PRELIMINARY AGENDA
FLORIDA INLAND NAVIGATION DISTRICT
Board of Commissioners Meeting
8:30 AM, Friday June 17, 2016
The DoubleTree by Hilton Cocoa Beach Oceanfront
2080 North Atlantic Ave. (S.R. A1A)
Cocoa Beach, FL 32931

ITEM 1. 8:30 AM **Call to Order -** Chair Cuozzo will call the meeting to order.

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

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

ITEM 4. **Additions or Deletions** Any additions or deletions to the meeting agenda will be announced.
Recommend : Approval of Final Agenda.

ITEM 5. **Public Comments.**
The public is invited to provide comments on issues that are NOT on today's agenda.

ITEM 6. **Board Meeting Minutes.** The following meeting minutes are presented for approval:
(See Pages 5-31)
* May 20, 2016 Nomination Committee Meeting, * May 20, 2016 Finance and Budget Committee Mtg., * May 20, 2016 Board Meeting;
Recommend: Approval of the minutes as presented.

ITEM 7. **Finance & Budget Committee Report**
The District's Finance & Budget Committee will provide their recommendations concerning items on their agenda.
(Please see: Finance & Budget Committee Agenda Package)
Recommend: Approval of the recommendations of the District's Finance & Budget Committee.

ITEM 8. **Staff Report on Brevard County Area Projects** (see pages 32-62)
Staff will present a report on District Projects in the Brevard County area.

ITEM 9. **Presentation of Cooperative Assistance Program Applications**

ITEM 9.1	8:50 AM	Florida DEP	Bulkhead Rehabilitation at No Name Harbor	pg 63 - 75
ITEM 9.2	9:00 AM	Florida DEP	Florida Clean Vessel Program	pg 76 - 87
ITEM 9.3	9:10 AM	Florida DEP	Hugh Taylor Birch State Park ICW Improvements Ph II	pg 88 - 101
ITEM 9.4	9:20 AM	SJRWMD	Eau Gallie Dredging Ph IIB	pg 102 - 117
ITEM 9.5	9:30 AM	USFWS	Beacon 42 Boat Ramp	pg 118 - 134

Presentation of Waterways Assistance Program Applications
ITEM 10. (Items 10.01 - 10.30)

Indian River

ITEM 10.01	9:40 AM	Town of Indian River Shores	Law Enforcement and Fire Suppression Patrol Boat	pg 135 - 148

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Martin

ITEM 10.02	9:50 AM	City of Stuart	Shepard Park Improvements Part 2	pg 149 - 166
ITEM 10.03	10:00 AM	Martin County	Phipps Park Shoreline	pg 167 - 180
ITEM 10.04	10:10 AM	Martin County Sheriff's Office	Martin County Sheriff's Marine Patrol Vessel	pg 181 - 192
ITEM 10.05	10:20 AM	Town of Jupiter Island	Jupiter Island Marine Patrol Boat Lift	pg 193 - 210
	10:30 AM	**BREAK (15 min)**		

Palm Beach

ITEM 10.06	10:45 AM	City of Belle Glade	Campground Sewer Upgrade and Observation Tower	pg 211 - 226
ITEM 10.07	10:55 AM	City of Riviera Beach	Riviera Beach City Marina Dock G & Lifts	pg 227 - 244
ITEM 10.08	11:05 AM	City of West Palm Beach	Currie Park Boat Access Ph II	pg 245 - 260
ITEM 10.09	11:15 AM	Jupiter Inlet District	Loxahatchee River Railroad Bridge Span	pg 261 - 277
ITEM 10.10	11:25 AM	Town of Lake Park	Lake Park Harbor Marina Dock Retrofit Ph I	pg 278 - 291
ITEM 10.11	11:35 AM	Village of North Palm Beach	Anchorage Park Trail and Kayak Launch	pg 292 - 306
ITEM 10.12	11:45 AM	Village of Tequesta	Tequesta Marine Unit Project	pg 307 - 318

(Recess Item 10)

12:00 PM - 1:00 PM LUNCH

ITEM 11. **Revised Scope of Services and Fee Quote for Professional Construction Administration Services for the Planting of the Native Vegetation Buffer for MSA-726 (Exchange Club Park) Broward County, FL.**

In accordance with the District's replanting of the buffer for MSA-726 within the City of Pompano Beach, Taylor Engineering has submitted a REVISED proposal for construction management and oversight of this project. This proposal was reviewed by the Board at the May 20th Board meeting. At that meeting, Taylor Engineering was requested to revise the proposal to reduce the overlap of construction administrative services. The revised scope has reduced the number of site visits by Taylor Engineering and resulted in a costs savings of $5,157.00.

(Please see back up pages 319-336)

RECOMMEND: Approval of the revised scope of services & fee quote from Taylor Engineering in the amount of $36,345.50 for construction administration services for the landscaping for MSA-726 (Exchange Club Park) Broward County, FL.

ITEM 12. **Agreement with FPL for Main Utility Line Relocation at the Swimming Hall of Fame, in Support of the Broward Intracoastal Waterway Deepening Project, Broward County, FL.**

A major component of the Broward Intracoastal Waterway (IWW) Deepening Project consists of relocating the existing FPL utility mainline at the Swimming Hall of Fame. This line is properly permitted and installed and is not scheduled for replacement in the near future.

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In order to achieve the desired depth of -15' (with an allowed -2' advanced maintenance over-dredge), this utility will need to be relocated. FPL has provide the District with a draft agreement and a summary estimate of cost. Note that the estimated cost ($1,109,333.79) is approximately 55% of the original amount discussed in the planning stages of this project.

Staff and Taylor Engineering have reviewed the proposal and found it to be reasonable for the proposed work. This agreement is necessary to complete the Broward IWW Deepening project as designed and time-critical to the project construction.

(Please see back up pages 337-354)

RECOMMEND: Approval of a Facilities Relocation Agreement with FPL in the amount of $1,109,333.79 for the utility line located at the Swimming Hall of Fame, in support of the Broward IWW Deepening project, Broward County, FL.

ITEM 10. (cont.)

Nassau				
ITEM 10.13	1:30 PM	City of Fernandina Beach	Marina Basin Maintenance Dredging	pg 355 - 369
ITEM 10.14	1:40 PM	City of Fernandina Beach	Mooring Field Capacity Increase Ph II	pg 370 - 386
ITEM 10.15	1:50 PM	City of Fernandina Beach	Southern Basin Dock Realignment Ph I	pg 387 - 402
Flagler				
ITEM 10.16	2:00 PM	Town of Marineland	Marineland Marina Ph IIB	pg 403 - 418
Broward				
ITEM 10.17	2:10 PM	Broward County	Deerfield Island Boardwalk Replacement Ph II	pg 419 - 432
ITEM 10.18	2:20 PM	Broward County	Hollywood North Beach Park Mooring Field Ph I	pg 433 - 446
ITEM 10.19	2:30 PM	Broward County	NOAA PORTS Water Level Station	pg 447 - 460
ITEM 10.20	2:40 PM	City of Fort Lauderdale	Ft. Lauderdale Police Dive Team Search & Rescue Equipment	pg 461 - 474
ITEM 10.21	2:50 PM	City of Lighthouse Point	Lighthouse Point Outboard Motors Replacement	pg 475 - 488
ITEM 10.22	3:00 PM	City of Pompano Beach	ICW Water Taxi Station Ph II	pg 489 - 502
	3:10 PM	**BREAK**		
St Lucie				
ITEM 10.23	3:20 PM	City of Fort Pierce	Improve Boat Access Fisherman's Warf Moores Creek	pg 503 - 517
ITEM 10.24	3:30 PM	St. Lucie County	Port of Ft Pierce - Fisherman's Wharf Ph I	pg 518 - 532

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Duval

ITEM 10.25	3:40 PM	City of Jacksonville	Charles Reese Fishing Pier Ph II	pg 533 - 548
ITEM 10.26	3:50 PM	City of Jacksonville	Exchange Club Island Pavilions Ph IIB	pg 549 - 564
ITEM 10.27	4:00 PM	City of Jacksonville	Half Moon Island Park & Boat Ramp Ph IIA	pg 565 - 579
ITEM 10.28	4:10 PM	City of Jacksonville	Metro Park Marina Dredge Ph I	pg 580 - 594
ITEM 10.29	4:20 PM	City of Jacksonville	Northshore Kayak Launch Ph II	pg 595 - 609
ITEM 10.30	4:30 PM	City of Jacksonville	School Board Property ADA Kayak Launch Ph I	pg 610 - 624

(Recess Item 10)

ITEM 13. 4:40 PM Public Comment **(Public Comment may occur up to an hour earlier than time stated if presentations finish ahead of schedule)**

(Recess full Board Meeting)

MINUTES OF THE

FLORIDA INLAND NAVIGATION DISTRICT

Nomination of Officers Committee Meeting

8:15 a.m., Friday, May 20, 2016

The Sonesta Coconut Grove Miami Hotel

2889 McFarland Road

Coconut Grove, Miami-Dade County, Florida 33133-6008

ITEM 1. Call to Order.

Committee Chair Sansom called the meeting to order at 8:15 a.m.

ITEM 2. Roll Call.

Assistant Executive Director Janet Zimmerman called the roll and Commissioner Sansom, Commissioner Chappell, Commissioner Dritenbas and Commissioner Isiminger were present. Ms. Zimmerman stated that a quorum was present.

ITEM 3. Additions or Deletions.

Committee Chair Sansom asked if there were any additions or deletions to the meeting agenda. Mr. Crosley stated that there were no additions or deletions to the agenda.

Commissioner Dritenbas made a motion to approve the agenda as presented. The motion was seconded by Commissioner Chappell. Committee Chair Sansom asked for discussion. Hearing none, a vote was taken and the motion passed.

ITEM 4. Public Comments.

Committee Chair Sansom asked if there were any public comments on issues that are not on today's agenda. There were none.

ITEM 5. **Commissioners Responses on the Willingness to serve as an Officer.**

Committee Chair Sansom stated that the following members have indicated their willingness to serve as an Officer: Commissioner Cuozzo as Chair, Commissioner Netts as Vice-Chair; Commissioner McCabe as Treasurer; and, Commissioner Donaldson as Secretary. He asked if there were any other nominations, comments or questions.

Committee Chair Sansom consolidated Item 7, Item 8, Item 9, and Item 10 as a slate.

ITEM 6. **Nomination of a Board of Commissioners Chair for the Period of June 2016 through May 2017.**

ITEM 7. **Nomination of a Board of Commissioners Vice-Chair for the Period of June 2016 through May 2017.**

ITEM 8. **Nomination of a Board of Commissioners Treasurer for the Period of June 2016 through May 2017.**

ITEM 9. **Nomination of a Board of Commissioners Secretary for the Period of June 2016 through May 2017.**

Commissioner Dritenbas nominated; Commissioner Cuozzo for recommendation to the Board as Chair, Commissioner Netts for recommendation to the Board as Vice-Chair, Commissioner McCabe for recommendation to the Board as Treasurer, and Commissioner Donaldson for recommendation to the Board as Secretary. The motion was seconded by Commissioner Isiminger. Committee Chair Sansom asked for discussion. Hearing none, a vote was taken and the motions for Items 7 through 10 passed.

ITEM 10. **Additional Staff Comments and Additional Agenda Items.**

Committee Chair Sansom asked if there were any additional staff comments or agenda items.

ITEM 11. Commissioners Comments.

Committee Chair Sansom asked if there were any additional commissioner comments. There were none.

ITEM 12. Adjournment.

Committee Chair Sansom stated that hearing no further business the meeting was adjourned at 8:17 a.m.

MINUTES OF THE

FLORIDA INLAND NAVIGATION DISTRICT

Finance and Budget Committee Meeting

8:30 a.m., Friday, May 20, 2016

The Sonesta Coconut Grove Miami Hotel

2889 McFarland Road

Coconut Grove, Miami-Dade County, FL 33133-6008

ITEM 1. Call to Order.

Committee Chair Netts called the meeting to order at 8:30 a.m.

ITEM 2. Roll Call.

Assistant Executive Director Janet Zimmerman called the roll and Committee Chair Netts, Vice-Chair Cuozzo and Commissioner Sansom were present. Ms. Zimmerman stated that a quorum was present. Secretary McCabe was absent

ITEM 3. Additions or Deletions.

Committee Chair Netts asked if there were any additions or deletions to the meeting agenda. Mr. Crosley stated that there were no additions or deletions to the agenda.

Vice-Chair Cuozzo made a motion to approve the agenda as presented. The motion was seconded by Commissioner Sansom. Committee Chair Netts asked for any further discussion, hearing none, a vote was taken and the motion passed.

ITEM 4. Public Comments.

Committee Chair Netts asked if there were any public comments on issues that are not on today's agenda. There were none.

ITEM 5. **Financial Statements for March of 2016.**

Mr. Crosley presented the District's financial statements as of March 31, 2016.

Mr. Crosley stated the estimated annual Effective Yield on the District's investments was 0.58%, and is now at 0.67% which is better than the Benchmark of the State Board of Business Administration's (S.B.A.) Effective Yield of 0.59%. Interest rates are creeping up. He asked for questions.

Commissioner Chappell asked about the rate from Bank United. Mr. Crosley stated that the current offer is 0.90%.

Commissioner Sansom made a motion to approve a recommendation to the full Board of the financial statements for March of 2016. The motion was seconded by Commissioner Cuozzo. Committee Chair Netts asked for any additional discussion. Hearing none, a vote was taken and the motion passed.

ITEM 6. **March of 2016 Budget Summary and Project Status Expenditure Reports.**

Mr. Crosley presented the Budget Summary and Project Status Expenditure Reports for March of 2016. All projects are on track. He asked for questions. There were none.

ITEM 7. **Delegation of Authority Report.**

Mr. Crosley presented the Executive Director's Delegation of Authority Report and stated that ten (10) actions were taken from April 6, 2016 to May 10, 2016.

Mr. Crosley stated that these items are for environmental work and fence mending. He asked for questions, there were none.

ITEM 8. Draft Financial Audit for FY 2014 – 2015.

Mr. David McGuire, with Berger, Toombs, Elan, Gaines and Frank, CPA, PL, presented the District's FY 2014-2015 Draft Financial Audit. He referred to the Audit Letter and noted that there have been changes made to the Governmental Accounting Standards Board "GASB" Statement No. 27, and No. 71, Pension Transaction for Contributions Made Subsequent to the Measurement Date. These implementations are considered a change in accounting principal that requires the recognition of a proportionate share of net pension liability by participating employers. Their opinion is not modified with respect to these matters.

Mr. McGuire referred to the Statement of Net Position and stated that this report shows the District's assets and liabilities at a government-wide level. He stated that the District's total current assets are $77 million, with $111 million non-current assets, for total assets of $189 million. In addition, the District has $5 million in liabilities, for a total Net Position of $183.9 million.

Mr. McGuire referred to the Statement of Activities and stated that this report shows a change in the District's net assets of $5.9 million. He stated that this report shows capital outlay at a fund level expenditure, but it is capitalized at the government wide level.

Mr. McGuire referred to the District's FY 2014-2015 Statement of Revenues, Expenditures, and Changes in the Fund Balances which shows $22.9 million in revenue and $21.5 million in expenditures.

Mr. McGuire referred to the Balance Sheet of Governmental Funds and stated that projects with assigned funding include; dredging, $26.7 million, grants, $19.5 million, DMMA development, $15.6 million, waterway studies, $1.3 million, and disaster relief, $1

million. There is $5.6 million in unassigned funding for a total Liabilities and Fund Balance of $77.6 million.

Mr. McGuire referred to the Notes to Financial Statements and stated that the District's Deferred Outflows of Resources are $98,649.00 and Deferred Inflows of Resources are $69,996.00.

Mr. Crosley asked if the Pension Liabilities reporting was a change in Florida Law. Mr. McGuire stated that the State of Florida GASB No. 71 and GASB Statement No. 68 is a change in Government Accounting Standards everywhere. Mr. Crosley asked if this change is an effort to capture those long term liabilities. Mr. McGuire stated that this change allows government to report pension funding held by the State of Florida.

Mr. McGuire referred to the Compliance and Internal Control Report and stated that he is pleased to report that there were no material findings with compliance or with internal control. He then referred to the Management Letter and stated that he is pleased to report that there are no current year findings. He stated that if the District would have met one of those conditions that would have indicated that the District was in financial distress. He stated that in their opinion, the District complied, in all material respects, with the aforementioned requirements during the year ended September 30, 2015. He noted that no uncorrected material or misstatements were found. He stated that there were no disagreements with management and management was very cooperative.

Mr. McGuire reminded commissioners that they must follow the travel statute, all travel must be by the most economical means and documented with receipts.

Mr. McGuire stated that the commissioners should continue active involvement in overseeing the District's finances.

Commissioner Isiminger referred to the Fund Balance account and asked if the dredging project funding amounts are for one-year. Mr. McGuire stated that those figures are for ongoing projects and are multi-year.

Mr. McGuire stated that Mr. Scambler has distributed the SAS 114 letter, communication from the Auditor to the commissioners without staff comment, also known as the Enron letter. The letter comments on a retainage held in accounts payable that should be removed and OPEB Liability that pertains to the unfunded portion of the employee's retirement plan.

Committee Chair Netts congratulated staff and stated that when you receive this kind of an Audit Report, it means that things are being lawfully conducted.

Commissioner Sansom made a motion to approve a recommendation to the full Board acceptance of the Draft Financial Audit for FY 2014-2015. The motion was seconded by Vice-Chair Cuozzo. Committee Chair Netts asked for any additional discussion. Hearing none, a vote was taken and the motion passed.

ITEM 9. Additional Agenda Items or Staff Comments.

Committee Chair Netts asked if there were any additional agenda items or staff comments. There were none.

ITEM 10. Additional Commissioners Comments.

Committee Chair Netts asked if there were any additional Commissioner comments.

Chair Blow noted that almost all of the District's funds are budgeted and committed to a specific purpose or project.

ITEM 11. **Adjournment.**

Committee Chair Netts stated that hearing no further business the meeting was adjourned at 8:54 a.m.

MINUTES OF THE

FLORIDA INLAND NAVIGATION DISTRICT

Board of Commissioners Meeting

9:00 a.m., Friday, May 20, 2016

The Sonesta Coconut Grove Miami Hotel

2889 McFarland Road

Coconut Grove, Miami-Dade County, FL 33133-6008

ITEM 1. Call to Order.

Chair Blow called the meeting to order at 9:00 a.m.

ITEM 2. Pledge of Allegiance.

Commissioner Crowley led the Pledge of Allegiance to the Flag of the United States of America.

ITEM 3. Roll Call.

Ms. Zimmerman called the roll and Chair Blow, Vice-Chair Cuozzo, Treasurer Netts and Commissioners Chappell, Crowley, Donaldson, Dritenbas, Isiminger, O'Steen, Sansom and Williams were present. Ms. Zimmerman stated that a quorum was present. Secretary McCabe was absent.

ITEM 4. Consent Agenda.

Chair Blow asked if there were any comments or questions regarding the Consent Agenda. There were none.

Treasurer Netts made a motion to approve the Consent Agenda as presented. The motion was seconded by Commissioner Sansom. Chair Blow asked for discussion. Hearing none, a vote was taken and the motion passed.

ITEM 5. Additions or Deletions.

Chair Blow asked if there were any additions or deletions to the meeting agenda.

Mr. Crosley stated that there were no additions or deletions to the meeting agenda. He distributed additional information for Item 13.

Commissioner Dritenbas made a motion to approve the final agenda as presented. The motion was seconded by Treasurer Netts. Chair Blow asked for discussion. Hearing none, a vote was taken and the motion passed.

ITEM 6. Public Comments.

Chair Blow asked if there were any public comments on issues that are not on today's agenda.

Commissioner Crowley introduced Alexandra Marshall, a University of Florida law student. Ms. Marshall will be Commissioner Crowley's FIND Intern this summer for eight weeks.

Commissioner Dritenbas introduced Mr. Mark Yano, from Indian River County. Mr. Yano was a biologist with the Florida Department of Environmental Protection. Mr. Yano is interested in becoming a FIND Commissioner when a term is available.

ITEM 7. Board Meeting Minutes.

Chair Blow asked if there were any comments or questions regarding the March 18, 2016 Finance and Budget Committee Minutes and the Board Meeting Minutes.

Ms. Tori White, with the U. S. Corps of Engineers (USACE) requested that several changes be made to the April 16, 2016 Board Meeting Minutes, Item 11, to read: flexibility around "important manatee areas and warm water aggregation areas"; "for not

Implementing NMFS"; "USACE regulatory's position as stated in April 2015"; "not been maintained and"; supports this "RFP."

Ms. White requested that several words be removed from the April 16, 2016 Board Meeting Minutes, Item 11, remove: "be modified and will"; "in areas where the federal channel had been previously dredged since 2002, or in areas where the seagrass has been previously mitigated."

Commissioner Sansom made a motion to approve the March 18, 2016 Meeting Minutes, as amended. The motion was seconded by Commissioner Dritenbas. Chair Blow asked for discussion. Hearing none, a vote was taken and the motion passed.

ITEM 8. Staff Report on Miami-Dade County Area Projects.

Mr. Crosley presented the staff report on Miami-Dade County and stated that Phase I of the Dredged Material Management Plan (DMMP) for the Intracoastal Waterway (IWW) in Miami-Dade County was completed in 2003. Phase II of the DMMP was completed in 2005 and all major land acquisition was completed by 2007.

Mr. Crosley stated that the District routinely places beach-compatible dredged material on the beaches south of Baker's Haulover Inlet during dredging of the IWW in that vicinity. The District also owns DMMA D-45 located near the county landfill between Cutler City and Homestead. The 50-year dredging projection for the 48 miles of channel in Miami-Dade County is 574,292 cubic yards, and the storage projection is 1.2 million cubic yards. Nearly all of this material is associated with dredging the IWW in the vicinity of Baker's Haulover Inlet.

Mr. Crosley stated that maintenance dredging of IWW Reach II in the vicinity of Baker's Haulover Inlet was completed in 2011, and again in April of 2014. For the most

recent dredging event, approximately 50,000 cubic yards of material was dredged by the USACE utilizing super-storm Sandy funding and placed on the nearby beach. Maintenance dredging of the IWW in this vicinity occurs approximately every three (3) years. This is one of the Districts highest frequency dredging areas. Note that this project is scheduled to be dredged again in late 2016 or early 2017.

Mr. Crosley stated that the Miami-Dade County Waterways Economic Study was completed in 2007 and updated in 2011. The study identified approximately 901 recreational waterway-related businesses in the county employing 7,094 people, with salaries of $294.3 million, a total economic impact of $1.2 billion, which generated $54 million in tax revenue. Property values were determined to be increased by $4.1 billion by the presence of the IWW channel. There are currently approximately 56,000 registered vessels in the county.

Mr. Crosley stated that since 1986, the District has provided $53.6 million in Waterways Assistance Program funding for 195 projects in the county having a total constructed value of $157 million. He noted that one of the significant CAP projects was the District's participation in the Miami River dredging project.

Commissioner Sansom asked if there was an economic impact study performed upon completion of the Miami River dredging project. Commissioner Crowley answered no and stated it should be something the District might perform.

Mr. Crosley stated that since 1998, the District has consistently partnered with Miami-Dade County in their annual Baynaza waterway cleanup event, providing up to $10,000.00 per year.

Mr. Crosley stated that Miami-Dade County has previously participated in the Small-Scale Derelict Vessel Removal Program with $118,250.00 contributed in District funding for the removal of approximately 39 vessels.

ITEM 9. Miami Circle Status Presentation.

Commissioner Crowley stated that in 2007 the seawall at the Miami Circle, a National Register of Historic Places listed as an archaeological site located on the southern side of the Miami River at the juncture of the river and Biscayne Bay, was failing and falling into the river. The District provided emergency funding to shore-up the seawall and in 2008 the District's Interlocal Agreement program provided funding to stabilize the shoreline, rebuild the seawall, construct a River Walk, and make improvements at the park. In 2010 a ground breaking ceremony and a District Outreach event was held on the site. He stated that unfortunately, after a few years, the maintenance and upkeep of the park was not what the District felt it should be. The project property has experienced issues with excessive garbage, homeless camps, illegal parking and overall upkeep of the property. In December 2015, the Board sent a letter to the Florida Department of State (DOS) requesting they address these issues and they were responsive and very helpful.

