public on first come first served basis.

- c) Can residents from other counties of the District reasonably access and use the project? Explain.**

The project is being constructed as a public benefit on publicly owned land. The project will provide additional boat docking areas and boardwalk connections adjacent to privately owned commercial properties to support waterfront restaurants and encourage private investment in adjacent commercial areas. There will be no restrictions placed on commercial access or use.

*(For reviewer only)*

*(1-8 points)*

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#### 4) TIMELINESS

- a) Describe current status of the project and present a reasonable and effective timeline for the completion of the project consistent with Attachment E-6.**

A site plan for all phases has been submitted to the City for review and City Council approval. Approximately 30% of the construction drawings are complete. The project timeline for Phase 1 is shown on Attachment E-6.

- b) Briefly explain any unique aspects of this project that could influence the project timeline.**

The City does not anticipate any issues with the Phase 1 timeline. The proposed boardwalk extension/connection under Port St. Lucie Blvd. bridge is scheduled for a future phase. The bridge is a state facility and the City is working with FDOT to obtain public access agreements.

*(For reviewer only)*

*(1-3 points)*

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#### 5) COSTS & EFFICIENCY:

- a) List funding sources and the status and amount of the corresponding funding that will be utilized to complete this project.**

Approximately \$1.5 million in general revenue funds has been allocated to the City's Capital Improvement Fund by the City Council for Phase 1 construction. If needed, additional funds will come from the Park Impact Fees Fund.

- b) Identify and describe any project costs that may be increased because of the materials utilized or specific site conditions.**

It is possible that additional geotechnical borings may be required in the construction of the boardwalk. Electric lighting is proposed for the boardwalk extension to the south due to reliability issues with the solar lighting fixtures on the existing boardwalk to the north.

- c) Describe any methods to be utilized to increase the cost efficiency of this project.**

Cost efficiency is increased through choice of construction materials and approach. The City will utilize an internal project manager to monitor construction and engineering and will be involved throughout the project.

- d) If there are any fees associated with the use of this facility, please detail. In addition, please provide a listing of the fees charged by similar facilities, public and private, in the project area.**

There are no fees associated with the use of the boardwalk, boat slips or fishing platforms. The only similar facility is located approximately 8 -10 miles away.

*(For reviewer only)*

*(1-6 points)*

---

**6) PROJECT VIABILITY:**

- a) What specific need in the community does this project fill? Is this project referenced or incorporated in an existing maritime management, public assess or comp plan?**

Public access to the river is limited due to most waterfront land in the city being privately owned or publicly owned and reserved for stormwater management or preservation. This project fulfills a need by providing greater access to the river for the non-boating public. It also provides additional facilities for boaters in the form of day use docking areas and fishing platforms. The project is identified in the City of Port St. Lucie's Strategic Plan and the 2014 Martin and St. Lucie Regional Waterways Plan.

- b) Clearly demonstrate how the project will continue to be maintained and funded after District funding is completed.**

The project will be included in the City's property inventory and maintained by the Parks and Recreation Department which is funded through the City's General Fund.

- c) Will the program result in significant and lasting benefits? Explain.**

When fully constructed, the Port St Lucie Riverwalk boardwalk will provide a mile long recreational corridor along a state aquatic preserve for the benefit of present and future generations. It will provide opportunities for wildlife viewing, fishing, and recreation. The extension of the boardwalk under the Port St. Lucie Boulevard Bridge will provide an alternative for pedestrians and bicyclists to cross one of the busiest arterial roadways in the city.

- d) Please describe any environmental benefits associated with this project.**

As a state aquatic preserve, the North Fork of the St. Lucie River supports a variety of federally and state-protected species and provides habitat for a variety of fish. The boardwalk is being designed to avoid and minimize impacts to the mangrove shoreline.

*(For reviewer only)*  
*(1-7 points)*

SUB-TOTAL \_\_\_\_\_

FIND FORM NO. 91-25

Rule 66B-2.005 (Effective Date: 3-21-01, Revised 4-24-06, 1-27-14)



**ATTACHMENT E-4A  
DEVELOPMENT & CONSTRUCTION PROJECTS**

**WATERWAYS ASSISTANCE PROGRAM  
APPLICATION AND EVALUATION WORKSHEET**

THIS ATTACHMENT IS TO BE COMPLETED IF YOUR PROJECT IS A  
DEVELOPMENT OR CONSTRUCTION PROJECT BUT **IS NOT** AN INLET  
MANAGEMENT OR BEACH RENOURISHMENT PROJECT.

**7) PERMITTING:**

- a) Have all required environmental permits been applied for? If permits are NOT required, explain why not.**

The project is in the preliminary stage. Permits are anticipated to be applied for May 2017.

- b) If the project is a Phase I project, list the tasks scheduled to obtain the necessary permits and engineering work. Please provide a general cost estimate for the future Phase II work.**

Permit submittals will be made to the agencies listed on Attachment E-3 (SFWMD, FDEP, ACOE, FF&W, SHPO) The tasks required for permit submittal include topographic survey, geotechnical exploration, structural design, boardwalk and dock design, construction plan preparation. The estimated cost for the construction of the boardwalk, floating dock facilities and fishing platforms is approximately \$2.0 million (Phase 1). The estimated costs for all future phases of the project is approximately \$3.5 to \$4 million.

- c) Detail any significant impediments that may have been identified that would potentially delay the timely issuance of the required permits.**

There are no impediments that would potentially delay the timely issuance of the required permits for Phase 1. We have conducted pre-application meetings with all permitting agencies and have received information from each that the project meets the public needs portion of the application process.

*(For reviewer only)  
(1-4 points)*

---

**8) PROJECT DESIGN:**

- a) Has the design work been completed? If this is a Phase I project, has a preliminary design been developed?**

The preliminary design has been completed and submitted to the City for approval. The final design is currently underway and anticipated for completion in late March 2017.

- b) Are there unique beneficial aspects to the proposed design that enhance public usage or access, minimize environmental impacts, improve water quality or reduce costs?**

Yes, the boardwalk, floating docks and fishing platforms will provide enhance public use of the North Fork of the St. Lucie River. The proposed improvements will be designed to minimize and lessen the impact to wetlands and mangrove areas.

*(For reviewer only)*  
*(1-2 points)*

---

**9) CONSTRUCTION TECHNIQUES:**

- a) Briefly explain the construction techniques to be utilized for this project. If a Phase 1, elaborate on potential techniques.**

The construction of the boardwalk, floating docks and fishing platforms will be constructed from barge mounted equipment. Piles will be driven from the barge as well as the construction of the boardwalk sub and superstructure.

- b) How are the utilized construction techniques appropriate for the project site?**

The use of barge mounted equipment is appropriate as the location of the boardwalk is adjacent to mangrove wetlands. Wetland/mangrove impact avoidance will be achieved by the use of the barge mounted equipment.

- c) Identify any unusual construction techniques that may increase or decrease the costs of the project.**

The proposed boardwalk, floating docks and fishing platforms will be constructed from the river utilizing barge mounted equipment to avoid impacts to wetland and mangrove areas.

*(For reviewer only)*  
*(1-3 points)*

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**10) CONSTRUCTION MATERIALS:**

- a) List the materials to be utilized for this project. What is the design life of the proposed materials compared to other available materials?**

Poly wrapped pressure treated wooden piles, pressure treated wooden substructure, composite deck and railings, aluminum floating docks and gangways.

The estimated life span of the materials is 50 years. This is much longer than the average of 10 to 15 years life expectancy of pressure treated decking and railings.

- b) Identify any unique construction materials that may significantly alter the project costs.**

The use of composite decking and rails and aluminum floating docks and gangways will increase cost over the conventional pressure treated lumber, however the materials will require less maintenance and have an extended life. The use of floating aluminum docks and gangways will allow better access to the project for boat traffic. The use of the aluminum will provide for extended useful life of the facility as well as decreased maintenance costs.

*(For reviewer only)*  
*(1-3 points)*

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**RATING POINT  
TOTAL** \_\_\_\_\_

(Note: The total maximum score possible is dependent upon the project priority category but cannot exceed 50 points unless the project qualifies as an emergency-related project. The minimum score possible is 10 points. A score of 35 points or more is required to be considered for funding.)



**ATTACHMENT E-5****FLORIDA INLAND NAVIGATION DISTRICT  
ASSISTANCE PROGRAM 2017****PROJECT COST ESTIMATE****(See Rule Section 66B-2.005 & 2.008 for eligibility and funding ratios)**

<b>Project Title:</b>	Riverwalk Boardwalk Extension Project
<b>Applicant:</b>	City of Port St. Lucie

<b>Project Elements</b> <i>(Please list the MAJOR project elements and provide general costs for each one. For Phase I Projects, please list the major elements and products expected)</i>	<b>Quantity or Total Estimated Cost</b> <i>(Number and/or Footage etc.)</i>	<b>Applicant's Cost</b>	<b>FIND Cost</b>
Boardwalk Construction (10' Wide) 20,000 SF @ \$75.00/SF	\$1,500,000	\$1,125,000	\$375,000
Lighting Fixtures 20 @ \$5,000 Each	\$100,000	\$100,000	\$0
Potable Water along Boardwalk 2,000 LF @ \$25.00/LF	\$50,000	\$50,000	\$0
Boardwalk Connection Tract E 5,000 SF @ \$50.00/SF	\$250,000	\$225,000	\$25,000
Floating Docks 4 @ \$20,000 Each	\$80,000	\$80,000	\$0
Aluminum Gangways 2 @ \$10,000 Each	\$20,000	\$20,000	\$0

<b>**TOTALS =</b>	<b>\$2,000,000</b>	<b>\$1,600,000</b>	<b>\$400,000</b>
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**ATTACHMENT E-6  
WATERWAYS ASSISTANCE PROGRAM 2017**

**PROJECT TIMELINE**

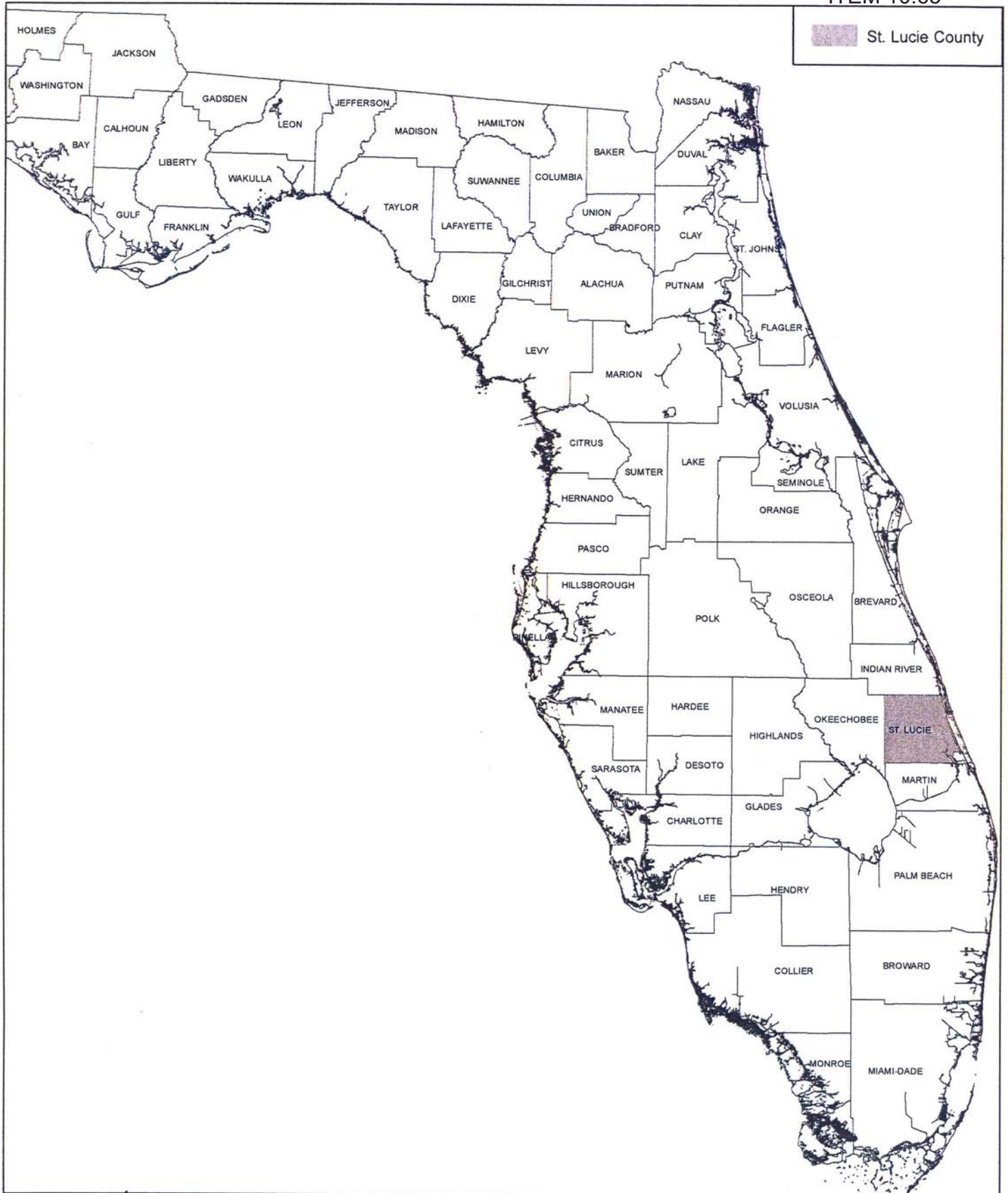
<b>Project Title:</b>	Riverwalk Boardwalk Extension Project Phase 1
<b>Applicant:</b>	City of Port St. Lucie

The applicant is to present a detailed timeline on the accomplishment of the components of the proposed project including, as applicable, completion dates for: permitting, design, bidding, applicant approvals, initiation of construction and completion of construction.

**NOTE: All funded activities must begin AFTER October 1<sup>st</sup>**  
(or be consistent with Rule 66B-2.005(3) - Pre-agreement expenses)

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<b><u>Task</u></b>	<b><u>Milestone Date</u></b>
Design Commencement	09/22/2016
Preliminary Design (Site Plan)	01/18/2017
Site Plan Approval by City Council	04/24/2017
Final Design (Construction Plan)	04/19/2017
Permit Submittals (SFWMD, ACOE, FDEP)	05/15/2017
Permit Approval	09/30/2017
Sealed Bid	11/01/2017
Construction Commencement	01/15/2018
Final Construction (Phase 1)	09/30/2018



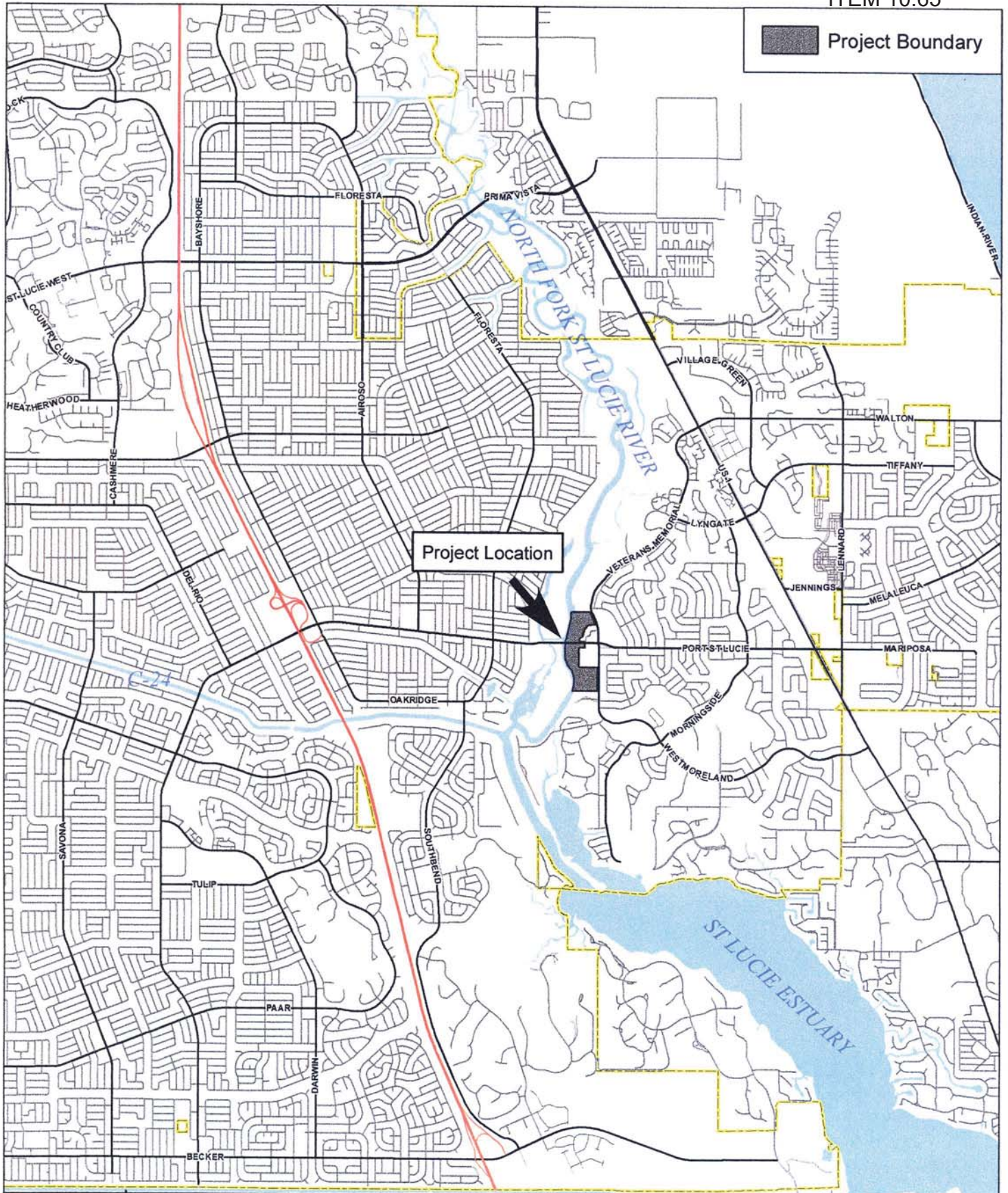
St. Lucie County



# St. Lucie County

Date: 2/24/2017	
Page: 1 of 1	
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Project Location

Project Boundary



# **Riverwalk Boardwalk Extension Project Location**

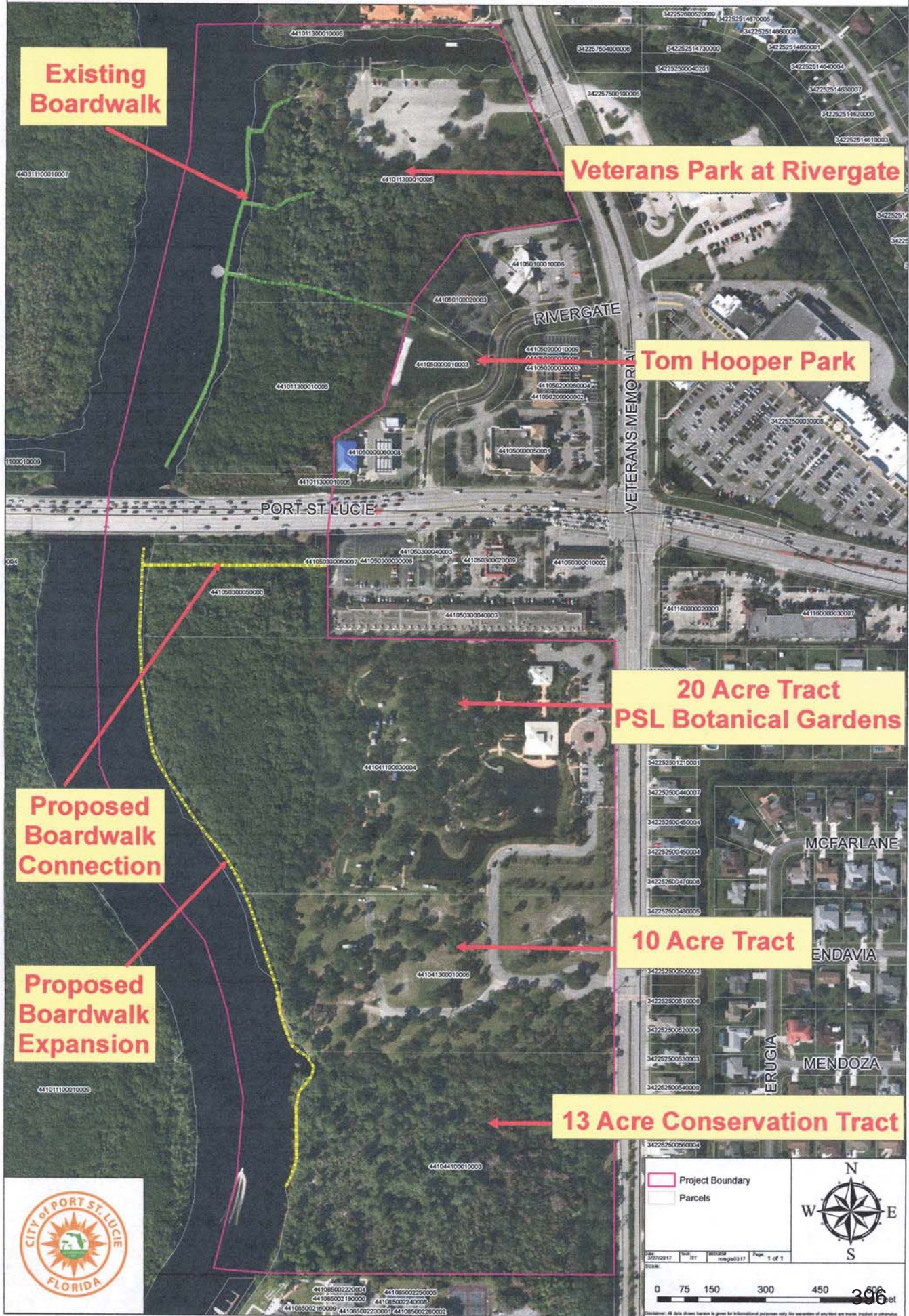
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0317



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# Riverwalk Boardwalk Extension Project Boundary ITEM 10.65



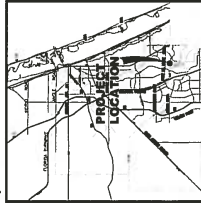




**lucido & associates**

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(954) 551-1000  
1000 E. Las Olas Blvd., Suite 1000, Fort Lauderdale, FL 33304  
(954) 551-1000