Commissioner Crowley introduced Ms. Kerri L. Post, Deputy Secretary of State, Office of Cultural, Historical and Information Programs, Florida Department of State, to present an update on the Miami Circle project.

Ms. Post thanked Commissioner Crowley and the FIND Board for bringing the Miami Circle Park problems to the attention of the DOS. The Miami Circle Park has presently become the highest project priority of the DOS. The Miami Circle was discovered in 1998 and the city purchased the property. The site was believed to be built between 500

B.C – A.D 900. In February 5, 2002, the site was listed on the National Register of Historic Places and declared a National Historic Landmark on January 16, 2009. The Historical Museum of Southern Florida sub-leased management of the site in 2008.

Ms. Post stated that the DOS has contracted with the Miami River Commission to manage and maintain this site. The homeless have been relocated, new landscaping has been installed, there is regular trash pickup, and parking on the Circle has been addressed. She discussed future improvements to the site that will be completed within the next two-years.

Mr. Crosley asked if there are plans to provide parking at this site. Commissioner Crowley stated that the Miami Parking Authority is working to build a metered parking lot underneath Brickell Avenue that will be managed by the Miami Parking Authority.

ITEM 10. Draft Financial Audit for FY 2014-2015.

Mr. David McGuire, with Berger, Toombs, Elan, Gaines and Frank, CPA, PL, presented the District's FY 2014-2015 Draft Financial Audit. The District received an unqualified opinion. The Net Position is $183.9 million and a Net Change of +$5.1 million, with Tax Revenue of $22.2 million. He asked for questions.

Commissioner Sansom asked if any issues were found with the audit. Mr. McGuire answered no.

Chair Blow asked how the auditors confirm that the District's cash is in the banks. Mr. McGuire stated that he performs an independent confirmation, which is sent by him and returned to him, with each facility on every account.

Commissioner Sansom made a motion to approve acceptance of the Draft Financial Audit for FY 2014-2015. The motion was seconded by Commissioner Williams. Chair

Blow asked for any additional discussion. Hearing none, a vote was taken and the motion passed.

ITEM 11. Finance and Budget Committee Report.

Committee Chair Netts stated that the District's Finance and Budget Committee met before today's Board meeting, and the committee reviewed and recommended approval of the: District's FY 2014-2015 Draft Financial Audit; March, 2016 Financial Statements, the delegation of authority, and the expenditure and project status report.

Committee Chair Netts made a motion to approve the recommendations of the Finance and Budget Committee of the March, 2015 Financial Statements. The motion was seconded by Commissioner Sansom. Chair Blow asked for discussion. Hearing none, a vote was taken and the motion passed.

ITEM 12. Status Report on the U.S. Army Corps of Engineers Reauthorization of the State Programmatic General Permit.

Ms. Tori White, Deputy Chief, Regulatory Division, U.S. Army Corps of Engineers (USACE), provided a brief presentation on the two authorizations for the IWW from Miami to Key West. The Rivers and Harbors Act of 1935 authorized a channel 7 feet-deep by 75 feet wide from Miami to Cross Bank - Florida Bay, Florida. The Rivers and Harbors Act of 1945 authorized a channel 7 feet-deep by 90 feet-wide from Miami to Key West, Florida. This authorization widened the existing channel from Miami to Cross Bank from 75 feet to 90 feet and extended the channel from Cross Bank down to Key West at a dimension of 7 feet-deep by 90 feet-wide. Construction funds were never provided, therefore the project was never constructed. Because the work had not been completed by 1986, the project was deauthorized. The Federal Project from Miami to Cross Bank remains authorized at 7 feet-deep by 75 feet-wide.

Commissioner Crowley asked about project funding for Miami-Dade County Reaches 4 and 5. Mr. Crosley stated that this area does not generally require maintenance dredging. Ms. White stated the area from Miami to Cross Bank is an authorized federal project, it is just inactive.

Ms. Tori White, Deputy Chief, Regulatory Division, U.S. Army Corps of Engineers (USACE), provided a brief presentation on the reauthorization of the State Programmatic General Permit (SPGP).

Ms. White stated that there are three authorities by which permits are issued by the USACE and Section 10 of the Rivers and Harbors Act is most applicable to the District's activities. The USACE's program goals are to protect navigation and provide services to the public that are timely and reasonable, but there is a process that has to be completed. Standard Permits are permits that are project-specific, require evaluation and authorization and involve public notices and agency review. Letters of Permission are for less controversial, minor impact projects that must be coordinated with other agencies and neighbors, but do not require a full blown public notice. General Permits require evaluation and authorization and are not project-specific. They are developed with a project design criteria and terms and conditions. They are for projects of similar activities resulting in minimal impacts to water quality and the environment, both individually and cumulatively. These permits must be reissued every five years and include Regional General Permits (RGP).

Ms. White stated that a Programmatic General Permit eg. (SPGP-VI) is a type of permit that is issued to another entity that has a permit program similar to the USACEs.

The other entity will provide the federal authorization permit for the project. This includes derelict vessel removal.

Ms. White referred to the pending or proposed State Programmatic General Permit (SPGP-V) and stated that the USACE has added an exclusion area for a number of privately submerged parcels all around the state. A privately-owned parcel must meet the criteria of 90% open water and 50% seagrass. She discussed various conservation measures and changes to the SPGP-V. The presentation will be attached to the Meeting Minutes and posted on the District's web site.

Ms. White encouraged the District's assistance applicants to submit their applications completely, early, and to review this presentation for helpful information.

Mr. Crosley stated that that presentation will be posted on the District's web site and staff will recommend that assistance applicants review the information.

Ms. White noted that the Okeechobee Waterway Tour is scheduled for October 25, 26, and 27, 2016.

Ms. White stated that the USACE will be providing the counties real estate maps for the Federal Intracoastal Waterway.

Ms. White stated that she has met with the NMFS and concluded the RGP process.

Mr. Crosley thanked Ms. White for the incredible amount of work that went into this RGP for the District.

ITEM 13. Acceptance of the Qualified Low Bid for the Planting of a Native Vegetation Buffer at Dredged Material Management Area MSA-726 (Exchange Club Park), in the City of Pompano Beach, Broward County, Florida.

Ms. Zimmerman stated that bids to plant a native vegetation buffer at the District's Long-Range, Dredged Material Management Area (DMMA) MSA-726 (Exchange Club

Park) in the City of Pompano Beach have been received. Taylor Engineering evaluated and qualified VisualScape, Inc. as the low bidder. Staff is recommending the alternate bid because it provides a temporary irrigation system to water the plants in lieu of hand watering. Staff is requesting approval of both contractors in the listed order in the agenda back-up material, as well as their proposed budgets for this project.

Commissioner Dritenbas made a motion to approve the Alternate Bid and the qualified low bidder and the alternate bidder for planting the native vegetation buffer of MSA-726 in Broward County, Florida. The motion was seconded by Commissioner Chappell. Chair Blow asked for discussion.

Commissioner Sansom stated that he is concerned that this landscape plan will look great at first but once the plants mature they will be planted too close, become very thick and become high maintenance. He feels that staff should contact the city to make sure they are going to maintain these plants.

Commissioner Dritenbas suggested taking photo points every six months for the next two-years to document growth for use in future landscape designs.

Ms. Zimmerman stated that at the site pre-bid landscape meeting, it was noted that the plant numbers were approximate. The bid includes quantities and unit costs. Staff explained that the District would be paying for what is actually installed. Staff will be working on site with the landscape architect and contractor to determine the number of plants that will fit the plan. Staff will also be working to make sure that the contractor is not over planting by the District's standards not the landscape architect's standards.

Ms. Zimmerman stated that the site lease with the City of Pompano expires in August and upon renewal, the lease will be rewritten similar to the lease used at

MSA610/611 in Jupiter, with additional requirements for on-going maintenance and upkeep by the city. Please keep in mind that both the City of Lighthouse Point and the City of Pompano have been included in all site design meetings.

Chair Blow asked for discussion. Hearing none, a vote was taken and the motion passed.

Commissioner Chappell stated that this project was coordinated with citizens, the city, Taylor Engineering, the Landscape Architect and the District.

Dr. Taylor stated that his experience over the years as the District Engineer is that the local community has short memory when it come to their use boundaries on a District sites. The District needs to have something in writing to make sure the city does not over step their use limitations on this site.

ITEM 14. Scope of Services and Fee Quote for Professional Construction Administration Services for the Planting of the Native Vegetation Buffer of MSA-726 (Exchange Club Park) Broward County, Florida.

Ms. Zimmerman stated that in accordance with the District's replanting of the buffer for MSA-726 within the City of Pompano Beach, Taylor Engineering has submitted a proposal for construction management and oversight of this project. This proposal includes pre-construction coordination, construction administration and project closeout over the expected 60-day construction period and 90-day landscape establishment period.

Ms. Zimmerman stated that Taylor Engineering has provided a scope of services and a not-to-exceed fee quote for this proposal. Of the proposed work, approximately $17,085.00 represents work performed by the sub-contractor on this project. Staff has reviewed the submitted information and found it to be consistent and reasonable for this work.

Commissioner Dritenbas asked if the Landscape Architect has any construction administration included this their fee. Commissioner Isiminger stated that the Landscape Architect's proposed agreement provides for pre-construction and post-construction coordination meetings, construction administration, 20 site inspection visits, work order changes, weekly site visits to inspect the landscape after installation and during the establishment period, including photos and progress reports.

Dr. Taylor suggested that a review of the agreements be completed before moving forward on this item.

Commissioner Dritenbas requested a review of the project scope to check for duplication of work by Taylor Engineering versus the Landscape Architect's work. This review should be completed and presented under the Consent Agenda at the District's June Board meeting.

ITEM 15. Maintenance Dredging Use Agreement – Anastasia State Park, St. Johns County, Florida.

Mr. Crosley stated that the District, the U.S. Army Corps of Engineers (USACE) and the Division of State Lands, Florida Department of Environmental Protection (FDEP), have been negotiating a Use Agreement to place dredged material on the beaches at Anastasia State Park in conjunction with the dredging of the Intracoastal Waterway (IWW) in the vicinity of St. Augustine Inlet.

Commissioner Dritenbas made a motion to approve a one (1) year Use Agreement with the Board of Trustees of the Internal Improvement Trust Fund for beach placement of dredged material, St. Johns County Florida. The motion was seconded by Commissioner Williams. Chair Blow asked for discussion. Hearing none, a vote was taken and the motion passed.

ITEM 16. **Approval of Benthic Survey Contractors for Work at St. Lucie Reach 1, Crossroads, Jupiter Inlet and the Palm Beach County Intracoastal Waterway Deepening South Projects.**

Mr. Crosley stated that at staff's request, Taylor Engineering prepared and issued a Request for Proposals for benthic survey work for the following projects: St. Lucie (SLC) Reach 1 Intracoastal (IWW) Maintenance Dredging; Crossroads IWW Maintenance Dredging; Jupiter Inlet IWW Maintenance Dredging; and the Palm Beach (PB) IWW Deepening Project South. The following contractors are recommended for each project: Scheda Ecological Associates - $22,680 for SLC Reach 1; CSA Ocean Sciences, Inc. - $40,257 for Crossroads and Jupiter Inlet; and Pinnacle Ecological, Inc. - $35,610 for PB IWW Deepening South.

Mr. Crosley stated that the PB IWW Deepening South project is new construction and will require a resource survey to support investigations and initial plans and specifications to deepen the IWW from the Port of Palm Beach south past the Royal Palm Beach Bridge, near downtown West Palm Beach. The Crossroads and Jupiter Inlet projects are typical, reoccurring maintenance projects associated with nearby inlets. The St. Lucie Reach 1 project is an IWW maintenance project occurring in an area that has not been dredged for many years. The total project costs summary is $98,547.00.

Commissioner Isiminger asked about the project notification/advertisement process. Mr. Crosley stated that Taylor Engineering contacted various firms about the project.

Commissioner Dritenbas made a motion to approve the recommendations of Taylor Engineering for benthic survey work as follows: Scheda Ecological Associates - $22,680 for SLC Reach 1; CSA Ocean Sciences, Inc. - $40,257 for Crossroads and Jupiter Inlet;

and, Pinnacle Ecological, Inc. - $35,610 for Palm Beach IWW Deepening South. The motion was seconded by Treasurer Netts. Chair Blow asked for discussion. Hearing none, a vote was taken and the motion passed.

ITEM 17. Nomination of Officers Committee Report.

Commissioner Sansom presented the Nomination Committee's recommendations for District Officers for 2016-2017.

Commissioner Sansom made a motion to approve; Vice-Chair Cuozzo as Chair, Treasurer Netts as Vice-Chair, Secretary McCabe as Treasurer, and Commissioner Donaldson as Secretary for the period of June 2016 through May of 2017. The motion was seconded by Commissioner Isiminger. Chair Blow asked for discussion.

Chair Blow asked if there were any other commissioners who would like to be considered as a District Officer. There were none.

Chair Blow asked for discussion. Hearing none, a vote was taken and the motion passed.

Committee Chair Sansom stated that these officers will assume their positions after today's meeting.

Mr. Crosley thanked Chair Blow for his service.

Mr. Crosley noted that newly appointed Chair Cuozzo's first task will be District Committee assignments. Vice-Chair Cuozzo stated that if a commissioner would like to serve on a specific committee, please let staff know.

ITEM 18. Tallahassee Report.

Mr. Crosley stated that Attorney Jon Moyle sent a report on Florida Legislative activity and bills of interest or with possible impacts to special Districts.

Mr. Crosley stated that four current FIND Commissioners Crowley, Donaldson, Isiminger and O'Steen have all been confirmed by the full Senate.

Mr. Crosley stated that the Legislature has passed a Bill about what should be posted on the Special District web sites. He stated that he believes that the District has been posting the required information. He will get together with Mr. Scambler and review the specific language that applies to the District to make sure the District is in compliance.

Mr. Crosley stated that the House and Senate budget agreed upon $82 billion, which the Governor signed. The Governor vetoed $1.5 million that was earmarked for "Marine navigability improvements on the Loxahatchee River."

Commissioner Isiminger asked if the $1.5 million that was vetoed for the Loxahatchee River has anything to do with the railroad bridge. Mr. Crosley stated that item was specific to navigation improvements to the Loxahatchee Railroad Bridge.

Commissioner Sansom noted that the anchoring bill and the derelict vessel removal bills were approved by the Legislature. FWC received $1.4 million for the derelict vessel program and the anchorage bill was limited to specific areas.

ITEM 19. Washington D.C. Report.

Mr. Crosley stated that the Senate Appropriations Committee marked up its fiscal year (FY) 2017 Energy and Water Appropriations Bill: The Army Corps of Engineers (USACE) is funded at $6 billion. The bill includes discretionary money for maintenance dredging of the waterway; $23.5 million for Navigation, $45 million for Inland Waterways, and $48 million for Small, Remote or Subsistence Harbors. The President's budget includes $850,000.00 for Intracoastal Waterways.

Mr. Crosley stated that he is concerned that the USACE Headquarters is not supporting the District on legislative language in the Water Resources Development Act (WRDA) this act and the Magnuson bill may be possible vehicles to obtain legislative language to address the District's compensatory mitigation issue. He noted that Congresswoman Frankel is very supportive of the bill. The language the District is requesting be added to the WRDA will support the no-mitigation for maintenance dredging issue.

Mr. Crosley noted that a conference call regarding this issue has been scheduled for Monday, May 23rd with himself, Mr. Davenport, the USACE, and Congresswoman Frankel.

ITEM 20. Additional Staff Comments and Additional Agenda Items.

Chair Blow asked if there were any additional staff comments or agenda items.

Mr. Crosley stated that, as Ms. White mentioned, the Okeechobee Waterway Tour is scheduled for October 24, 25, 26, and 27, 2016.

Mr. Crosley stated that commissioners interested in serving on a committee should advise him. He will work with the Chair on those assignments.

Mr. Crosley stated that the June meeting will be a two-day grant presentation meeting held in Brevard County. The meeting will be held at the Doubletree in Cocoa Beach and the Community Outreach event will be held at the Exploration Tower of Port Canaveral.

ITEM 21. Additional Commissioners Comments.

Chair Blow asked if there were any additional commissioner comments.

Commissioner Sansom thanked Chair Blow for his service and welcomed him to the former Chair group.

Vice-Chair Cuozzo thanked commissioners for appointing him as Chair.

Mr. Crosley complimented Commissioner Crowley for his work getting the Miami Circle project cleaned up. Commissioner Crowley stated that initially the neglect was a disappointment, but it ended well with the DOS stepping in, cleaning up the park and arranging for regular maintenance and improvements.

Commissioner Dritenbas thanked Commissioner Crowley for last evening's Community Outreach event.

Chair Blow stated that during last evening's Community Outreach event, he spoke with Bob Weinreb, Project Manager with the City of Miami, and he learned a lot about the Miami Marine Stadium and the various issues with the project's rehabilitation.

Vice-Chair Cuozzo noted that it was wonderful that Commissioner Crowley's family attended last evening's Community Outreach event.

Commissioner Williams referred to the Assistance application and suggested that one of the questions be about how the project will be maintained and the funding source for that maintenance. Ms. Zimmerman stated that the current Assistance application has that question. Chair Blow stated that government will not commit funding beyond the current fiscal year. Mr. Crosley suggested that the commission ask the applicant about planned project maintenance during their grant presentations.

Treasurer Netts suggested that perhaps the District should develop a life expectancy chart for the various projects, such as a boat dock.

Commissioner Crowley thanked Miami-Dade County for their help organizing last evening's Community Outreach Event.

Mr. Crosley stated that there has been a lot of positive Press regarding the Broward Deepening project.

Ms. Zimmerman stated that she e-mailed commissioners an article in The Triton and noted that the reporter went on the dredge and took a lot of great photographs.

Chair Blow stated that it has been an honor to serve as Chair.

ITEM 22. Adjournment.

Chair Blow stated that hearing no further business the meeting was adjourned at 11:48 a.m.

Dredged Material Management Plan.

Phase I of the Dredged Material Management Plan (DMMP) for the Intracoastal Waterway (IWW) in Brevard County was completed in 1989. This plan identified an estimated dredging requirement of approximately 4 million cu/yds of material over the next fifty (50) years, divided into 6 dredging reaches at the authorized federal channel depth of -12 feet. Phase II of the DMMP was completed in 1994 identifying 8 properties for the development of Dredged Material Management Areas (DMMA's). All major land acquisition was completed in 1997. *(Please see the attached location maps).*

The 50-year storage projection for the 70 miles of channel in Brevard County is approximately 7.6 million cu/yds, the third highest of the District's 12 counties.

Dredged Material Management Area Development

Dredged Material Management Areas (DMMA) BV-2C, BV-NASA, and BV-52 have been fully constructed. DMMA's BV-4B, BV-R, BV-11, and BV-40 have had Phase I development. The permit application for the construction of BV-4B has been submitted and site construction is expected to occur in 2017. Permitting and engineering for DMMA BV-11 is expected to start late in 2017.

Recently, Brevard County successfully utilized DMMA BV-52 for muck dredging of Turkey Creek. The County also has plans to utilize DMMA BV-4B for muck dredging in the vicinity of the Mims public boat ramp. Due diligence (geotechnical investigation, permitting and preliminary engineering) are continuing to facilitate a property exchange with Brevard County for an adjacent, County-owned property (DMMA BV-24A) in order to preserve scrub jay habitat and lessen the District's site permitting and development requirements.

Waterway Dredging

There is no IWW waterway dredging currently scheduled in Brevard County by the District. The most recent dredging occurred in 2000 when approximately 1.2 million cu/yds of material was dredged from Reach 1 in northern Brevard County and placed in BV-2C. Brevard County is undertaking several muck dredging projects for environmental benefits. These projects are utilizing District DMMA's for material dewatering. The dredged material would then be removed to a permanent location.

Plans to dredge Brevard Reach II will follow the completion of the construction of DMMA BV-4B expected by 2018.

Waterways Economic Study

The initial Brevard County Waterways Economic Study was completed in 2003 and determined that there were 407 waterway related businesses within the county. The study was updated in December of 2011 and found that waterway-related businesses employed 3,652 people, with salaries of approximately $122 million, a total positive economic impact of $580 million, and additional tax revenues generating $21.5 million.

Estimated losses from the 2007 recession were 5,936 future jobs and $936 million in future waterway-related sales. There are currently more than 33,000 registered vessels in the county.

Projected decreased maintenance of the channel to only -5 feet results in an estimated 50% decrease in these numbers, while deepening the channel over -12 feet results in only a 5% increase in economic output. *(Please see the attached location map of marine-related businesses).*

Waterways Assistance Program

Since 1986, the District has provided $11.9 million in Waterways Assistance Program funding to 127 projects in the County having a total constructed value of $33 million. The County, the City of Cocoa, the City of Cocoa Beach, the City of Melbourne, the City of Palm Bay, the City of Satellite Beach, the City of Titusville, the Town of Melbourne Beach, the Sebastian Inlet District, and the Town of Palm Shores have participated in the program. *(Please see attached project listing and location map).*

Notable projects funded include: the South County Boat Launch, Lee Wenner Park Improvements, Crane Creek Promenade, AIS Lagoon House, Blue Crab Cove, Kennedy Point Park, Derelict Vessel Removal, Titusville Marina Improvements, Cocoa Beach and Melbourne dredging projects, Turkey Creek dredging, Melbourne Beach Historic Pier, and Veteran's Memorial Pier.

Cooperative Assistance Program

The District's Cooperative Assistance Program has provided funding assistance for 37 projects with elements in Brevard County totaling $4.2 million in District assistance for $30.4 million worth of constructed projects. These projects include: Florida Marine Patrol Officer Funding; Sebastian Inlet State Park Boat Ramp Dredging & Dock, Sebastian Inlet State Park Environmental Enhancements, Manatee Viewing Piers and Canoe Docks at the Sebastian River Buffer Preserve, Muck Removal in Crane Creek, Turkey Creek and the Sebastian River, the Indian River Lagoon Boaters Guide, and the Eau Gallie River Muck Dredging project.

Interlocal Agreement Program

The District's Interlocal Agreement Program has provided funding assistance for 6 projects with elements in Brevard County: Clean Marina Program; Clean Vessel Act, and Spoil Island Restoration Projects.

Public Information Program
The District currently prints and distributes the following brochures with specific information about Brevard County Waterways: the Economic Impact of Brevard County Waterways, Spoil Islands of Brevard County, and the Movable Bridge Guide. Additional waterway information and useful links are available on the District's website at http://www.aicw.org/ .

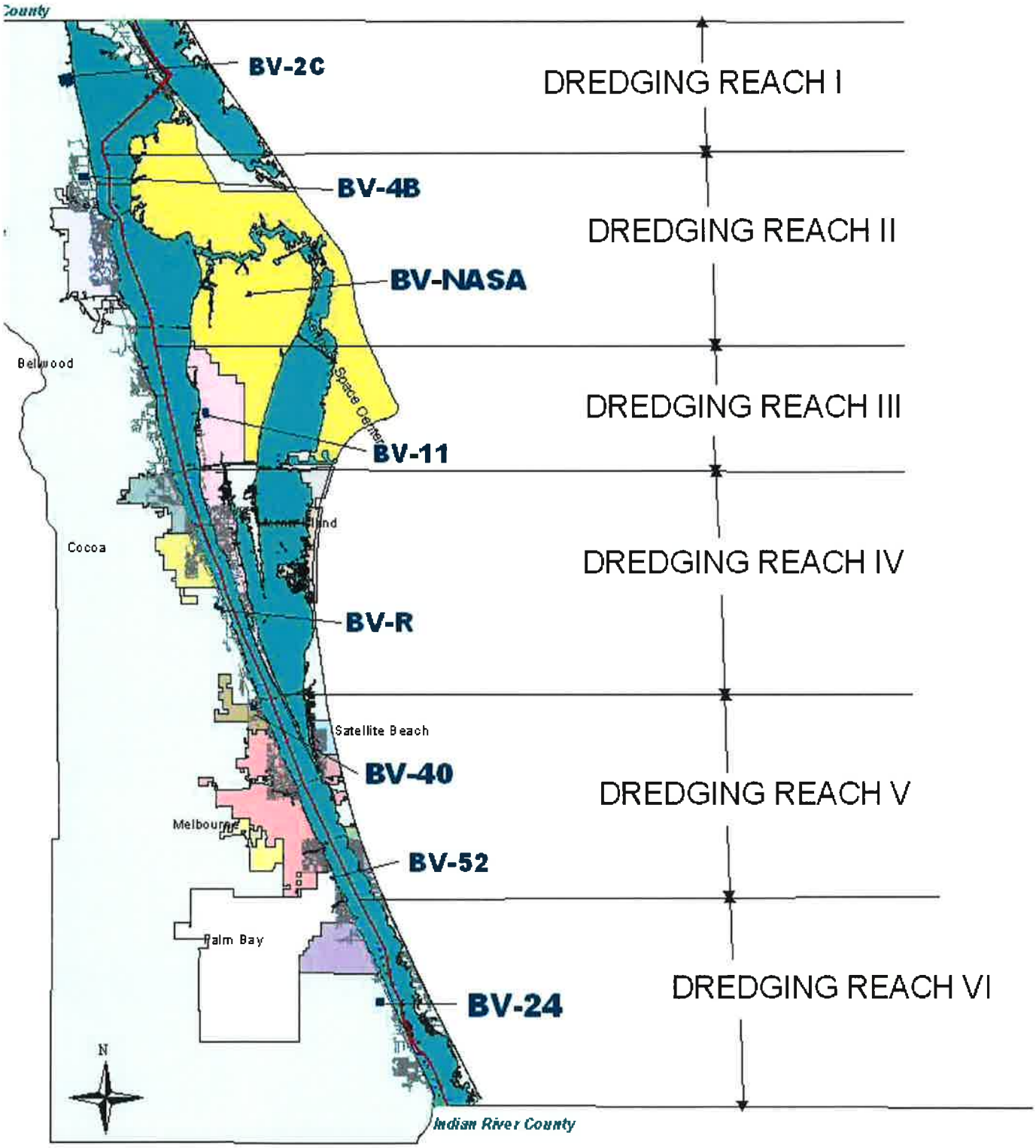
Waterway Clean Up Program
The District has successfully partnered with Keep Brevard Beautiful for numerous years on waterway clean-up projects in Brevard County.

Small-Scale Derelict Vessel Removal Program
In addition to several assistance program grants for derelict vessel removal, Brevard County has consistently and successfully applied for projects through the Small-Scale Derelict Vessel Removal Program.

Small-Scale Spoil Island Enhancement and Restoration Program
Spoil Islands in Brevard County have been improved through the Small-Scale Spoil Island Enhancement and Restoration Program by having trails cut, fire rings installed, picnic tables installed, information kiosks installed, and exotic vegetation removed. These cooperative projects were accomplished by partnering with FDEP, the County, City of Satellite Beach and numerous community volunteers, and have totaled approximately $29,000 in District funding.

Attachment 1

INTRACOASTAL WATERWAY DREDGING REACHES AND DREDGED MATERIAL MANAGEMENT AREAS IN BREVARD COUNTY



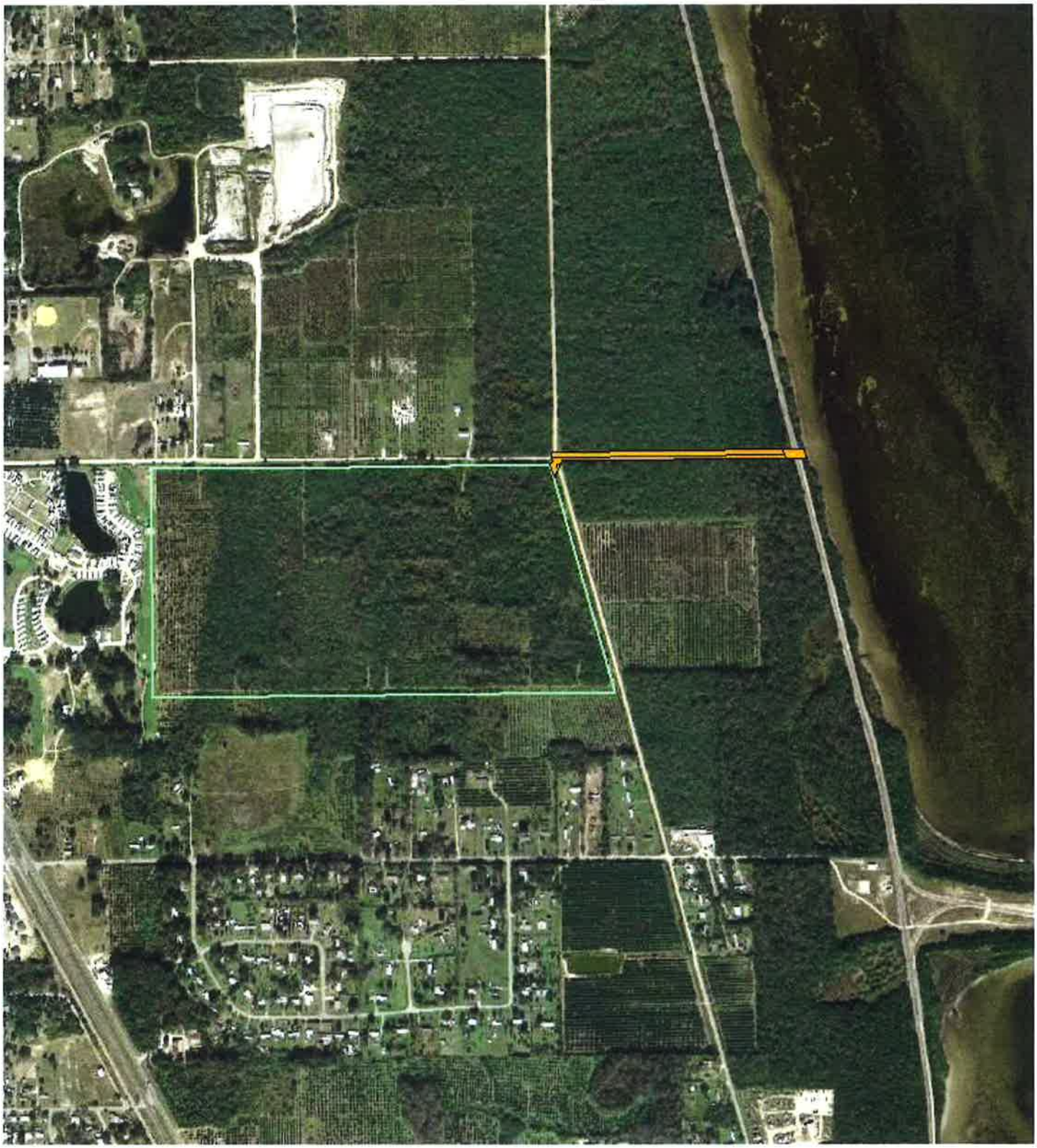
DMMA BV-2C



FIND Easement
FIND Owned

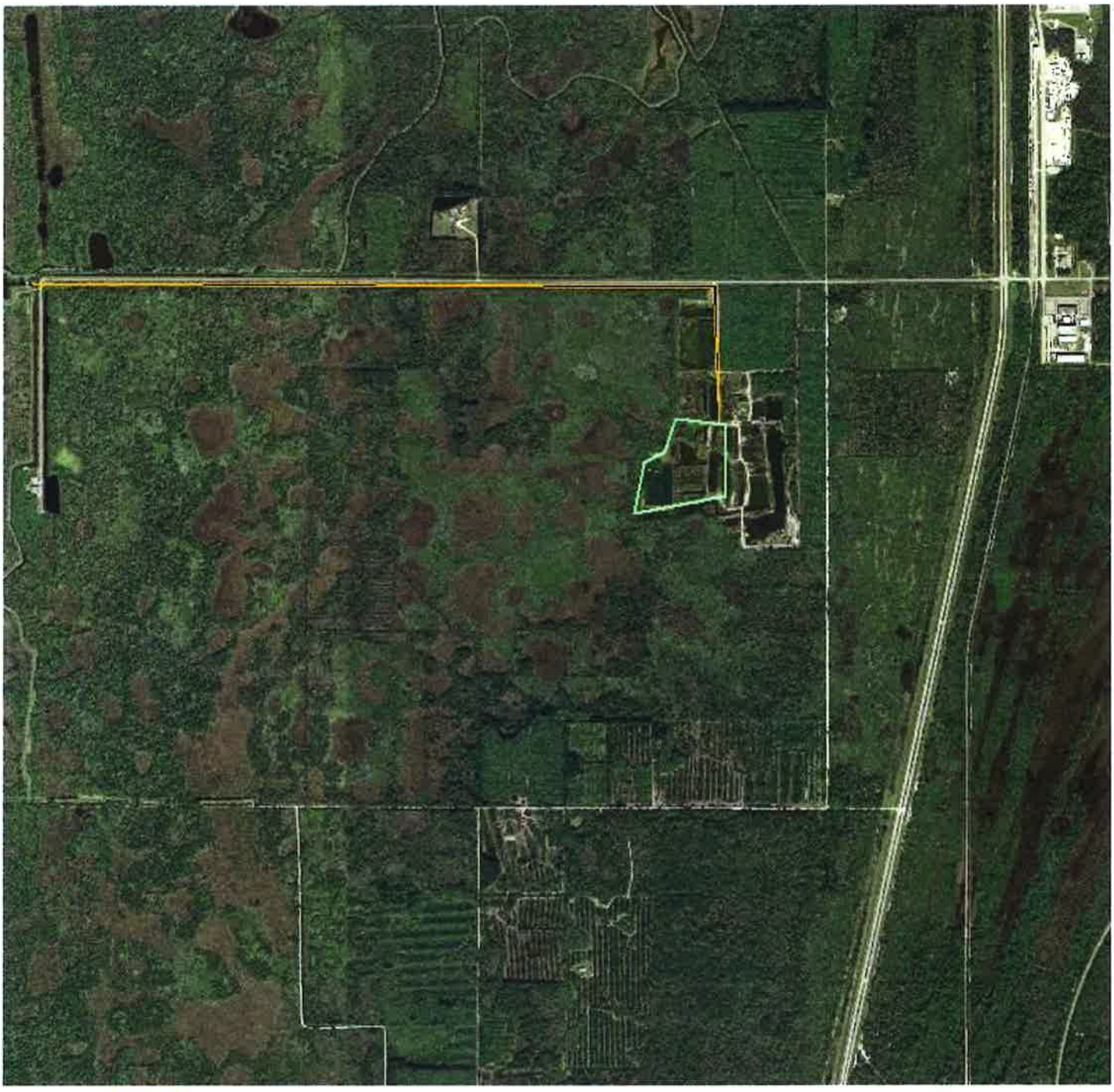

DMMA BV-4B
Legend
BV-2C
BV-2C
Aurantia Rd
Indian River Park- Segui Grant
Oxbow Way
Google earth
N
1000 ft

DMMA BV-4B




DMMA BV-4B
Legend
BV-4B
Pond
BV-4B
Hammock Rd
Frontier Dr
Meander Ln
Google earth
N
800 ft

DMMA BV-NASA




DMMA NASA
Legend
BV-NASA
BV-NASA
Google earth
N
400 ft

DMMA BV-11




DMMA BV-11
Legend
BV-11
Kings Park
Courtenay
Kings Way
BV-11
N Tropical Trail
N Courtenay Pkwy
Chase Hammock Rd
Porcher Rd
3
N
800 ft

DMMA BV-R




DMMA BV-R
Legend
BV-R
Bonaventure
515
Melver Ln
BV-R
5
Possum Island Ln
Indian River Acres
Google earth
© 2016 Google
N
200 ft



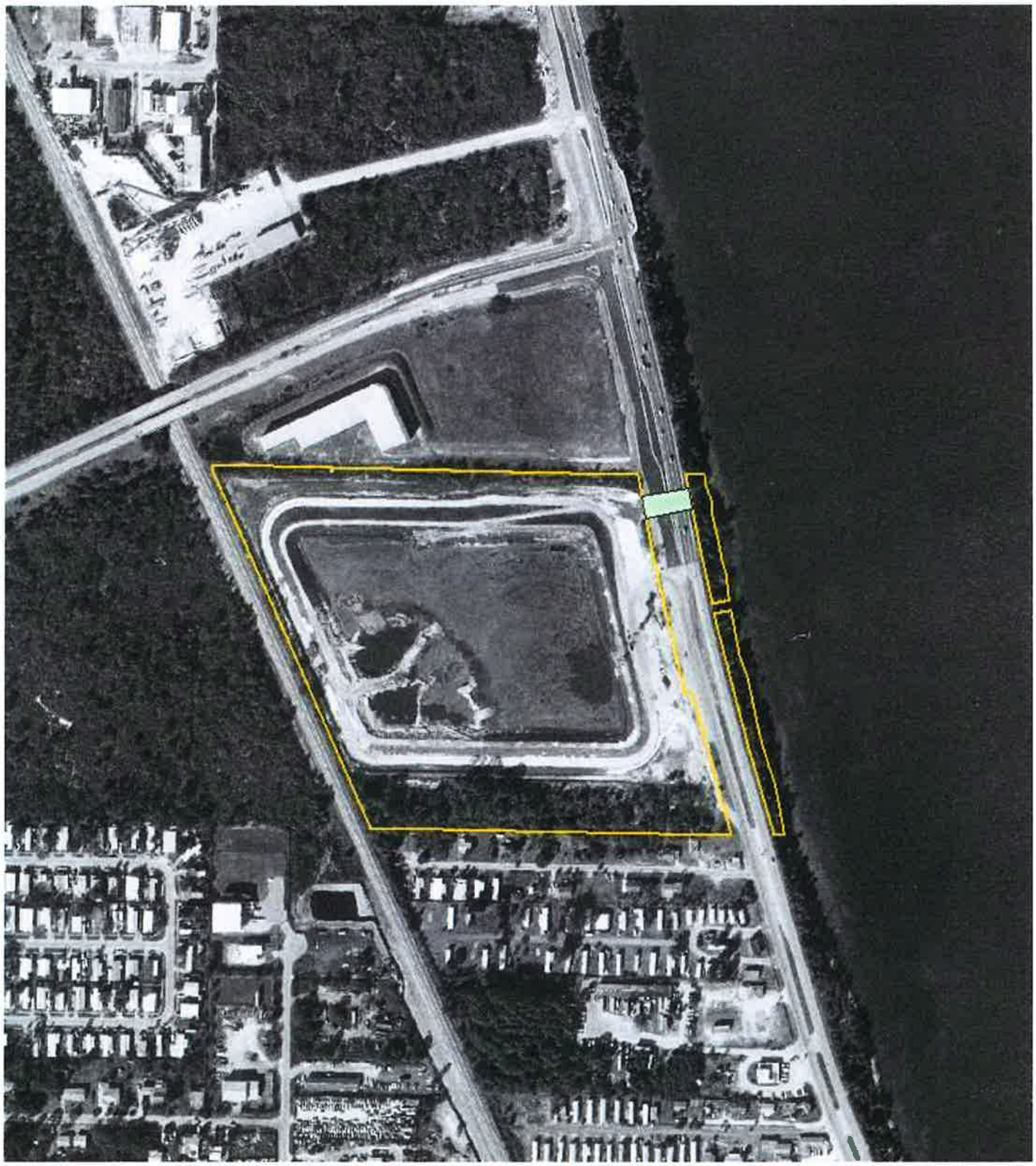
FIND Easement
FIND Owned

DMMA BV-40

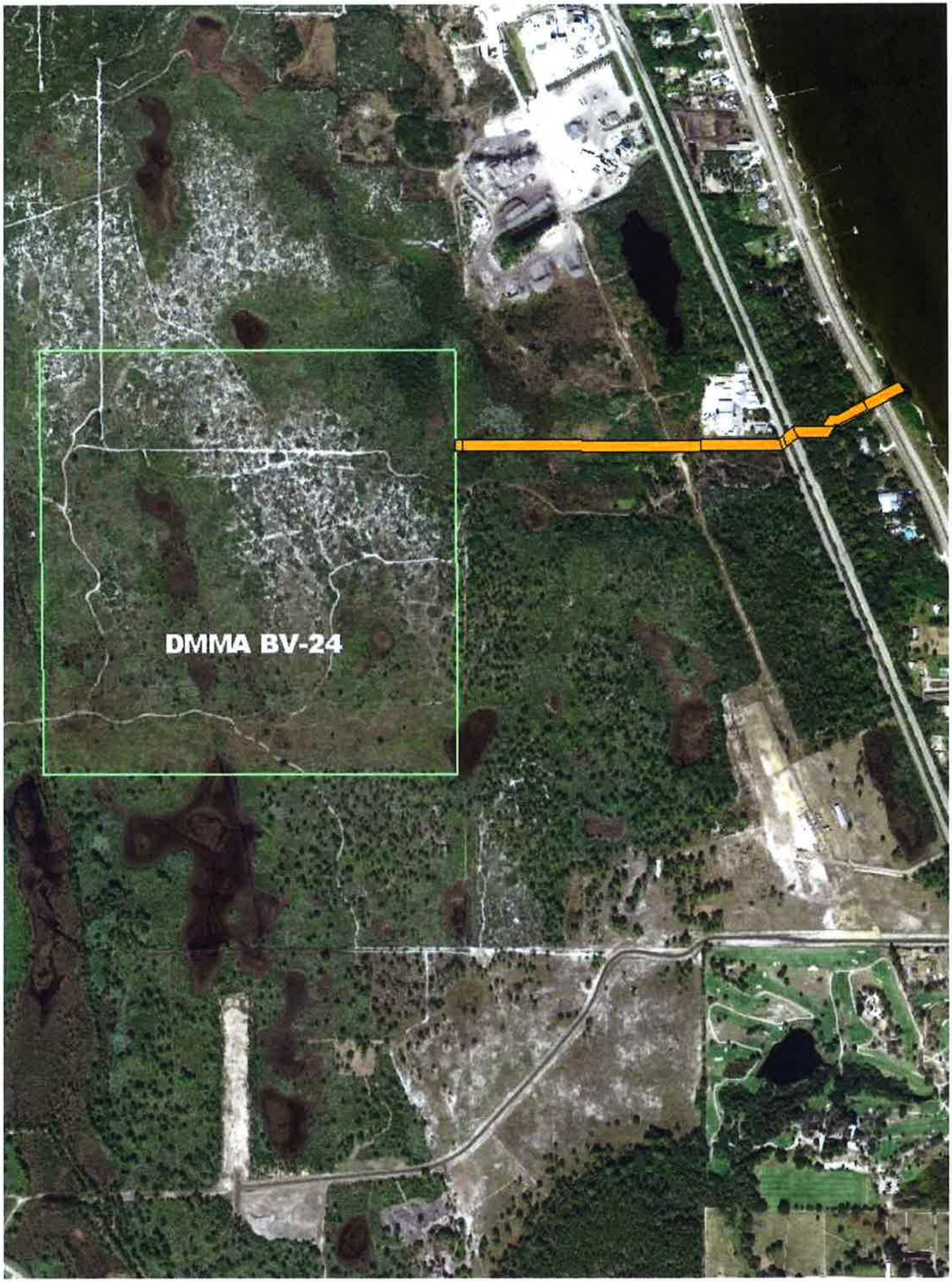
N


DMMA BV-40
Legend
BV-40
404
BV-40
Old Dixie Hwy
Merriman Dr
Madrid Dr
Holy Trinity Dr
Google earth
N
400 ft

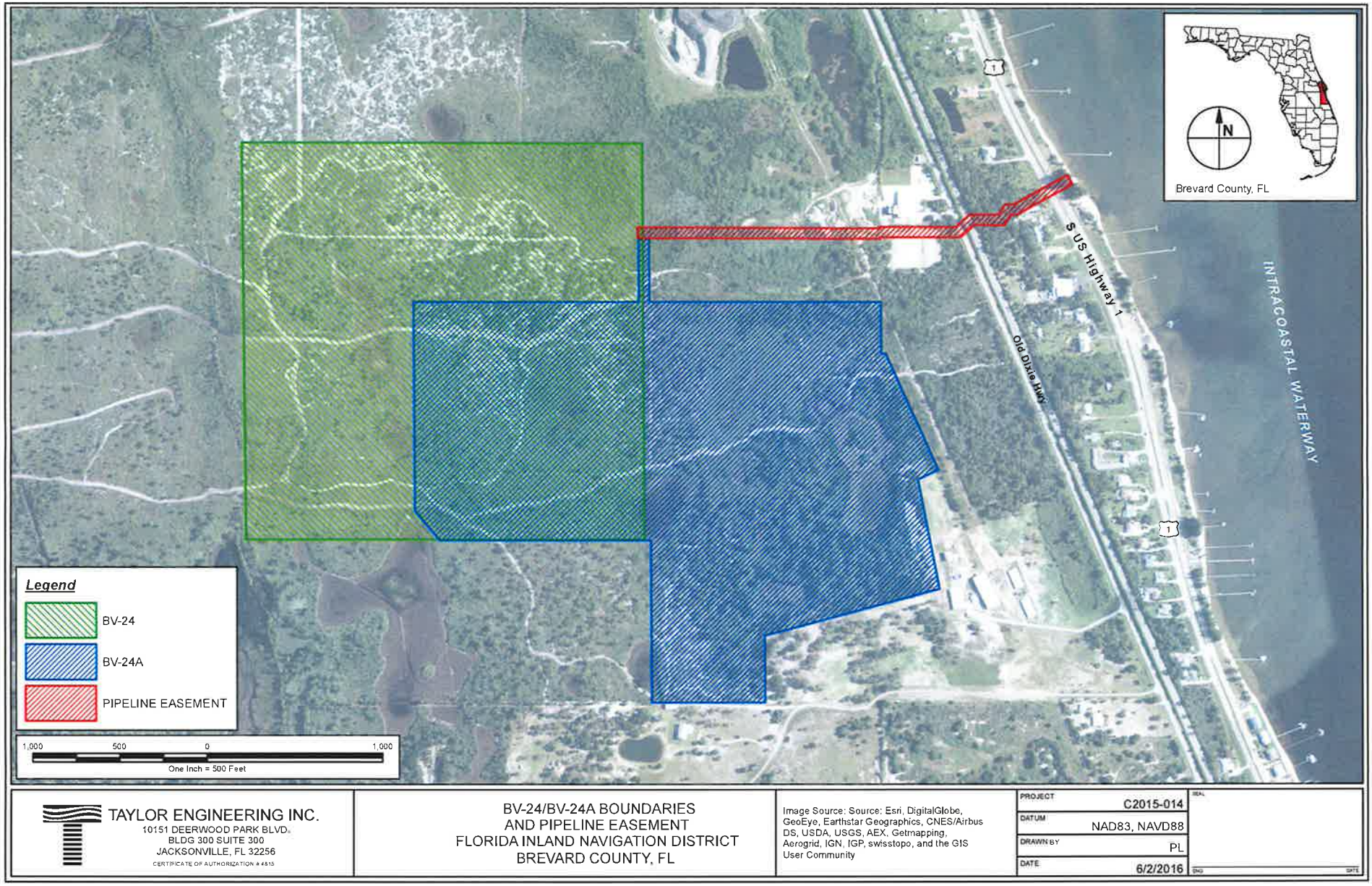
DMMA BV-52




DMMA BV-52
Legend
BV-52
Robert J. Conlan Blvd NE
BV-52
1
Dixie Hwy NE
Myers Dr NE
Google earth
N
400 ft


DMMA BV-24


DMMA BV-24
Legend
BV-24
BV-24
5
Old Dixie Hwy
7th St
N
Google earth
©2016 Google



TAYLOR ENGINEERING INC.
10151 DEERWOOD PARK BLVD.
BLDG 300 SUITE 300
JACKSONVILLE, FL 32256
CERTIFICATE OF AUTHORIZATION # 4815

BV-24/BV-24A BOUNDARIES
AND PIPELINE EASEMENT
FLORIDA INLAND NAVIGATION DISTRICT
BREVARD COUNTY, FL

Image Source: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

PROJECT	C2015-014
DATUM	NAD83, NAVD88
DRAWN BY	PL
DATE	6/2/2016

SEAL

ECONOMIC BENEFITS OF THE DISTRICT'S WATERWAYS

BREVARD COUNTY

Purpose

To update economic benefits in Brevard County of marine-related activities on the District Waterways, as previously estimated in *An Economic Analysis of the District's Waterways in Brevard County*, February 2003, and to provide the general public and Federal, State, and local officials with a clear understanding of the importance of maintaining the waterways.