Key Location:



NTS

Project Team:



CITY OF FORT LUDIE  
1000 E. Las Olas Blvd., Suite 1000  
Fort Lauderdale, FL 33304  
(954) 551-1000



**Ardaman & Associates, Inc.**  
1000 E. Las Olas Blvd., Suite 1000  
Fort Lauderdale, FL 33304  
(954) 551-1000



City of Fort St. Lucie, Florida  
**Riverwalk Boardwalk and  
Westmoreland Park**

Project Areas

Date By Description



SCALE 1" = 100'

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Sheet  
**1 of 1**

Project Name: Riverwalk Boardwalk and Westmoreland Park

Project Number: 10.65

Computer File: 10.65.dwg

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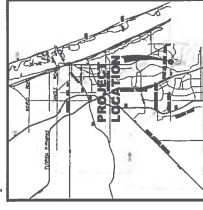






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 (954) 588-0001 Fax: (954) 588-0002  
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Key / Location:



Project Team:



CITY OF FORT ST. LUCIE  
 1775 22nd St., Suite 200  
 Fort Lauderdale, FL 33305  
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**Ardaman & Associates, Inc.**  
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 (954) 588-0001 Fax: (954) 588-0002



City of Fort St. Lucie, Florida  
 Riverwalk Boardwalk and  
 Westmoreland Park  
 Project Phasing

Date By Description

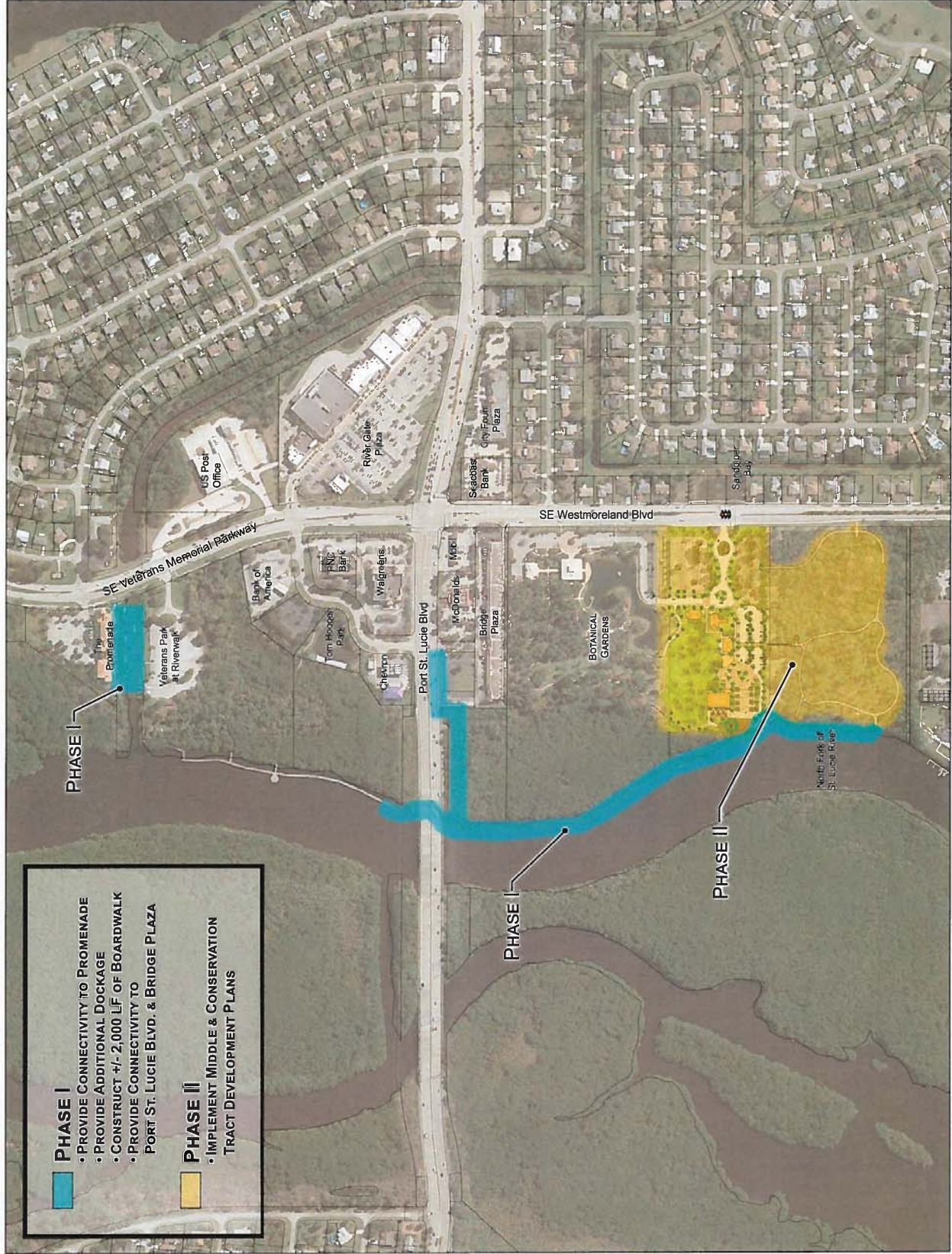


SCALE: 1" = 111.1' REG. # 1018  
 Thomas P. Lucido

Sheet  
 Designer  
 Manager  
 Project Number  
 Municipal Number  
 Computer File  
 Project Name (logos only)

1 of 1

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lucido & associates

7775 225 2165, Fax: 772 225 2259  
7775 225 2165, Fax: 772 225 2259  
432 West Palm Beach, Florida 33409  
432 West Palm Beach, Florida 33409

Key / Location:



Project Team:



City of Port St. Lucie, Florida  
Riverwalk Boardwalk and  
Westmoreland Park  
The Promenade

Date By Description



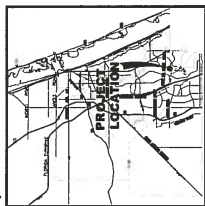
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REG # 1018  
Thomas P. Lucido

Sheet  
1 of 1

Project team logo: dng  
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SCALE 1" = 1018

Designer \_\_\_\_\_  
 Manager \_\_\_\_\_  
 Project Number \_\_\_\_\_  
 Municipal Number \_\_\_\_\_  
 Computer File \_\_\_\_\_  
 Project team logos dwg

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**Lucido & Associates**

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 (954) 587-1200 Fax (954) 587-1201  
 8700 North Dixie Avenue, Suite 1000  
 Fort Lauderdale, FL 33304 (954) 587-1200

Key / Location:



N.T.S.

Project Team:



City of Port St. Lucie, Florida  
**Riverwalk Boardwalk and  
 Westmoreland Park**  
 MIDDLE PARCEL

Date By Description



SCALE: 1" = 100'



REG. # 1018  
 Thomas P. Lucido

Sheet  
**1 of 1**

Designer  
 Manager  
 Project Number  
 Municipal Number  
 Computer File

Graphic/Redlines.dwg

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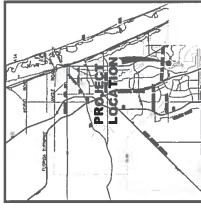




lucido & associates

101 Collins Blvd., Suite 100, Fort St. Lucie, FL 34942  
Tel: 888-333-3333 Fax: 888-333-3333  
www.lucidoassociates.com

Key / Location:



Project Team:



City of Port St. Lucie, Florida  
Riverwalk Boardwalk and  
Westmoreland Park  
Conservation Tract

Date By Description



SCALE 1" = 111.1'

REG. # 1018  
Thomas P. Lucido

Sheet

1 of 1

Project Item Log: Log

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## ATTACHMENT E-2

**WATERWAYS ASSISTANCE PROGRAM FY 2017  
PROJECT APPLICATION  
APPLICANT INFORMATION – PROJECT SUMMARY**

<b>APPLICANT INFORMATION</b>			
<b>Applicant:</b> St. Lucie County Board of County Commissioners			
<b>Department:</b> Public Works			
<b>Project Title:</b> Fisherman's Wharf Bulkhead Construction (Phase 2)			
<b>Project Director:</b> Don West, P.E.		<b>Title:</b>	Public Works Director
<b>Project Liaison:</b> <i>(if different from Project)</i> Kyle Croce, P.E.		<b>Title:</b>	Port Engineer
<b>Mailing Address:</b>		2300 Virginia Avenue, Room 229 - Engineering	
<b>City:</b> Fort Pierce		<b>Zip Code:</b>	34982
<b>Email Address:</b> crocek@stlucieco.org		<b>Phone #:</b>	772-462-1491
<b>Project Address:</b>		Port of Fort Pierce, Fort Pierce, Florida	

\*\*\*\*\* I hereby certify that the information provided in this application is true and accurate. \*\*\*\*\*

SIGNATURE:  DATE: 3/29/2017

<p><b>PROJECT NARRATIVE</b> (Please summarize the project in space provided below in 2 paragraphs or less.)</p> <p>St Lucie County seeks FIND assistance for the Phase 2 construction of infrastructure improvements at Fisherman's Wharf in the Port of Fort Pierce. This project will include the replacement and construction of Fisherman's Wharf bulkhead, as well as replacements and expansion of the deteriorated Black Pearl boat ramp to create safe and improved recreational boat launching and parking.</p> <p>This project is part of a continuing planning effort between FIND, FDOT District IV and a collaborative effort between St. Lucie County and the City of Fort Pierce. Fisherman's Wharf is currently heavily utilized for access to the Intracoastal Waterway, Indian River Lagoon, Fort Pierce Inlet and the Atlantic Ocean. All existing Facilities are aging or in disrepair. The intent of the project is to replace the aging infrastructure and increase, improve, and provide safe public access to the ICW. The ultimate objective of the project is to construct a new bulkhead and boat ramp facility and dredge the basin, as well as provide for improvements to surrounding parking areas, roadway access, boat slips, and lands for increased recreational activities, job creation and regional economic development.</p>
---



## ATTACHMENT E-3 - PROJECT INFORMATION 2017

<b>Applicant:</b> St. Lucie County, BOCC	<b>Project Title:</b> Fisherman's Wharf Bulkhead Construction (Phase 2)	
<b>Total Project Cost:</b> \$ 4,300,000	<b>FIND Funding Requested:</b> \$ 397,750	<b>% of Total Cost:</b> 9.25%
<b>Amount and Source of Applicant's Matching Funds:</b>  <b>FSTED:</b> \$3,225,000 <b>FWC-FBIP:</b> \$337,500 <b>St. Lucie County:</b> \$339,750		

1. Ownership of Project Site (check one): Own: ☒ Leased: ☐ Other: ☐

2. If leased or other, please describe lease or terms and conditions:

N/A

3. Has the District previously provided assistance funding to this project or site? Yes: ☒ No: ☐

4. If yes, please list:

FIND has provided Phase 1 Waterways Assistance Grant Funding in 2016 (\$316,000) for the design of the bulkhead and permitting for dredging.

5. What is the current level of public access in terms of the number of boat ramps, boat slips and trailer parking spaces, linear feet of boardwalk (etc.)? (as applicable):

There is currently about 755 feet of deteriorating bulkhead, 2 boat ramps, 12 Trailer Parking spaces, 1,000 feet of public road and parking in the overflow unimproved parking lot.

There were 37 boat slips, but they have been closed, due to considerable deterioration.

6. How many additional ramps, slips, parking spaces or other access features will be added by this project?

The final project design will determine the exact number of new slips, boardwalk, and bulkhead linear footage. We do anticipate an expansion of the 2 boat ramps in the final design that will provide safer and easier launching and improve trailer parking.

7. Are fees charged for the use of this project? No ☒ Yes ☐ \*\*

\*\*If yes, please attach additional documentation of fees and how they compare with fees from similar public & private facilities in the area.

Please list all Environmental Resource Permits required for this project:

AGENCY	Yes / No / N/A	Date Applied For	Date Received
WMD	No	N/A	N/A
DEP	Yes	Anticipated – June 2017	Anticipated Sept. 2017
ACOE	Yes	Anticipated – June 2017	Anticipated Sept. 2017
COUNTY / CITY	No	N/A	N/A

**ATTACHMENT E-4****WATERWAYS ASSISTANCE PROGRAM  
APPLICATION AND EVALUATION WORKSHEET**

**DIRECTIONS:** All applicants will complete questions 1 through 6, and then based on the type of project, complete one and only one subsection (E-4A, B, C, D or E) for questions 7-10.

**\*\*Please keep your answers brief and do not change the pagination of Attachment E-4\*\***

All other sub-attachments that are not applicable to an applicant's project should not be included in the submitted application.

<b>Project Title:</b>	Fisherman's Wharf Bulkhead Construction (Phase 2)
<b>Applicant:</b>	St. Lucie County Board of County Commissioners

**1) PRIORITY LIST:**

- a) **Denote the priority list category of this project from Attachment C in the application.** (The application may only be of one type based upon the predominant cost of the project elements.)

#7 – Acquisition, Dredging, Shoreline Stabilization and Development of Public Boat Ramps, etc.

- b) **Explain how the project fits this priority category.**

This phase of the project is the construction of the Fisherman's Wharf Bulkhead, with improvement and expansion of the boat ramp facility and trailer parking in an effort to improve boater safety.

*(For reviewer only)*

Max. Available Score for application 47

*Question 1. Range of Score (1 to 5 points)*

---

**2) WATERWAY RELATIONSHIP:**

- a) **Explain how the project relates to the ICW and the mission of the Navigation District.**  
The Port of Fort Pierce and Fisherman's Wharf are directly adjacent to and provide direct access to the ICW, Indian River Lagoon, and Fort Pierce Inlet.
- b) **What public access or navigational benefit to the ICW or adjoining waterway will result from this project?**  
The project once designed will enhance the public access to the ICW by providing major improvements to the existing boat ramps and docking facility infrastructure.

*(For reviewer only)*  
*(1-6 points)*

---

**3) PUBLIC USAGE & BENEFITS:**

- a) **How is the public usage of this project clearly identified and quantified? Estimate the amount of total public use.**  
This project is 100 % accessible by the public.
- b) **Discuss the regional and local public benefits that will be provided by the project. Can residents from other counties of the District reasonably access and use the project? Explain.**  
Regionally, the improvements will enhance anyone's access to the ICW – Locally, the improvements will enhance the local infrastructure, access to the ICW along with helping make Fisherman's Wharf more compatible with improvements made in downtown Fort Pierce, resident and visitors from all counties can access this site.
- c) **Are there any restrictions placed on commercial access or use of this site?**  
No. After rehabilitation, the access will be completely open to the public.

*(For reviewer only)*  
*(1-8 points)*

---



---

#### 4) TIMELINESS

- a) **Describe current status of the project and present a reasonable and effective timeline for the completion of the project consistent with Attachment E-6.**

The design and permitting of the Fisherman's Wharf Roadway Improvements started July 2016 and is anticipated to be under construction in August of 2018.

The evaluation of the Fisherman's Wharf Bulkhead, Boat Ramp, and Trailer Parking started November 2016, and design/permitting is anticipated to be completed by September 2017. Construction of all work is anticipated in 2018.

- b) **Briefly explain any unique aspects of this project that could influence the project timeline.**

We do not expect any aspects to affect this project timeline.

*(For reviewer only)*

*(1-3 points)*

---

#### 5) COSTS & EFFICIENCY:

- a) **List funding sources and the status and amount of the corresponding funding that will be utilized to complete this project.**

Current funding sources, status, and amounts are listed below:

Project – Fisherman's Wharf Roadway Improvements Design

Source – FDOT District IV Match Grant Funds, Status – funds awarded, Amount – \$125,000  
SLC Status – budgeted, Amount – \$125,000

Project – Fisherman's Wharf Bulkhead Design and Dredging Permit

Source – FIND Grant Funds Status – Awarded, Amount – \$316,000  
SLC Status – Budgeted, Amount – \$380,000  
FSTED Match Grant Funds Status – Awarded (\$225,000)  
SLC Status – Budgeted, Amount – (\$75,000)

Project – Fisherman's Wharf Bulkhead & Ramp Construction

Source – FIND Grant Funds Status – Amount – \$400,000  
SLC Status – Budgeted, Amount – \$675,000  
FSTED Match Grant Funds Status – Awarded (\$3,225,000)

- b) **Identify and describe any project costs that may be increased because of the materials utilized or specific site conditions.**

Utilities behind the wall and potential connection to the bulkhead may impact costs.

- c) **Describe any methods to be utilized to increase the cost efficiency of this project.**

The County will evaluate bidding the various aspects depending on land-based and water-based aspects to minimize cost. These are not all known at this time.

- d) **If there are any fees associated with the use of this facility, please detail. In addition, please provide a listing of the fees charged by similar facilities, public and private, in the project area.**  
Currently there are no fees for use of this current ramp and associated parking facility. The marina is currently closed due to extensive damage during Hurricane Matthew.

*(For reviewer only)*

*(1-6 points)*

---

**6) PROJECT VIABILITY:**

- a) What specific need in the community does this project fill? Is this project referenced or incorporated in an existing maritime management, public access or comp plan?**

The project is part of the economic redevelopment plan for St. Lucie County and the City of Fort Pierce. The project is expected to transform the Fisherman's Wharf area into a destination site for light industrial, small cargo, transportation, boating and fishing, commercial restaurant/hotel, and tourism. The project is referenced in the Port of Fort Pierce Master Plan Update 2013, and the Fisherman's Wharf Development Study 2015. The project is also listed on the St. Lucie County Transportation Planning Organization's Strategic Intermodal System (SIS) Needs Plan, and the FDOT District IV SIS Unfunded Needs Plan.

- b) Clearly demonstrate how the project will continue to be maintained and funded after District funding is completed.**

The County is the Port Authority for the Port of Fort Pierce and will continue to be administrators for maintenance and improvement projects. The interlocal agreement between the City of Ft. Pierce and St. Lucie County is provided in this package. The project is within the city limits of Fort Pierce. The City of Fort Pierce will maintain the roadways and rights-of-ways in the area, including the improved stormwater management system. The local utility company (Fort Pierce Utility Authority, FPUA) will maintain the improved water, wastewater, electric, and gas utilities.

- c) Will the program result in significant and lasting benefits? Explain.**

The project once designed and constructed, will transform the Fisherman's Wharf and Port of Fort Pierce into an economic hub for the City of Fort Pierce and St. Lucie County. Once the roadway and utilities improvements are accomplished, businesses will have the opportunity to invest in the area, providing jobs and services to the community. Fisherman's Wharf will be in the impetus needed to bring greater mixed use and public to this location and will lead to public-private opportunities at this and abutting Port facilities. The development of the roadway, bulkhead, improved boat ramp, parking, and dredging will prepare the area for increased light industrial and commercial businesses, yet maintaining full public access and use.

- d) Please describe any environmental benefits associated with this project.**

The design and construction of the roadway improvements and utilities upgrades will provide better stormwater management and treatment for the area, ultimately improving discharge of stormwater to the Indian River Lagoon and ICW. Dredging is certainly a long term benefit as well, due to the removal of fine-grained organic bearing (muck) sediment. In addition, the replacement of the existing bulkhead will eliminate the source of upland soil continually washing into the basin and the adjacent ICW.

*(For reviewer only)*  
*(1-7 points)*

---

SUB-TOTAL \_\_\_\_\_



**ATTACHMENT E-4A  
DEVELOPMENT & CONSTRUCTION PROJECTS**

**WATERWAYS ASSISTANCE PROGRAM  
APPLICATION AND EVALUATION WORKSHEET**

THIS ATTACHMENT IS TO BE COMPLETED IF YOUR PROJECT IS A  
DEVELOPMENT OR CONSTRUCTION PROJECT BUT IS NOT AN INLET  
MANAGEMENT OR BEACH RENOURISHMENT PROJECT.

**7) PERMITTING:**

- a) **Have all required environmental permits been applied for? (USACE, DEP and WMD)**

**If permits are NOT required, explain why not.**

Permits are being applied for through USA COE and FDEP for the construction of the bulkhead and modifications to the boat ramp. Permit applications will be submitted in June 2017 and are expected to be received by September 2017. We anticipate an exemption notice as we are replacing both the bulkhead and ramp system.

- b) **If the project is a Phase I project, list the tasks scheduled to obtain the necessary permits and engineering work and provide a general cost estimate for the future Phase II work.**

FIND provided the phase 1 funding.

The first part of the construction (bulkhead and boat ramp) requires permitting from USA COE and FDEP.

Phase II construction costs are estimated at \$4,300,000

- c) **Detail any significant impediments that may have been identified that would potentially delay the timely issuance of the required permits.**

No delays are anticipated as we intend to replace the bulkhead and ramps in the same locations and thus anticipate an exemption.

*(For reviewer only)*

*(1-4 points)*



---

**8) PROJECT DESIGN:**

- a) **Has the design work been completed? If this is a Phase I project, has a preliminary design been developed?**

The Phase 1 assessment of the bulkhead was completed in December 2016. The design of this project is anticipated to be completed by September 2017. We are requesting grant funding for the construction in this phase of the bulkhead and boat ramps for the Port of Fort Pierce only.

- b) **Are there unique beneficial aspects to the proposed design that enhance public usage or access, minimize environmental impacts, improve water quality or reduce costs?**

The improvement of the existing stormwater management would be significantly beneficial to the public by reducing flooding in the immediate area during storm events. It would also provide for stormwater treatment prior to discharge into the ICW, significantly improving water quality in the Indian River Lagoon. The ramp improvements will create and eliminate soil erosion into the basin during storm events and associated safer launching and parking to benefit the boaters. The bulkhead, associated walks and electrical upgrades and replacement will also preclude sediment loss and provide a safer project and facility.

*(For reviewer only)*  
*(1-2 points)*

---

**9) CONSTRUCTION TECHNIQUES:**

- a) **Briefly explain the construction techniques to be utilized for this project. If a Phase 1, elaborate on potential techniques.**

Typical construction techniques for both in-water and upland construction may be utilized. After final design plans are solidified, typical bulkhead construction will be implemented utilizing options of piling types, tie-backs, etc. which will be selected.

- b) **How are the utilized construction techniques appropriate for the project site?**

Typical marine construction equipment and techniques will be used for water-based work.

- c) **Identify any unusual construction techniques that may increase or decrease the costs of the project.**

No unusual construction techniques are anticipated at this stage of the project.

*(For reviewer only)*  
*(1-3 points)*

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**10) CONSTRUCTION MATERIALS:**

- a) **List the materials to be utilized for this project. What is the design life of the proposed materials compared to other available materials?**

Additives to the concrete will be utilized to reduce salt water impacts. The bulkhead wall may also be composite materials that will withstand the salt water and increase the life of the project. Utilization of these products should increase life of project..