Scenarios Evaluated

1. Current Existing Conditions
2. Cessation of Waterways Maintenance
3. Increase in Waterways Maintenance
4. Estimated impact of the 2007-2009 U.S. economic recession

ECONOMIC IMPACTS

Current Existing Impacts

- $580.2 million in business volume
- $122.3 million in personal income
- 3,652 jobs
- $21.5 million in tax revenue

Impacts of Cessation of Waterways Maintenance

- Decrease of $403.6 million in business volume
- Decrease of $79.3 million in personal income
- Decrease of 2,418 jobs
- Decrease of $11.8 million in tax revenue

Impacts of an Increase in Waterways Maintenance

- Increase of $21.4 million in business volume
- Increase of $5.0 million in personal income
- Increase of 161 jobs
- Increase of $1.0 million in tax revenue

Impact of the 2007-2009 U.S. Economic Recession

- Decrease of $935.5 million in business volume
- Decrease of $197.0 million in personal income
- Decrease of 5,936 jobs
- Decrease of $31.7 million in tax revenue

Economic Benefits as of April 2011

ECONOMIC BENEFITS OF THE DISTRICT'S WATERWAYS

BREVARD COUNTY

The Intracoastal Waterway
The Atlantic Intracoastal Waterway (AICW) is a 1,391-mile channel between Trenton, New Jersey, and Miami, Florida. The Waterway along Florida's eastern seaboard is 406 miles long and follows coastal rivers and lagoons past numerous tourism-oriented communities. The channel is authorized to a depth of 12 feet from Nassau County to Fort Pierce, and a 10 foot depth south through Miami-Dade County. Boating activities on the waterways contribute to the existence of numerous marine-related businesses such as marinas and boatyards and have stimulated development of residential properties on the Waterways.

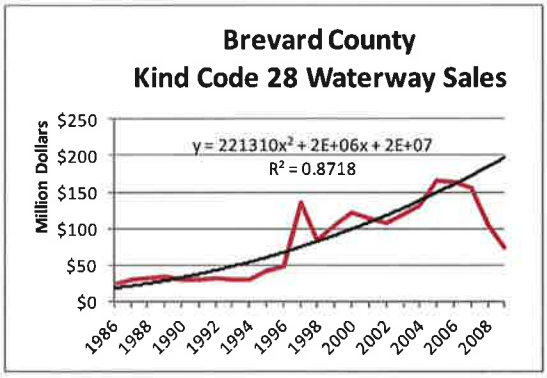
The Navigation District
The Florida Inland Navigation District, created in 1927, is the local sponsor for the AICW in Florida. In cooperation with the Jacksonville District of the U.S. Army Corps of Engineers, the Navigation District is responsible for maintenance of the AICW in Florida. To maintain navigation, the waterways need to be periodically dredged due to shoaling from currents, upland soil erosion, and the movement of offshore sands through the ocean inlets. Maintenance dredging is projected to cost approximately $12 to $16 million annually during the next 50 years, of which 50 percent of the costs are expected to be borne by property owners within the Navigation District's jurisdiction.

The Navigation District also partners with other governments to provide waterway access and improvement facilities for our mutual constituents. These projects include public boat ramps, marinas, side channels, parks, fishing piers, boardwalks, navigation aids, derelict vessel removal, shoreline stabilization, and waterway cleanups.

Source of Data Used in This Analysis
The economic benefits of the Waterways were estimated in February 2003 in *An Economic Analysis of the District's Waterways in Brevard County.*

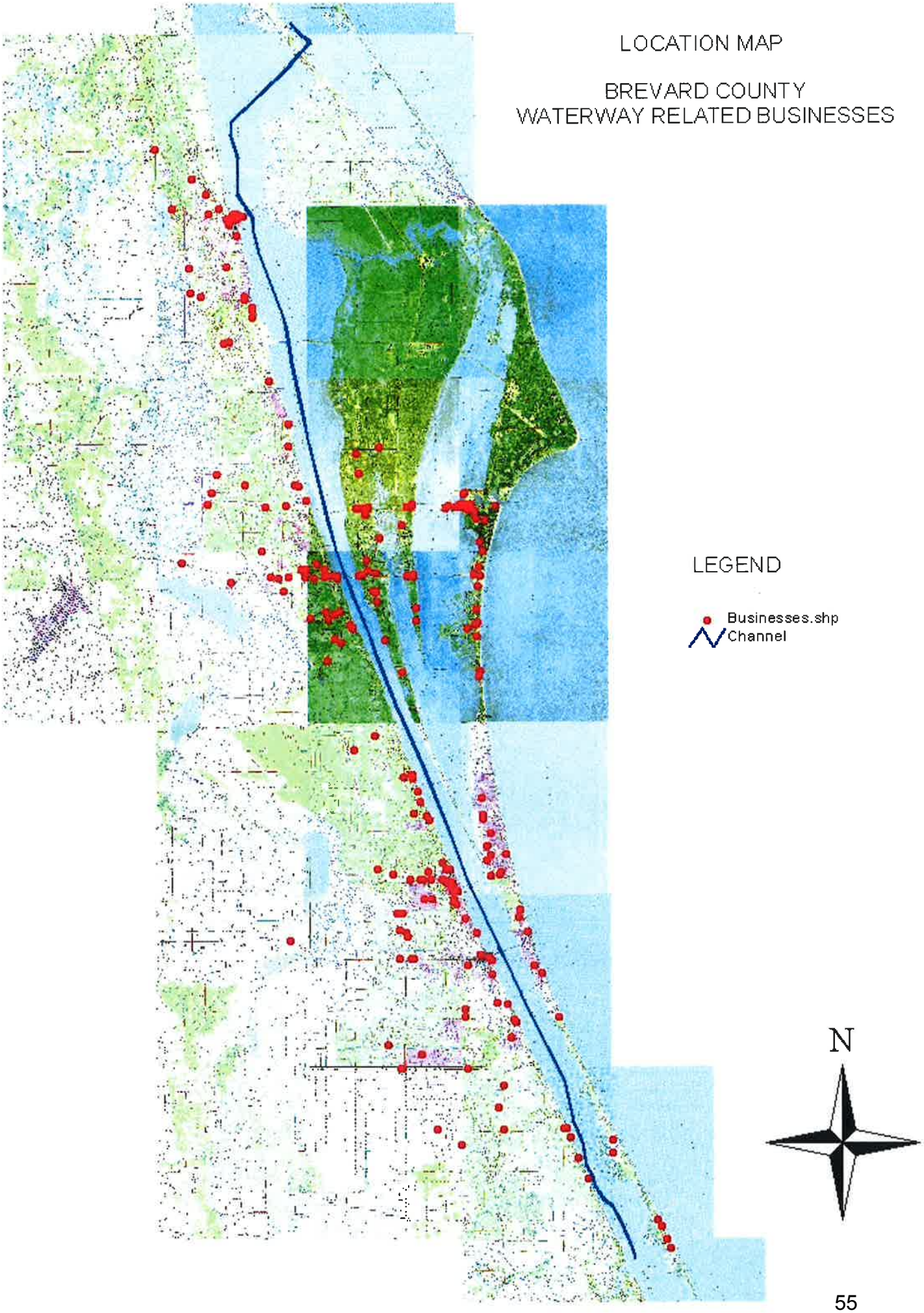
Updating of Previously Estimated Benefits
The benefits presented in this analysis were estimated by updating the direct marine-business impacts in the original analysis to current values using the change in gross sales reported by boat dealers to the Florida Department of Revenue (FDOR). The updated direct impacts were used in conjunction with an IMPLAN input/output model to estimate total economic benefits.

Estimating the Impact of the Recession
The impact of the recession was estimated by determining the trend in gross sales of boat dealers over the 20-year period prior to the onset of the recession. This trend was used to estimate the theoretical gross sales if sales had continued to increase at the rates previously experienced. The red line in the figure below illustrates reported actual gross sales of boat dealers and the black line illustrates the trend of those sales. From 2007 to 2009 gross boat dealer sales in Brevard County decreased by 53 percent; if the recession had not occurred, it is estimated that gross sales from 2007 to 2009 would have increased by 26 percent.



Annual Boater Spending on Gas, Food, and Drinks at Non-Marine-Related Establishments
- Current existing conditions: $30.9 million
- Cessation of maintenance: $25.7 million
- Increased maintenance: $30.9 million
- Assuming no recession: $46.8 million

Vessel Draft Restrictions Assumed for Each Scenario
- Current existing conditions: 6.5 feet MLW
- Cessation of maintenance: 3 feet MLW
- Increased maintenance: 12 feet MLW
- Assuming no recession: 6.5 feet MLW


LOCATION MAP
BREVARD COUNTY
WATERWAY RELATED BUSINESSES
LEGEND
Businesses.shp
Channel
N

WATERWAYS ASSISTANCE PROGRAM PROJECTS
BREVARD COUNTY 1986-2015

Project Name	Project Number	Project Sponsor	Grant Amount	Total Cost
Banana River/ Newfound Harbor Channel Marker - Phase I	BV-00-55	Brevard County	$25,000.00	$27,777.00
Lee Wenner Park Improvements - Phase I I	BV-00-56	Brevard County	$279,469.00	$566,436.00
Rotary Riverfront Park Dock Replacement - Phase I	BV-00-57	Brevard County	$6,757.00	$13,696.00
Space View Park Dock Replacement - Phase I & I I	BV-00-58	Brevard County	$32,672.00	$70,840.00
Marine Intracoastal Enforcement Program	BV-00-59	Brevard County S. O.	$5,739.00	$7,652.00
Banana River/ Newfound Harbor Channel Markers	BV-01-63	Brevard County	$58,500.00	$65,000.00
Coastal Resources & Ecosystems D.M.E. Project	BV-01-64	Brevard County	$30,000.00	$60,000.00
P.O.W./ M.I.A. Park Boat Launch Improvements	BV-01-65	Brevard County	$136,837.00	$276,187.00
Rotary Riverfront Park Dock Replacement - Phase I I	BV-01-66	Brevard County	$45,650.00	$91,300.00
Kelly Park East Improvements	BV-02-69	Brevard County	$80,000.00	$160,000.00
Kelly Park East Mooring Dock	BV-03-73	Brevard County	$27,800.00	$55,600.00
Riverwalk - A Family Park Nature Center	BV-03-74	Brevard County	$140,000.00	$280,000.00
Parrish Park - Titusville Boat Ramps	BV-03-75	Brevard County	$152,200.00	$560,000.00
Marine Intracoastal Enforcement Program - I I	BV-03-76	Brevard County	$20,000.00	$40,000.00
Chain Of Lakes Recreation Complex - Phase I (Expired)	BV-06-86	Brevard County	$107,500.00	$215,000.00
South County Boat Launch - Phase I	BV-06-87	Brevard County	$55,231.00	$110,462.00
Derelict Vessel Removal	BV-08-93	Brevard County	$20,825.00	$41,650.00
A. Max Brewer Memorial Causeway Catwalks	BV-08-94	Brevard County	$428,814.00	$857,628.00
South County Boat Launch - Phase I I	BV-08-95	Brevard County	$500,000.00	$2,261,700.00
Marina Park Boat Launch	BV-09-98	Brevard County	$330,145.00	$1,632,000.00
Indian Bay Channel Marker Project	BV-09-99	Brevard County	$13,375.00	$26,753.00
Parrish Park Boat Dock	BV-1	Brevard County	$6,250.00	$25,000.00
Blue Crab Cove	BV-10-103	Brevard County	$596,500.00	$2,825,000.00
Griffs Landing At Blue Crab Cove - Phase I	BV-11-105	Brevard County	$56,250.00	$112,500.00
Kelly Park East Boat Dock & Seawall Replacement	BV-11-106	Brevard County	$148,750.00	$297,500.00
Griffis Landing At Blue Crab Cove - Phase I I	BV-12-110	Brevard County	$304,241.00	$608,482.00
Derelict Vessel Removal - 2012	BV-12-111	Brevard County	$22,850.00	$45,700.00
Kelly Park East Floating Dock	BV-12-112	Brevard County	$71,500.00	$162,500.00
Griffis Landing at Blue Crab Cove Phase B	BV-13-117	Brevard County	394,000.00	$788,000.00
John Jorgensen's Landing Boat Ramp Dock Replacement	BV-13-118	Brevard County	9,400.00	$18,800.00
POW MIA Park Channel Dredging Ph I	BV-13-119	Brevard County	35,000.00	$70,000.00
Channel Markers & Signs	BV-2	Brevard County	$12,650.00	$50,600.00
Long Point Park Bridge	BV-3	Brevard County	$7,500.00	$30,000.00
Kiwanis Point Park Improvements	BV-87-5	Brevard County	$40,000.00	$80,000.00
Port St. John's Boat Ramp Park	BV-87-6	Brevard County	$25,000.00	$50,000.00
Lee Wenner Park Shoreline Stabilization	BV-87-7	Brevard County	$15,000.00	$30,000.00
Channel Markings	BV-87-8	Brevard County	$12,500.00	$25,000.00
Long Point Bridge/Dock Improvements	BV-87-9	Brevard County	$10,000.00	$20,000.00
Derelict Vessel Removal	BV-88-11	Brevard County	$50,000.00	$200,000.00
Wayside Park Design	BV-89-15	M. I. Redevelop Agency	$20,000.00	$40,000.00

WATERWAYS ASSISTANCE PROGRAM PROJECTS
BREVARD COUNTY 1986-2015

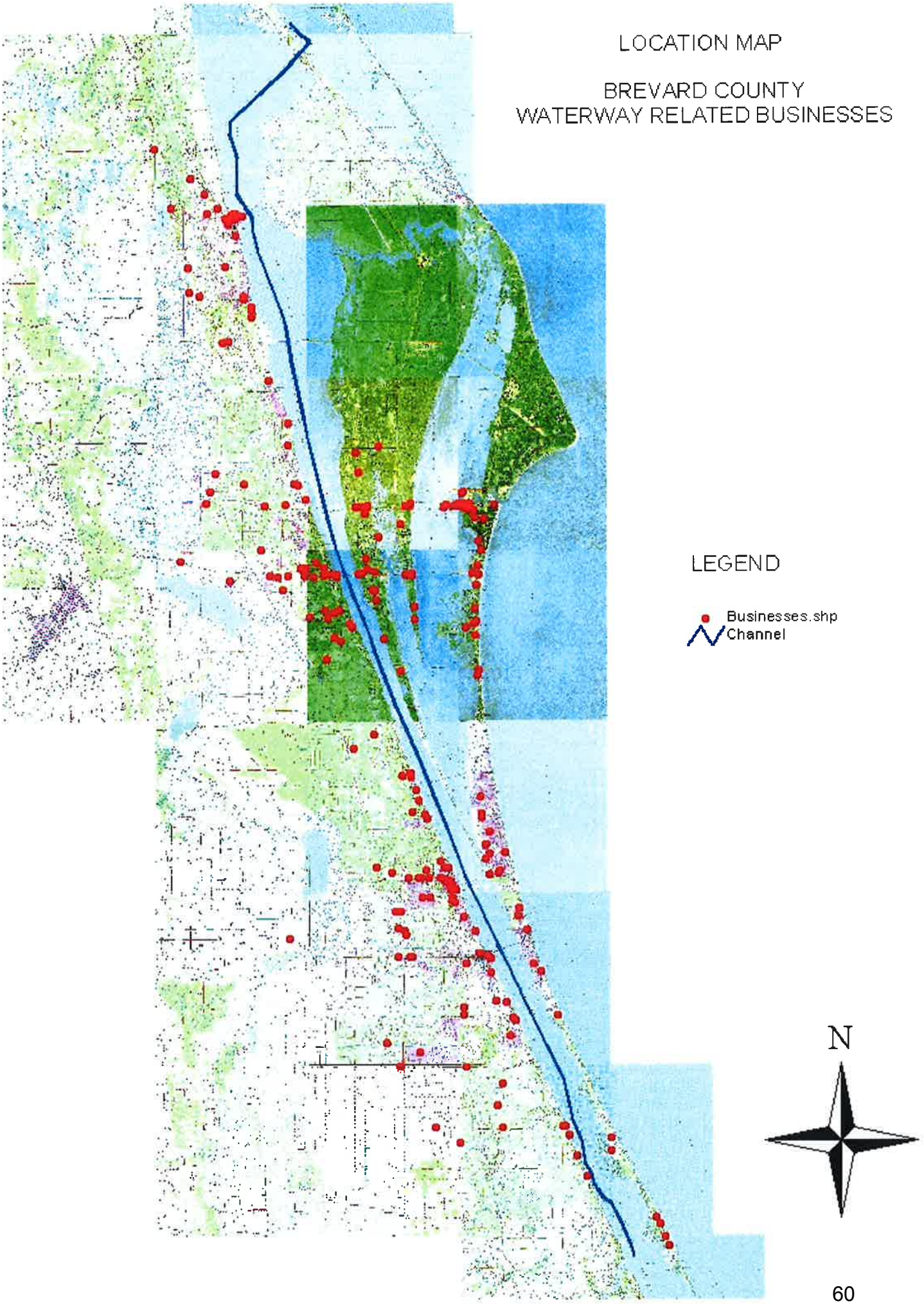
Project Name	Project Number	Project Sponsor	Grant Amount	Total Cost
Veterans Memorial Park	BV-90-17	Brevard County	$28,000.00	$57,770.00
Intracoastal Waterway Park	BV-90-18	Brevard County	$70,000.00	$183,000.00
Indian River Lagoon Channel Marking	BV-91-19	Brevard County	$90,000.00	$90,000.00
Fisherman's Landing Boat And Fishing Pier (Expired)	BV-91-20	Brevard County	$20,000.00	$40,000.00
Constitution Park Shoreline Stabilization (Expired)	BV-92-25	Brevard County	$15,000.00	$30,000.00
Seawall & Dock Repair @ Haulover Canal	BV-93-28	Brevard County	$60,000.00	$211,000.00
Spessard Holland Golf Course Shoreline Stab. - Phase I	BV-93-29	Brevard County	$4,000.00	$8,000.00
Kennedy Point Park - Phase I	BV-93-30	Brevard County	$9,000.00	$20,000.00
Spessard Holland Golf Course Shoreline Stabilization	BV-94-33	Brevard County	$89,896.00	$179,792.00
First Street Boat Ramp	BV-95-35	Brevard County	$30,000.00	$60,000.00
Fisherman's Landing Boating & Fishing Dock	BV-95-36	Brevard County	$20,000.00	$40,000.00
Kennedy Point Park - Phase I I	BV-96-37	Brevard County	$155,269.00	$800,832.00
Merritt Island Waterway Maintenance Dredging	BV-96-38	Brevard County	$155,269.00	$479,500.00
Kennedy Point Park	BV-97-43	Brevard County	$217,341.00	$781,749.00
Marine Intracoastal Enforcement Program	BV-97-44	Brevard County S. O.	$61,542.00	$77,392.00
Manatee Hammock Pier & Shoreline Stabilization	BV-98-47	Brevard County	$60,948.00	$121,896.00
Lee Wenner Park Improvements - Phase I	BV-98-48	Brevard County	$25,000.00	$50,000.00
John Jorgensen's Landing Dock Replacement	BV-98-49	Brevard County	$14,250.00	$28,500.00
Waterways Environmental Education Canoe Project	BV-99-51	Brevard County Ext. Service	$8,317.74	$11,268.67
Cocoa Riverfront Park Mooring Field Ph I	BV-C0-14-123	City of Cocoa	$25,000.00	$100,000.00
400 Channel Dredging	BV-CB-09-100	City Of Cocoa Beach	$183,850.00	$245,150.00
Public Spoil Site Development - Phase I	BV-CB-11-107	City Of Cocoa Beach	$100,000.00	$200,000.00
Public Spoil Site Development Ph II	BV-CB-13-120	City of Cocoa Beach	175,433.00	$400,000.00
Dredging of Channels No. 400 and Rock Point	BV-CB-4	City of Cocoa Beach	$41,250.00	$165,000.00
Channel Dredging	BV-CB-89-13	City of Cocoa Beach	$61,000.00	$135,000.00
Dredging of Channels	BV-CB-92-23	City of Cocoa Beach	$110,000.00	$220,323.00
Maintenance Dredging Of The 200 Channel	BV-CB-93-26	City Of Cocoa Beach	$30,000.00	$73,000.00
Banana River Park	BV-CC-14-122	City of Cape Canaveral	$62,167.00	$421,741.00
Lee Wenner Park Dredging & Seawall Extension	BV-CO-12-113	City Of Cocoa	$111,750.00	$223,500.00
Lee Wenner Park Renovation Ph 1	BV-CO-13-121	City of Cocoa	75,000.00	$244,000.00
Cocoa Village Riverwalk Esplanade	BV-CO-97-45	City Of Cocoa	$190,492.00	$380,984.00
Re-construction Of Melbourne Beach Historic Pier	BV-MB-01-67	Town Of Melbourne Beach	$136,500.00	$273,000.00
Pineapple Park Shoreline Stabilization	BV-ME-00-60	City Of Melbourne	$22,125.00	$94,250.00
Houston Street Retaining Wall Replacement	BV-ME-02-70	City Of Melbourne	$15,000.00	$30,000.00
Expansion Of Eau Gallie Pier At Pineapple Park	BV-ME-06-88	City Of Melbourne	$276,537.00	$581,000.00
Crane Creek Promenade Reconstruction	BV-ME-09-101	City Of Melbourne	$350,250.00	$758,500.00
Horse Creek Non-motorized Boat Launch & Dredge - Ph I	BV-ME-12-114	City Of Melbourne	$30,000.00	$60,000.00
Melbourne Harbor Channel Dredge - Phase I	BV-ME-12-115	City Of Melbourne	$40,000.00	$80,000.00
Marina Towers Land Acquisition	BV-ME-14-124	City of Melbourne	$358,930.00	$1,435,720.00
Melbourne Harbor Channel Dredge Ph II	BV-ME-14-125	City of Melbourne	$143,582.00	$287,165.00

WATERWAYS ASSISTANCE PROGRAM PROJECTS
BREVARD COUNTY 1986-2015

Project Name	Project Number	Project Sponsor	Grant Amount	Total Cost
Horse Creek Dredge Ph II	BV-ME-14-126	City of Melbourne	$159,285.00	$919,885.00
Pineapple Park Fishing Pier	BV-ME-87-10	City of Melbourne	$14,667.00	$29,334.00
Ballard Park Improvements	BV-ME-88-12	City of Melbourne	$75,000.00	$188,696.00
Lincoln Avenue Overlook Park	BV-ME-89-14	City of Melbourne	$25,000.00	$59,740.00
Front Street Channel	BV-ME-90-16	City Of Melbourne	$40,000.00	$103,235.00
Environmental Education Pavilion at Crane Creek	BV-ME-91-21	City of Melbourne	$60,000.00	$103,950.00
Pineapple Park Pier Repairs	BV-ME-92-24	City of Melbourne	$7,500.00	$15,000.00
Environmental Education Brochures & Vending Machine	BV-ME-93-27	City Of Melbourne	$7,000.00	$8,800.00
Pineapple Park Fishing Pier Lighting	BV-ME-94-32	City Of Melbourne	$10,500.00	$21,000.00
Crane Creek Dredging - Phase I	BV-ME-96-41	City Of Melbourne	$35,000.00	$70,000.00
Crane Creek Promenade Boardwalk Repairs	BV-ME-97-46	City Of Melbourne	$7,000.00	$14,000.00
Melbourne Police Department Marine Patrol Boat	BV-ME-98-50	City Of Melbourne	$28,693.00	$38,257.00
Ballard Park Shoreline Stabilization	BV-ME-99-54	City Of Melbourne	$9,000.00	$18,000.00
Intracoastal Waterway Park	BV-MI-91-22	M. I. Redevelop Agency	$45,000.00	$112,000.00
I R L House - Environmental Learning Center	BV-PB-00-61	City Of Palm Bay	$100,000.00	$692,500.00
Pollak Park Boating Safety Center & Improvements	BV-PB-01-68	City Of Palm Bay	$107,500.00	$265,000.00
A.I.S. Lagoon House Shoreline Stabilization	BV-PB-02-71	City Of Palm Bay	$70,000.00	$140,000.00
Lagoon House	BV-PB-03-77	City Of Palm Bay	$110,750.00	$1,320,000.00
Navigational Aids For Turkey Creek & Channel	BV-PB-03-78	City Of Palm Bay	$29,250.00	$58,500.00
Turkey Creek Maintenance Dredging	BV-PB-03-79	City Of Palm Bay	$110,000.00	$220,000.00
South Pier At Castaways Point Park	BV-PB-03-80	City Of Palm Bay	$50,000.00	$100,000.00
Derelict Vessel Removal	BV-PB-04-81	City Of Palm Bay	$28,000.00	$56,000.00
Turkey Creek Maintenance Dredging	BV-PB-04-82	City Of Palm Bay	$75,000.00	$150,000.00
Turkey Creek Sediment Sump	BV-PB-04-83	City Of Palm Bay	$40,250.00	$85,500.00
Maintenance Of Turkey Creek Navigation	BV-PB-06-89	City Of Palm Bay	$150,000.00	$300,000.00
Public Boat Ramp Lighting	BV-PB-07-90	City Of Palm Bay	$33,000.00	$66,000.00
Turkey Creek Dredging Permit Consolidation (Expired)	BV-PB-07-91	City Of Palm Bay	$62,500.00	$125,000.00
Bayfront Waterfront	BV-PB-12-116	City Of Palm Bay	$58,875.00	$785,000.00
Turkey Creek Area Dredging	BV-PB-96-39	City Of Palm Bay	$70,000.00	$150,000.00
Castaways Point Park Development	BV-PB-96-40	City Of Palm Bay	$45,000.00	$205,000.00
Turkey Creek Channel Dredging	BV-PB-99-52	City Of Palm Bay	$400,000.00	$450,000.00
Shoreside Park Fishing Dock Repair	BV-PS-02-72	Town Of Palm Shores	$50,000.00	$100,000.00
Shoreside Park Hurricane Related Repairs	BV-PS-05-84ER	Town Of Palm Shores	$147,390.00	$419,780.00
Samsons Island A.D.A. Restroom	BV-SB-08-96	City Of Satellite Beach	$15,000.00	$30,000.00
Police Boat Engine	BV-SB-09-102	City Of Satellite Beach	$7,265.00	$14,530.00
Coconut Point Shoreline Stabilization - Phase I I	BV-SI-11-108	Sebastian Inlet District	$120,000.00	$240,000.00
Sand Pointe Slip	BV-TI-00-62	City Of Titusville	$47,779.00	$53,800.00
2004 Hurricane Damage - Dock Replacement	BV-TI-06-85ER	City Of Titusville	$36,647.27	$73,294.00
Dock E Replacement (Withdrawn)	BV-TI-07-92	City Of Titusville	$477,400.00	$954,800.00
Marina Fuel Tank Replacement	BV-TI-08-97	City Of Titusville	$49,972.88	$131,507.57