- b) **Identify any unique construction materials that may significantly alter the project costs.**

Other materials and additives identified in Question 10 a) above will be considered and may increase the cost slightly, but will also increase longevity of the project components.

*(For reviewer  
only) (1-3 points)*

---

**RATING POINT  
TOTAL** \_\_\_\_\_

(Note: The total maximum score possible is dependent upon the project priority category but cannot exceed 50 points unless the project qualifies as an emergency-related project. The minimum score possible is 10 points. A score of 35 points or more is required to be considered for funding.)

Form No. 91-25A

Rule 66B-2.005 (Effective Date: 3-21-01, revised 4-24-06, 1-27-14)

## ATTACHMENT E-5

FLORIDA INLAND NAVIGATION DISTRICT  
ASSISTANCE PROGRAM 2017

## PROJECT COST ESTIMATE

(See Rule Section 66B-2.005 & 2.008 for eligibility and funding ratios)

<b>Project Title:</b>	Fisherman's Wharf Bulkhead Construction ( Phase 2)
<b>Applicant:</b>	St. Lucie County Board of County Commissioners

<b>Project Elements</b> <i>(Please list the MAJOR project elements and provide general costs for each one. For Phase I Projects, please list the major elements and products expected)</i>	<b>Quantity or Total Estimated Cost</b> <i>(Number and/or Footage etc.)</i>	<b>Applicant's Cost</b>	<b>FIND Cost</b>
<b>Bulkhead &amp; Boat Ramp Facility</b>	<b>\$4,300,000</b>	<b>\$3,902,250</b>	<b>\$ 397,750</b>
	755 LF Buldhead 4,000 SF Ramp 720 SF Dock & Gangway		

<b>**TOTALS =</b>	<b>\$4,300,000</b>	<b>\$3,902,250</b>	<b>\$ 397,750</b>
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**ATTACHMENT E-6  
WATERWAYS ASSISTANCE PROGRAM 2017**

**PROJECT TIMELINE**

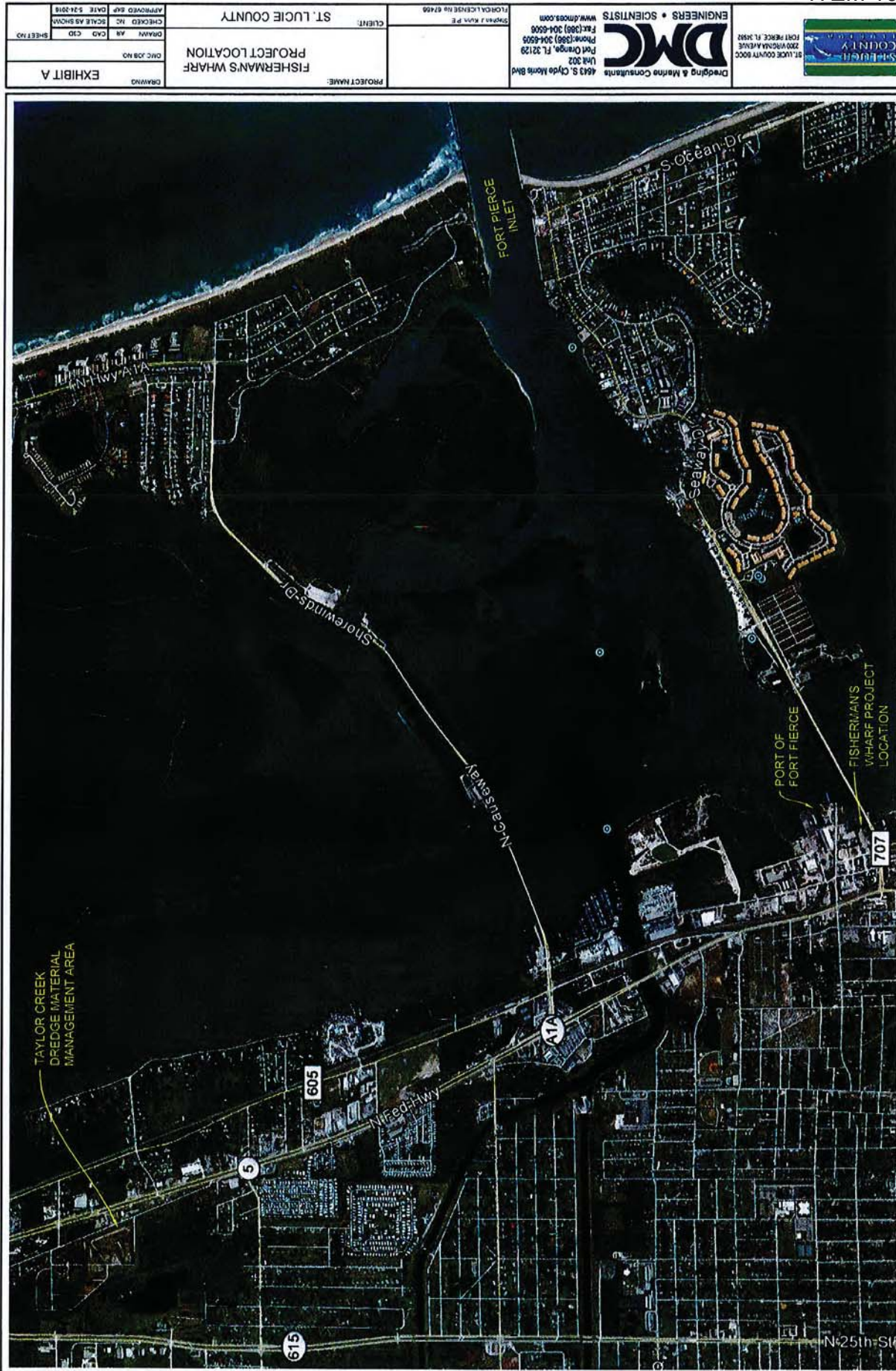
<b>Project Title:</b>	Fisherman's Wharf Bulkhead Construction ( Phase 2 )
<b>Applicant:</b>	St. Lucie County Board of County Commissioners

The applicant is to present a detailed timeline on the accomplishment of the components of the proposed project including, as applicable, completion dates for: permitting, design, bidding, applicant approvals, initiation of construction and completion of construction.

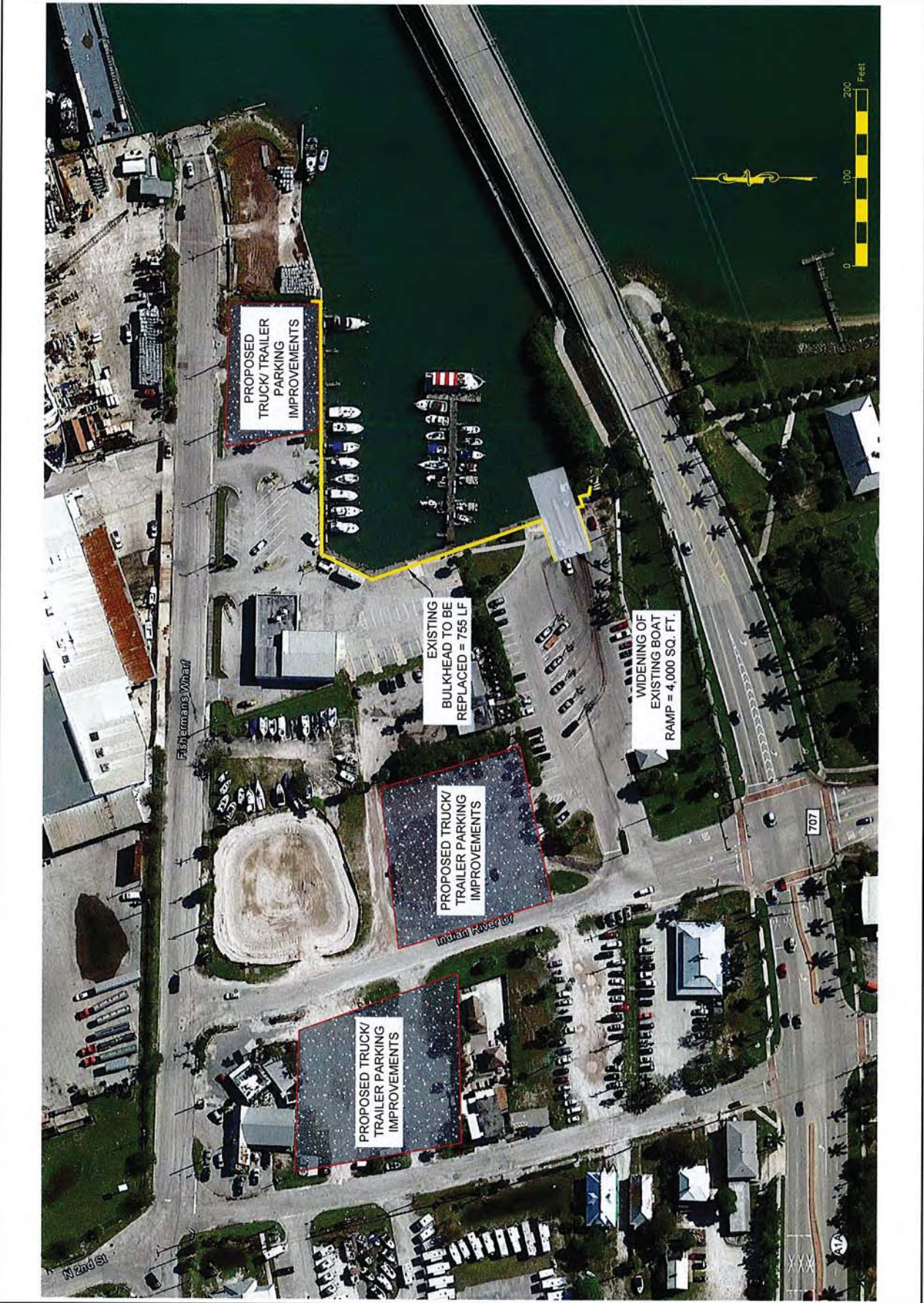
**NOTE: All funded activities must begin AFTER October 1<sup>st</sup>**  
(or be consistent with Rule 66B-2.005(3) - Pre-agreement expenses)

---

Bulkhead and Boat Ramp Facility construction will start October 1, 2017 and completed by September 30, 2018.









# Development Option 2





## ATTACHMENT E-2

**WATERWAYS ASSISTANCE PROGRAM FY 2017  
PROJECT APPLICATION  
APPLICANT INFORMATION – PROJECT SUMMARY**

<b>APPLICANT INFORMATION</b>			
<b>Applicant:</b>	City of Vero Beach		
<b>Department:</b>	Public Works		
<b>Project Title:</b>	Fishing Pier at Riverside Park		
<b>Project Director:</b>	Donald Dexter	<b>Title:</b>	Manager
<b>Project Liaison:</b> <i>(if different from Project Director)</i>		<b>Title:</b>	
<b>Mailing Address:</b>	1053 20th Pl		
<b>City:</b>	Vero Beach	<b>Zip Code:</b>	32960
<b>Email Address:</b>	ddexter@covb.org	<b>Phone #:</b>	772-978-4800
<b>Project Address:</b>	3200 Riverside Park Drive		

\*\*\*\*\* I hereby certify that the information provided in this application is true and accurate.\*\*\*\*\*

SIGNATURE:  DATE: 3/6/17

**PROJECT NARRATIVE** (Please summarize the project in space provided below in 2 paragraphs or less.)

This is Phase II for a project to construct a fishing pier at Riverside Park in Vero Beach. The project was initiated by a group of citizens who wanted to erect a memorial to a young boy, Cole Coppola, who loved to fish but died in an auto related accident in 2014. Riverside Park is owned by the City and provides picnic shelters, a boat ramp with parking for 26 trailers, volleyball court, tennis facilities, restrooms and exercise trails all open to the public. At this time the only fishing pier is located under the Merrill P Barber (SR60) bridge. The construction of this facility will enhance the availability to the public for fishing in the lagoon while enjoying the other amenities located at Riverside Park.

## ATTACHMENT E-3 - PROJECT INFORMATION 2017

<b>Applicant:</b>	City of Vero Beach		<b>Project Title:</b>	Fishing Pier at Riverside Park	
<b>Total Project Cost: \$</b>	\$220,000	<b>FIND Funding Requested: \$</b>	\$110,000	<b>% of Total Cost:</b>	50%
<b>Amount and Source of Applicant's Matching Funds:</b>	The Live Like Cole Foundation will provide the 50% match.				

1. Ownership of Project Site (check one): Own: ☒ Leased: ☐ Other: ☐

2. If leased or other, please describe lease or terms and conditions:

3. Has the District previously provided assistance funding to this project or site? Yes: ☒ No: ☐

4. If yes, please list:

Yes, IR-VB-15-59 funding for Phase 1 design and permitting.

5. What is the current level of public access in terms of the number of boat ramps, boat slips and trailer parking spaces, linear feet of boardwalk (etc.)? (as applicable):

There is on boat ramp with 2 floating docks and parking for 26 trailers 1,300' south of the proposed fishing pier

6. How many additional ramps, slips, parking spaces or other access features will be added by this project?

None.

7. Are fees charged for the use of this project? No ☒ Yes ☐ \*\*

\*\*If yes, please attach additional documentation of fees and how they compare with fees from similar public & private facilities in the area.

Please list all Environmental Resource Permits required for this project:

AGENCY	Yes / No / N/A	Date Applied For	Date Recieved
WMD	No (DEP)		
DEP	Yes	3/15/2016	5/27/2016
ACOE	Yes	3/15/2016	
COUNTY / CITY	No		



## ATTACHMENT E-4

**WATERWAYS ASSISTANCE PROGRAM  
APPLICATION AND EVALUATION WORKSHEET**

**DIRECTIONS:** All applicants will complete questions 1 through 6, and then based on the type of project, complete one and only one subsection (E-4A, B, C, D or E) for questions 7-10.

**\*\*Please keep your answers brief and do not change the pagination of Attachment E-4 \*\***

All other sub-attachments that are not applicable to an applicant's project should not be included in the submitted application.

<b>Project Title:</b>	Fishing Pier at Riverside Park
<b>Applicant:</b>	City of Vero Beach

---

**1) PRIORITY LIST:**

- a) Denote the priority list category of this project from Attachment C in the application.** (The application may only be of one type based upon the predominant cost of the project elements.)

11 Public Fishing & viewing piers

- b) Explain how the project fits this priority category.**

We will be constructing a fishing pier in a city park.

*(For reviewer only)*

*Max. Available Score for application*     45

*Question 1. Range of Score*    (1 to 3 points)

---

---

**2) WATERWAY RELATIONSHIP:**

- a) **Explain how the project relates to the ICW and the mission of the Navigation District.**

This project will enhance the opportunity for the public to access and enjoy fishing in the ICW.

- b) **What public access or navigational benefit to the ICW or adjoining waterway will result from this project?**

Currently any fishing in the park has to be done from shore. The pier will allow access to deeper water and hopefully a better fishing environment.

*(For reviewer only)*  
*(1-6 points)*

---

**3) PUBLIC USAGE & BENEFITS:**

- a) **How is the public usage of this project clearly identified and quantified? Estimate the amount of total public use.**

The fishing pier is located in a City park fully accessible to the public. 100%

- b) **Discuss the regional and local public benefits that will be provided by the project. Can residents from other counties of the District reasonably access and use the project? Explain.**

Currently the only land based areas to fish are the pier located under the Merrill P Barber (SR60) bridge or from the shoreline. Riverside Park is enjoyed by not only local residents but people from surrounding counties and seasonal visitors as well.

- c) **Are there any restrictions placed on commercial access or use of this site?**

Since this is a public park the City requires a permit for any commercial activities such as special events, boat shows, car shows or festivals.

*(For reviewer only)*  
*(1-8 points)*

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#### 4) TIMELINESS

- a) **Describe current status of the project and present a reasonable and effective timeline for the completion of the project consistent with Attachment E-6.**

The project design is complete and we are waiting on the ACOE/NMFS which was applied for in March 2016.

- b) **Briefly explain any unique aspects of this project that could influence the project timeline.**

This project will receive matching funds from the Live Like Cole Foundation a 501c3 who have been actively fund raising for the past year. They have assured us the matching funds will be available and are ready to move forward with the project.

*(For reviewer only)*  
*(1-3 points)*

---

#### 5) COSTS & EFFICIENCY:

- a) **List funding sources and the status and amount of the corresponding funding that will be utilized to complete this project.**

The Live Like Cole Foundation will provide the matching funds.

- b) **Identify and describe any project costs that may be increased because of the materials utilized or specific site conditions.**

None expected.

- c) **Describe any methods to be utilized to increase the cost efficiency of this project.**

None.

- d) **If there are any fees associated with the use of this facility, please detail. In addition, please provide a listing of the fees charged by similar facilities, public and private, in the project area.**

N/A

*(For reviewer only)*  
*(1-6 points)*

---



**6) PROJECT VIABILITY:**

- a) **What specific need in the community does this project fill? Is this project referenced or incorporated in an existing maritime management, public assess or comp plan?**

This project will provide additional land-based fishing opportunities.

- b) **Clearly demonstrate how the project will continue to be maintained and funded after District funding is completed.**

The City of Vero Beach will maintain the fishing pier.

- c) **Will the program result in significant and lasting benefits? Explain.**

Yes, the plan is to use composite decking to minimize maintenance and concrete piles as the foundation of the pier to maximize life expectancy.

- d) **Please describe any environmental benefits associated with this project.**

The pier will provide additional habitat for fish to congregate.

*(For reviewer only)*  
*(1-7 points)*

---

SUB-TOTAL \_\_\_\_\_

FIND FORM NO. 91-25

Rule 66B-2.005 (Effective Date: 3-21-01, Revised 4-24-06, 1-27-14)

**ATTACHMENT E-4A  
DEVELOPMENT & CONSTRUCTION PROJECTS**

**WATERWAYS ASSISTANCE PROGRAM  
APPLICATION AND EVALUATION WORKSHEET**

THIS ATTACHMENT IS TO BE COMPLETED IF YOUR PROJECT IS A  
DEVELOPMENT OR CONSTRUCTION PROJECT BUT IS NOT AN INLET  
MANAGEMENT OR BEACH RENOURISHMENT PROJECT.

---

**7) PERMITTING:**

- a) Have all required environmental permits been applied for? (USACE, DEP and WMD)  
If permits are NOT required, explain why not.

Yes

- b) If the project is a Phase I project, list the tasks scheduled to obtain the necessary permits and engineering work and provide a general cost estimate for the future Phase II work.

N/A

- c) Detail any significant impediments that may have been identified that would potentially delay the timely issuance of the required permits.

None identified.

*(For reviewer only)  
(1-4 points)*

---

**8) PROJECT DESIGN:**

- a) **Has the design work been completed? If this is a Phase I project, has a preliminary design been developed?**

Yes

- b) **Are there unique beneficial aspects to the proposed design that enhance public usage or access, minimize environmental impacts, improve water quality or reduce costs?**

The project will be located in an already developed City park with boat ramps, parking, picnic shelters, restrooms and sidewalks.

*(For reviewer only)*  
*(1-2 points)*

---

**9) CONSTRUCTION TECHNIQUES:**

- a) **Briefly explain the construction techniques to be utilized for this project. If a Phase 1, elaborate on potential techniques.**

We plan to use concrete piles and composite decking material.

- b) **How are the utilized construction techniques appropriate for the project site?**

They will provide a long service life and relatively low maintenance.

- c) **Identify any unusual construction techniques that may increase or decrease the costs of the project.**

None.

*(For reviewer only)*  
*(1-3 points)*

---



---

**10) CONSTRUCTION MATERIALS:**

- a) List the materials to be utilized for this project. What is the design life of the proposed materials compared to other available materials?

The project design will make use of concrete piles, composite decking and stainless steel hardware and fasteners. The composite decking will at least double the life expectancy over pressure treated materials which have a 5-7 year design life.

- b) Identify any unique construction materials that may significantly alter the project costs.

None.

*(For reviewer only)*  
*(1-3 points)*

---

**RATING POINT  
TOTAL** \_\_\_\_\_

(Note: The total maximum score possible is dependent upon the project priority category but cannot exceed 50 points unless the project qualifies as an emergency-related project. The minimum score possible is 10 points. A score of 35 points or more is required to be considered for funding.)



**ATTACHMENT E-6  
WATERWAYS ASSISTANCE PROGRAM 2017**

**PROJECT TIMELINE**

<b>Project Title:</b>	Fishing Pier at Riverside Park
<b>Applicant:</b>	City of Vero Beach

The applicant is to present a detailed timeline on the accomplishment of the components of the proposed project including, as applicable, completion dates for: permitting, design, bidding, applicant approvals, initiation of construction and completion of construction.