WATERWAYS ASSISTANCE PROGRAM PROJECTS
BREVARD COUNTY 1986-2015

Project Name	Project Number	Project Sponsor	Grant Amount	Total Cost
Mooring Field Installation	BV-TI-10-104	City Of Titusville	$185,000.00	$370,000.00
Channel Maintenance Dredging - Phase I	BV-TI-11-109	City Of Titusville	$52,500.00	$70,000.00
Veterans Memorial Fishing Pier Redecking	BV-TI-94-31	City Of Titusville	$19,050.00	$38,100.00
Space Walk Hall Of Fame - Gemini Phase	BV-TI-97-42	City Of Titusville	$144,252.00	$447,000.00
Veterans Memorial Pier	BV-TI-99-53	City Of Titusville	$115,152.00	$230,304.00
200 Channel Dredging	BV-CB-15-127	City of Cocoa Beach	$355,555	$710,000.00
Banana River Park Kayak Launch	BV-CC-15-128	City of Cape Canaveral	$53,505	$107,010.00
		TOTALS	**$11,946,841.89**	**$33,438,318.24**


LOCATION MAP
BREVARD COUNTY
WATERWAY RELATED BUSINESSES
LEGEND
Businesses.shp
Channel
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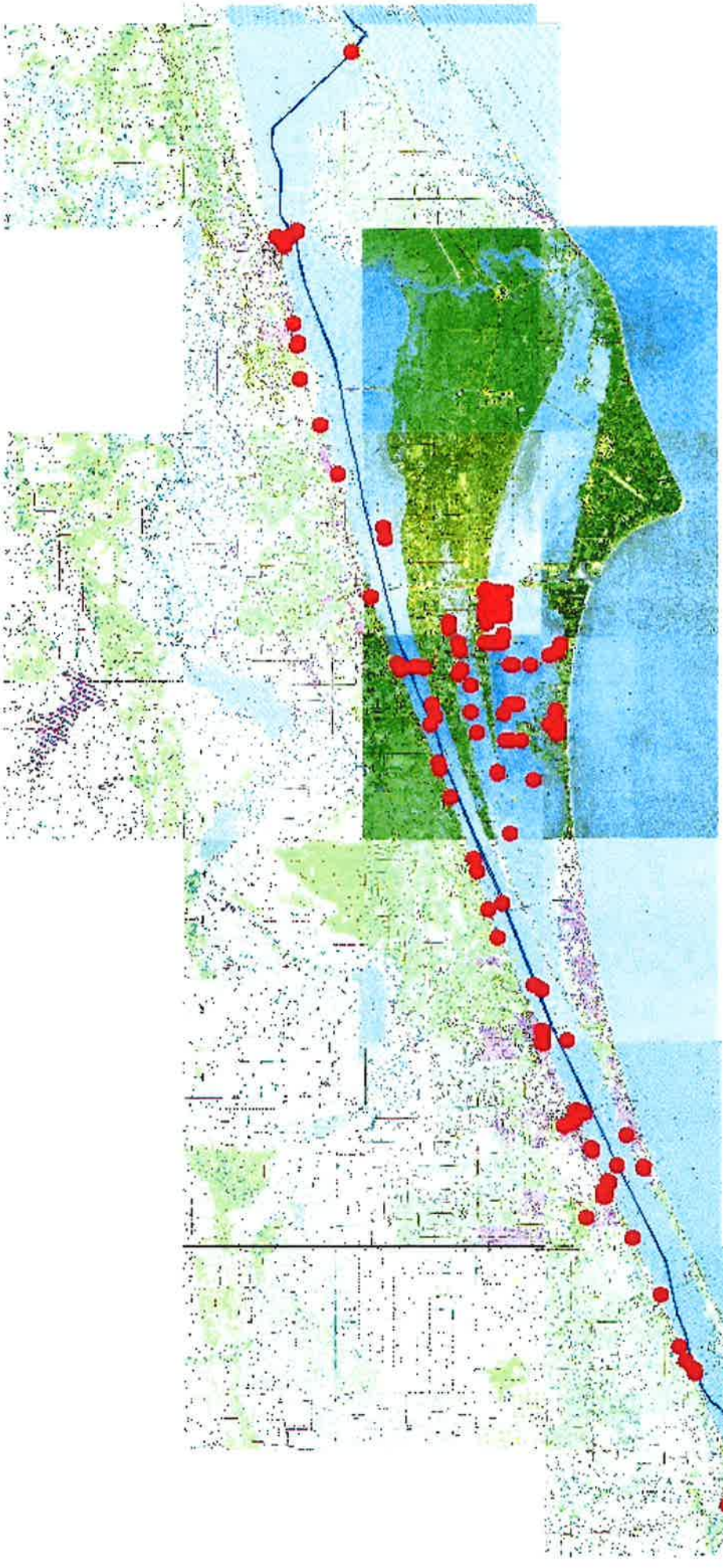
LOCATION MAP

BREVARD COUNTY

WATERWAY ASSISTANCE PROGRAM PROJECTS



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ATTACHMENT D-2

COOPERATIVE ASSISTANCE PROGRAM
PROJECT APPLICATION 2016
APPLICANT INFORMATION – PROJECT SUMMARY

APPLICANT INFORMATION			
Applicant:	FL Division of Recreation and Parks		
Department:	FL Department of Environmental Protection		
Project Title:	Bulkhead Rehabilitation at No Name Harbor		
Project Director:	Marshall Flake (850-245-3104)	**Title:**	Coastal Project Manager
Project Liaison: *(if different from Project Director)*	Yerian Art	**Title:**	Park Manager
Mailing Address:	1200 South Crandon Boulevard, Bill Baggs Cape Florida State Park		
City:	Key Biscayne,	**Zip Code:**	33149
Email Address:	Yerian.Art@dep.state.fl.us	**Phone #:**	305-361-8779 Park Office
Project Address:	Same as above		

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

SIGNATURE: _____ **DATE:** 03/31/2016

PROJECT SUMMARY (Please summarize project in space provided below in 2 paragraphs or less.)

The Project will rehabilitate1,475 linear feet of Bulkhead along the south west shore of No Name Harbor at Bill Baggs Cape Florida State Park (Park). The Park is located at the southern tip of Key Biscayne in Miami-Dade County, and receives more than 900,000 annual visitors. Specifically, No Name Harbor is a popular destination for recreational boaters, and offers free daytime/evening use of the bulkhead. Due to the age of the bulkhead structure, rehabilitation is required to return it to full operational standards. Presently around 100 feet of the bulkhead is closed off from public use. The project scope includes repairs that are approximately quantified as follows:

- 807' of minor cracking, 533' of moderate cracking, and 60' of major cracking on bulkhead cap
- Approximately 150 tie-rods will be replaced or repaired, along with deadman anchors, as required.
- The side walk disturbed by tie-rod excavation, or undermining, shall be replaced as new.
- At no point in the project will any portion of the bulkhead piles be replaced.
- Riprap shall be installed to replace the mudline to the original elevation in undermined areas.
- All areas disturbed by the contractor or construction equipment shall be restored to their original state, or in kind, as directed by the Park Manager.

NOTE: All required Environmental approvals have been obtained.

Form No. 90-12
New 12-17-90, Rev-7-30-02

ATTACHMENT D-3 - PROJECT INFORMATION 2016

Applicant:	FL Division of Recreation and Parks	**Project Title:**	Bulkhead Rehabilitation at No Name Harbor		
Total Project Cost: $	$947,518.00	**FIND Funding Requested: $**	$473,759.00	**% of Total Cost:**	50%
Amount and Source of Applicant's Matching Funds:	The Division of Recreation and Parks (DRP) will use funding granted annually by the FL Legislature for the 2016-2017 FY Budget. Because the Division previously paid for the Project's Design and Permitting this part of the Project is complete.				

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

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

Long term lease from the Board of Trustees of Internal Improvement Trust Fund.

3. Once completed, will this project be insured against damage? Explain

No, the State self insures projects involving piers, bulkheads, seawalls, erosion control structures and beach projs.

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

5. If yes, please list:

In 2011 FINDE granted DRP $8,037.00 to replace an aging lift station for sanitary pump out at the harbor.

6. 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):

1,475 linear feet of docking, all of which is in need of repair - 100 feet is presently closed off.

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

None, this is strictly a bulkhead repair project. However, access will be restored to the presently closed off section.

8. Are fees charged for the use of this project? No ■ Yes ☐

9. 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		6/12/2013
DEP			
ACOE	Yes		6/12/2013
COUNTY / CITY	Yes (DERM)		6/12/2013

ATTACHMENT D-4

COOPERATIVE ASSISTANCE PROGRAM

APPLICATION EVALUATION AND RATING WORKSHEET 2016

STEP 1: All applicants will complete Attachment D-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** (D-4A, 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.

Project Title:	Bulkhead Rehabilitation at No Name Harbor
Applicant:	FL Division of Recreation and Parks

1) PRIORITY LIST:

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

Priority 8

b) Explain how the project fits this priority category.

This project will repair existing public boat docking infrastructure which is free to the public for daytime/evening use up to 9:00 pm.

(For reviewer only) Max. Available Score _47_____

Range of Score (0 to _5__ points)

2) WATERWAY RELATIONSHIP:

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

No Name harbor offers a safe haven for either local or transient recreational boaters using the ICW. The project will repair an existing bulkhead used for protected docking space.

b) How does the project benefit public navigation or access to the ICW or adjoining waterways?

No Name harbor is a popular destination for recreational boaters both local and transient. Boats may anchor in the well protected harbor for an over night fee of $20 and daytime use of the bulkhead up to 9:00 pm is free. Amenities include a restaurant, laundromat and pump out station.

(For reviewer only)
(0-6 points)

3) PUBLIC USAGE & BENEFITS:

a) How is the public usage of this project clearly identified and quantified?

As there is no charge to use the bulkhead for day use, no records are available. However anecdotal evidence clearly indicates that No Name Harbor is a very popular attraction at a Park that received over 900,000 visitors last year.

b) Discuss the regional and local public benefits and access that will be provided by the project.

The project will improve access and usage by repairing the existing bulkhead and opening 100' of previously closed bulkhead access. The harbor is a regional recreational boaters attraction and is in constant use, offering a restaurant, laundromat and pump out station.

c) Estimate the amount of total public use.

There is no way to accurately measure the exact number of people who use the Harbor, but the Park this year has received over 900,000 visitors, many of whom came by boat.

d) Can residents from other counties of the District reasonably access and use the project? Explain.

No Name Harbor is open to all recreational boaters and provides some marina amenities during daylight hours. It is a popular stop-over spot for boaters using the ICW.

(For reviewer only)
(0-8 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 D-6*.

Design & Permitting are complete. Bidding, Contractor Selection and Contracting, will take 2.5 months minimum. NOTE: If DRP is advised that we will be granted funds, before the funds are available, we can start the Bidding process sooner. Construction should take no longer than 6/7 months.

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

The replacement/repair of the tie backs and deadman cannot be assessed completely until they are excavated, but the proposed schedule and budget is conservative and allows for potential variability.

(For reviewer only)
(0-3 points)

5) COSTS & EFFICIENCY:

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

Other than FIND Grant Match Funds and DRP budget funds, there will not be any other significant source of funding for this Project.

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

The Tieback & Deadman repair/replacement remain the greatest unknown item and until the actual excavation, we will not be able to accurately determine the scope of this Project element.

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

Construction access may be provided by land or by water, via 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.

Daytime/evening bulkhead use is free for general boating public. Overall park access is $8/car, $4/car-single, $2/pedestrian. Nearby Crandon Park is $7/car, and Virginia Key is $6-$8/car and $1/bike.

(For reviewer only)
(0-6 points)

6) PROJECT VIABILITY:

a) Does the project fill a specific need in the community, or is it consistent with an existing maritime management plan?

As a repair Project, rather than new construction, the Project does not break "new ground", however the bulkhead is a popular destination for boaters and needs to be maintained. The Project is consistent with the Park's "Unit Management Plan".

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

DRP will have funds for minor maintenance which can be completed on an as needed basis, but for large projects, similar to this one, we will generally look for assistance.

c) Will the program result in significant and lasting benefits? Please describe any environmental benefits associated with this project.

The most significant environmental improvement will come with sealing the bulkhead panels behind the pilings so that sediment doesn't leak into the harbor decreasing water quality and depth. The original Bulkhead is prone to leaking sediment as it wasn't constructed filter cloth This is especially prevalent at low tide, when the hydrostatic pressure is at it's greatest.

(For reviewer only)
(0-7 points)

SUB-TOTAL _____

FIND FORM NO. 00-25
(Effective Date: 3-21-01, Revised 4-24-06)

ATTACHMENT D-4A

COOPERATIVE ASSISTANCE PROGRAM

APPLICATION EVALUATION AND RATING WORKSHEET

DEVELOPMENT & CONSTRUCTION PROJECTS

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? If permits are NOT required, explain why not.**

Yes (SFWMD, USACE, DERM)

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.**

N/A

(For reviewer only)
(0-4 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 Final Design and Permitting is complete and environmental permits obtained; the project is ready for bidding and construction.

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

The project will restore use of at least 100 feet of bulkhead, further, the Project will improve the experience of Park visitors and water quality by restricting sediments from leaking from the upland side of the Bulkhead into the harbor, particularly during low tide.

(For reviewer only)
(0-2 points)

9) CONSTRUCTION TECHNIQUES:

a) Briefly explain the construction techniques to be utilized for this project.

Spalled concrete area shall be prepared and patched with repair mortar. Hydraulic cement and filter cloth shall be installed behind the Bulkhead. Epoxy injection will be used on smaller cracks. Tie rods and concrete deadmen shall be repaired or replaced.

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

Construction techniques employed are SOP for bulkhead repairs of this type. But until we have engaged a contractor we will not know how the Project will actually be constructed.

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

Waterfront repairs are generally more complex logistically than standard upland building repairs.

(For reviewer only)
(0-3 points)

10) CONSTRUCTION MATERIALS:

a) List the materials to be utilized for this project. What is the design life of the proposed materials?

Concrete, hydraulic cement, reinforced concrete, Bond and Seal for rebar, epoxy injection grouting, A36 1-1/4" steel rod, rebar, rip-rap, and back fill.

Project design life is at least 20 years, which is the most economically feasible for DRP.

b) Describe any recyclable material to be utilized. How does the recyclable material (if any) compare to other available material?

N/A

c) Identify any unique construction materials that may significantly alter the project costs.

N/A

(For reviewer only)
(0-3 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 0 points. A score of 35 points or more is required to be considered for funding.)

Form No. 00-25A
(Effective Date: 3-21-01, revised 4-24-06)

ATTACHMENT D-5

FLORIDA INLAND NAVIGATION DISTRICT
ASSISTANCE PROGRAM 2016

PROJECT COST ESTIMATE
(See Rule Section 66B-1.005 & 1.008 for eligibility and funding ratios)

Project Title:	Bulkhead Rehabilitation at No Name Harbor
Applicant:	FL Division of Recreation and Parks

Project Elements *(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)*	**Quantity or Total Estimated Cost** **(Number and/or Footage etc.)**	**Applicant's Cost** 50%	**FIND Cost** 50%
Construction Administration by a Florida certified Engineering Firm	$49,500.00	$24,750.00	$24,750.00
Bulkhead - Cap, Pilings & Panels	$208,341.10	$104,170.55	$104,170.55
Tiebacks & Deadmen Repair/Replacement	$337,837.50	$168,918.75	$168,918.75
Riprap at Mudline	$159,959.80	$79,979.90	$79,979.90
Upland Restoration	$127,963.55	$63,981.78	$63,981.77
sidewalk reconstruction, turbidity barrier, mooring cleats, etc.	$63,916.05	$31,958.02	$31,958.03

****TOTALS =**	$ 947,518.00	$ $473,759.00	$ 473,759.00

Form No. 90-25 (New 10/14/92, Revised 04-24-06)

ATTACHMENT D-6

COOPERATIVE ASSISTANCE PROGRAM 2016

PROJECT TIMELINE

Project Title:	Bulkhead Rehabilitation at No Name Harbor
Applicant:	FL Division of Recreation and Parks

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 1st

(or be consistent with Rule 66B-1.005(3) - Pre-agreement expenses)

DESIGN & PERMITTING - Previously Completed By DEP
BIDDING & CONTRACTING - October 1st, to December 31st.
CONTRACT ADMINISTRATION - December 1st, through July 31st.
MOBILIZATION - December 31st, to January 15th.

COMMENCE CONSTRUCTION - January 15th

BULKHEAD CAP - January 15th, to May 15th. Cleaning concrete Surface and exposed steel - Prime and Protect exposed Rebar (Bond & Seal) - Restore spalled area, Reinforced Concrete - Epoxy injection grouting for cracks.
PILINGS - February 1st, to June 15th. Clean concrete Surfaces and exposed steel - Prime and Protect exposed Rebar (Bond & Seal) - Restore spalled area & Reinforced Concrete - Epoxy injection grouting for cracks.
PANELS - February 15th, to June 30th. Install Filter fabric - Epoxy injection grouting for cracks - Hydraulic cement - Grout.
TIEBACKS & DEADMEN - February 15th to June 30th. Tieback Excavation and demolition of sidewalk - Replace all tie-backs (A36 1-1/4" Ø rod) Replace deadmen (w/rebar) as needed - Filling over new tie-backs.
RIPRAP March 1st, to June 30th. Install riprap at mudline, not to extend more than 36" from the base of the bulkhead.
SIDEWALK REMOVAL & RECONSTRUCTION - MISCELLANEOUS ITEMS - February 15th, to June 30th. Constrict a new concrete Sidewalk (4" Thick), including a 1/2" expansion Joint along bulkhead cap - floating turbidity barrier - aluminum class 10 "S" mooring cleats/anchor bolts - Exploration of existing utilities.
UPLAND RESTORATION - April 1st, to June 30th. Upland Restoration with new fill behind Bulkhead.

CONSTRUCTION COMPLETION - June 30th

DEMOBILIZATION & PROJECT CLOSEOUT July 1 to July 31st



State of Florida Department of Environmental Protection Division of Recreation and Parks Tallahassee, Florida	**Bill Baggs Cape Florida State Park** **No Name Harbor Seawall** Miami-Dade County, Florida	Project Location Map	
		Drawn by: AL	Date: 6/7/12



State of Florida Department of Environmental Protection Division of Recreation and Parks Bureau of Design and Construction Tallahassee, Florida	**Bill Baggs Cape Florida State Park** **No Name Harbor Seawall** Miami-Dade County, Florida	Project Location Map Drawn by: KS Date: 7/16/12

ATTACHMENT D-2

COOPERATIVE ASSISTANCE PROGRAM
PROJECT APPLICATION 2016
APPLICANT INFORMATION – PROJECT SUMMARY

APPLICANT INFORMATION			
Applicant:	Department of Environmental Protection		
Department:	Office of Sustainable Initiatives		
Project Title:	Florida Clean Vessel Act Program		
Project Director:	Brenda Leonard	**Title:**	Program Administrator
Project Liaison: *(if different from Project Director)*	Brenda Leonard	**Title:**	Program Administrator
Mailing Address:	3900 Commonwealth Blvd MS 30		
City:	Tallahassee	**Zip Code:**	32399
Email Address:	Brenda.Leonard@dep.state.fl.us	**Phone #:**	850-245-2847
Project Address:	FIND counties		

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

SIGNATURE: Brenda Leonard **DATE:** 3-29-16

PROJECT SUMMARY (Please summarize project in space provided below in 2 paragraphs or less.)

This proposal for $300,000 is to fund the construction and installation of approximately 20 pumpout or dump station facilities at marinas and boatyards over the next two years. This application will continue the DEP's partnership project with Florida Inland Navigation District (FIND) to fund pumpout projects for marinas located in the District. There have been hundreds of pumpouts installed in FIND but many more are needed to service their resident and visiting boaters.

The Clean Vessel Act Program provides grants for the installation of new pumpout facilities for the proper handling and disposal of sewage generated by boaters. Since 1994, grant funded pumpout stations in the District have collected millions of gallons of waste that may have otherwise been discharged into the Intracoastal Waterway. Projects are funded through an established grant application and review process and are reimbursed in accordance with program and state fiscal policies.

Form No. 90-12
New 12-17-90, Rev-7-30-02

ATTACHMENT D-3 - PROJECT INFORMATION 2016

Applicant:	Department of Environmental Protectio	Project Title:	Florida Clean Vessel Act Program		
Total Project Cost: $	600,000	FIND Funding Requested: $	300,000	% of Total Cost:	50%
Amount and Source of Applicant's Matching Funds:	$300,000 in matching funds will be provided through Federal Clean Vessel Act grants and from marina participants.				

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

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

3. Once completed, will this project be insured against damage? Explain

Yes. Before entering into agreement marinas must provide proof of liability insurance and maintain insurance throughc

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

5. If yes, please list:

The District has provided funding for the Clean Vessel Act Program in 2001, 2003, 2006, 2009, 2012, and 2015.

6. 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

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

0

8. Are fees charged for the use of this project? No ■ Yes ☐

9. 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 D-4

COOPERATIVE ASSISTANCE PROGRAM

APPLICATION EVALUATION AND RATING WORKSHEET 2016

STEP 1: All applicants will complete Attachment D-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** (D-4A, 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.

Project Title:	Florida Clean Vessel Act Program
Applicant:	Department of Environmental Protection

1) PRIORITY LIST:

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

#8 Acquisition public boat facilities

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

Construction of pumpout facilities at marinas and boat ramps throughout the District consistent with the grant requirements of the Federal Clean Vessel Act of 1992.

(For reviewer only) Max. Available Score __47____

Range of Score (0 to _5__ points)

2) WATERWAY RELATIONSHIP:

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

The discharge of untreated sewage by boaters is prohibited under Federal law in all areas within the navigable waters of the United States and is an existing problem associated with the ICW. Additional pumpout facilities will result in increased water quality.

b) How does the project benefit public navigation or access to the ICW or adjoining waterways?

Boaters will use pumpouts when they are available and convenient. Additional pumpout stations will improve boater congestion issues around marinas caused by boaters trying to access existing pumpout stations. Pumpout vessels make it possible for pumpouts to occur without the boater needing to navigate into the marinas.

(For reviewer only)
(0-6 points)

3) PUBLIC USAGE & BENEFITS:

a) How is the public usage of this project clearly identified and quantified?

Based on reporting by the marinas currently operating pumpouts located in the District approximately 600,000 gallons of sewage is collected yearly from recreational vessels using the CVA Program funded pumpouts.

b) Discuss the regional and local public benefits and access that will be provided by the project.

There are currently an inadequate number of pumpout stations, pumpout vessels, and dump stations for boaters to safely and efficiently dispose of their sewage. Providing sufficient pumpout facilities for boaters to use is the first step in establishing their use.

c) Estimate the amount of total public use.

There are nearly 900,000 registered vessels in Florida and approximately 400,000 visiting vessels each year with at least one half of these boaters estimated to use the ICW within the District.

d) Can residents from other counties of the District reasonably access and use the project? Explain.

Yes, the pumpout facilities funded with public funds are available to everyone on a first come first served basis.

(For reviewer only)
(0-8 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 D-6*.

The Department of Environmental Protection has been administering the Clean Vessel Act grant program since 1994 and has funded over 475 projects statewide. The individual pumpout projects under the umbrella of this proposal will have separate time lines associated with their projects but will be scheduled for completion before the end date of this grant.

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

An active hurricane season may have an adverse impact on the completion of individual projects. However, damages sustained to facilities as a result of hurricanes may provide the opportunity for additional applicants as marinas work to rebuild their infrastructure.

(For reviewer only)
(0-3 points)

5) COSTS & EFFICIENCY:

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

Each grant award in the FIND will be funded through FIND, U.S. Fish and Wildlife Service and the participating marina.

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

Costs of pumpout equipment and installation may be subject to nominal increases consistent with the local construction market and fuel prices to ship pumpout equipment.

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

Applicants are required to provide competitive quotes or bids for construction, equipment and installation over $2,500. This process ensures the best installation for the least cost.

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 five (5) years following project completion, grantees may charge up to $5.00 per pumpout.

(For reviewer only)
(0-6 points)

6) PROJECT VIABILITY:

a) Does the project fill a specific need in the community, or is it consistent with an existing maritime management plan?

Communities need clean water for health, recreation and employment. Proper collection and disposal of boater sewage will eliminate exposure to pathogens in the waterways. Clean waterways reduce health risks for waterway communities and are more enticing to boaters and businesses therefore increasing the economic state of the individual communities of Florida.

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

Grantees have a five-year commitment for reporting pumpout activity after installation under the grant agreement terms with the U.S. Fish and Wildlife Service and the Department. Based on program history, many projects installed over five years ago are still in service and continue to report activity even though the grant agreement period and requirements have been met.

c) Will the program result in significant and lasting benefits? Please describe any environmental benefits associated with this project.

Florida's Marine Industry is a multi-billion dollar industry with the counties in the District experiencing the benefit of that economic impact. This industry is fueled in large part by recreational boaters that make up one of the cornerstones of Florida's tourism industry as people come to Florida to enjoy sun and clean water for swimming or cruising. If the waters are not clean, boaters and tourism may go elsewhere.

(For reviewer only)
(0-7 points)

SUB-TOTAL _____

FIND FORM NO. 00-25
(Effective Date: 3-21-01, Revised 4-24-06)

ATTACHMENT D-4A

COOPERATIVE ASSISTANCE PROGRAM

APPLICATION EVALUATION AND RATING WORKSHEET

DEVELOPMENT & CONSTRUCTION PROJECTS

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.**

Permits are required for marina construction. Any needed permits are checked and the marina is advised. Stationary pumpout installations typically require permits for electricity, plumbing and sewer connections. In some cases permits from local governments are needed. A permit from the Dept of Health is required if collection is piped to a holding tank. No reimbursement is made without the documentation of any needed permits.

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.**

Acquisition of applicable permits are the responsibility of individual grantees (marina owners and operators). Grantees are encouraged to pursue permits before or as soon as they apply.

(For reviewer only)
(0-4 points)

---

8) PROJECT DESIGN:

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

Project design varies with each individual marina facility seeking a pumpout installation. Pumpouts can be mobile either on a dock or on water with pumpout boats. Stationary units are typically located near fuel docks to allow marina staff to perform pumpouts as well as fueling.

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

Clean Vessel Act Program gives weight to those projects that are pumpout vessels which takes the service to the boater. This is especially effective for those areas with mooring fields or for servicing visiting vessels in the waterway.

(For reviewer only)
(0-2 points)

9) CONSTRUCTION TECHNIQUES:

a) Briefly explain the construction techniques to be utilized for this project.

Typically, pumps are purchased from established vendors and installed in an upland area connected via piping to dockside connections near fueling areas and some are installed on the dock with piping and wiring secured under the dock accompanied with flexible hosing to accommodate movement of floating docks. Upland construction is generally done through excavation and backfilling.

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

Existing facility design determines the construction techniques for each pumpout installation. Care is exercised to avoid disturbing natural areas and any surrounding wetlands and to make the project as visibly appealing as possible to the public. Some marina operators have one hookup available at the fuel dock for transient or visiting vessels to use while taking on fuel or supplies and have installed additional connections to reach all boats in their leased slips.

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

More and more installations are going mobile with the purchase of pumpout vessels, which are constructed specifically for this purpose with large holding tanks to service a large number of recreational boats. The vessels are convenient for the boater. Pumpout vessels then discharge their load at facilities with pumpout installations.

(For reviewer only)
(0-3 points)

10) CONSTRUCTION MATERIALS:

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

Materials used for pumpout projects are PVC piping, lift stations, electric lines, pumps and concrete structures for support or containment. Most pump manufacturers supply a limited warranty and many are still in operation that were funded over 10 years ago. The U.S. Fish and Wildlife Service determined that the life cycle of pumpout facilities exceeds 5 years.

b) **Describe any recyclable material to be utilized. How does the recyclable material (if any) compare to other available material?**

N/A

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

N/A

(For reviewer only)
(0-3 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 0 points. A score of 35 points or more is required to be considered for funding.)

Form No. 00-25A
(Effective Date: 3-21-01, revised 4-24-06)

ATTACHMENT D-5

FLORIDA INLAND NAVIGATION DISTRICT
ASSISTANCE PROGRAM 2016

PROJECT COST ESTIMATE
(See Rule Section 66B-1.005 & 1.008 for eligibility and funding ratios)

Project Title:	Florida Clean Vessel Act Program
Applicant:	Department of Environmental Protection

Project Elements *(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)*	**Quantity or Total Estimated Cost** (Number and/or Footage etc.)	**Applicant's Cost**	**FIND Cost**
Pumpout projects (20)	(20) 600,000	$300,000	$300,000

****TOTALS =**	$ 600,000	$ 300,000	$ 300,000

Form No. 90-25 (New 10/14/92, Revised 04-24-06)

ATTACHMENT D-6

COOPERATIVE ASSISTANCE PROGRAM 2016

PROJECT TIMELINE

Project Title:	Florida Clean Vessel Act Program
Applicant:	Department of Environmental Protection

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 1st
(or be consistent with Rule 66B-1.005(3) - Pre-agreement expenses)

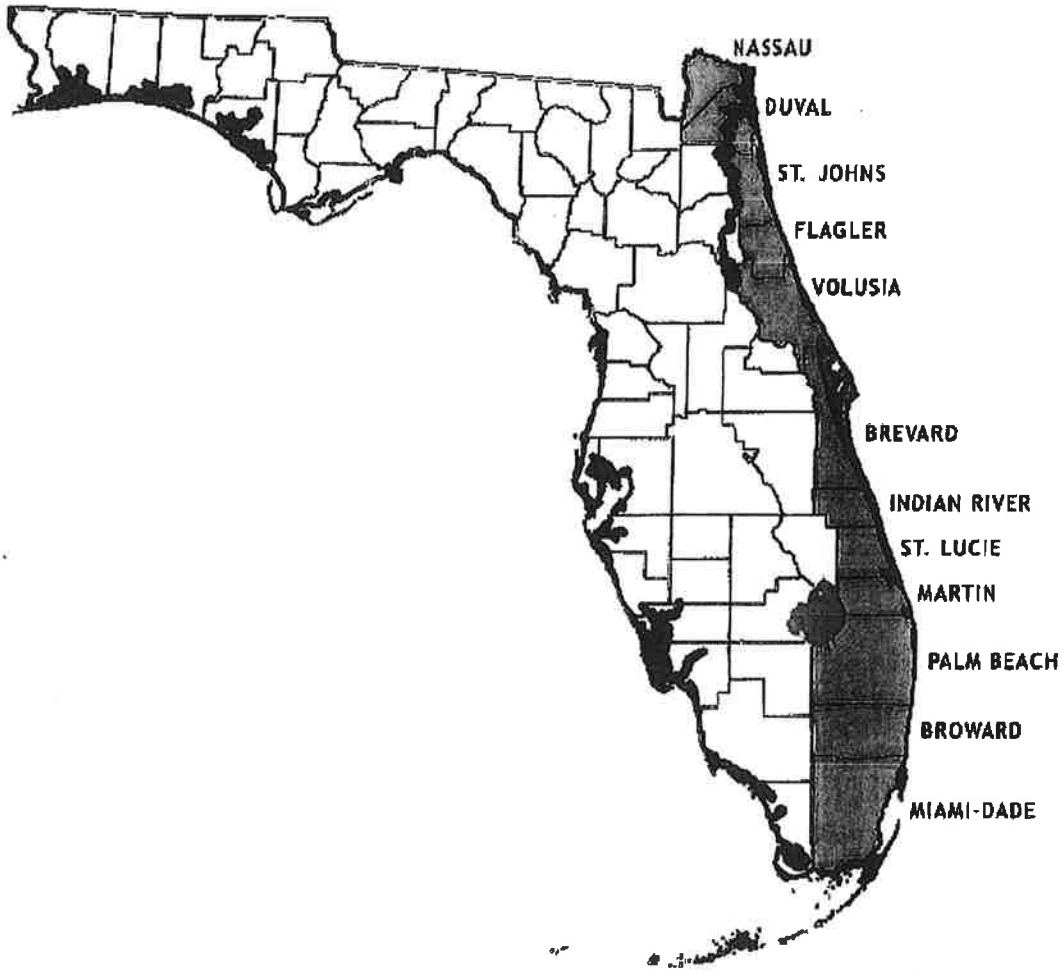
October 2016	Clean Vessel FIND Agreement executed
October 2016	Clean Vessel USFWS Agreement executed
October 2016 - June 2018	Project applications from marina facilities in FIND are accepted and processed for grant awards.
September 2018	Project complete

Florida Inland Navigation District

A Special State Taxing District
for the continued management & maintenance
of the Atlantic Intracoastal Waterway

Counties Pages

Click on the county of choice to view regulations, programs and studies.



1314 Marcinski Road Jupiter, Florida 33477-9498 Phone: 561 627 3386 Fax 561.624 6480

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ATTACHMENT D-2

COOPERATIVE ASSISTANCE PROGRAM
PROJECT APPLICATION 2016
APPLICANT INFORMATION – PROJECT SUMMARY

APPLICANT INFORMATION			
Applicant:	Florida Department of Environmental Protection		
Department:	Florida Park Service		
Project Title:	Hugh Taylor Birch State Park Intracoastal Improvement Project		
Project Director:	David Dearth	**Title:**	Park Manager
Project Liaison: *(if different from Project Director)*	Mary Jean White mjwhite@birchstatepark.org	**Title:**	Grants Manager, Friends of Birch State Park
Mailing Address:	3109 East Sunrise Boulevard		
City:	Fort Lauderdale	**Zip Code:**	33304
Email Address:	David.Dearth@dep.state.fl.us; mjwhite@birchstatepark.org	**Phone #:**	(954) 468-2791 Liaison (954) 501-1029
Project Address:	3109 East Sunrise Boulevard, Fort Lauderdale, FL 33304		

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

SIGNATURE: _____ **DATE:** 3/31/2016

PROJECT SUMMARY (Please summarize project in space provided below in 2 paragraphs or less.)

The Hugh Taylor Birch Intracoastal Improvement Project, including the Birch Boat Dock Project- Phase 2, includes construction of the Floating Intracoastal Boat Dock. Planning, survey, and permitting of the dock has been supported through previous F.I.N.D. and Broward Boating Improvement Program application cycles, and through recently approved B.B.I.P. and State of Florida Recreational Trails Program grants for construction. Phase 2 of the project consists of the boat dock construction on the Intracoastal Waterway adjacent to Hugh Taylor Birch State Park as part of a multi-million dollar intracoastal improvement effort, which includes $2.8 million dollars in improvements to the Park's seawall, and construction of a trail/walkway that will run adjacent to the Intracoastal along the seawall and lead to other park features and amenities. These improvements will provide users of the Intracoastal by private boat, as well as services such as the Water Taxi, with an enhanced waterway experience. The project also includes educational elements, such as outdoor educational displays along the planned trail/walkway, upgrades to the Terramar Visitor Center that will include environmental education exhibits, and upgrades to the Education Center. These facilities will accommodate field trips from area public and private schools, adult educational opportunities not currently available to connect the public to the history and importance of the Intracoastal Waterway to Broward County's past as well as its future.

Form No. 90-12
New 12-17-90, Rev-7-30-02

ATTACHMENT D-3 - PROJECT INFORMATION 2016

Applicant:	Florida DEP, Florida Park Service	**Project Title:**	Hugh Taylor Birch State Park Intracoastal Improvement Project		
Total Project Cost: $	$5,192,600	**FIND Funding Requested: $**	$2,500,000	**% of Total Cost:**	48%
Amount and Source of Applicant's Matching Funds:	Broward Boating Improvement Program - $500,000, State Appropriation for Seawall - $2,000,000, State of Florida Recreational Trails Program - $192,600 Total Matching Funds - $2,692,600				

1. **Ownership of Project Site (check one):** Own: ☐ Leased: X Other: ☐
2. **If leased or other, please describe lease or terms and conditions:**
   99-year lease – please see attached Attorney's Certification of Title

3. **Once completed, will this project be insured against damage?**
   Yes, the State of Florida is self-insured
4. **Has the District previously provided assistance funding to this project or site?** Yes: X No: ☐
5. **If yes, please list:**
   The District has provided $75,000 for planning and permitting of the Hugh Taylor Birch Floating Boat Dock Project – Phase 1

6. **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):
Hugh Taylor Birch State Park is open to the public. There are no boating facilities currently available.

7. **How many additional ramps, slips, parking spaces or other access features will be added by this project?**
The Project will provide boating facilities where none exist, along with trails, educational facilities and additional seawall access and protection.

8. **Are fees charged for the use of this project?** No ☐ Yes ☐
9. **If yes, please attach additional documentation of fees and how they compare with fees from similar public & private facilities in the area.**
The State Park System charges standard fees to access the park. A Fee Listing is available upon request.

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	Sept. 2015	Pending
ACOE	Yes	Sept 2015	Pending
COUNTY / CITY	Yes	Sept 2015	Pending

ATTACHMENT D-4

COOPERATIVE ASSISTANCE PROGRAM

APPLICATION EVALUATION AND RATING WORKSHEET 2016

STEP 1: All applicants will complete Attachment D-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** (D-4A, 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.

Project Title:	Hugh Taylor Birch State Park Intracoastal Improvement Project
Applicant:	Florida Department of Environmental Protection

1) PRIORITY LIST:

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

~~#8 Acquisition, dredging, shoreline stability., development of public boat ramps, launching facilities~~
#12 Public waterfront Park, boardwalks & associated improvements

b) Explain how the project fits this priority category.

Three-fifths of the total project costs are for construction of the seawall (stabilization) and Phase 2 construction of the Floating Dock.

(For reviewer only)
Max. Available Score 45
Range of Score (0 to 3 points)

2) WATERWAY RELATIONSHIP:

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

This project contributes to the F.I.N.D. mission of increased access and improvement of the Atlantic ICW by increasing safe opportunities for ICW users to use the waterway, and improving facilities and opportunities for ICW education.

b) How does the project benefit public navigation or access to the ICW or adjoining waterways?

The construction of the Floating Boat Dock will provide safe access for boaters in the ICW surrounding the park and for users passing through the ICW in Fort Lauderdale and Broward County. The construction of the seawall will protect boater facilities and enhance safety within the Park

(For reviewer only)
(0-6 points)

3) PUBLIC USAGE & BENEFITS:

a) How is the public usage of this project clearly identified and quantified?

Hugh Taylor Birch State Park had an annual attendance of 435,465 in FY 2015. This total is expected to increase as educational facilities within the park and boating facilities along the waterway are added and improved.

b) Discuss the regional and local public benefits and access that will be provided by the project.

Visitors to the park come from the local community as well as from the entire state and out-of-state tourism. The educational improvements and increase in public access to the waterway will provide additional educational and recreational opportunities.

c) Estimate the amount of total public use.

Total annual attendance for FY 2015 was 435,465. It is expected that attendance will increase by at least 15% in the first few years after project completion

d) Can residents from other counties of the District reasonably access and use the project? Explain.

Yes, the project will have full access to all residents and visitors, both from the waterway as well as land access.

(For reviewer only)
(0-8 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 D-6*.

The Floating Dock and seawall planning and design phase is nearly complete, pending issuance of required permits. The other project elements are in the conceptual/site planning stage.

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

At this time, it is not anticipated that any elements of the project will significantly impact the project timeline

(For reviewer only)
(0-3 points)

5) COSTS & EFFICIENCY:

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

The additional funding for the project is from a $2 million state allocation, and $500,000 is an anticipated award from Broward Boating Improvement Program.

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

None identified.

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

The park will use existing state contracts when possible to increase cost efficiency during procurement.

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 Park charges normal entrance fees (Fee Schedule available upon request.

(For reviewer only)
(0-6 points)

6) PROJECT VIABILITY:

a) **Does the project fill a specific need in the community, or is it consistent with an existing maritime management plan?**

This project provides access to the waterway surrounding Hugh Taylor Birch State Park, as well as the facilities within the Park, and this is access that is not currently available to users of the waterway. The educational elements of the project will allow the public to share in the rich history of the Intracoastal waterway and its link to Fort Lauderdale's past and future.

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

The project elements will be included and incorporated into the State Park's annual maintenance schedule after project completion.

c) **Will the program result in significant and lasting benefits? Please describe any environmental benefits associated with this project.**

This project will provide ongoing opportunities for users of the waterway to access the facilities within the Park, will preserve the history and legacy of the Intracoastal Waterway and educate the public in the role that the waterway has played in building and sustaining the Fort Lauderdale that we know today, as well as the waterway's connection to Hugh Taylor Birch State Park.

(For reviewer only)
(0-7 points)

SUB-TOTAL _____

FIND FORM NO. 00-25
(Effective Date: 3-21-01, Revised 4-24-06)

ATTACHMENT D-4A

COOPERATIVE ASSISTANCE PROGRAM

APPLICATION EVALUATION AND RATING WORKSHEET

DEVELOPMENT & CONSTRUCTION PROJECTS

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.

All permits have been applied for and are in process. Park Management and DEP has been proactive in providing all necessary documentation to permitting authorities, and is maintaining open and regular contact to facilitate the process.

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.

None identified

(For reviewer only)
(0-4 points)

---

8) PROJECT DESIGN:

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

Designs for the seawall and the boat dock have been completed and submitted to permitting agencies. All other elements are in the preliminary design/planning stages.

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

The project design principles incorporated will decrease maintenance costs and minimize impacts to the environment, as well as add features (such as the Floating Dock) that will increase boater traffic in the area and provide visitors with an enhanced ICW experience.

(For reviewer only)
(0-2 points)

9) CONSTRUCTION TECHNIQUES:

a) Briefly explain the construction techniques to be utilized for this project.

The project will use standard construction techniques for all project elements. Due to the number of project elements, the project will incorporate contractors and construction techniques from many different trades and specialties.

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

The project involves construction both to buildings and the waterway elements. Techniques used will be appropriate for each phase and element of the project, and the state will procure contractors qualified and appropriate for each project line item.

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

None identified. DEP will use existing state contracts when available to decrease costs.

(For reviewer only)
(0-3 points)

10) CONSTRUCTION MATERIALS:

a) List the materials to be utilized for this project. What is the design life of the proposed materials?

Construction materials for project line items will use standard construction materials appropriate for each project element. The design life of the various project elements will range from 30-50 years.

b) Describe any recyclable material to be utilized. How does the recyclable material (if any) compare to other available material?

None identified at this time.

c) Identify any unique construction materials that may significantly alter the project costs.

None identified at this time.

(For reviewer only)
(0-3 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 0 points. A score of 35 points or more is required to be considered for funding.)

Form No. 00-25A
(Effective Date: 3-21-01, revised 4-24-06)

ATTACHMENT D-5

FLORIDA INLAND NAVIGATION DISTRICT
ASSISTANCE PROGRAM 2015

PROJECT COST ESTIMATE
(See Rule Section 66B-1.005 & 1.008 for eligibility and funding ratios)

PROJECT TITLE: The Hugh Taylor Birch State Park Intracoastal Improvement Project
APPLICANT: Florida Department of Environmental Protection

Project Elements *(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)*	**Quantity Estimated Cost (Number and/or Footage)**	**Applicant's Cost**	**FIND Cost**
Construction of seawall and support system, including fill dirt for seawall stabilization and flood control	$2,800,000.00	$2,000,000.00	$800,000.00
Construction of 230' Floating Boat Dock and facility within the Intracoastal Waterway	$1,000,000.00	$500,000.00	$500,000.00
Trail/Walkway from park entrances leading to the seawall and to other Park amenities for walkers, bikers and other recreation	$400,000.00	$190,000.00	$210,000.00
Outdoor educational displays along the Intracoastal Trail/Walkway	$102,600.00	$ 2,600.00	$100,000.00
Upgrade of Terramar Visitor's Center to current code and construction of Environmental Education Exhibits focused on the Intracoastal Waterway	$500,000.00		$500,000.00
Upgrade of the Education Center facility to current code for Intracoastal Education programs and classes	$390,000.00		$390,000.00
**** TOTALS**	**$5,192,600**	**$2,692,600**	**$2,500,000**

ATTACHMENT D-6

COOPERATIVE ASSISTANCE PROGRAM 2016

PROJECT TIMELINE

Project Title:	Hugh Taylor Birch State Park Intracoastal Improvement Project
Applicant:	Florida Department of Environmental Protection

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 1st
(or be consistent with Rule 66B-1.005(3) - Pre-agreement expenses)

Construction of seawall - Construction to commence on or after October 1, 2016 and will be completed by September 30, 2018

Construction of 230' Floating Boat Dock - Construction to commence on or after October 1, 2016 - completed by September 30, 2018

Trail/Walkway along the seawall - Construction to commence on or after October 1, 2016 - completed by June 30, 2018

Outdoor educational displays along the Intracoastal Trail/Walkway - Construction to commence on or after October 1, 2016 - completed by June 30, 2018

Upgrade of Terramar Visitor Center to current code - Construction to commence on or after October 1, 2016 - completed by June 30, 2018

Upgrade of the Education Center facility to current code - Construction to commence on or after October 1, 2016 - completed by June 30, 2018

Edit Browse


Florida › Broward County › Fort Lauderdale › Barrier Island
Satellite
Photos
Wilton Manors
NE 26th St
NE 24th St
NW 3rd Ave
N Andrews Ave
NE 15th Ave
NE 16th Ave
NE 15th Ave
NE 17th Ave
NE 18th Ave
NE 13th St
NW 1st Ave
NE 1st Ave
NE 3rd Ave
811
838
1
A1A
Middle River Dr
Bayview Dr
NE 26th Ave
Intracoastal Dr
Hugh Taylor Birch State Park
The Galleria at Fort Lauderdale
Holiday Park
NE 14th Ave
NE 12th Ave
NE 10th Ave
NE 9th Ave
NE 7th Ave
NW 4th St
Bayshore Dr
Hilton Fort Lauderdale Beach Resort
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FRIENDS OF BIRCH STATE PARK PROJECTS



1. Construction of seawall, including fill dirt for seawall stabilization and flood control, and capping
2. Construction of 230' Floating Dock and facility within the Intracoastal Waterway
3. Trail/Walkway along the seawall leading to other Park amenities for walkers, bikers and other recreation
4. Outdoor educational displays along the Intracoastal Trail/Walkway
5. Upgrade of Terramar Visitors Center to current code, including necessary ADA improvements, and construction of Environmental Education Exhibits focused on the Intracoastal Waterway
6. Upgrade of the Education Center facility to current code, including necessary ADA improvements for Intracoastal Educational programs and classes.