**NOTE: All funded activities must begin AFTER October 1<sup>st</sup>**  
(or be consistent with Rule 66B-2.005(3) - Pre-agreement expenses)

---

September 2017 - Advertise for Bids

November 2017 - Begin Construction

April 2018 - Complete Construction



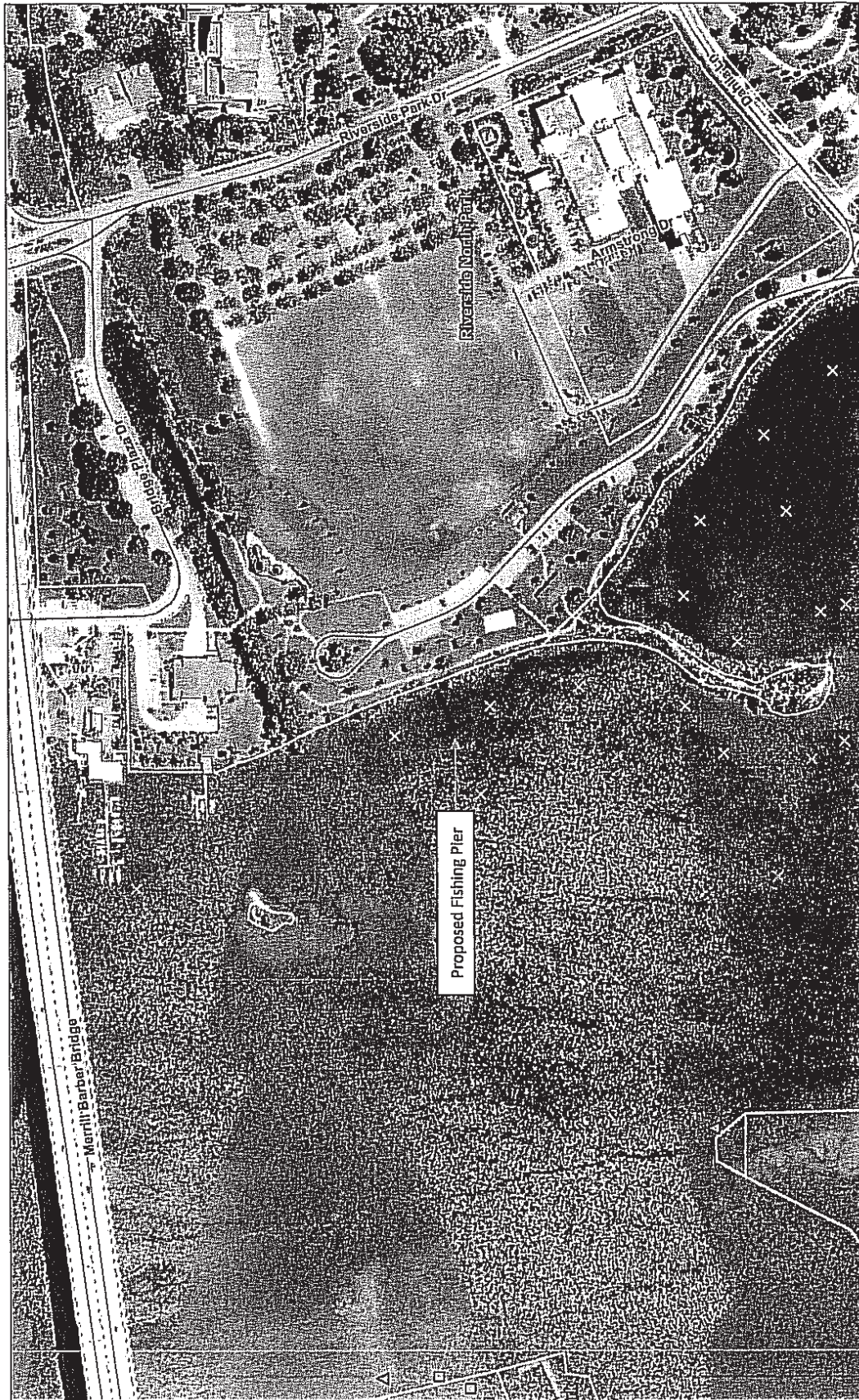


Vero Beach City Location Map









Site Plan of Riverside Park



## ATTACHMENT E-2

**WATERWAYS ASSISTANCE PROGRAM FY 2017  
PROJECT APPLICATION  
APPLICANT INFORMATION – PROJECT SUMMARY**

<b>APPLICANT INFORMATION</b>			
<b>Applicant:</b> CITY OF VERO BEACH			
<b>Department:</b> MARINA			
<b>Project Title:</b> VERO BEACH CITY MARINA CENTER DOCK IMPROVEMENTS			
<b>Project Director:</b> TIM GRABENBAUER		<b>Title:</b>	MARINA DIRECTOR
<b>Project Liaison:</b> <i>(if different from Project)</i>		<b>Title:</b>	
<b>Mailing Address:</b>		3611 RIO VISTA BLVD.	
<b>City:</b> VERO BEACH, FLORIDA		<b>Zip Code:</b>	32963
<b>Email Address:</b> MARINA@COVB.ORG		<b>Phone #:</b>	772.978.4960
<b>Project Address:</b>		3611 RIO VISTA BLVD. VERO BEACH 32963	

\*\*\*\*\* I hereby certify that the information provided in this application is true and accurate. \*\*\*\*\*

SIGNATURE: \_\_\_\_\_

DATE: \_\_\_\_\_

3/21/17

**PROJECT NARRATIVE** (Please summarize the project in space provided below in 2 paragraphs or less.)

REHABILITATE CENTER DOCK ACCORDING TO RECOMMENDATIONS FROM STRUCTURAL ANALYSIS AS PRESENTED BY CONTRACTOR UNDERWATER ENGINEERING SERVICES, INC. (UESI).

THIS DOCK LAST HAD MAJOR WORK IN THE MID 1970'S. IT IS THE MAIN DOCK LEADING TO OUR OFFICE AND FUEL DOCK.

## ATTACHMENT E-3 - PROJECT INFORMATION 2017

<b>Applicant: CITY OF VERO BEACH</b>		<b>Project Title: VERO BEACH CITY MARINA CENTER DOCK IMPROVEMENTS</b>	
<b>Total Project Cost: \$ 120,000</b>	<b>FIND Funding Requested: \$ 60,000</b>	<b>% of Total Cost: 50</b>	
<b>Amount and Source of Applicant's Matching Funds: \$60,000</b>			
<b>CITY OF VERO BEACH MARINA FUND</b>			

1. Ownership of Project Site (check one): Own: ☒ Leased: ☐ Other: ☐

2. If leased or other, please describe lease or terms and conditions:

3. Has the District previously provided assistance funding to this project or site? Yes: ☒ No: ☐

4. If yes, please list:

PREVIOUS MOORING EXPANSION; UPLAND FACILITIES EXPANSION; SOUTH DOCK REHABILITATION; FUEL DOCK EXTENSION; SOUTH COMPLEX PURCHASE

5. What is the current level of public access in terms of the number of boat ramps, boat slips and trailer parking spaces, linear feet of boardwalk (etc.)? (as applicable): THIS PARTICULAR DOCK HAS PUBLIC ACCESS TO 17 WET SLIPS AND THE FUEL DOCK. THE ENTIRE FACILITY HAS PUBLIC ACCESS TO 108 WET SLIPS, 57 MOORINGS, AND 57 DRY STORAGE SPACES.

6. How many additional ramps, slips, parking spaces or other access features will be added by this project?

NONE

7. Are fees charged for the use of this project? No ☐ Yes ☒ \*\*

\*\*If yes, please attach additional documentation of fees and how they compare with fees from similar public & private facilities in the area.

Please list all Environmental Resource Permits required for this project:

AGENCY	Yes / No / N/A	Date Applied For	Date Received
WMD	N/A		
DEP	NO		
ACOE	NO		
COUNTY / CITY	YES		

## ATTACHMENT E-4

**WATERWAYS ASSISTANCE PROGRAM  
APPLICATION AND EVALUATION WORKSHEET**

**DIRECTIONS:** All applicants will complete questions 1 through 6, and then based on the type of project, complete one and only one subsection (E-4A, B, C, D or E) for questions 7-10.

**\*\*Please keep your answers brief and do not change the pagination of Attachment E-4\*\***

All other sub-attachments that are not applicable to an applicant's project should not be included in the submitted application.

<b>Project Title:</b>	<b>VERO BEACH CITY MARINA CENTER DOCK IMPROVEMENTS</b>
<b>Applicant:</b>	<b>CITY OF VERO BEACH</b>

---

**1) PRIORITY LIST:**

- a) Denote the priority list category of this project from Attachment C in the application. (The application may only be of one type based upon the predominant cost of the project elements.)  
**ACQUISITION, DREDGING, SHORELINE STABILIZATION AND DEVELOPMENT OF PUBLIC BOAT DOCKING AND MOORING FACILITIES.**
- b) Explain how the project fits this priority category.  
**DEVELOPMENT OF PUBLIC BOAT DOCKING AND MOORING FACILITIES BY RENEWAL AND BETTERMENT OF AN EXISTING STRUCTURE AVAILABLE TO THE DISTRICT'S USERS.**

*(For reviewer only)*

Max. Available Score for application     47

Question 1. Range of Score    (1 to 5 points)

---



---

**2) WATERWAY RELATIONSHIP:**

- a) Explain how the project relates to the ICW and the mission of the Navigation District.

**THIS PROJECT WILL REVITALIZE A DOCK THAT OFFERS WET SLIPS AND A FUEL DOCK AVAILABLE TO THE USERS OF THE DISTRICTS WATERWAYS. OUR MARINA (LOCATED ADJACENT TO THE AICW @ MILE 951) OFFERS PUMPOUTS, OIL AND TRASH DISPOSAL, LAUNDROMAT, SHOWERS, RESTROOMS, PARKING, FUELING FACILITIES, INTERNET ACCESS AND FREE PUBLIC TRANSPORTATION.**

- b) What public access or navigational benefit to the ICW or adjoining waterway will result from this project?

**VESSELS WILL BE ABLE TO CONTINUE TO DOCK, FUEL AND PUMPOUT.**

*(For reviewer only)*  
*(1-6 points)*

---

**3) PUBLIC USAGE & BENEFITS:**

- a) How is the public usage of this project clearly identified and quantified? Estimate the amount of total public use.

**THIS FACILITY IS 100% COMMITTED TO PUBLIC USAGE. THE PROJECT DOCK HAS 17 WET SLIPS AND PROVIDES ACCESS TO THE FUEL DOCK. IT ALSO SUPPORTS OUR OFFICE THROUGH WHICH ALL USERS PASS. OUR CUSTOMER DATABASE OF VISITORS IS CURRENTLY NEAR THE 26,000 MARK.**

- b) Discuss the regional and local public benefits that will be provided by the project. Can residents from other counties of the District reasonably access and use the project? Explain.

**WE PROVIDE TRANSIENT WET SLIPS AND FUEL WITH A DEEP WATER APPROACH. RESIDENTS FROM ALL OF THE DISTRICT'S COUNTIES COULD REASONABLY ACCESS THIS SITE.**

- c) Are there any restrictions placed on commercial access or use of this site?

**NO**

*(For reviewer only)*  
*(1-8 points)*

---

#### 4) TIMELINESS

- a) Describe current status of the project and present a reasonable and effective timeline for the completion of the project consistent with Attachment E-6.

THE STRUCTURAL ANALYSIS WAS COMPLETED IN AUGUST 2016. THE ENGINEERING SPECS WERE COMPLETED IN MARCH 2017. SOME EMERGENCY WORK IN A SMALL AREA WILL BE PERFORMED THIS FISCAL YEAR. THE BULK OF THE WORK IS SCHEDULED FOR NEXT FISCAL YEAR.

- b) Briefly explain any unique aspects of this project that could influence the project timeline.

AVAILABILITY OF MARINE CONTRACTORS ONCE A CONSTRUCTION BID HAS BEEN ISSUED.

*(For reviewer only)*  
*(1-3 points)*

---

#### 5) COSTS & EFFICIENCY:

- a) List funding sources and the status and amount of the corresponding funding that will be utilized to complete this project.

THE MATCHING FUNDS WILL BE PROVIDED BY THE MARINA FUND. THE PROJECT IS INCLUDED IN THE 5 YR. CAPITAL PLAN.

- b) Identify and describe any project costs that may be increased because of the materials utilized or specific site conditions.

NONE FORSEEN AT THIS TIME.

- c) Describe any methods to be utilized to increase the cost efficiency of this project.

UTILIZE MARINE CONTRACTOR WHEN BARGE IS IN AREA REDUCING MOBILIZATION COSTS.

- d) If there are any fees associated with the use of this facility, please detail. In addition, please provide a listing of the fees charged by similar facilities, public and private, in the project area.

ATTACHED

*(For reviewer only)*  
*(1-6 points)*

---

**6) PROJECT VIABILITY:**

- a) What specific need in the community does this project fill? Is this project referenced or incorporated in an existing maritime management, public assess or comp plan?

**WE ANSWER INQUIRES ON AN ALMOST DAILY BASIS AS TO THE AVAILABILITY OF TRANSIENT AND LONG TERM DOCKAGE. PART OF OUR MISSION STATEMENT IS TO “PROVIDE FIRST CLASS SERVICE TO RESIDENT AND VISITING BOATERS”. THIS INCLUDES PROVIDING DOCK FACILITIES THAT ARE WELL MAINTAINED AND SAFE.**

- b) Clearly demonstrate how the project will continue to be maintained and funded after District funding is completed.

**MAINTENANCE FUNDS WILL BE APPROPRIATED ANNUALLY FROM THE MARINA FUND THROUGH THE CITY COUNCIL.**

- c) Will the program result in significant and lasting benefits? Explain.

**YES. THE PROGRAM HELPS US CONTINUE TO PROVIDE ACCESS TO A LONG STANDING AND WELL USED FACILITY. I I HAVE A PHOTO IN MY OFFICE OF THE PROJECT DOCK IN 1936. WE ARE CONSISTANTLY CALLED “VELCRO <sup>TM</sup> BEACH”**

- d) Please describe any environmental benefits associated with this project.

**MANY OF THE OLD CREOSOTE PILINGS WILL BE REPLACED.**

*(For reviewer only)*  
*(1-7 points)*

---

SUB-TOTAL \_\_\_\_\_



**ATTACHMENT E-4A  
DEVELOPMENT & CONSTRUCTION PROJECTS**

**WATERWAYS ASSISTANCE PROGRAM  
APPLICATION AND EVALUATION WORKSHEET**

THIS ATTACHMENT IS TO BE COMPLETED IF YOUR PROJECT IS A  
DEVELOPMENT OR CONSTRUCTION PROJECT BUT IS NOT AN INLET  
MANAGEMENT OR BEACH RENOURISHMENT PROJECT.

**7) PERMITTING:**

- a) Have all required environmental permits been applied for? (USACE, DEP and WMD)  
If permits are NOT required, explain why not.

**NO DEP OR ACOE PERMITS REQUIRED. PROJECT IS A REPAIR OF EXISTING DOCKS OR  
MOORING PILES WITH NO CHANGE IN FOOTPRINT.**

**COUNTY PERMITS WILL BE OBTAINED BY THE MARINE CONTRACTOR AWARDED THE  
JOB.**

- b) If the project is a Phase I project, list the tasks scheduled to obtain the necessary permits and engineering work and provide a general cost estimate for the future Phase II work.

**N/A**

- c) Detail any significant impediments that may have been identified that would potentially delay the timely issuance of the required permits.

**NONE.**

*(For reviewer only)  
(1-4 points)*

---

**8) PROJECT DESIGN:**

- a) Has the design work been completed? If this is a Phase I project, has a preliminary design been developed?

**YES. IT WAS DONE BY UNDERWATER ENGINEERING SERVICES, INC. (UESI)**

- b) Are there unique beneficial aspects to the proposed design that enhance public usage or access, minimize environmental impacts, improve water quality or reduce costs?

**MANY CREOSOTE PILINGS WILL BE REPLACED WITH MORE ENVIRONMENTALLY FRIENDLY PILES.**

*(For reviewer only)*  
*(1-2 points)*

---

**9) CONSTRUCTION TECHNIQUES:**

- a) Briefly explain the construction techniques to be utilized for this project. If a Phase 1, elaborate on potential techniques.

**AREAS OF DECKING WILL BE REMOVED, WASTED PILES AND STRINGERS WILL BE REPLACED. DECKING WILL BE REPLACED.**

- b) How are the utilized construction techniques appropriate for the project site?

**INDUSTRY STANDARD.**

- c) Identify any unusual construction techniques that may increase or decrease the costs of the project.

**NONE FORSEEN.**

*(For reviewer only)*  
*(1-3 points)*

---

---

**10) CONSTRUCTION MATERIALS:**

- a) List the materials to be utilized for this project. What is the design life of the proposed materials compared to other available materials?

**WOOD PILES AND STRINGERS. RECYCLED PLASTIC FOR DECKING. WOOD SHOULD LAST 20-25 YEARS. DECKING SHOULD LAST 25-30 YEARS.**

- b) Identify any unique construction materials that may significantly alter the project costs.

**NONE.**

*(For reviewer only)*  
*(1-3 points)*

---

**RATING POINT**  
**TOTAL** \_\_\_\_\_

(Note: The total maximum score possible is dependent upon the project priority category but cannot exceed 50 points unless the project qualifies as an emergency-related project. The minimum score possible is 10 points. A score of 35 points or more is required to be considered for funding.)



## ATTACHMENT E-5

FLORIDA INLAND NAVIGATION DISTRICT  
ASSISTANCE PROGRAM 2017

## PROJECT COST ESTIMATE

(See Rule Section 66B-2.005 & 2.008 for eligibility and funding ratios)

<b>Project Title:</b>	<b>VERO BEACH CITY MARINA CENTER DOCK IMPROVEMENTS</b>
<b>Applicant:</b>	<b>CITY OF VERO BEACH</b>

<b>Project Elements</b> <i>(Please list the MAJOR project elements and provide general costs for each one. For Phase I Projects, please list the major elements and products expected)</i>	<b>Quantity or Total Estimated Cost</b> <i>(Number and/or Footage etc.)</i>	<b>Applicant's Cost</b>	<b>FIND Cost</b>
<b>STRUCTURAL ANALYSIS</b>	<b>8,000</b>	<b>8,000</b>	
<b>ENGINEERING DESIGN</b>	<b>15,000</b>	<b>15,000</b>	
<b>FY 16-17 CONSTRUCTION</b>	<b>80,000</b>	<b>80,000</b>	
<b>FY 17-18 CONSTRUCTION</b>	<b>120,000</b>	<b>60,000</b>	<b>60,000</b>
only highlighted yellow expenses included in this grant application			

<b>**TOTALS =</b>	<b>\$ 223,000</b>	<b>\$ 163,000</b>	<b>\$ 60,000</b>
-------------------	-------------------	-------------------	------------------

**ATTACHMENT E-6  
WATERWAYS ASSISTANCE PROGRAM 2017**

**PROJECT TIMELINE**

<b>Project Title:</b>	<b>VERO BEACH CITY MARINA CENTER DOCK IMPROVEMENTS</b>
<b>Applicant:</b>	<b>CITY OF VERO BEACH</b>

The applicant is to present a detailed timeline on the accomplishment of the components of the proposed project including, as applicable, completion dates for: permitting, design, bidding, applicant approvals, initiation of construction and completion of construction.

**NOTE: All funded activities must begin AFTER October 1<sup>st</sup>**  
(or be consistent with Rule 66B-2.005(3) - Pre-agreement expenses)

---

**STRUCTURAL ANALYSIS – COMPLETED**

**ENGINEERING DESIGN – COMPLETED**

**FY 16-17 CONSTRUCTION – GO OUT TO BID APRIL, 2017**

**FY 17-18 CONSTRUCTION – GO OUT TO BID OCTOBER, 2017**

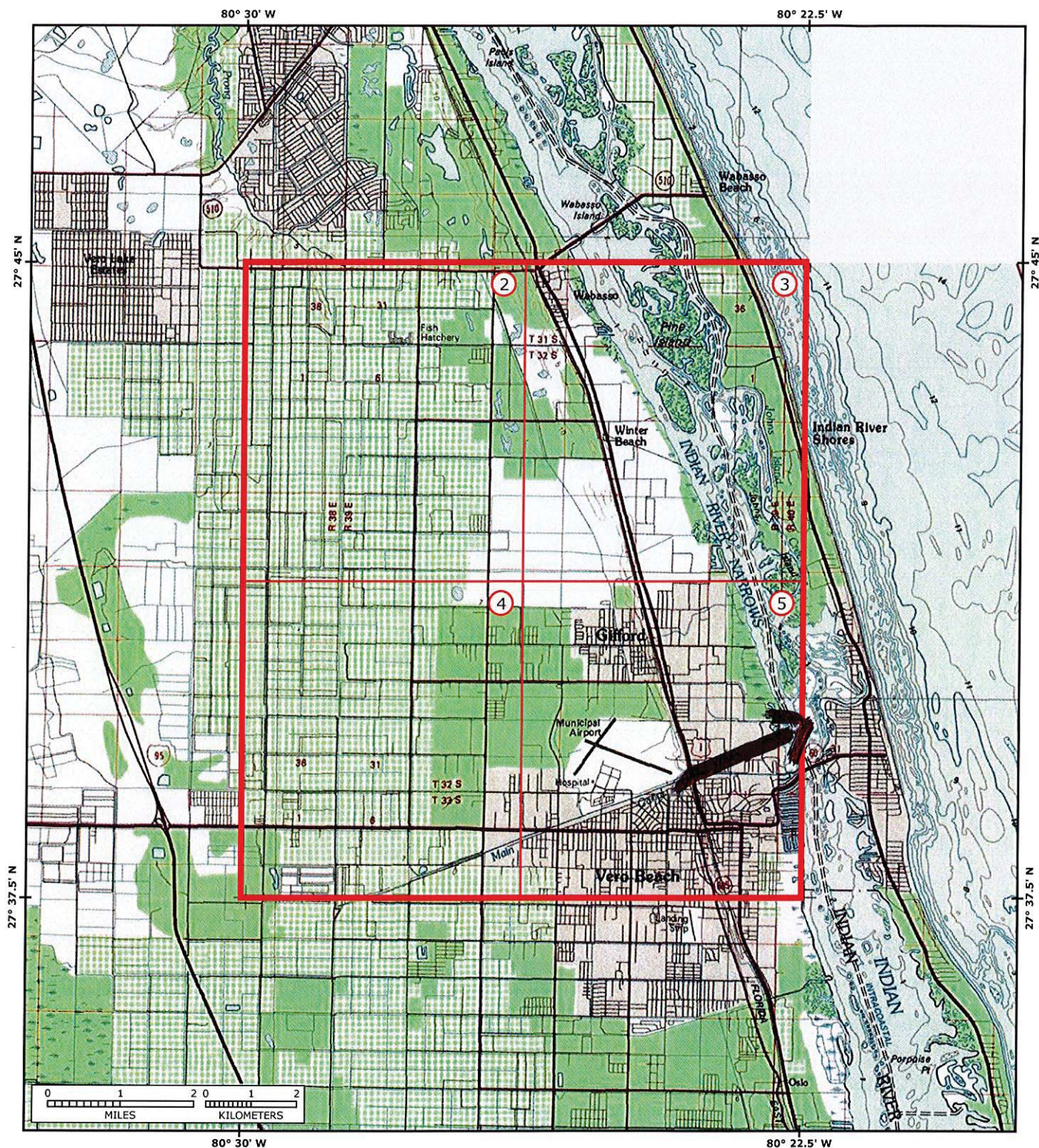


27080f4

## Vero Beach, FL

Index Map - USGS 100K Map Series

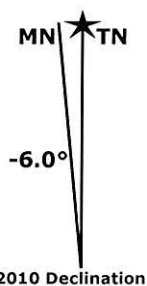
1



This map was created from a seamless mosaic of detailed USGS maps at topo.com

Refer to the pages indicated on the above index for detailed 7.5' series USGS maps. As with all maps, inaccuracies may exist and conditions may change. User assumes all risk associated with the use of this map.