ATTACHMENT D-2

COOPERATIVE ASSISTANCE PROGRAM
PROJECT APPLICATION 2016
APPLICANT INFORMATION – PROJECT SUMMARY

APPLICANT INFORMATION			
Applicant:	St. Johns River Water Management District		
Department:	Division of Water and Land Resources		
Project Title:	Eau Gallie Dredging Phase 2B - Dredging		
Project Director:	William Tredik	**Title:**	IRL Protection Initiative Leader
Project Liaison: *(if different from Project Director)*	N/A	**Title:**	N/A
Mailing Address:	St. Johns River Water Management District		
City:	P.O. Box 1429, Palatka FL	**Zip Code:**	32178
Email Address:	wtredik@sjrwmd.com	**Phone #:**	(386) 329-4433
Project Address:	City of Melbourne, Brevard County Florida		

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

SIGNATURE: William J Tredik **DATE:** 5/20/2016

PROJECT SUMMARY (Please summarize project in space provided below in 2 paragraphs or less.)

The Eau Gallie River is a tributary of the Indian River Lagoon (IRL) located in Brevard County within the City of Melbourne. The Eau Gallie River dredging is a multi-year project, that includes the dredging, dewatering and disposal of muck sediments from the Eau Gallie River and its south prong, Elbow Creek. Phase 1 of the project (design, permitting and bidding) of the project is complete, and construction of the dredge material management area (DMMA) and road crossings (Phase 2A) is underway. Dredging (Phase 2B) is scheduled to commence in October 2016.

Phase 2B - Dredging includes mobilization, pipeline installation, booster pump installation, construction observation, environmental monitoring and protections, dredging, dewatering of dredged sediments, DMMA operation, handling and offloading of dewatered dredged sediments, transportation and placement of dewatered sediments on the permanent spoil disposal site, restoration, and all other related work required to dredge approximately 625,000 cubic yards of muck sediments from the Eau Gallie River (~1.5 miles) and Elbow Creek (~0.6 miles).

Form No. 90-12
New 12-17-90, Rev-7-30-02

ATTACHMENT D-3 - PROJECT INFORMATION 2016

Applicant:	St. Johns River Water Management Dis	**Project Title:**	Eau Gallie Dredging Phase 2B - Dredging		
Total Project Cost: $	$14,600,000	**FIND Funding Requested: $**	$1,500,000	**% of Total Cost:**	10.3%
Amount and Source of Applicant's Matching Funds:	The $13,100,000 applicant match for Phase 2B is funded by FY15 and FY16 State appropriations.				

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

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

DMMA and Spoil Deposition Area are owned by Brevard County. The Water Management District and Brevard County have executed an agreement for use of these properties through December 2018.

3. Once completed, will this project be insured against damage? Explain

No. This is an in-water sediment removal project and not applicable for insurance purposes.

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

5. If yes, please list:
SJR-12-77 Eau Gallie River Muck Dredging Phase 1 - $150,000
SJR-14-79 Eau Gallie River Muck Dredging Phase 1B - $750,000
SJR-15-80 Eau Gallie River Muck Dredging Phase 2A - $1,500,000

6. 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):

Ballard Park is located at the confluence of the Eau Gallie River and the Indian River Lagoon, with one public boat ramp, 40 trailor spaces and over 60 parking spaces. Two marinas are in the project area with a total of 160 boat slips.

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

N/A

8. Are fees charged for the use of this project? No ■ Yes ☐

9. 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	Yes	05/15/2015	09/09/2015
ACOE	Yes	DMMA JD 07/01/2015 Dredging 05/19/2015	DMMA JD 08/27/2015 Dredging 04/26/2016
COUNTY / CITY			

Form No. 90-12a (New 10-14-92, Rev. 04-24-06, 4-15-07)

ATTACHMENT D-4

COOPERATIVE ASSISTANCE PROGRAM

APPLICATION EVALUATION AND RATING WORKSHEET 2016

STEP 1: All applicants will complete Attachment D-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** (D-4A, 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.

Project Title:	Eau Gallie Dredging Phase 2B - Dredging
Applicant:	St. Johns River Water Management District

1) PRIORITY LIST:

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

Priority 1. Public navigation channel dredging

b) Explain how the project fits this priority category.

Removal of accumulated muck sediments from within the navigable portions of the Eau Gallie downstream of the dam and Elbow Creek from Laurie St. & Magnolia St. bridges.

(For reviewer only) Max. Available Score __50___
Range of Score (0 to _8__ points)

2) WATERWAY RELATIONSHIP:

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

The Eau Gallie is a tributary to the IRL that has over 625,000 c.y. of accumulated muck sediments. These deposits impact the navigability, natural resources and water quality of the Eau Gallie and IRL and contribute to shoaling in the AICW.

b) How does the project benefit public navigation or access to the ICW or adjoining waterways?

The project will improve safety and public navigation within the Eau Gallie River, will reduce the transport of sediments into the AICW and IRL during high-flow storm events, and will improve water quality and habitat for the enjoyment of boaters, residents and visitors to the area.

(For reviewer only)
(0-6 points)

3) PUBLIC USAGE & BENEFITS:

a) How is the public usage of this project clearly identified and quantified?

Ballard Park includes a public boat ramp with adequate trailer parking and serves as on of two major public access points to the IRL and AICW in the City of Melbourne. Two commercial marinas, two boat sales and service companies, numerous private homes.

b) Discuss the regional and local public benefits and access that will be provided by the project.

Navigation/environmental enhancements for pleasure and transient boaters, improved water quality, reduced shoaling in the AICW, improved benthic habitat and sea grasses.

c) Estimate the amount of total public use.

Specific public use numbers are not available. The Eau Gallie is a popular boating destination with open access to and from the IRL and AICW. Ballard Park ramp is heavily used on weekends, and the commercial marinas are frequently at capacity.

d) Can residents from other counties of the District reasonably access and use the project? Explain.

Yes. The Ballard Park ramp is accessible to the public for no fee with plenty of parking on site. Spaces are available to transient boaters in the commercial marinas.

(For reviewer only)
(0-8 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 D-6*.

Feasibility Study was completed in 2013. The project is identified as a priority project in the SJRWMD Strategic Plan. The State appropriated a total of $20 million over two years for the project. Design is complete and construction of the DMMA is underway. Dredging in anticipated to begin in October 2016 and be complete in mid 2018.

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

The agreement with Brevard County to use the DMMA site currently extends through December 2018. Mandated manatee closure windows and additional dredging may necessitate an extension to the agreement with Brevard County.

(For reviewer only)
(0-3 points)

5) COSTS & EFFICIENCY:

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

Melbourne paid $50,000 and SJRWMD paid $100,000 for the Feasibility Study.
The State of Florida appropriated $10 million in FY2015 and $10 million in FY2016 for the project.

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

No anticipated cost increases due to materials utilized. Potential site conditions may include manatee closure windows extending the dredging schedule.

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

Dewatering will be done on the Brevard County owned DMMA site adjacent to the Sarno Road Landfill. Dewatered material will be offloaded to the adjacent Sarno Road landfill, substantially reducing transport cost and avoiding the use of local roadways.

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.

Brevard County and St. Johns River Water Management District have agreed to a nominal fee of $28 per acre per year for the use of properties for the DMMA and Spoil Deposition Areas. Initial estimate of the impacted acreage is 89.4 acres, resulting in an annual fee of approximately $2,5000.

(For reviewer only)
(0-6 points)

6) PROJECT VIABILITY:

a) Does the project fill a specific need in the community, or is it consistent with an existing maritime management plan?

Long-term need to remove decades of accumulated muck sediments. The project is consistent with the IRL SWIM Plan (2002), the IRL CCMP (2008), and the Brevard County Comprehensive Maritime Management Master Plan

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

Removal of accumulated muck sediments will restore the capacity of this tributary to capture future sediments and limit their movement into the IRL and AICW. The City of Melbourne continues to construct upstream stormwater management and sediment reduction projects to reduce loadings to the Eau Gallie River.

c) Will the program result in significant and lasting benefits? Please describe any environmental benefits associated with this project.

Yes - Benefits include improved water quality and benthic habitat within the Eau Gallie and IRL, improved dissolved oxygen levels, enhanced fisheries habitat, protection and enhancement of submerged aquatic vegetation (seagrass), limiting muck flux and re-suspension of muck generated nutrients, reducing harmful algal bloom occurrences. The project will help meet TMDLs in the IRL. Shoaling rates from the 2013 Feasibility Study estimate that it will take at least 40 years for the dredged volume to re-accrete.

(For reviewer only)
(0-7 points)

SUB-TOTAL _____

FIND FORM NO. 00-25
(Effective Date: 3-21-01, Revised 4-24-06)

ATTACHMENT D-4A

COOPERATIVE ASSISTANCE PROGRAM

APPLICATION EVALUATION AND RATING WORKSHEET

DEVELOPMENT & CONSTRUCTION PROJECTS

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 - All permits have been obtained.

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.

Restrictions may be imposed during the permitting process limiting dredging operations to seasons when manatees are less likely to be present.

(For reviewer only)
(0-4 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 is complete. The project has been bid, and a construction contract has been awarded.

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

Public usage and access will be enhanced by the removal of accumulated sediments. Decreased environmental impacts from muck re-suspension and a nutrient flux from disturbed sediments will be reduced to improve water quality in the IRL.

(For reviewer only)
(0-2 points)

9) CONSTRUCTION TECHNIQUES:

a) Briefly explain the construction techniques to be utilized for this project.

Traditional hydraulic suction dredging will be used to remove sediments. A DMMA site will be constructed to collect the material (Phase 2A). Dewatering, rehandling, offloading and reuse options will be utilized as required.

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

A DMMA will be constructed and utilized to receive pumped muck sediments. Sediments will be deposited on the DMMA site, drained and offloaded from the site as required. An appropriate return water pipeline will be constructed. The DMMA site will be restored to its original condition upon project completion.

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

No unusual construction techniques are anticipated. The spoil Deposition Area is located on the adjacent Sarno Road Landfill, significantly reducing offloading costs, and eliminating the need to truck dewatered ma

(For reviewer only)
(0-3 points)

10) CONSTRUCTION MATERIALS:

a) List the materials to be utilized for this project. What is the design life of the proposed materials?

Material used will be standard dredging equipment. Culverts installed under roadways will be capped and preserved for future use, where permissible, and will be available for future maintenance dredging operations.

b) Describe any recyclable material to be utilized. How does the recyclable material (if any) compare to other available material?

N/A

c) Identify any unique construction materials that may significantly alter the project costs.

N/A

(For reviewer only)
(0-3 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 0 points. A score of 35 points or more is required to be considered for funding.)

Form No. 00-25A
(Effective Date: 3-21-01, revised 4-24-06)

ATTACHMENT D-4D

COOPERATIVE ASSISTANCE PROGRAM

APPLICATION EVALUATION AND RATING WORKSHEET

INLET MANAGEMENT and PUBLIC NAVIGATION PROJECTS

THIS ATTACHMENT IS TO BE COMPLETED IF YOUR PROJECT IS AN INLET MANAGEMENT or PUBLIC NAVIGATION PROJECT

---

7) WATERWAY RELATIONSHIP:

a) How does the project directly benefit the Atlantic Intracoastal Waterway (AICW)?

Dredging muck sediments from the Eau Gallie will prevent the transport of this material into the AICW during high flow storm events, restoring the natural sediment trapping sump in the Eau Gallie, and reducing the frequency for dredging of the adjacent AICW segment.

b) Briefly discuss any methods or activities that will address long-term sedimentation problems.

The City of Melbourne continues to construct capital stormwater treatment projects in the basin to limit future sedimentation and treat stormwater including total suspended solids before discharge to the Eau Gallie.

c) Will the project inhibit sediment inflow into, or reduce the dredging frequency of the AICW?

Yes, removal of accumulated sediments will prevent transport into the AICW, restore the sediment trapping capacity of the Eau Gallie River, and thereby reduce the dredging frequency of the adjacent AICW segment.

(For reviewer only)
(0-5 points)

---

8) PUBLIC ACCESS:

a) Will the project enhance public access to or from the waterways? Describe in brief detail.

Ballard Park is located at the confluence of Eau Gallie and IRL. Removal of muck will enhance boating access, increase bottom depth, channel configuration and ease of access for waterfront home owners, transient boaters and trailered boats launching from Ballard Park.

b) List the publicly accessable facilities upstream with improved access as a result of this project.

Ballard Park is located at the confluence of Eau Gallie and IRL. Boat access at this site will be enhanced as a result of the dredging.

(For reviewer only)
(0-3 points)

---

9) BENEFICIAL PROJECT ELEMENTS:

a) Are there additional economic benefits to be realized by implementing this project?

Yes. Two marinas, boat servicing businesses and a waterfront restaurant on the Eau Gallie will benefit directly from increased customer waterway access. Waterfront home owners property values will be enhanced by improving their direct access to the AICW. This may strengthen the local real estate market by increasing the desirability of the waterfront properties and reducing the time that properties sit on the market. The dredging may also create additional home owner requests for construction of new, or repair of existing, boat and fishing docks, piers, boat lifts and other waterfront amenities creating additional construction jobs and business for dock builders.

b) Briefly spell out any water quality, environmental or habitat benefits to be realized by this project.

The project will improve water quality within the Eau Gallie River, Elbow Creek and Indian River Lagoon by reducing sediment/nutrient re-suspension from boat wakes, storm flows, wind and waves. It will provide a benefit to seagrass beds adjacent to the Eau Gallie, reducing the volume of resuspended muck sediments flowing into the IRL, thus improving water clarity and increasing seagrass photosynthesis. It will enhance wildlife access for dolphin, manatee, wading birds and fish and provide improved fish nursery habitat. The project may also provide TMDL pollutant loading benefits, by removing legacy nutrients contained within the muck which continually flux into the water column.

(For reviewer only)
(0-2 points)

---

10) PROJECT FUNDING:

a) When was this area last dredged? What is the expected frequency of future dredging?

The date of previous dredging is uncertain. Once the muck is removed from the Eau Gallie River, additional large scale dredging efforts are not anticipated to be needed for the tributary for over 40 years.

b) Explain the funding mechanism for the long-term maintenance of the project.

Once the muck is removed from the Eau Gallie River, additional large scale dredging efforts are not anticipated to be needed for over 40 years due, to improved stormwater and sediment/erosion control practices adopted since the 1990s to limit pollution and construction runoff, therefore no funding mechanism for long term maintenance has been identified at this time.

c) Describe the long-range dredge material management plans.

St. Johns River Water Management District has entered into a Intergovernmental Agreement (IGA) with Brevard County for use of the DMMA site through December 2018. Material will be dewatered at the DMMA and moved to the the adjacent Sarno Road Landfill property (also owned by Brevard County) for permanent placement.

(For reviewer only)
(0-2 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 0 points. A score of 35 points or more is required to be considered for funding.)

ATTACHMENT D-5

FLORIDA INLAND NAVIGATION DISTRICT
ASSISTANCE PROGRAM 2016

PROJECT COST ESTIMATE
(See Rule Section 66B-1.005 & 1.008 for eligibility and funding ratios)

Project Title:	Eau Gallie Dredging Phase 2B - Dredging
Applicant:	St. Johns River Water Management District

Project Elements *(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)*	**Quantity or Total Estimated Cost** **(Number and/or Footage etc.)**	**Applicant's Cost**	**FIND Cost**
Phase 2B - Dredging	$14,600,000	$13,100,000	$1,500,000

****TOTALS =**	**$** 14,600,000	**$** 13,100,000	**$** 1,500,000

Form No. 90-25 (New 10/14/92, Revised 04-24-06)

ATTACHMENT D-6

COOPERATIVE ASSISTANCE PROGRAM 2016

PROJECT TIMELINE

Project Title:	Eau Gallie Dredging Phase 2B - Dredging
Applicant:	St. Johns River Water Management District

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 1st
(or be consistent with Rule 66B-1.005(3) - Pre-agreement expenses)

Permitting (Phase 1B) ..... Complete

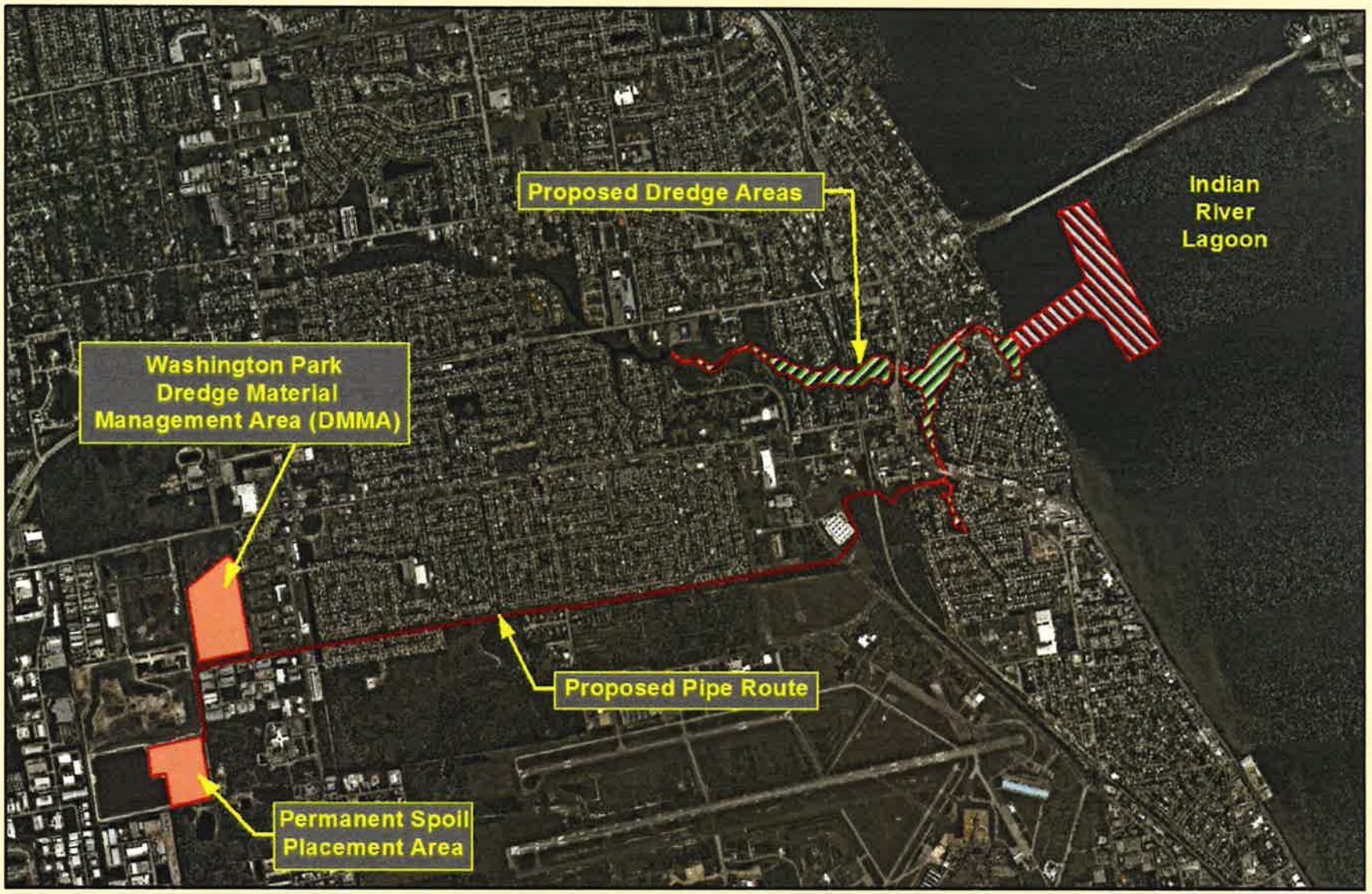
Final Design (Phase 1B) ..... Complete

Bidding (Phase 1B) ..... Complete

DMMA Construction (Phase 2A) ..... May 2016 - September 2016

Dredging (Phase 2B) ..... October 2016 - June 2018

DMMA Restoration (Phase 2B) ..... June 2018 - December 2018



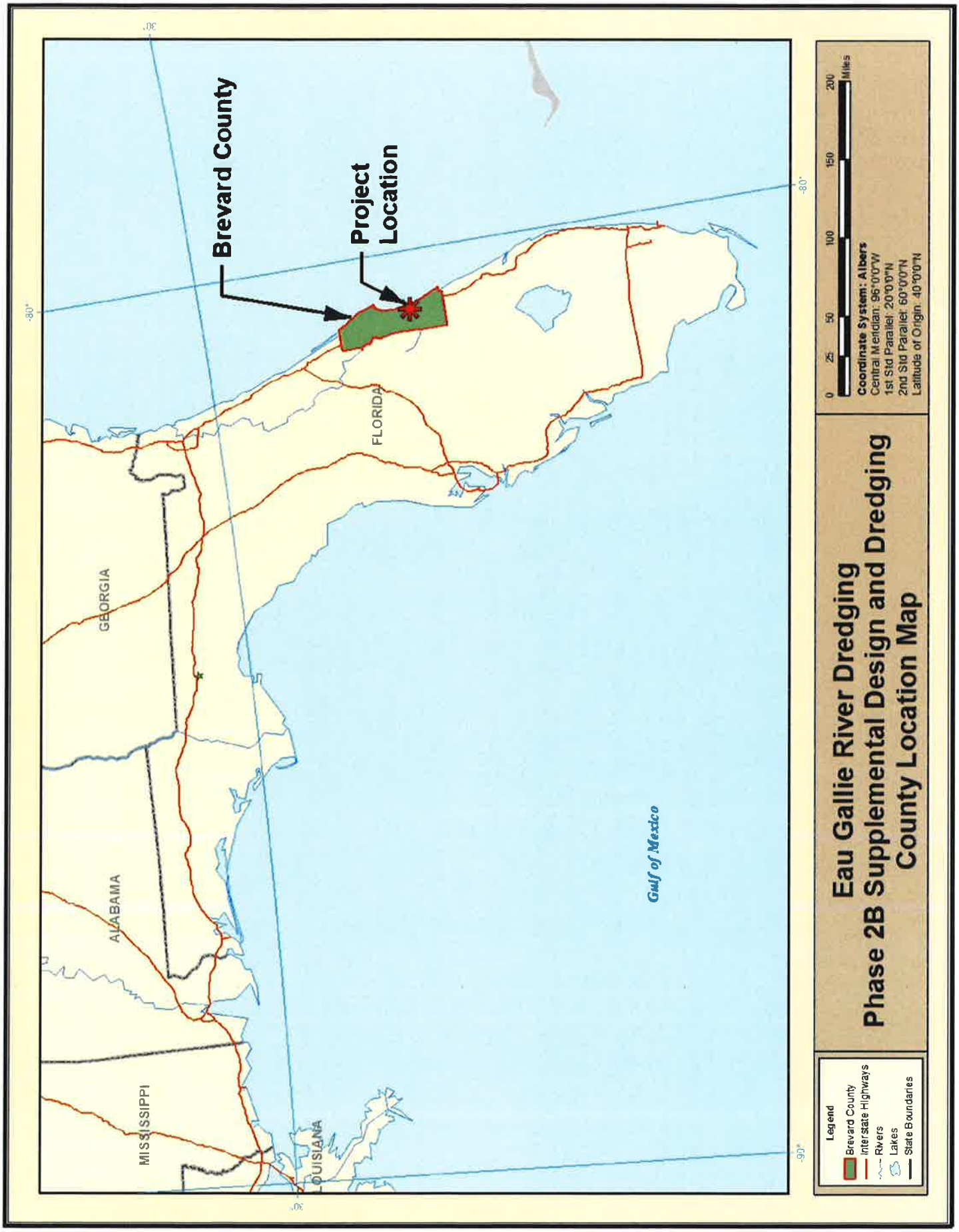
Legend

- Phase 2B Current Dredging Area
- Phase 2B Supplemental Deisgn and Dredging Area

Eau Gallie River Dredging
Phase 2B Supplemental Design and Dredging
Project Boundary Map - Overall

0 0.175 0.35 0.7 1.05 1.4 Miles

Coordinate System: Albers
Central Meridian: 96°0'0"W
1st Std Parallel: 20°0'0"N
2nd Std Parallel: 60°0'0"N
Latitude of Origin: 40°0'0"N


Brevard County
Project Location
FLORIDA
GEORGIA
ALABAMA
MISSISSIPPI
LOUISIANA
Gulf of Mexico
-80°
-90°
30°
Legend
Brevard County
Interstate Highways
Rivers
Lakes
State Boundaries
Eau Gallie River Dredging
Phase 2B Supplemental Design and Dredging
County Location Map
0 25 50 100 150 200 Miles
Coordinate System: Albers
Central Meridian: 96°0'0"W
1st Std Parallel: 20°0'0"N
2nd Std Parallel: 60°0'0"N
Latitude of Origin: 40°0'0"N

ATTACHMENT D-2

COOPERATIVE ASSISTANCE PROGRAM
PROJECT APPLICATION 2016
APPLICANT INFORMATION – PROJECT SUMMARY

APPLICANT INFORMATION			
Applicant:	U.S. Fish and Wildlife Service		
Department:	Merritt Island National Wildlife Refuge		
Project Title:	Beacon 42 Boat Ramp		
Project Director:	Steven Trull	**Title:**	Wildlife Refuge Specialist
Project Liaison: *(if different from Project Director)*	Same as above	**Title:**	Same as above
Mailing Address:	Post Office Box 2683		
City:	Titusville, Florida	**Zip Code:**	32781
Email Address:	steven_trull@fws.gov	**Phone #:**	321-861-2352
Project Address:	5 Miles East of Titusville, Florida SR 402 Titusville, Florida 32796-6504		

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

SIGNATURE: Steven Trull **DATE:** 03/28/2016

PROJECT SUMMARY (Please summarize project in space provided below in 2 paragraphs or less.)