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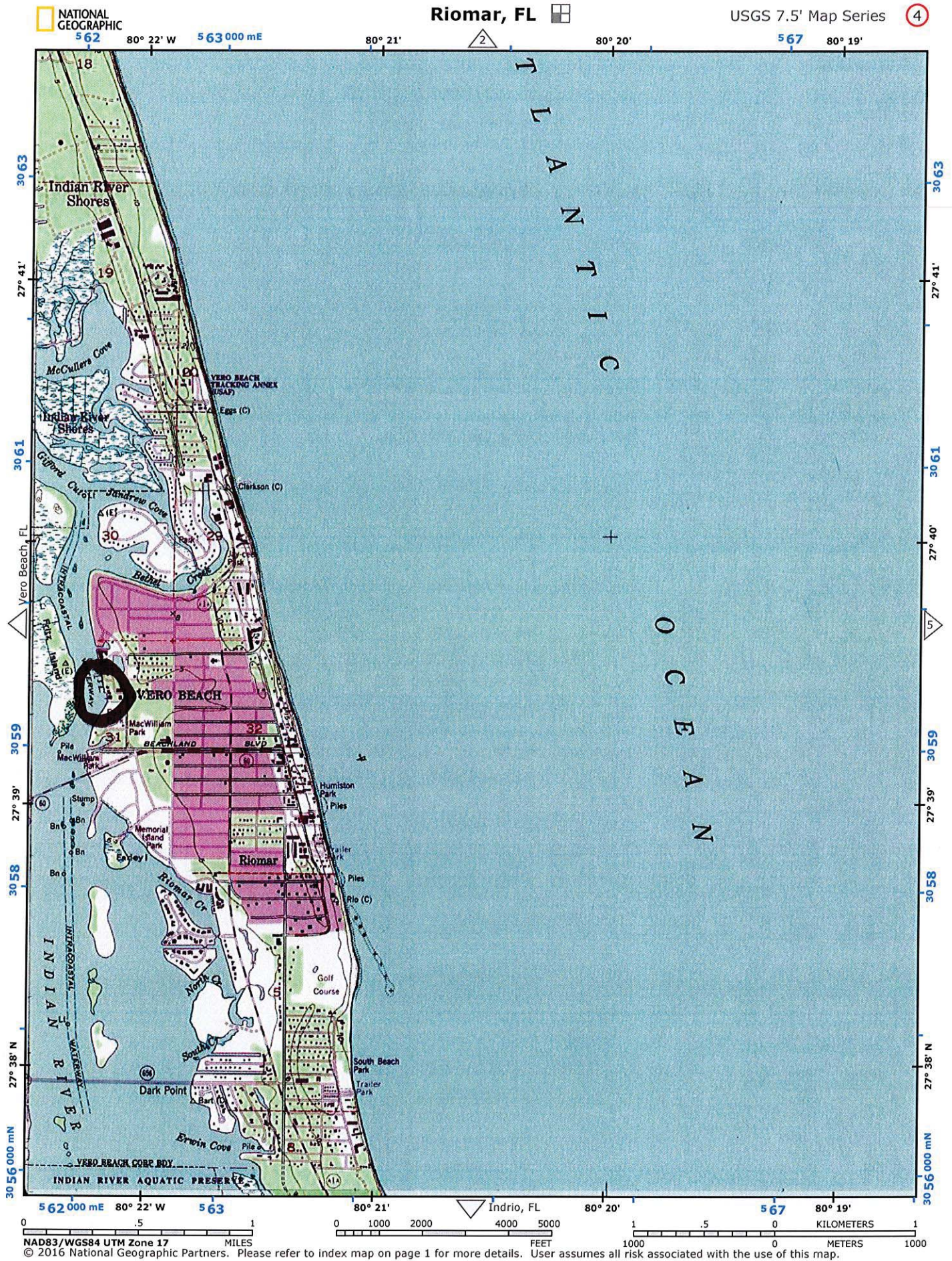


USGS Revision Date: 1983  
Contour Interval on 7.5' Maps: 5 ft  
Adjoining 7.5' Quads

NW	N	NE
W	*	E
SW	S	SE

NW: Fellsmere, FL  
N: Sebastian, FL  
NE:  
W: South of Fellsmere, FL  
\* Vero Beach, FL  
E: Riomar, FL  
SW: East of Gum Slough, FL  
S: Oslo, FL  
SE: Indrio, FL

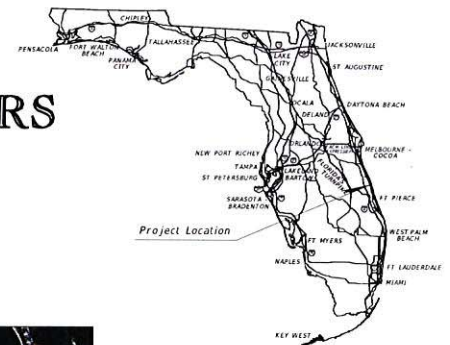






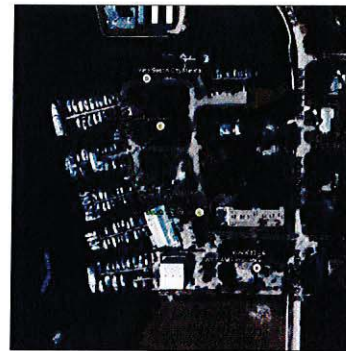
# CITY OF VERO BEACH CITY MARINA REPAIRS

3611 RIO VISTA BOULEVARD  
VERO BEACH, FL 32963  
INDIAN RIVER COUNTY



Vero Beach Marina

VICINITY MAP



Vero Beach Marina  
Center Dock

LOCATION MAP

## SHEET INDEX

SHEET No.	TITLE
1	Cover Sheet
2	General Notes
3	General Plan
4	Repair Plan Walkway Pier
5	Repair Plan Office Pier
9	Bent 6 Replacement Details
7	Pile Cap Replacement Details
8	Repair Details - 1
9	Repair Details - 2
10	Framing & Pile Repair Details

Name: Jeffrey H. O'Connor P.E.  
PROFESSIONAL ENGINEER NO. 30914  
STATE OF FLORIDA

PROJECT NO. ENG2017703

REVISIONS			
REV.	DATE	DESCRIPTION	REV.
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

COVER SHEET

CITY OF VERO BEACH MARINA REPAIRS

CHECKED BY: JHO DRAWN BY: LEF DATE: 2/2017

**UESI**  
Underwater Engineering Services, Inc.  
3306 ENTERPRISE ROAD  
FORT PIERCE, FL 34947  
PH 787.331.3116  
CERTIFICATE NUMBER 3703

SHEET: 1

## ATTACHMENT E-2

**WATERWAYS ASSISTANCE PROGRAM FY 2017  
PROJECT APPLICATION  
APPLICANT INFORMATION – PROJECT SUMMARY**

<b>APPLICANT INFORMATION</b>			
<b>Applicant:</b> CITY OF VERO BEACH			
<b>Department:</b> MARINA			
<b>Project Title:</b> VERO BEACH CITY MARINA MOORING FIELD EXPANSION			Phase I
<b>Project Director:</b> TIM GRABENBAUER		<b>Title:</b>	MARINA DIRECTOR
<b>Project Liaison:</b> <i>(if different from Project)</i>		<b>Title:</b>	
<b>Mailing Address:</b>	3611 RIO VISTA BLVD.		
<b>City:</b> VERO BEACH, FLORIDA	<b>Zip Code:</b>	32963	
<b>Email Address:</b> MARINA@COVB.ORG	<b>Phone #:</b>	772.978.4960	
<b>Project Address:</b>	3611 RIO VISTA BLVD. VERO BEACH 32963		

\*\*\*\*\* I hereby certify that the information provided in this application is true and accurate. \*\*\*\*\*

SIGNATURE: \_\_\_\_\_

DATE: \_\_\_\_\_

3/21/17

**PROJECT NARRATIVE** (Please summarize the project in space provided below in 2 paragraphs or less.)

ADD 20 ADDITIONAL MOORINGS NORTH OF AND ADJOINING THE EXISTING MOORING FIELD.

THE NUMBER OF VESSELS CURRENTLY RAFTING TOGETHER AND THE NUMBER OF VESSELS CURRENTLY ANCHORING TO THE NORTH DEMONSTRATES DEMAND.

THIS IS A PHASE I PROJECT.



## ATTACHMENT E-3 - PROJECT INFORMATION 2017

Phase I

<b>Applicant: CITY OF VERO BEACH</b>		<b>Project Title: VERO BEACH CITY MARINA MOORING FIELD EXPANSION</b>	
<b>Total Project Cost: \$ 100,000</b>	<b>FIND Funding Requested: \$ 50,000</b>	<b>% of Total Cost: 50</b>	
<b>Amount and Source of Applicant's Matching Funds: \$50,000</b>			
<b>CITY OF VERO BEACH MARINA FUND</b>			

1. Ownership of Project Site (check one): Own: ☐ Leased: ☒ Other: ☐

2. If leased or other, please describe lease or terms and conditions:

REQUEST TO BE ADDED TO CURRENT FL DEP SSL

3. Has the District previously provided assistance funding to this project or site? Yes: ☒ No: ☐

4. If yes, please list: THE ESTABLISHMENT OF THE CURRENT MOORING FIELD

5. What is the current level of public access in terms of the number of boat ramps, boat slips and trailer parking spaces, linear feet of boardwalk (etc.)? (as applicable):

WE CURRENTLY HAVE 57 MOORINGS THAT MAY HOST AS MANY AS 120 VESSELS DURING THE HEIGHT OF THE SEASON.

6. How many additional ramps, slips, parking spaces or other access features will be added by this project?

TWENTY (20)

7. Are fees charged for the use of this project? No ☐ Yes ☐ \*\*

\*\*If yes, please attach additional documentation of fees and how they compare with fees from similar public & private facilities in the area.

Please list all Environmental Resource Permits required for this project:

AGENCY	Yes / No / N/A	Date Applied For	Date Received
WMD	N/A		
DEP	X		
ACOE	X		
COUNTY / CITY	N/A		

## ATTACHMENT E-4

**WATERWAYS ASSISTANCE PROGRAM  
APPLICATION AND EVALUATION WORKSHEET**

**DIRECTIONS:** All applicants will complete questions 1 through 6, and then based on the type of project, complete one and only one subsection (E-4A, B, C, D or E) for questions 7-10.

**\*\*Please keep your answers brief and do not change the pagination of Attachment E-4\*\***

All other sub-attachments that are not applicable to an applicant's project should not be included in the submitted application.

<b>Project Title:</b>	<b>VERO BEACH CITY MARINA MOORING FIELD EXPANSION</b> Phase I
<b>Applicant:</b>	<b>CITY OF VERO BEACH</b>

---

**1) PRIORITY LIST:**

- a) **Denote the priority list category of this project from Attachment C in the application.** (The application may only be of **one** type based upon the predominant cost of the project elements.)

**ACQUISITION, DREDGING, SHORELINE STABILIZATION AND DEVELOPMENT OF PUBLIC BOAT DOCKING AND MOORING FACILITIES.**

- b) **Explain how the project fits this priority category.**

**FURTHER DEVOLPMENT OF EXISTING FIELD TO ACCOMMODATE INCREASING DEMAND.**

*(For reviewer only)*

*Max. Available Score for application*      47

*Question 1. Range of Score (1 to 5 points)*

---

---

**2) WATERWAY RELATIONSHIP:**

- a) Explain how the project relates to the ICW and the mission of the Navigation District.

**THIS PROJECT WILL PROVIDE ADDITIONAL PUBLIC ACCESS FACILITIES FOR THE USERS OF THE DISTRICT'S WATERWAYS. OUR FACILITY (LOCATED ADJACENT TO THE AICW @ MILE 951) OFFERS PUMPOUTS, OIL AND TRASH DISPOSAL, LAUNDROMAT, SHOWERS, RESTROOMS, PARKING, FUELING FACILITIES, INTERNET ACCESS AND FREE PUBLIC TRANSPORTATION.**

- b) What public access or navigational benefit to the ICW or adjoining waterway will result from this project?

**AS WE ARE ADJACENT TO THE ICW, VISITORS COME HERE TO FUEL, REST AND/OR REPROVISION.**

*(For reviewer only)*  
*(1-6 points)*

---

**3) PUBLIC USAGE & BENEFITS:**

- a) How is the public usage of this project clearly identified and quantified? Estimate the amount of total public use.

**THIS FACILITY IS 100% COMMITTED TO PUBLIC USAGE. THE ADDITION OF 20 MOORINGS WILL INCREASE OUR NUMBER TO 77. WE PROVIDE UPLAND FACILITY ACCESS TO RESTROOMS, LAUNDRY, SUPPLIES AND TRANSPORTATION. IT IS ANTICIPATED THAT THE ADDITIONAL BUOYS WILL BE UTILIZED ON A DAILY BASIS FOR APPROXIMATELY 6-7 MONTHS OF THE YEAR.**

- b) Discuss the regional and local public benefits that will be provided by the project. Can residents from other counties of the District reasonably access and use the project? Explain.

**THE CRUISING COMMUNITY HAS A SECURE PLACE TO STAY IN OUR AREA WITHOUT ANCHORING. THE LOCAL BUSINESS PATRONS ENJOY THE ADDED BUSINESS FROM PROVISIONING. RESIDENTS FROM OTHER DISTRICT COUNTIES WILL HAVE FULL ACCESS.**

- c) Are there any restrictions placed on commercial access or use of this site?  
**NOT LOCALLY.**



---

#### 4) TIMELINESS

- a) Describe current status of the project and present a reasonable and effective timeline for the completion of the project consistent with Attachment E-6.

**THIS PROJECT IS IN PHASE I. SO FAR THE LOCATION AND NUMBER OF BUOYS HAS BEEN IDENTIFIED. AN ENGINEERING FIRM WOULD BE HIRED AFTER OCTOBER 1<sup>ST</sup>.**

- b) Briefly explain any unique aspects of this project that could influence the project timeline.

**ANY ENVIRONMENTAL CONCERNS DURING THE PERMITTING PHASE.**

*(For reviewer only)*  
*(1-3 points)*

---

#### 5) COSTS & EFFICIENCY:

- a) List funding sources and the status and amount of the corresponding funding that will be utilized to complete this project.

**MATCHING FUNDS WILL BE PROVIDED BY THE MARINA FUND.**

- b) Identify and describe any project costs that may be increased because of the materials utilized or specific site conditions.

**ONLY IF THERE ARE ANY ENVIRONMENTAL CONCERNS. THEY WERE MINIMAL FOR THE CURRENT MOORING FIELD.**

- c) Describe any methods to be utilized to increase the cost efficiency of this project.

**USE OF CURRENT, WELL TESTED SYSTEMS.**

- d) If there are any fees associated with the use of this facility, please detail. In addition, please provide a listing of the fees charged by similar facilities, public and private, in the project area.

**ATTACHED**

*(For reviewer only)*  
*(1-6 points)*

---

---

**6) PROJECT VIABILITY:**

- a) What specific need in the community does this project fill? Is this project referenced or incorporated in an existing maritime management, public access or comp plan?

**THIS PROVIDES ADDITIONAL ACCESS FOR VESSELS DESIRING TO VISIT OUR COMMUNITY. THIS PROJECT WAS DISCUSSED AND RECOMMENDED BY THE CITY'S MARINE ADVISORY COMMISSION.**

- b) Clearly demonstrate how the project will continue to be maintained and funded after District funding is completed.

**MAINTENANCE FUNDS WILL BE APPROPRIATED ANNUALLY FROM THE MARINA FUND THROUGH THE CITY COUNCIL.**

- c) Will the program result in significant and lasting benefits? Explain.

**YES. THE ADDITIONAL SPACES PROVIDE SECURE ACCESS FOR VISITORS. IT PROVIDES A PLACE TO MOOR THAT WILL NOT DRAG AND DESTROY SUBMERGED AREAS.**

- d) Please describe any environmental benefits associated with this project.

**NO DRAGGING ANCHORS ON BOTTOM LAND.**

*(For reviewer only)*  
*(1-7 points)*

---

SUB-TOTAL \_\_\_\_\_

FIND FORM NO. 91-25

Rule 66B-2.005 (Effective Date: 3-21-01, Revised 4-24-06, 1-27-14)

**ATTACHMENT E-4A  
DEVELOPMENT & CONSTRUCTION PROJECTS**

**WATERWAYS ASSISTANCE PROGRAM  
APPLICATION AND EVALUATION WORKSHEET**

THIS ATTACHMENT IS TO BE COMPLETED IF YOUR PROJECT IS A  
DEVELOPMENT OR CONSTRUCTION PROJECT BUT IS NOT AN INLET  
MANAGEMENT OR BEACH RENOURISHMENT PROJECT.

---

**7) PERMITTING:**

- a) Have all required environmental permits been applied for? (USACE, DEP and WMD)  
If permits are NOT required, explain why not.

**NO**

- b) If the project is a Phase I project, list the tasks scheduled to obtain the necessary permits and engineering work and provide a general cost estimate for the future Phase II work.

**RETAIN AN ENGINEERING FIRM AFTER OCT. 1<sup>ST</sup> TO DO DESIGN AND ACQUIRE  
NECESSARY PERMITS.**

**PHASE II COSTS: \$60,000**

- c) Detail any significant impediments that may have been identified that would potentially delay the timely issuance of the required permits.

**ANY POSSIBLE UNANTICIPATED ENVIRONMENTAL CONCERNS.**

*(For reviewer only)  
(1-4 points)*



---

**8) PROJECT DESIGN:**

- a) Has the design work been completed? If this is a Phase I project, has a preliminary design been developed?

**PHASE I LOCATION AND NUMBER OF BUOYS HAS BEEN DEVELOPED.**

- b) Are there unique beneficial aspects to the proposed design that enhance public usage or access, minimize environmental impacts, improve water quality or reduce costs?

**PROVIDES MORE SPACES TO MOOR WITHOUT DRAGGING ANCHORS ON BOTTOM LAND.**

*(For reviewer only)*

*(1-2 points)*

---

**9) CONSTRUCTION TECHNIQUES:**

- a) Briefly explain the construction techniques to be utilized for this project. If a Phase 1, elaborate on potential techniques.

**A HELIX ANCHOR DRIVEN INTO THE BOTTOM AND A MOORING RODE AND BUOY ATTACHED.**

- b) How are the utilized construction techniques appropriate for the project site?

**INDUSTRY STANDARD**

- c) Identify any unusual construction techniques that may increase or decrease the costs of the project.

**NONE FORSEEN**

*(For reviewer only)*

*(1-3 points)*

---

---

**10) CONSTRUCTION MATERIALS:**

- a) List the materials to be utilized for this project. What is the design life of the proposed materials compared to other available materials?

**STEEL ANCHORS, NYLON LINES AND FOAM BUOYS**

- b) Identify any unique construction materials that may significantly alter the project costs.

**NONE FORSEEN**

*(For reviewer only)*  
*(1-3 points)*

---

**RATING POINT**  
**TOTAL** \_\_\_\_\_

(Note: The total maximum score possible is dependent upon the project priority category but cannot exceed 50 points unless the project qualifies as an emergency-related project. The minimum score possible is 10 points. A score of 35 points or more is required to be considered for funding.)





**ATTACHMENT E-6  
WATERWAYS ASSISTANCE PROGRAM 2017**

**PROJECT TIMELINE**

<b>Project Title:</b>	<b>VERO BEACH CITY MARINA MOORING FIELD EXPANSION</b>
<b>Applicant:</b>	<b>CITY OF VERO BEACH</b>

The applicant is to present a detailed timeline on the accomplishment of the components of the proposed project including, as applicable, completion dates for: permitting, design, bidding, applicant approvals, initiation of construction and completion of construction.

**NOTE: All funded activities must begin AFTER October 1<sup>st</sup>**  
(or be consistent with Rule 66B-2.005(3) - Pre-agreement expenses)

---

**PERMITTING AND ENGINEERING DESIGN – ISSUE RFP AFTER OCT 1ST**

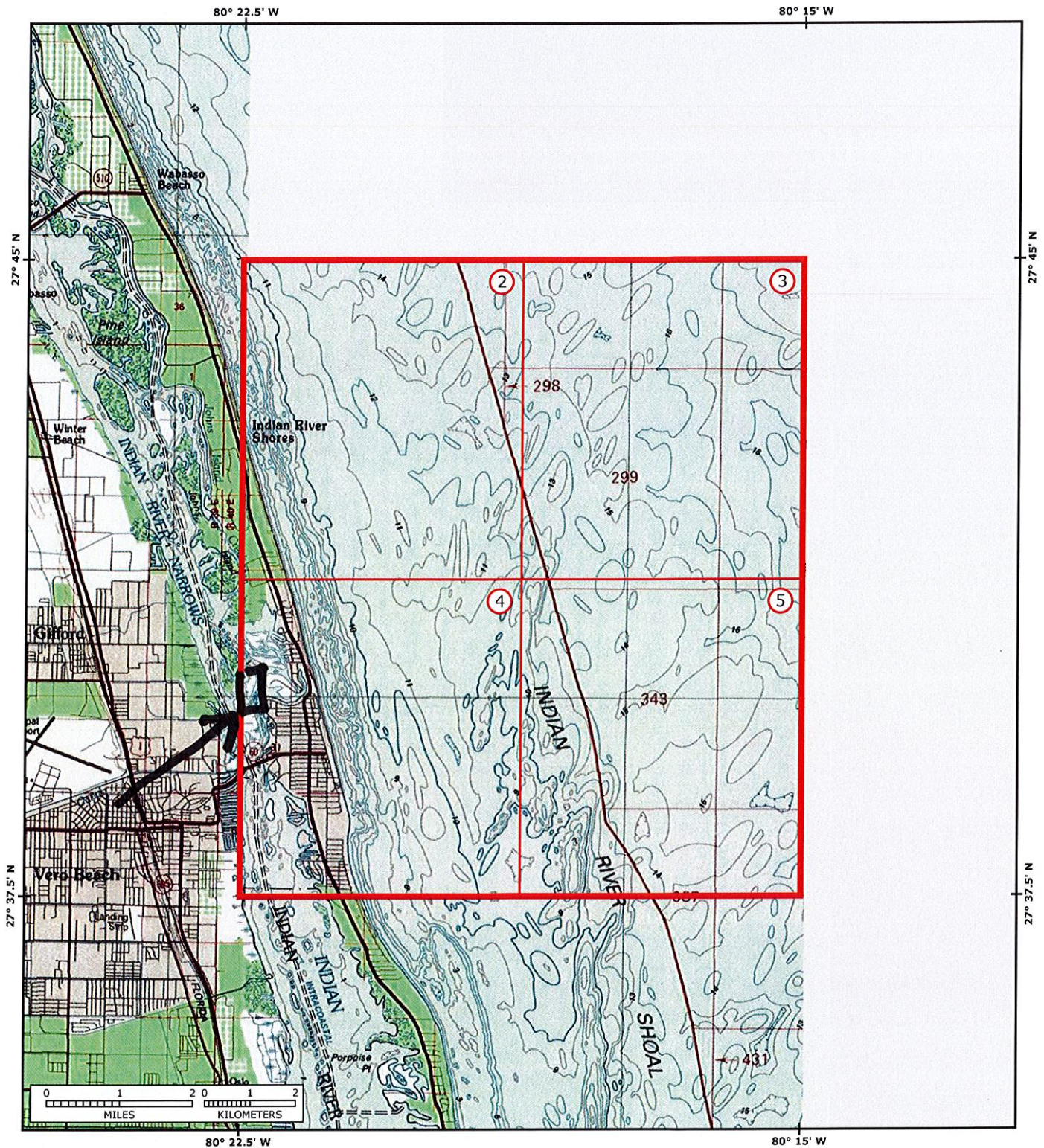


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Riomar, FL

Index Map - USGS 100K Map Series

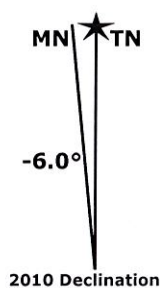
1



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Refer to the pages indicated on the above index for detailed 7.5' series USGS maps. As with all maps, inaccuracies may exist and conditions may change. User assumes all risk associated with the use of this map.

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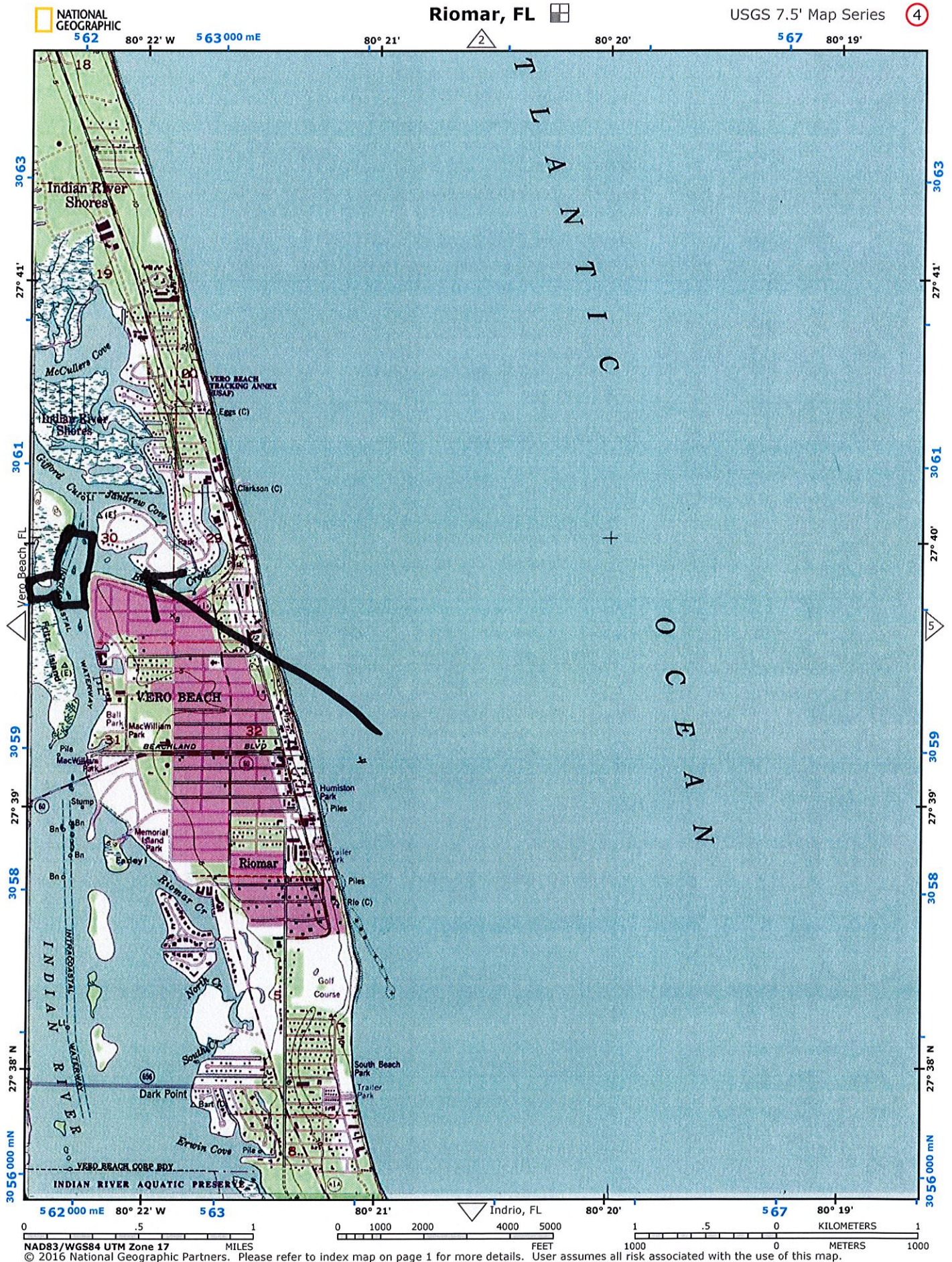


USGS Revision Date: 1992  
Contour Interval on 7.5' Maps: 5 ft  
Adjoining 7.5' Quads

NW	N	NE
W	*	E
SW	S	SE

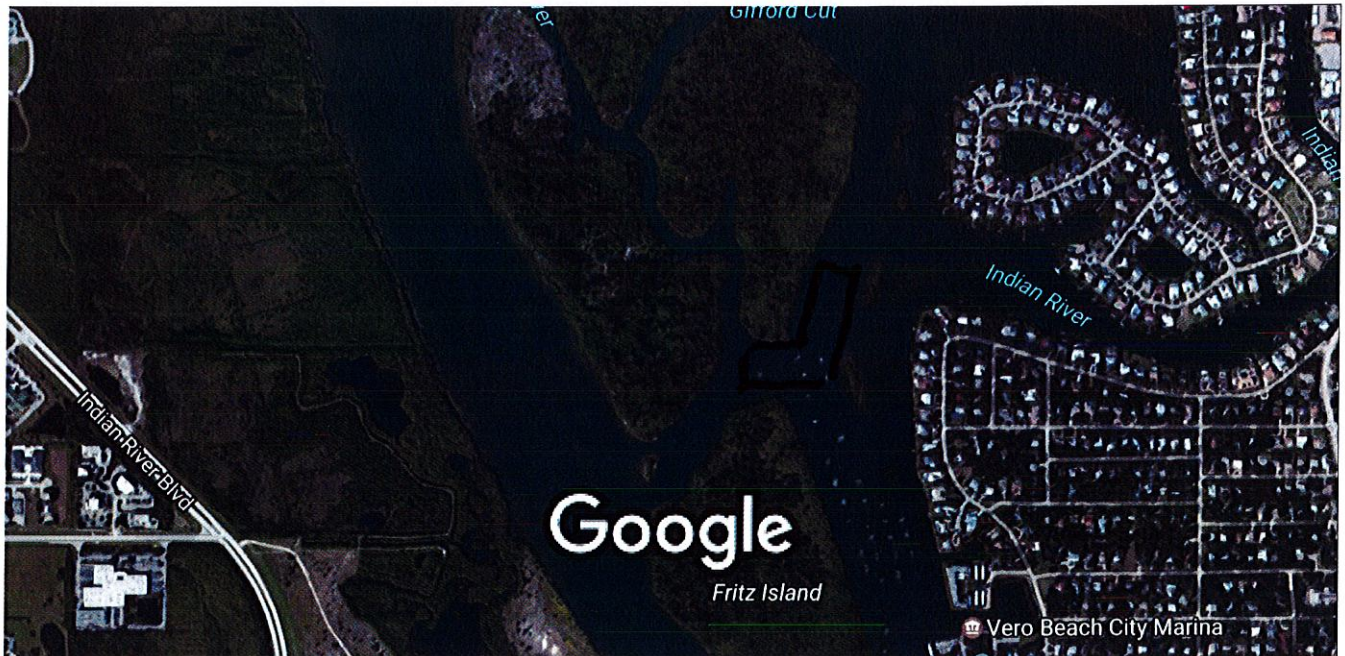
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N: Vero Beach, FL  
NE: **\* Riomar, FL**  
W: Oslo, FL  
E: Indrio, FL  
SW: Indrio, FL  
S: Indrio, FL  
SE: Indrio, FL







Google Maps



Imagery ©2017 Google, Map data ©2017 1000 ft  
Google

## ATTACHMENT E-2

**WATERWAYS ASSISTANCE PROGRAM FY 2017  
PROJECT APPLICATION  
APPLICANT INFORMATION – PROJECT SUMMARY**

<b>APPLICANT INFORMATION</b>			
<b>Applicant:</b> CITY OF VERO BEACH			
<b>Department:</b> MARINA			
<b>Project Title:</b> VERO BEACH CITY MARINA SMALL FLOATING DOCKS			
<b>Project Director:</b> TIM GRABENBAUER		<b>Title:</b>	MARINA DIRECTOR
<b>Project Liaison:</b> <i>(if different from Project)</i>		<b>Title:</b>	
<b>Mailing Address:</b>	3611 RIO VISTA BLVD.		
<b>City:</b> VERO BEACH, FLORIDA	<b>Zip Code:</b>	32963	
<b>Email Address:</b> MARINA@COVB.ORG	<b>Phone #:</b>	772.	
<b>Project Address:</b>	3611 RIO VISTA BLVD, VERO BEACH 32963		

\*\*\*\*\* I hereby certify that the information provided in this application is true and accurate. \*\*\*\*\*

SIGNATURE: \_\_\_\_\_

DATE: \_\_\_\_\_

3/31/17

**PROJECT NARRATIVE** (Please summarize the project in space provided below in 2 paragraphs or less.)

INSTALL TWO (2) DRIVE UP FLOATING DOCKS INSIDE OF EXISTING WET SLIPS TO OFFER MORE OUT OF WATER STORAGE.

## ATTACHMENT E-3 - PROJECT INFORMATION 2017

Applicant: CITY OF VERO BEACH		Project Title: VERO BEACHCITY MARINA SMALL FLOATING DOCKS	
Total Project Cost: \$ 25,000	FIND Funding Requested: \$ 12,500	% of Total Cost: 50	
Amount and Source of Applicant's Matching Funds: \$12,500			

1. Ownership of Project Site (check one): Own: ☒ Leased: ☐ Other: ☐

2. If leased or other, please describe lease or terms and conditions:

3. Has the District previously provided assistance funding to this project or site? Yes: ☐ No: ☐

4. If yes, please list:

PREVIOUS MOORING FIELD EXPANSION, UPLAND FACILITIES EXPANSION, FUEL DOCK EXPANSION, SOUTH COMPLEX PURCHASE

5. What is the current level of public access in terms of the number of boat ramps, boat slips and trailer parking spaces, linear feet of boardwalk (etc.)? (as applicable):

THIS AREA HAS 13 WET SLIPS

6. How many additional ramps, slips, parking spaces or other access features will be added by this project?

THE NUMBER OF WET SLIPS WILL NOT CHANGE, BUT WILL MAKE TWO (2) OF THEM OUT OF WATER STORAGE.

7. Are fees charged for the use of this project? No ☐ Yes ☒ \*\*

\*\*If yes, please attach additional documentation of fees and how they compare with fees from similar public & private facilities in the area.

Please list all Environmental Resource Permits required for this project:

AGENCY	Yes / No / N/A	Date Applied For	Date Received
WMD	N/A		
DEP	NO		
ACOE	NO		
COUNTY / CITY	NO		



**ATTACHMENT E-4****WATERWAYS ASSISTANCE PROGRAM  
APPLICATION AND EVALUATION WORKSHEET**

**DIRECTIONS:** All applicants will complete questions 1 through 6, and then based on the type of project, complete one and only one subsection (E-4A, B, C, D or E) for questions 7-10.

**\*\*Please keep your answers brief and do not change the pagination of Attachment E-4\*\***

All other sub-attachments that are not applicable to an applicant's project should not be included in the submitted application.

<b>Project Title:</b>	<b>VERO BEACH CITY MARINA SMALL FLOATING DOCKS</b>
<b>Applicant:</b>	<b>CITY OF VERO BEACH</b>

**1) PRIORITY LIST:**

**a) Denote the priority list category of this project from Attachment C in the application.** (The application may only be of one type based upon the predominant cost of the project elements.)  
**ACQUITION, DREDGING, SHORELINE STABILIZATION AND DEVELOPMENT OF PUBLIC BOAT DOCKING AND MOORING FACILITIES.**

**b) Explain how the project fits this priority category.**

**DEVELOPES A CURRENT WET SLIP INTO A DRY SLIP, ACCOMODATING CUSTOMER REQUESTS FOR MORE OUT OF WATER STORAGE.**

*(For reviewer only)*

*Max. Available Score for application*      47

*Question 1. Range of Score (1 to 5 points)*

---

**2) WATERWAY RELATIONSHIP:**

- a) Explain how the project relates to the ICW and the mission of the Navigation District.

**THIS PROJECT WILL PROVIDE UPGRADED ACCESS TO THE USERS OF THE DISTRICT'S WATERWAYS. OUR FACILITY (LOCATED ADJACENT TO THE AICW @ MILE 951) OFFERS PUMPOUTS, FUELING FACILITIES, INTERNET ACCESS AND FREE PUBLIC TRANSPORTATION.**

- b) What public access or navigational benefit to the ICW or adjoining waterway will result from this project?

**THE PUBLIC WILL HAVE ACCESS TO ADDITIONAL OUT OF WATER STORAGE.**

*(For reviewer only)*  
*(1-6 points)*

---

**3) PUBLIC USAGE & BENEFITS:**

- a) How is the public usage of this project clearly identified and quantified? Estimate the amount of total public use.

**THIS FACILITY IS 100% COMMITTED TO PUBLIC USAGE. THE ADDITION OF 2 SMALL FLOATING DOCKS WILL PROVIDE ADDITIONAL ACCESS TO OUT OF WATER STORAGE. WE PROVIDE UPLAND ACCESS TO RESTROOMS, SHOWERS AND SUPPLIES. ESTIMATED PUBLIC USE WILL BE 12 MONTHS OF THE YEAR.**

- b) Discuss the regional and local public benefits that will be provided by the project. Can residents from other counties of the District reasonably access and use the project? Explain.

**THIS PROJECT PROVIDES ADDITIONAL OUT OF THE WATER STORAGE IN OUR PART OF THE REGIONS. RESIDENTS WITH A SMALLER VESSEL, FROM OTHER PARTS OF THE DISTRICT, WOULD HAVE ACCESS TO THE PROJECT.**

- c) Are there any restrictions placed on commercial access or use of this site?

**NOT LOCALLY**

*(For reviewer only)*  
*(1-8 points)*

---

---

**4) TIMELINESS**

- a) Describe current status of the project and present a reasonable and effective timeline for the completion of the project consistent with Attachment E-6.

**INITIAL CONTACTS ON PRICING HAVE BEEN MADE. THE SUBMERGED LAND IN THE BASIN IS OWNED BY THE CITY. AN RFP WOULD BE INITIATED AFTER OCT. 1<sup>ST</sup>.**

- b) Briefly explain any unique aspects of this project that could influence the project timeline.

**NONE FORSEEN.**

*(For reviewer only)*  
*(1-3 points)*

---

**5) COSTS & EFFICIENCY:**

- a) List funding sources and the status and amount of the corresponding funding that will be utilized to complete this project.

**MATCHING FUNDS WILL BE PROVIDED BY THE MARINA FUND.**

- b) Identify and describe any project costs that may be increased because of the materials utilized or specific site conditions.

**NONE FORSEEN.**

- c) Describe any methods to be utilized to increase the cost efficiency of this project.

**BID PROCESS**

- d) If there are any fees associated with the use of this facility, please detail. In addition, please provide a listing of the fees charged by similar facilities, public and private, in the project area.

**ATTACHED.**

*(For reviewer only)*  
*(1-6 points)*

---



---

**6) PROJECT VIABILITY:**

- a) What specific need in the community does this project fill? Is this project referenced or incorporated in an existing maritime management, public assess or comp plan?

**WE RECEIVE MANY REQUESTS FOR OUT OF WATER STORAGE. UNFORTUNATELY WE CAN NOT ACCOMMODATE THEM ALL IN RACK STORAGE.**

- b) Clearly demonstrate how the project will continue to be maintained and funded after District funding is completed.

**MAINTENANCE FUNDS WILL BE APPROPRIATED ANNUALL FROM THE MARINA FUND THROUGH THE CITY COUNCIL.**

- c) Will the program result in significant and lasting benefits? Explain.

**YES. THE FLOATS WILL BE CONSTRUCTED OF UV RESISTANT PLASTICS WITH STAINLESS HARDWARE.**

- d) Please describe any environmental benefits associated with this project.

**A BOAT OUT OF THE WATER BOAT DOES NOT REQUIRE TOXIC BOTTOM PAINT.**

*(For reviewer only)*  
*(1-7 points)*

---

SUB-TOTAL \_\_\_\_\_

**ATTACHMENT E-4A  
DEVELOPMENT & CONSTRUCTION PROJECTS**

**WATERWAYS ASSISTANCE PROGRAM  
APPLICATION AND EVALUATION WORKSHEET**

THIS ATTACHMENT IS TO BE COMPLETED IF YOUR PROJECT IS A  
DEVELOPMENT OR CONSTRUCTION PROJECT BUT IS NOT AN INLET  
MANAGEMENT OR BEACH RENOURISHMENT PROJECT.

---

**7) PERMITTING:**

- a) **Have all required environmental permits been applied for? (USACE, DEP and WMD)**  
**If permits are NOT required, explain why not.**

**NONE REQUIRED. CITY OWNS SUBMERGED LAND.**

- b) **If the project is a Phase I project, list the tasks scheduled to obtain the necessary permits and engineering work and provide a general cost estimate for the future Phase II work.**

- c) **Detail any significant impediments that may have been identified that would potentially delay the timely issuance of the required permits.**

*(For reviewer only)*  
*(1-4 points)*

---

**8) PROJECT DESIGN:**

- a) **Has the design work been completed? If this is a Phase I project, has a preliminary design been developed?**

**I HAVE MET WITH MANUFACTURERS.**

- b) **Are there unique beneficial aspects to the proposed design that enhance public usage or access, minimize environmental impacts, improve water quality or reduce costs?**

**STORE VESSELS OUT OF WATER NEGATING THE NEED FOR ANTI-FOULANT PAINT.**

*(For reviewer only)*  
*(1-2 points)*

---

**9) CONSTRUCTION TECHNIQUES:**

- a) **Briefly explain the construction techniques to be utilized for this project. If a Phase 1, elaborate on potential techniques.**

**FLOATING DOCKS THAT ATTACH TO EXISTING FIXED DOCKS.**

- b) **How are the utilized construction techniques appropriate for the project site?**

**UTILIZES EXISTING DOCK FOR GUIDE.**

- c) **Identify any unusual construction techniques that may increase or decrease the costs of the project.**

**NONE KNOWN.**

*(For reviewer only)*  
*(1-3 points)*

---



---

**10) CONSTRUCTION MATERIALS:**

- a) List the materials to be utilized for this project. What is the design life of the proposed materials compared to other available materials?

**UV RESISTANT PLASTICS WITH STAINLESS HARDWARE.**

- b) Identify any unique construction materials that may significantly alter the project costs.

**NONE KNOWN**

*(For reviewer only)*  
*(1-3 points)*

---

**RATING POINT**  
**TOTAL** \_\_\_\_\_

(Note: The total maximum score possible is dependent upon the project priority category but cannot exceed 50 points unless the project qualifies as an emergency-related project. The minimum score possible is 10 points. A score of 35 points or more is required to be considered for funding.)

## ATTACHMENT E-5

**FLORIDA INLAND NAVIGATION DISTRICT  
ASSISTANCE PROGRAM 2017**

## PROJECT COST ESTIMATE

**(See Rule Section 66B-2.005 & 2.008 for eligibility and funding ratios)**

<b>Project Title:</b>	VERO BEACH CITY MARINA SMALL FLOATING DOCKS
<b>Applicant:</b>	CITY OF VERO BEACH

<b>Project Elements</b> <i>(Please list the MAJOR project elements and provide general costs for each one. For Phase I Projects, please list the major elements and products expected)</i>	<b>Quantity or Total Estimated Cost</b> <b>(Number and/or Footage etc.)</b>	<b>Applicant's Cost</b>	<b>FIND Cost</b>
<b>PURCHASE AND CONSTRUCTION</b>	<b>\$25,000</b>	<b>\$12,500</b>	<b>\$12,500</b>

<b>**TOTALS =</b>	<b>\$ 25,000</b>	<b>\$ 12,500</b>	<b>\$ 12,500</b>
-------------------	------------------	------------------	------------------

**ATTACHMENT E-6  
WATERWAYS ASSISTANCE PROGRAM 2017**

**PROJECT TIMELINE**

<b>Project Title:</b>	<b>VERO BEACH CITY MARINA SMALL FLOATING DOCKS</b>
<b>Applicant:</b>	<b>CITY OF VERO BEACH</b>

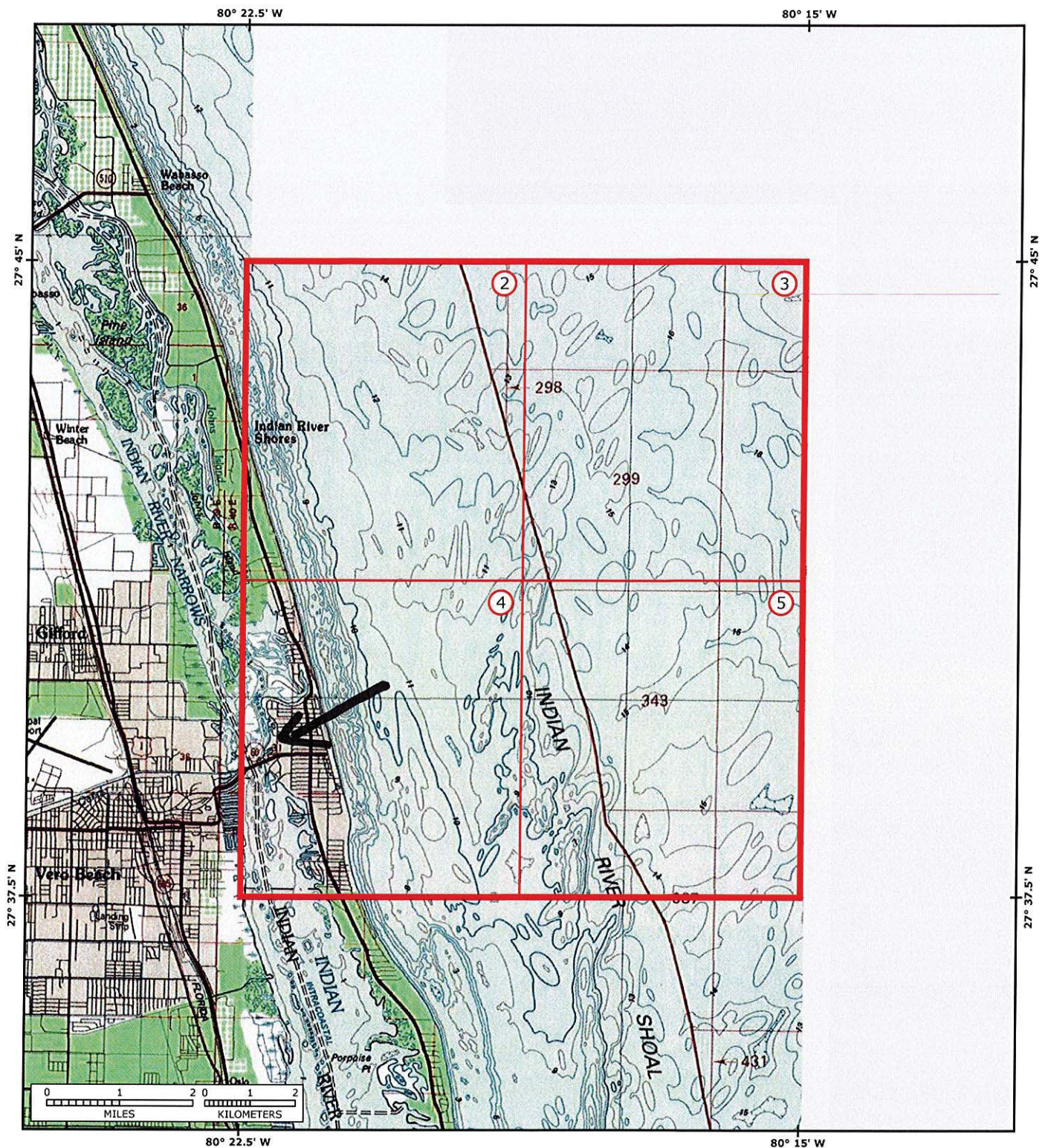
The applicant is to present a detailed timeline on the accomplishment of the components of the proposed project including, as applicable, completion dates for: permitting, design, bidding, applicant approvals, initiation of construction and completion of construction.

**NOTE: All funded activities must begin AFTER October 1<sup>st</sup>**  
(or be consistent with Rule 66B-2.005(3) - Pre-agreement expenses)

---

**PURCHASE AND CONSTRUCTION – ISSUE RFP AFTER OCT 1ST**

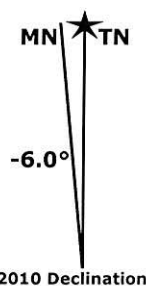




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Refer to the pages indicated on the above index for detailed 7.5' series USGS maps. As with all maps, inaccuracies may exist and conditions may change. User assumes all risk associated with the use of this map.

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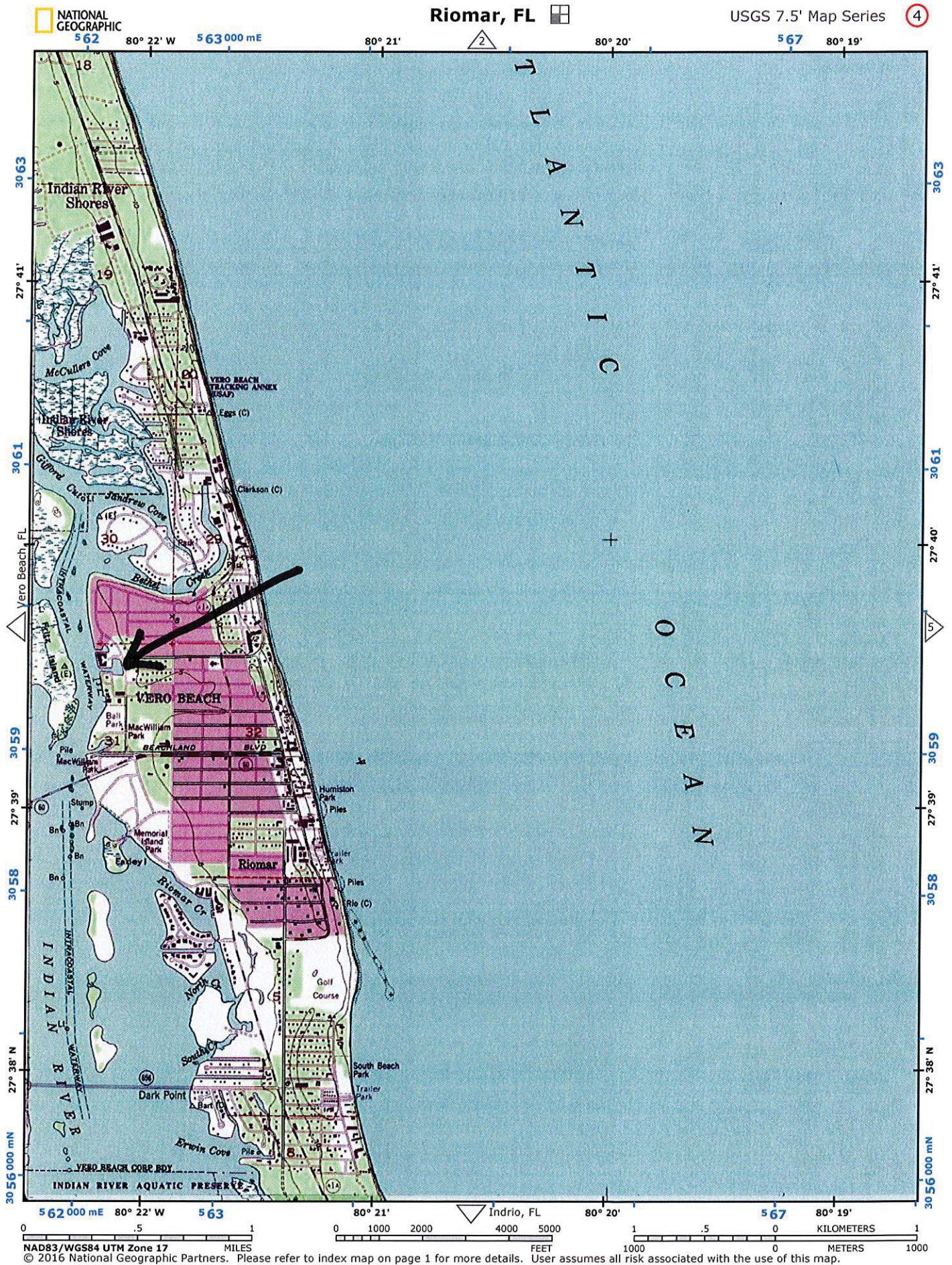


USGS Revision Date: 1992  
Contour Interval on 7.5' Maps: 5 ft  
Adjoining 7.5' Quads

NW	N	NE
W	*	E
SW	S	SE

NW: Sebastian, FL  
N: Vero Beach, FL  
NE: Riomar, FL  
W: Oslo, FL  
E: Indrio, FL  
SW: SE:







Google Maps



Imagery ©2017 Google, Map data ©2017 Google 50 ft



## ATTACHMENT E-2

**WATERWAYS ASSISTANCE PROGRAM FY 2017  
PROJECT APPLICATION  
APPLICANT INFORMATION – PROJECT SUMMARY**

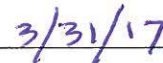
<b>APPLICANT INFORMATION</b>			
<b>Applicant:</b> Indian River County			
<b>Department:</b> Community Development			
<b>Project Title:</b> Oyster Bar Marsh Trail			
<b>Project Director:</b> Roland M. DeBlois, AICP		<b>Title:</b>	Chief, Environmental Planning
<b>Project Liaison:</b> <i>(if different from Project Director)</i>	N/A	<b>Title:</b>	N/A
<b>Mailing Address:</b>	1801 27 <sup>th</sup> Street, Building A		
<b>City:</b> Vero Beach, Florida		<b>Zip Code:</b>	32960
<b>Email Address:</b> <a href="mailto:rdeblois@ircgov.com">rdeblois@ircgov.com</a>		<b>Phone #:</b>	772-226-1258
<b>Project Address:</b>	S Highway A1A, Vero Beach, FL 32963 (0.8 miles north of IRC/St Lucie County Line)		

\*\*\*\*\* I hereby certify that the information provided in this application is true and accurate. \*\*\*\*\*

SIGNATURE: \_\_\_\_\_



DATE: \_\_\_\_\_



**PROJECT NARRATIVE** (Please summarize the project in space provided below in 2 paragraphs or less.)

The Oyster Bar Marsh consists of a total of approximately 155 acres of publicly and privately owned maritime hammock and impounded wetland habitats. To date, 96 acres of the 155 acres have been purchased by Indian River County (IRC) and an additional 30 contiguous acres have been acquired by the Indian River Land Trust (IRLT) with the shared goals of conservation and management of the delicate Oyster Bar Marsh natural and cultural resources. Additional goals include development of public access facilities that incorporate environmental education and outdoor recreation opportunities.

The Oyster Bar Marsh Trail project seeks to develop an approximately 7,100 ft long interpretive shared use recreational trail for hikers and bicyclists on an existing five foot wide mosquito impoundment berm adjacent to the Indian River Lagoon (IRL). Also proposed, are the construction of parking/trailhead area adjacent to US Highway A1A, a wildlife observation overlook interior to the impoundment, an exterior pavilion overlooking the Indian River Lagoon, and boardwalks along the trail to provide access to the overlook from the impoundment berm.

## ATTACHMENT E-3 - PROJECT INFORMATION 2017

<b>Applicant: Indian River County</b>		<b>Project Title: Oyster Bar Marsh Trail</b>
<b>Total Project Cost: \$281,700</b>	<b>FIND Funding Requested: \$140,850</b>	<b>% of Total Cost: 50%</b>
<b>Amount and Source of Applicant's Matching Funds:</b>	<b>Indian River County – \$140,850.00 – optional sales tax and land acquisition bond proceeds</b>	

**1. Ownership of Project Site (check one):** Own: ☒ Leased: ☐ Other: ☐

**2. If leased or other, please describe lease or terms and conditions:**

MOU with Indian River Land Trust

**3. Has the District previously provided assistance funding to this project or site?** Yes: ☐ No: ☒

**4. If yes, please list:**

**5. What is the current level of public access in terms of the number of boat ramps, boat slips and trailer parking spaces, linear feet of boardwalk (etc.)?** (as applicable): There is currently no public access to this property or to the Indian River Lagoon via this property.

**6. How many additional ramps, slips, parking spaces or other access features will be added by this project?** A stabilized entrance road to the property with parking area for 10-15 spaces, and trailhead kiosk and picnic features will be added as part of this project. Also, two boardwalk spans (135' and 300' in length) to a wildlife observation deck/overlook within the Oyster Bar Marsh impoundment, a pavilion overlooking the Indian River Lagoon, and educational/interpretive, directional and informational signage will be added.

**7. Are fees charged for the use of this project?** No ☒ Yes ☐ \*\*

**\*\*If yes, please attach additional documentation of fees and how they compare with fees from similar public & private facilities in the area.**

**Please list all Environmental Resource Permits required for this project:**

AGENCY	Yes / No / N/A	Date Applied For	Date Received
WMD	Yes	In progress	Not Applicable
DEP	No		
ACOE	Yes	In progress	Not Applicable
COUNTY / CITY	Yes, County Site Plan	In progress	Not applicable

**ATTACHMENT E-4****WATERWAYS ASSISTANCE PROGRAM  
APPLICATION AND EVALUATION WORKSHEET**

**DIRECTIONS:** All applicants will complete questions 1 through 6, and then based on the type of project, complete one and only one subsection (E-4A, B, C, D or E) for questions 7-10.

**\*\*Please keep your answers brief and do not change the pagination of Attachment E-4\*\***

All other sub-attachments that are not applicable to an applicant's project should not be included in the submitted application.

<b>Project Title:</b>	Oyster Bar Marsh Trail
<b>Applicant:</b>	Indian River County

**1) PRIORITY LIST:**

- a) Denote the priority list category of this project from Attachment C in the application.** (The application may only be of **one** type based upon the predominant cost of the project elements.)  
#12. Public waterfront parks and boardwalks and associated improvements

- b) Explain how the project fits this priority category.**

The major project features and predominant costs associated with this project are derived from the construction of the shared-use trail boardwalks (including wetland observation deck/overlook), IRL pavilion. Also, the addition of a stabilized roadway access and parking facilities will complement and facilitate use of the trail and boardwalk features.

*(For reviewer only)*

Max. Available Score for application 45

Question 1. Range of Score (1 to 3 points)



---

**2) WATERWAY RELATIONSHIP:****a) Explain how the project relates to the ICW and the mission of the Navigation District.**

The project will provide public access to view miles of the Indian River Lagoon including the ICW and surrounding areas to the east and west of the ICW. Moreover, approximately 155 acres of mangrove dominated wetlands and approximately 1.3 miles of IRL shoreline would become accessible.

**b) What public access or navigational benefit to the ICW or adjoining waterway will result from this project?**

Not applicable

*(For reviewer only)*  
*(1-6 points)*

---

**3) PUBLIC USAGE & BENEFITS:****a) How is the public usage of this project clearly identified and quantified? Estimate the amount of total public use.**

The project is located on, and is accessed from, an arterial roadway (Highway A1A) via an unpaved driveway that is currently used by mosquito control district staff for management of the impoundment. The property is accessible for pedestrians and bicyclists; though, the level of usage by the public has not been quantified to date. Based on the usage of comparable county-owned public conservation areas and frequency of vehicles being observed by County and mosquito control district staff along the current access road, this project is expected to be around 20-50 visitors per day during peak season (October – May).

**b) Discuss the regional and local public benefits that will be provided by the project. Can residents from other counties of the District reasonably access and use the project? Explain.**

The project will be open to the general public to provide a broad array of passive recreational and educational opportunities. Educational materials will highlight the uniqueness and functions of IRL and impoundment wetland ecosystems; meanwhile, providing public awareness and engagement in natural resource conservation and enhancement efforts in the County. The project will provide reasonable access to the general public at large through County and IRLT public outreach and marketing efforts. Signage and navigational aids will also be provided to improve park visibility.

**c) Are there any restrictions placed on commercial access or use of this site?**

Commercial use of these facilities will not be permitted. Appropriate signage will be provided indicating permitted uses.

*(For reviewer only)*  
*(1-8 points)*

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#### 4) TIMELINESS

- a) Describe current status of the project and present a reasonable and effective timeline for the completion of the project consistent with Attachment E-6.**

The preliminary design work being privately funded by the Indian River Land Trust is in process with an estimated completion date of July 2017. Once a complete design has been prepared permitting with appropriate agencies will commence. If funded, the County could begin construction of this project by January 2018 with an estimated completion and park opening by the second quarter of 2018.

- b) Briefly explain any unique aspects of this project that could influence the project timeline.**

The presence of wetlands within the proposed parking/trailhead areas and the proposed boardwalks, pavilion, and overlook structures that span wetlands all require review by multiple agencies, which can potentially delay the issuance of environmental resource permits. Impacts to wetlands may require mitigation and delays can occur as options are explored. Preliminary meetings have occurred with jurisdictional agencies regarding the project and permitting is expected to be completed by the September deadline.

*(For reviewer only)*  
*(1-3 points)*

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#### 5) COSTS & EFFICIENCY:

- a) List funding sources and the status and amount of the corresponding funding that will be utilized to complete this project.**

Indian River County: \$140,850.00 – funds projected from BCC as a match for grant.

- b) Identify and describe any project costs that may be increased because of the materials utilized or specific site conditions.**

As with similar county trail boardwalk projects, construction of the wetland boardwalks and overlooks with synthetic materials is preferred over the use of traditional pressure treated wood construction because they double the lifespan of the structures. However, synthetic materials add considerable initial construction costs. Mitigation of shoreline mangrove impacts may require boardwalk alterations that could increase costs.

- c) Describe any methods to be utilized to increase the cost efficiency of this project.**

Wetland delineation work can be completed by qualified County staff rather than by outside consultants and wetland impacts will be minimized to reduce mitigation costs.

- d) If there are any fees associated with the use of this facility, please detail. In addition, please provide a listing of the fees charged by similar facilities, public and private, in the project area.**

No fees will be required for the use of this facility.

*(For reviewer only)*  
*(1-6 points)*

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**6) PROJECT VIABILITY:**

- a) What specific need in the community does this project fill? Is this project referenced or incorporated in an existing maritime management, public access or comp plan?**

While Indian River County contains vast tracts of land along the IRL that are publicly owned, there remains a need in the community for public access facilities that enable passive public recreational use of the IRL while also promoting environmental stewardship through interpretive education. The improvement of access facilities and development of coastal trails, boardwalks and scenic overlooks fulfills this need. This project also provides miles of pedestrian/bicycle trails that are safely removed from busy public thoroughfares; meanwhile, maintaining connectivity to existing shared use facilities along Highway A1A. Increasing the number of public access points to the IRL is Objective 8 listed in the Indian River County comprehensive plan coastal management element.

- b) Clearly demonstrate how the project will continue to be maintained and funded after District funding is completed.**

The County is responsible for management of all its conservation lands. A Conservation Lands Manager will work closely with the Indian River Land Trust to keep trails clean and report any problems or concerns. In addition, the Indian River Mosquito Control District has agreed to assist with trail maintenance and to report any problems it encounters during its weekly tours of the mangrove forest along the mosquito impoundment road.

- c) Will the program result in significant and lasting benefits? Explain.**

The significant and lasting benefits of the project relate to public educational opportunities and appreciation of site natural resources; resource conservation; and public access to preserved open space.

- d) Please describe any environmental benefits associated with this project.**

Potential environmental benefits would include restoration of the impounded wetland hydrology through berm/trail improvements, maintenance and as a potential wetland mitigation proposal to satisfy wetland impacts resulting from parking facility construction. Intangible environmental benefits may also arise from the promotion of wildlife and natural resource stewardship, and by highlighting intrinsic values offered by natural wetland ecosystems.

*(For reviewer only)*  
*(1-7 points)*

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SUB-TOTAL \_\_\_\_\_



**ATTACHMENT E-4A  
DEVELOPMENT & CONSTRUCTION PROJECTS**

**WATERWAYS ASSISTANCE PROGRAM  
APPLICATION AND EVALUATION WORKSHEET**

THIS ATTACHMENT IS TO BE COMPLETED IF YOUR PROJECT IS A  
DEVELOPMENT OR CONSTRUCTION PROJECT BUT IS NOT AN INLET  
MANAGEMENT OR BEACH RENOURISHMENT PROJECT.

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**7) PERMITTING:**

- a) Have all required environmental permits been applied for? (USACE, DEP and WMD)  
If permits are NOT required, explain why not.**

Preliminary meetings have occurred with the jurisdictional agencies regarding the project; however, applications have not been submitted. Final engineering plans are expected to be completed by July 2017 and permit applications will subsequently be submitted to the agencies. Based on the preliminary meetings and scope of work, permitting is expected to be completed by the established FIND grant deadline.

- b) If the project is a Phase I project, list the tasks scheduled to obtain the necessary permits and engineering work and provide a general cost estimate for the future Phase II work.**

As proposed, the project will be completed as a single phase.

- c) Detail any significant impediments that may have been identified that would potentially delay the timely issuance of the required permits.**

Environmental resource permits may be delayed if wetland impacts are greater than anticipated and if mitigation options require additional review.

*(For reviewer only)  
(1-4 points)*

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**8) PROJECT DESIGN:**

- a) Has the design work been completed? If this is a Phase I project, has a preliminary design been developed?**

The conceptual design work is complete and preliminary engineering plans are being produced. Plans will be finalized and submitted as part of the environmental permitting process.

- b) Are there unique beneficial aspects to the proposed design that enhance public usage or access, minimize environmental impacts, improve water quality or reduce costs?**

The project: 1) will provide for passive public recreational uses and interpretive educational features; 2) will tie into existing shared-use facilities along Highway A1A; 3) the parking layout will preserve existing protected/specimen trees and native vegetation to the greatest extent possible and will use permeable parking surfaces to reduce runoff and improve water quality and; 4) the proposed parking area, wetland boardwalks, pavilion and observation decks, and portions of the upland trail will be ADA accessible.

*(For reviewer only)*  
*(1-2 points)*

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**9) CONSTRUCTION TECHNIQUES:**

- a) Briefly explain the construction techniques to be utilized for this project. If a Phase 1, elaborate on potential techniques.**

Small equipment (e.g. skid-steer, track hoe, etc.) and handwork, rather than large equipment, will be used to maneuver around vegetation as much as possible. Where possible the wetland boardwalks and observation deck will be constructed from the walkway structure itself to minimize wetlands impacts and reduce costs.

- b) How are the utilized construction techniques appropriate for the project site?**

There are desirable mangrove trees and native vegetation onsite that will be preserved by using low impact construction techniques. Additionally, invasive species may best be treated and removed by hand in these highly sensitive areas, thereby reducing potential natural resource impacts.

- c) Identify any unusual construction techniques that may increase or decrease the costs of the project.**

While not unusual for dock construction, installation of pilings for the boardwalks, pavilion, and observation deck may require the use of a small floating barge or spud barge, which could increase costs. Small equipment and handwork may increase the construction costs but will minimize environmental impacts, resulting in reduced overall project costs.

*(For reviewer only)*  
*(1-3 points)*

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**10) CONSTRUCTION MATERIALS:**

- a) **List the materials to be utilized for this project. What is the design life of the proposed materials compared to other available materials?**

Recycled plastic for trail boardwalks, pavilion and observation deck material – 40 years compared to 20 years for traditional pressure treated wood construction.

Parking lot areas will be stabilized with crushed coquina shell, geotextile fabric or pervious concrete (lifespan 20-30 years).

- b) **Identify any unique construction materials that may significantly alter the project costs.**

Using recycled plastic for the boardwalks, pavilion and observation deck will increase the initial construction costs of the project.

*(For reviewer only)*  
*(1-3 points)*

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**RATING POINT  
TOTAL** \_\_\_\_\_

(Note: The total maximum score possible is dependent upon the project priority category but cannot exceed 50 points unless the project qualifies as an emergency-related project. The minimum score possible is 10 points. A score of 35 points or more is required to be considered for funding.)



## ATTACHMENT E-5

**FLORIDA INLAND NAVIGATION DISTRICT  
ASSISTANCE PROGRAM 2017**

**PROJECT COST ESTIMATE**

**(See Rule Section 66B-2.005 & 2.008 for eligibility and funding ratios)**

<b>Project Title:</b>	Oyster Bar Marsh Trail
<b>Applicant:</b>	Indian River County

<b>Project Elements</b> <i>(Please list the MAJOR project elements and provide general costs for each one. For Phase I Projects, please list the major elements and products expected)</i>	<b>Quantity or Total Estimated Cost (Number and/or Footage etc.)</b>	<b>Applicant's Cost</b>	<b>FIND Cost</b>
Entrance road and parking area (10-15 parking spaces and landscaping)	50,000.00	25,000.00	25,000.00
Entrance Gate	1,500.00	750.00	750.00
Trailhead	2,000.00	1,000.00	1,000.00
Interpretive signs	12,000.00	6,000.00	6,000.00
Directional and informational signage	1,200.00	600.00	600.00
Lagoon observation pavilion	45,000.00	22,500.00	22,500.00
Northern boardwalk – (interior wetland)	50,000.00	25,000.00	25,000.00
Southern boardwalk – (bypasses private property)	100,000.00	50,000.00	50,000.00
Habitat restoration	20,000.00	10,000.00	10,000.00

<b>**TOTALS =</b>	<b>\$ 281,700.00</b>	<b>\$ 140,850.00</b>	<b>\$ 140,850.00</b>
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**ATTACHMENT E-6  
WATERWAYS ASSISTANCE PROGRAM 2017**

**PROJECT TIMELINE**

<b>Project Title:</b>	Oyster Bar Marsh Trail
<b>Applicant:</b>	Indian River County

The applicant is to present a detailed timeline on the accomplishment of the components of the proposed project including, as applicable, completion dates for: permitting, design, bidding, applicant approvals, initiation of construction and completion of construction.

**NOTE: All funded activities must begin AFTER October 1<sup>st</sup>**  
(or be consistent with Rule 66B-2.005(3) - Pre-agreement expenses)

Calendar Year 2017									Calendar Year 2018				
Q2			Q3			Q4			Q1			Q2	
Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	
Finalize Plans													
County Site Plan and Permit Approval													
State Permit Approval													
Federal Permit Approval													
					Grant contracts								
					Bidding Period								
								Construction			Certifications		



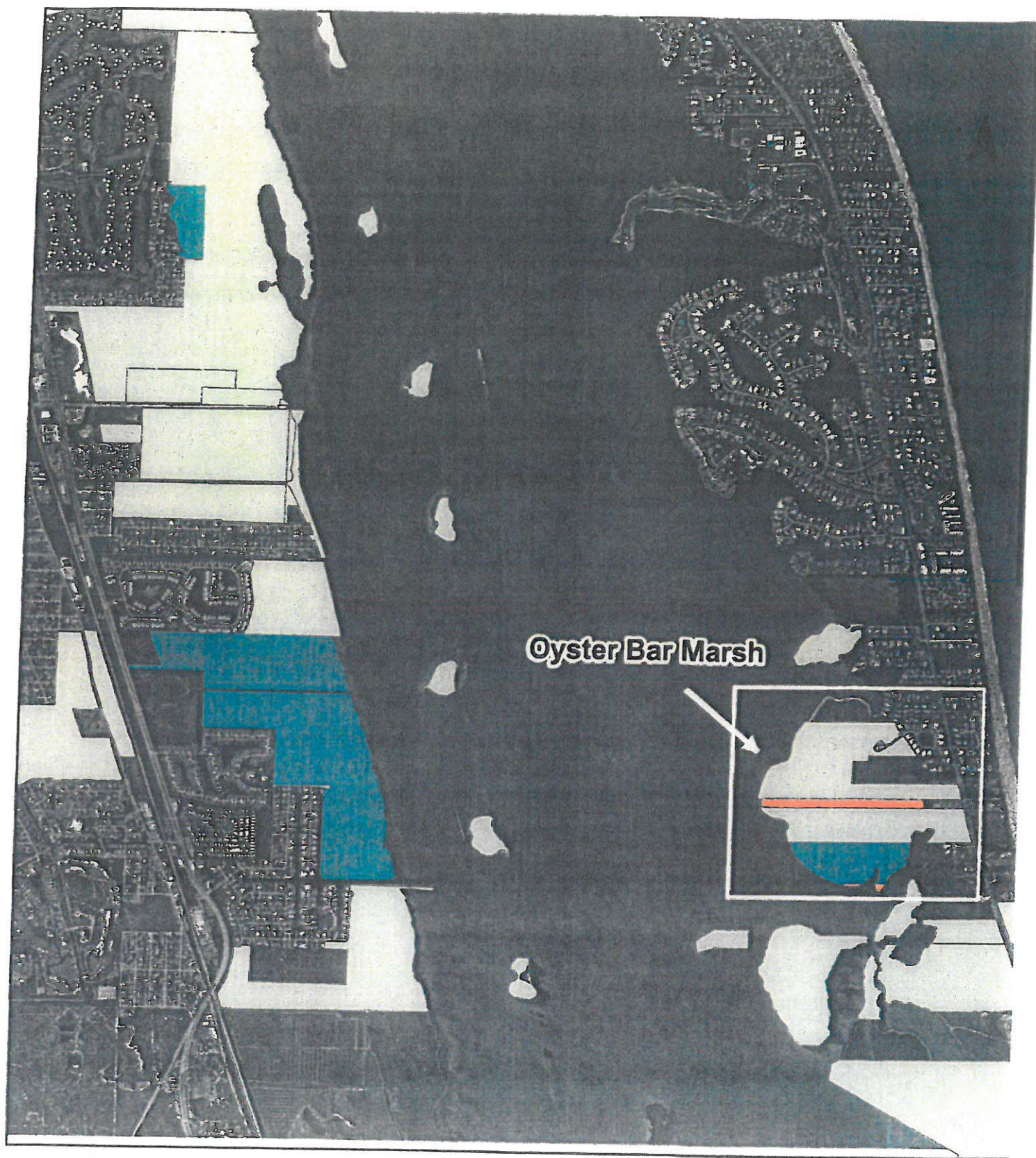


Figure 1. Oyster Bar Marsh Vicinity Map.

- IRLT Conservation Lands
- Other Conservation Lands
- Priority Conservation Areas



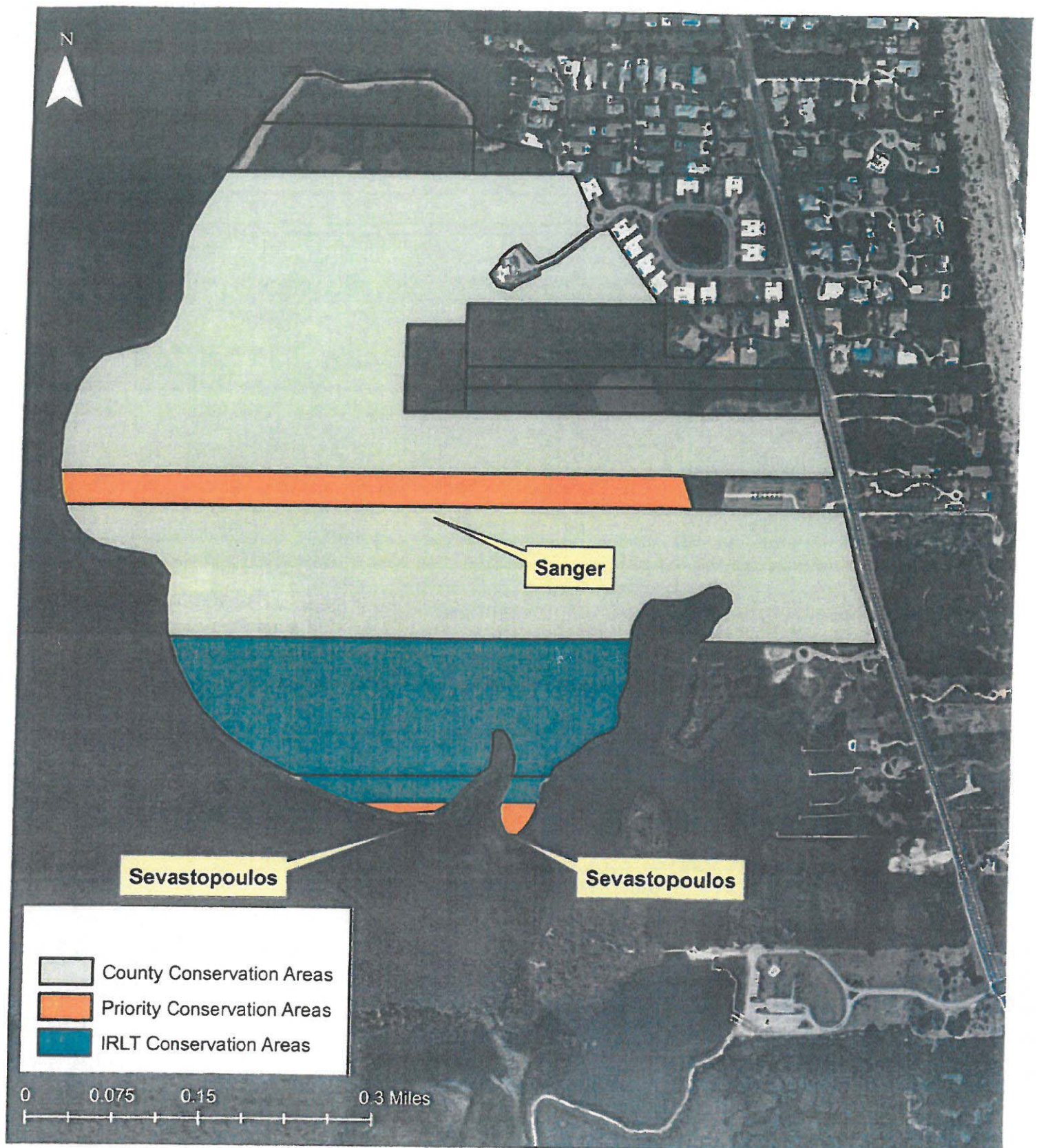


Figure 2. Individual ownership of key parcels within Oyster Bar Marsh



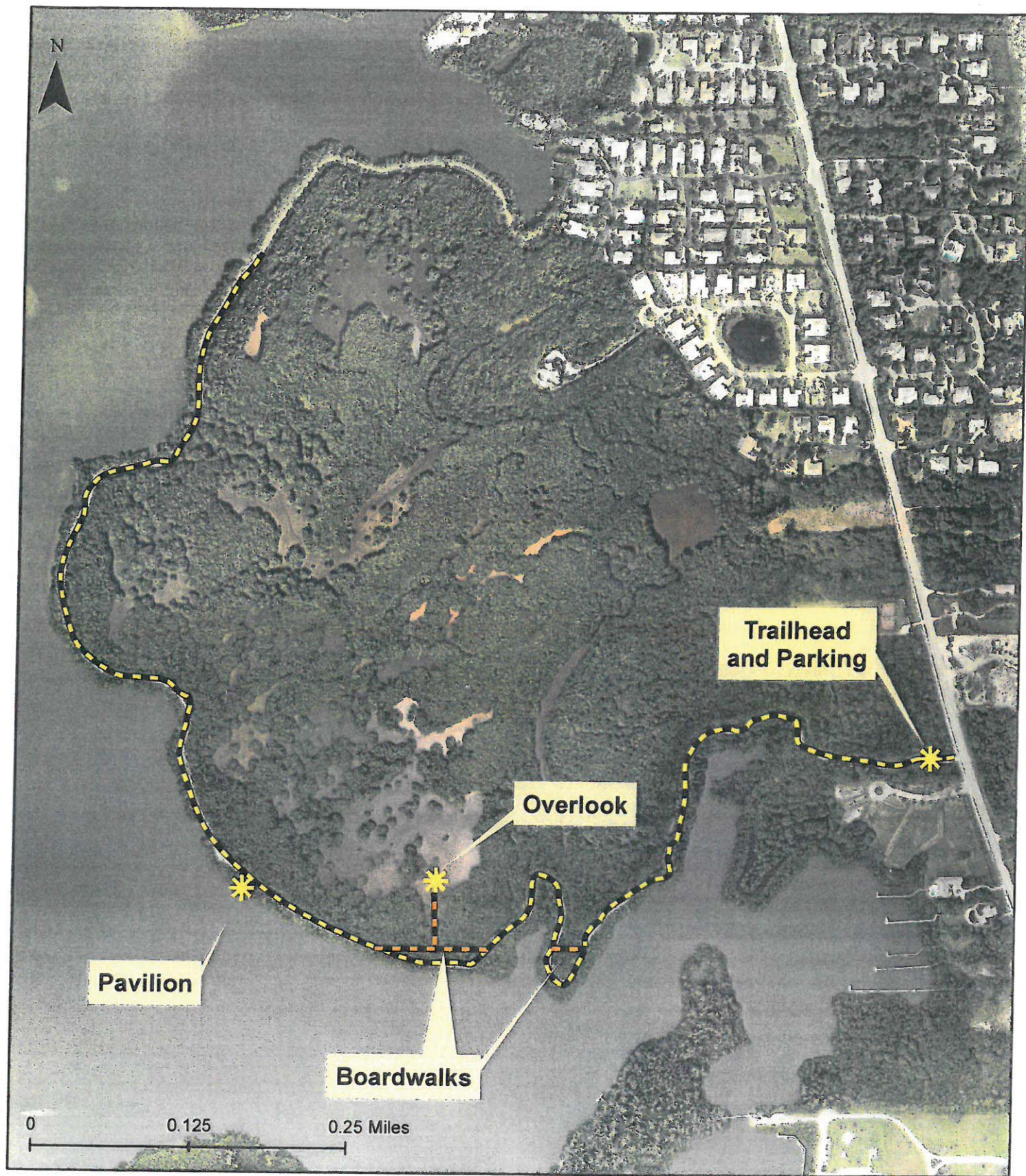


Figure 3. Proposed Oyster Bar Marsh Trail



ALCALDE & FAY

GOVERNMENT & PUBLIC AFFAIRS CONSULTANTS

May 25, 2017

MEMORANDUM

**TO:** Mark Crosley, Executive Director  
Janet Zimmerman, Assistant Executive Director

**FROM:** Jim Davenport

**SUBJECT:** Federal Legislative Report

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First and foremost, we are pleased to report that the Intracoastal Waterway received \$2.85 million in the fiscal year (FY) 2017 Army Corps of Engineers Work Plan (see attached), which was released on May 24. We were just as pleased to see that the Army Corps of Engineers Budget Request for FY 2018, released on May 23, requests \$3.56 million for the IWW and \$2.224 million for the Atlantic Intracoastal Waterway. As you know, the Corps has not requested more than \$850,000 for the IWW since 2002. The Corps Budget request for the IWW and AIWW puts us in a great position for obtaining money in the FY 2018 Work Plan for these projects, and we look forward to working with FIND and your congressional delegation to obtain the money in next year's Work Plan.

While the IWW and AIWW are included in the Administration's FY 2018 Budget Request, the Budget does propose a \$976 million cut to the Army Corps of Engineers from the FY 2017 enacted level. This cut is similar to previous proposed cuts by other administrations. However, Congress typically adds in another \$1 billion to the Corps budget each year through the appropriations process.

For your information, the Administration's budget also proposes adding an annual fee to commercial barge operators on inland waterways, saying it would raise more than \$1 billion over the next 10 years. Federal law requires operators to pay for 50 percent of construction and repair costs the Army Corps of Engineers incurs on inland waterways. That money is collected through a diesel fuel tax of 29 cents per gallon, but the fiscal 2018 budget request is seeking "an annual fee to increase the amount paid by commercial navigation users."

Please contact us with any questions.



Army Civil Works Program  
FY 2017 Work Plan - Operation and Maintenance

STATE	DIVISION	BUSINESS PROGRAM 2/	PROJECT OR PROGRAM	STATEMENT OF MANAGERS AMOUNT 1/	ADDITIONAL WORK PLAN AMOUNT	STATEMENT OF MANAGERS AND WORK PLAN TOTAL AMOUNT 2/	LINE ITEM OF ADDITIONAL FUNDING 2/	FY 2017 BUDGETED AMOUNT JUSTIFICATION	FY 2017 ADDITIONAL FUNDING JUSTIFICATION
FL	SAD	NHD	CANAVERAL HARBOR, FL	\$4,069,000	\$5,803,000	\$9,872,000	2	N: \$4,069,000- Perform routine operations and maintenance in support of navigation.	Florida Shore Protection Project (North Reach); Initiate Plans and Specs for Critical Major Maintenance - Canaveral Lock; Refurbish protective rip rap on the northwest island – Canaveral; Replace lock electrical service- Canaveral
FL	SAD	ENS, FDRR, NHS, REC	CENTRAL & SOUTHERN FLORIDA, FL	\$14,889,000	\$0	\$14,889,000		N: \$867,000- Perform routine operations in support of navigation. RC: \$872,000 - Perform routine operations in support of recreation. Non-routine maintenance activities include boat ramp improvements (\$60,000). There is a total of \$77,000 for sustainability work on this project to include permitting and engineering of sewage and septic maintenance, and water efficiency upgrades. EN: \$646,000- Perform routine operations in support of environmental stewardship.	
FL	SAD	NHD	FERNANDINA HARBOR, FL	\$0	\$2,090,000	\$2,090,000	2		Nassau County Shore Protection Project Plans and Specifications post Hurricane Matthew; Nassau County Shore Protection Project Construction & Construction Management post Hurricane Matthew
FL	SAD	NHD	FORT PIERCE HARBOR, FL	\$0	\$3,903,000	\$3,903,000	2		Plans & Specifications Sand Mitigation of Navigation Impacts; Construction and Construction Management - Mitigation of Navigation Impacts
FL	SAD	FDRR	INSPECTION OF COMPLETED WORKS, FL	\$1,272,000	\$0	\$1,272,000		FRM: \$1,272,000. The Inspection of Completed Works (ICW) activities encompass all federally constructed and locally-maintained flood risk management projects. Because of the potential risk to life safety, the majority of ICW activities focus on approximately 11,750 miles of federally-authorized and locally maintained levee systems. The ICW activities are essential to insure that federally-authorized flood risk management projects are properly operated and maintained by non-Federal sponsors and are functioning as intended to obtain the maximum benefits.	
FL	SAD	NHS	INTRACOASTAL WATERWAY, CALOOSAHATCHEE R TO ANCLOTE R, FL	\$0	\$4,000,000	\$4,000,000	4		Maintenance Dredging of critical shoals within due to Hurricane Hermine (Miserable Mile)
FL	SAD	NIL	INTRACOASTAL WATERWAY, JACKSONVILLE TO MIAMI, FL	\$850,000	\$2,000,000	\$2,850,000	1	N: \$850,000- Perform routine maintenance in support of navigation.	Contract Costs - Maintenance Dredging of Federal Navigation Channel (Broward Reach 1)
FL	SAD	NHD	JACKSONVILLE HARBOR, FL	\$7,280,000	\$2,500,000	\$9,780,000	2	N: \$7,280,000- Perform routine operations and maintenance in support of navigation.	Conduct maintenance dredging of additional critical shoals

PROJECT	BUSINESS LINE	FEASIBILITY	PRECONSTRUCTION ENGINEERING & DESIGN	CONSTRUCTION	OPERATION & MAINTENANCE	
					OPERATION	MAINTENANCE TOTAL O&M
INTRACOASTAL WATERWAY, DELAWARE RIVER TO CHESAPEAKE BAY, DE & MD	N				2,880,000	12,705,000 15,585,000
PROJECT CONDITION SURVEYS, DE	N				200,000	200,000
WILMINGTON HARBOR, DE	N				690,000	7,395,000 8,085,000
DISTRICT OF COLUMBIA						
INSPECTION OF COMPLETED WORKS, DC	F				76,000	76,000
POTOMAC AND ANACOSTIA RIVERS, DC (DRIFT REMOVAL)	N					875,000 875,000
PROJECT CONDITION SURVEYS, DC	N				25,000	25,000
WASHINGTON HARBOR, DC	N					25,000 25,000
FLORIDA						
ATLANTIC INTRACOASTAL WATERWAY (AIWW), FL	N				24,000	2,200,000 2,224,000
APALACHICOLA, CHATTAHOOCHEE AND FLINT RIVERS, GA, AL & FL (SEE GEORGIA)	E,N,R					
CANAVERAL HARBOR, FL	N				1,300,000	170,000 1,470,000
CENTRAL & SOUTHERN FLORIDA, FL	E,F,N,R				9,311,000	15,547,000 24,858,000
ESCAMBIA AND CONECUH RIVERS, FL & AL	N				55,000	55,000
HERBERT HOOVER DIKE, FL (SEEPAGE CONTROL)	F			82,000,000		
INSPECTION OF COMPLETED WORKS, FL	F				958,000	958,000
INTRACOASTAL WATERWAY, CALOOSAHATCHEE R TO ANCLOTE R, FL	N				50,000	50,000
INTRACOASTAL WATERWAY, JACKSONVILLE TO MIAMI, FL	N				260,000	3,300,000 3,560,000
JACKSONVILLE HARBOR, FL	N				250,000	7,440,000 7,690,000
JIM WOODRUFF LOCK AND DAM, LAKE SEMINOLE, FL, AL & GA	E,H,N,R				3,085,000	3,789,000 6,874,000
MANATEE HARBOR, FL	N					900,000 900,000
MIAMI HARBOR, FL	N				100,000	100,000
OKEECHOBEE WATERWAY, FL	E,F,N,R				2,540,000	152,000 2,692,000
PALM BEACH HARBOR, FL	N				100,000	3,900,000 4,000,000
PANAMA CITY HARBOR, FL	N				30,000	1,860,000 1,890,000
PENSACOLA HARBOR, FL	N				34,000	34,000
PORT EVERGLADES HARBOR, FL	N				100,000	320,000 420,000
PROJECT CONDITION SURVEYS, FL	N				1,375,000	1,375,000
REMOVAL OF AQUATIC GROWTH, FL	N					3,259,000 3,259,000