The U.S. Fish and Wildlife Service would like to rebuild the Beacon 42 public boat ramp located on the Merritt Island National Wildlife Refuge (Refuge); an overlay of NASA's J.F. Kennedy Space Center. The current ramp which allows access to Mosquito Lagoon and to the ICW is damaged and has a steep grade. The new boat ramp will be a dual concrete ramp separated by a floating dock. The project will remain within the same footprint. The Refuge will build a new information kiosk to reduce sign pollution, provide wildlife education, fishing ethics, and conservation information. The Refuge serves 1.2 million visitors annually and the boat ramp has over 17,000 users annually.

The Refuge instituted a fee program in 2011 and currently charges a $5.00 daily fee or $15.00 annual fee for use of three boat ramps, including Beacon 42, Biolab, and Bair's Cove which will fund part of the new boat ramp. The proposed new dual boat ramp will accommodate a 21'ft long boat with minimum freeboard of 24"in. The ramp will consist of a 30'ft long reinforced concrete push slab, a 10'ft section, and a 20'ft cast in place reinforced concrete apron that will tie into the existing gravel parking area. The two boat ramps will be separated by a 6'ft wide x 40'ft long dock. Construction design and build plans have been developed. Total cost of the project is estimated at $234,000.00; we are requesting a FIND grant of $117,000.00 which is 50% of the total cost.

Form No. 90-12
New 12-17-90, Rev-7-30-02

ATTACHMENT D-3 - PROJECT INFORMATION 2016

Applicant:	U.S. Fish and Wildlife Service	**Project Title:**	Beacon 42 Boat Ramp		
Total Project Cost: $	$234,000.00	**FIND Funding Requested: $**	$117,000.00	**% of Total Cost:**	50%
Amount and Source of Applicant's Matching Funds:	The Refuge instituted a fee program in 2011 and currently charges a $5.00/daily or $15.00/annual fee for use of three boat ramps, including Beacon 42, Biolab, Bair's Cove and Blackpoint wildlife drive. Part of the funding for the new boat ramp will come from Refuge fee money.				

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

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

The USFWS manages the land through an agreement with NASA. USFWS has authority over public use areas.

3. Once completed, will this project be insured against damage? Explain

Yes, The Federal government (USFWS) assumes responsibility for damage, repair, or replacement costs

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

5. If yes, please list:

6. 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):

one wide ramp with no dock, 40 trailer parking spaces and 30 single parking spaces, with over 17,000 users annually

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

The addition of the 240 sqft floating dock separating the two new concrete boats ramps will add to the facility.

8. Are fees charged for the use of this project? No ☐ Yes ■

9. 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 D-4

COOPERATIVE ASSISTANCE PROGRAM

APPLICATION EVALUATION AND RATING WORKSHEET 2016

STEP 1: All applicants will complete Attachment D-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** (D-4A, 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.

Project Title:	Beacon 42 Boat Ramp
Applicant:	U.S. Fish and Wildlife Service

1) PRIORITY LIST:

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

Priority 7, 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 consistent with building a public boat ramp with a boat dock separating the two ramps within the same footprint. The current single but wide boat ramp is large enough for two ramps and does not have a dock. Additional shoreline stabilization will be added.

(For reviewer only)
Max. Available Score 17
Range of Score *(0 to* 5 *points)*

2) WATERWAY RELATIONSHIP:

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

The new dual boat ramps will provide public convenient access to Mosquito Lagoon and the ICW. The Beacon 42 boat ramp location is approximately 1.7 miles north of Haulover Canal which is part of the ICW.

b) How does the project benefit public navigation or access to the ICW or adjoining waterways?

Providing a better public ramp at this location will allow more boaters and larger vessels to safely launch near the ICW north of the canal and will reduce public crowding at the Bair's Cove boat ramp which is at the Haulover Canal. Having two ramps will reduce congestion.

(For reviewer only)
(0-6 points)

---

3) PUBLIC USAGE & BENEFITS:

a) How is the public usage of this project clearly identified and quantified?

The Refuge has installed traffic counters at the existing boat ramp. An average of 17,000 boats are launched per year. The traffic counters will continue to be used to monitor the new boat ramp. Use of the facilities are expected to increase.

b) Discuss the regional and local public benefits and access that will be provided by the project.

The new ramp will have upgraded materials (concrete slab) and will be constructed to accommodate larger and smaller vessels. The new ramp will be separated by a dock allowing two vessels to launch/load at the same time. There is not a dock at the current boat ramp.

c) Estimate the amount of total public use.

The current public usage is approximately 17,000 users annually and is expected to significantly increase. The current ramp is broken in the middle causing the ramp to be very steep and the users will appreciate a better ramp grade. The new ramp will be at -4 ft depth.

d) Can residents from other counties of the District reasonably access and use the project? Explain.

Yes, The boat ramp is open to all visitors through MINWR and easily accessible from Brevard, Volusia, Orange, and Indian River County. The ramp is just 1.7 miles north of Haulover Canal.

(For reviewer only)
(0-8 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 D-6*.

Planning/ Bidding - July 2013 (Completed); Design - August 2013 (Completed); Permitting - Notice of Commencement - as required by regulation (since we are staying within the same footprint); Construction Initiation - November 2016; Construction Completion - February 2017

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

There are known archaeological sites within the area. The Refuge is working with the National Park Service and NASA's archaeologist. We do not expect to need an archaeological survey and do not expect any restriction to the project since we are staying within the same footprint.

(For reviewer only)
(0-3 points)

5) COSTS & EFFICIENCY:

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

The Refuge has operated a fee program since 2011. The funds for this project will come from the fee money generated by the existing boat ramp and other fee sites on the Refuge.

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

The Refuge is prepared to pay for any other costs which are not directly related to construction of this project. An engineering and construction firm has evaluated the site for foreseeable cost.

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

The Refuge will provide rock, dirt, gravel, and assist construction where needed. Refuge staff will monitor construction and additional cost will need approval from USFWS.

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.

Sebastian Inlet State Park boatramp $5 per day; CNP- Eddy Creek and two others $5 per day

(For reviewer only)
(0-6 points)

6) PROJECT VIABILITY:

a) Does the project fill a specific need in the community, or is it consistent with an existing maritime management plan?

This project supports the fishing and outdoor recreational community, a priority public use on the Refuge. Anglers, fishing guides, kayak guides, and ecotourists use the boat ramp regularly.

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

When construction is completed, the Refuge will maintain the site through Refuge fees or station funds. The Refuge has a maintenance crew and equipment to maintain the site.

c) Will the program result in significant and lasting benefits? Please describe any environmental benefits associated with this project.

Yes, The new boat ramps will allow large and small vessels alike to launch safely. The additional boat dock will assist boaters with self launch/loading. The improvements will provide greater access to the Mosquito Lagoon and to the ICW. In addition, the new improvements will reduce bank erosion by providing a safe launch area for kayakers and boaters. The old ramp has broken in half due to power loading.

(For reviewer only)
(0-7 points)

SUB-TOTAL _____

FIND FORM NO. 00-25
(Effective Date: 3-21-01, Revised 4-24-06)

ATTACHMENT D-4A

COOPERATIVE ASSISTANCE PROGRAM

APPLICATION EVALUATION AND RATING WORKSHEET

DEVELOPMENT & CONSTRUCTION PROJECTS

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.**

No, Since the project will remain within the same footprint, there are no permits required. We simply half to provide a notice of commencement to SJRWMD, DEP, and ARCOE. The engineering firm has already discussed the project with the appropriate agencies. The notice will be made in within regulation.

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.**

The engineering and construction firm has already discussed permit requirement with applicable agencies.

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

None known

(For reviewer only)
(0-4 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, project designs and drawings are completed.

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

The new boat dock will enhance public usage and access. The dual boat ramps will be at a better grade reducing possible erosion. The Refuge will add a new kiosk with educational information regarding seagrass, manatees, fishing ethics, and local rules and regulations.

(For reviewer only)
(0-2 points)

9) CONSTRUCTION TECHNIQUES:

a) Briefly explain the construction techniques to be utilized for this project.

The project will consist of two 14' wide by 60' long boat ramps with three reinforced concrete sections separated by a 6' wide x 40' long, dock and terminating at a depth of -4.0'ft. The lower section will be 14'x30' (pushed into place), the second section will be 14'x10' and the third section will be 14'x20' which will tie into the existing gravel parking area. The new ramp will allow 21' long boats with a freeboard of 24" to launch during the mean tide of the winter months.

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

The construction equipment will be located within the parking area (approx 1 acre) providing ample room for construction actives and staging. The push slab method has been successfully used by other Refuges in Florida as a cheaper method. The Refuge staff will close off the boat ramp for the duration of the construction to minimize interruptions and decrease construction time.

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

The push slab method has been proven to cost less than cast in place methods. There are no other known unusual construction techniques that will increase or decrease the amount of time or cost.

(For reviewer only)
(0-3 points)

10) CONSTRUCTION MATERIALS:

a) List the materials to be utilized for this project. What is the design life of the proposed materials?

5000psi concrete, pressure treated lumber (guide rails for the floating dock), rip-rap, aluminum decking, stainless steel screws, rock, and gravel

b) Describe any recyclable material to be utilized. How does the recyclable material (if any) compare to other available material?

There are no known recyclable materials to be used with this project.

c) Identify any unique construction materials that may significantly alter the project costs.

All known material and design costs have been accounted for. There are no additional significant costs or materials expected. There are no unique material for this project.

(For reviewer only)
(0-3 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 0 points. A score of 35 points or more is required to be considered for funding.)

Form No. 00-25A
(Effective Date: 3-21-01, revised 4-24-06)

ATTACHMENT D-5

FLORIDA INLAND NAVIGATION DISTRICT
ASSISTANCE PROGRAM 2016

PROJECT COST ESTIMATE
(See Rule Section 66B-1.005 & 1.008 for eligibility and funding ratios)

Project Title:	Beacon 42 Boat Ramp
Applicant:	U.S. Fish and Wildlife Service

Project Elements *(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)*	**Quantity or Total Estimated Cost** (Number and/or Footage etc.)	**Applicant's Cost**	**FIND Cost**
BOAT RAMP: 5000 PSI Concrete Dual Boat Ramp and Concrete Walkway to the Dock	$180,000.00 (50 CU. YDS.)	$90,000.00	$90,000.00
FLOATING DOCK: 6' x 40' Floating Dock w/ Aluminum Decking	$54,000.00 (240 sq ft)	$27,000.00	$27,000.00

****TOTALS =**	$ 234,000.00	$ 117,000.00	$ 117,000.00

Form No. 90-25 (New 10/14/92, Revised 04-24-06)

ATTACHMENT D-6

COOPERATIVE ASSISTANCE PROGRAM 2016

PROJECT TIMELINE

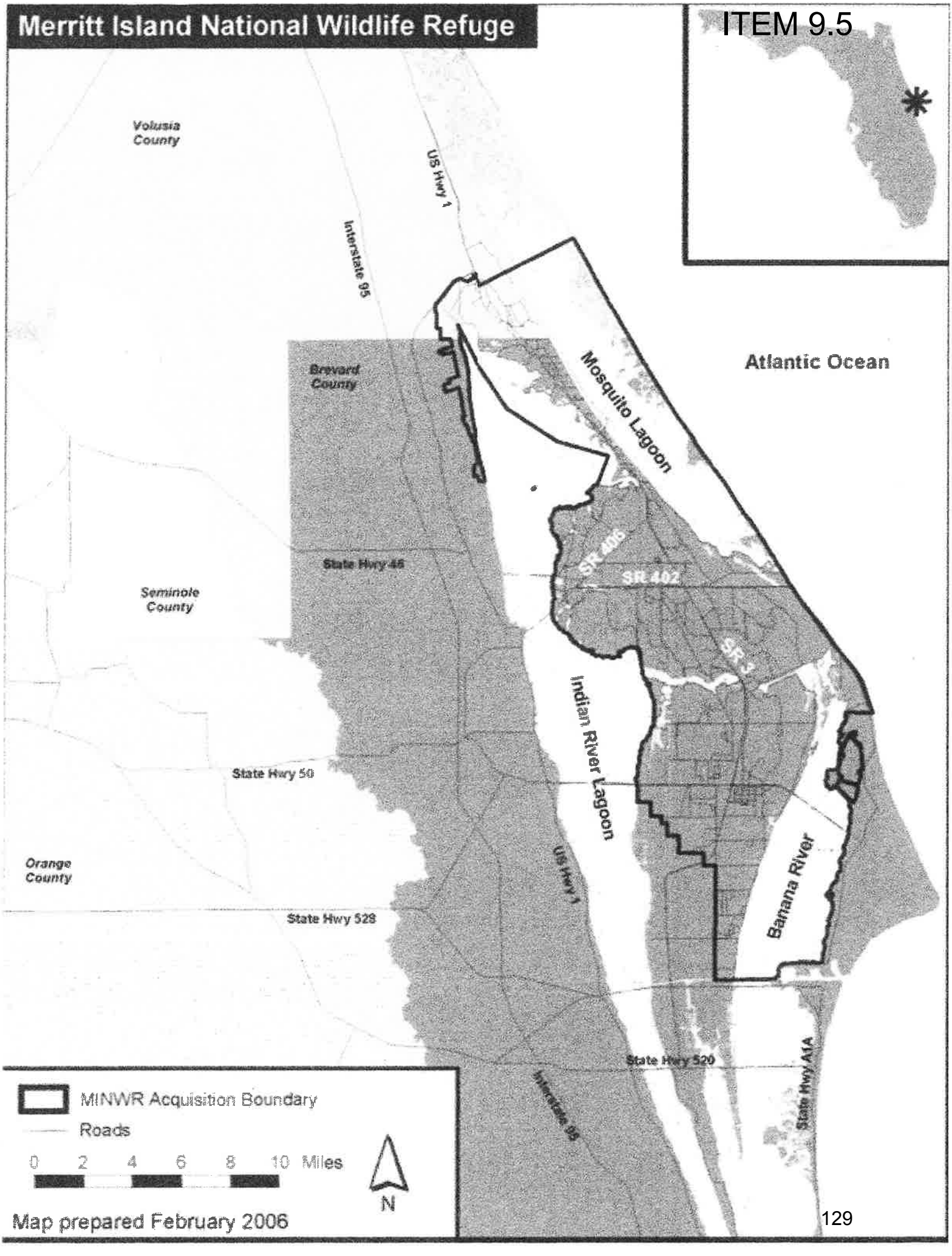
Project Title:	Beacon 42 Boat Ramp
Applicant:	U.S. Fish and Wildlife Service

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 1st

(or be consistent with Rule 66B-1.005(3) - Pre-agreement expenses)

Project Elements:	Completion Dates:	
Planning/ Bidding	July 2013	(Completed)
Design	August 2013	(Completed)
Permitting	April 2016	(a notice of Commencement)
Construction Initiation	November 2016	
Construction Competition	February 2017	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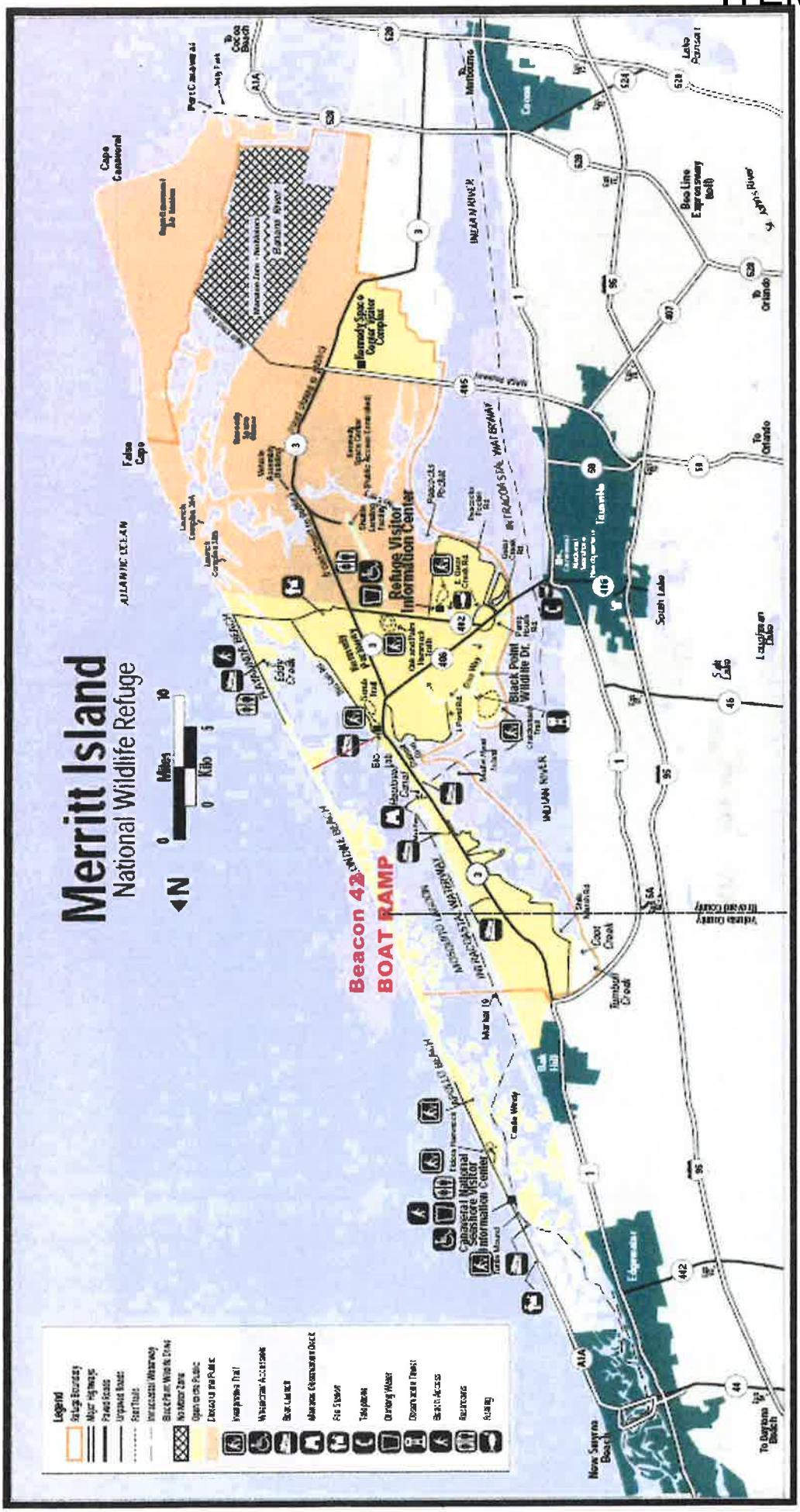
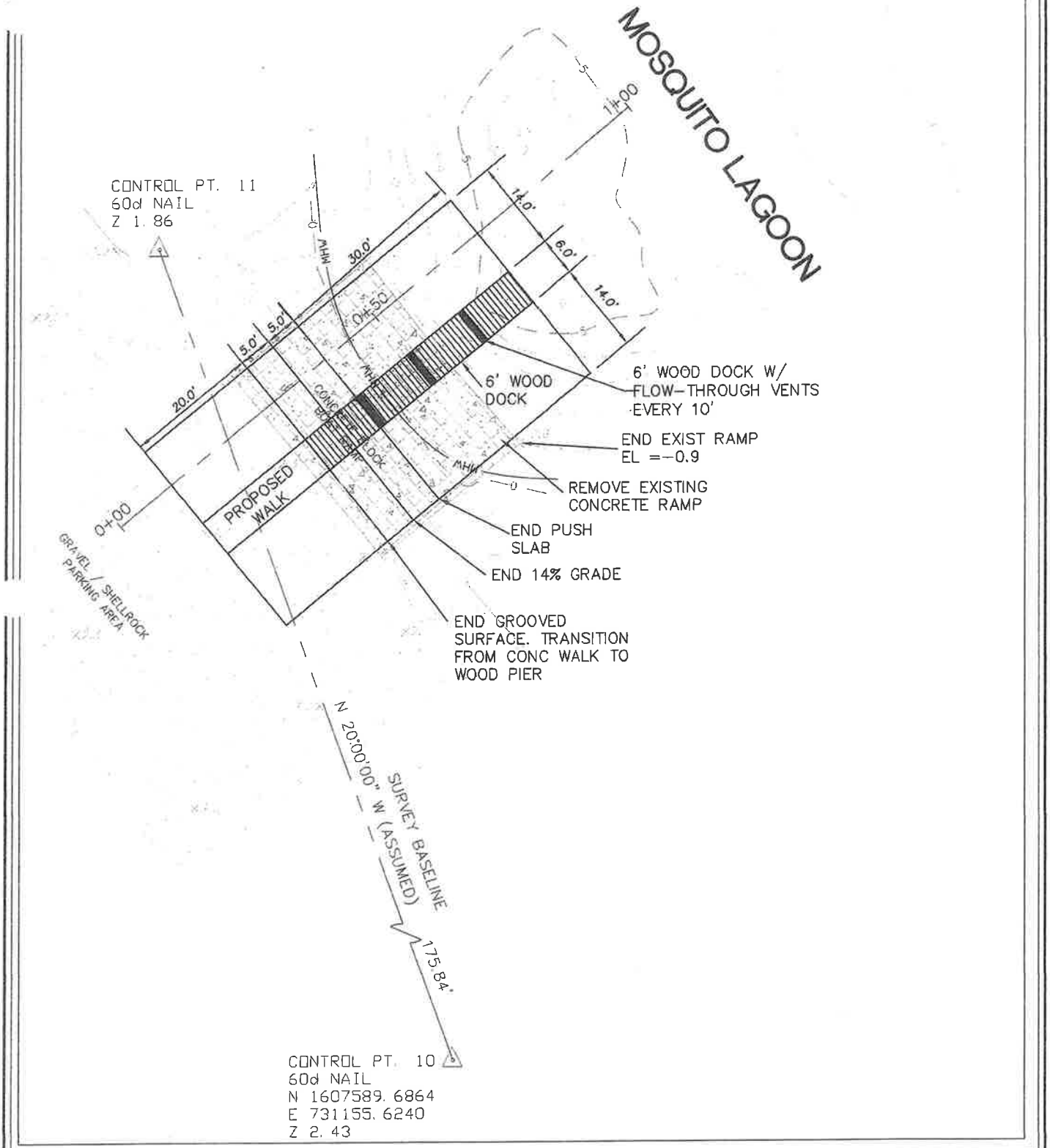
Volusia County
Interstate 95
US Hwy 1
Brevard County
Mosquito Lagoon
Atlantic Ocean
State Hwy 46
SR 406
SR 402
SR 3
Seminole County
Indian River Lagoon
State Hwy 50
US Hwy 1
Banana River
Orange County
State Hwy 528
State Hwy 520
State Hwy A1A
Interstate 95
MINWR Acquisition Boundary
Roads
0 2 4 6 8 10 Miles
N
Map prepared February 2006

PROJECT BOUNDARY MAP



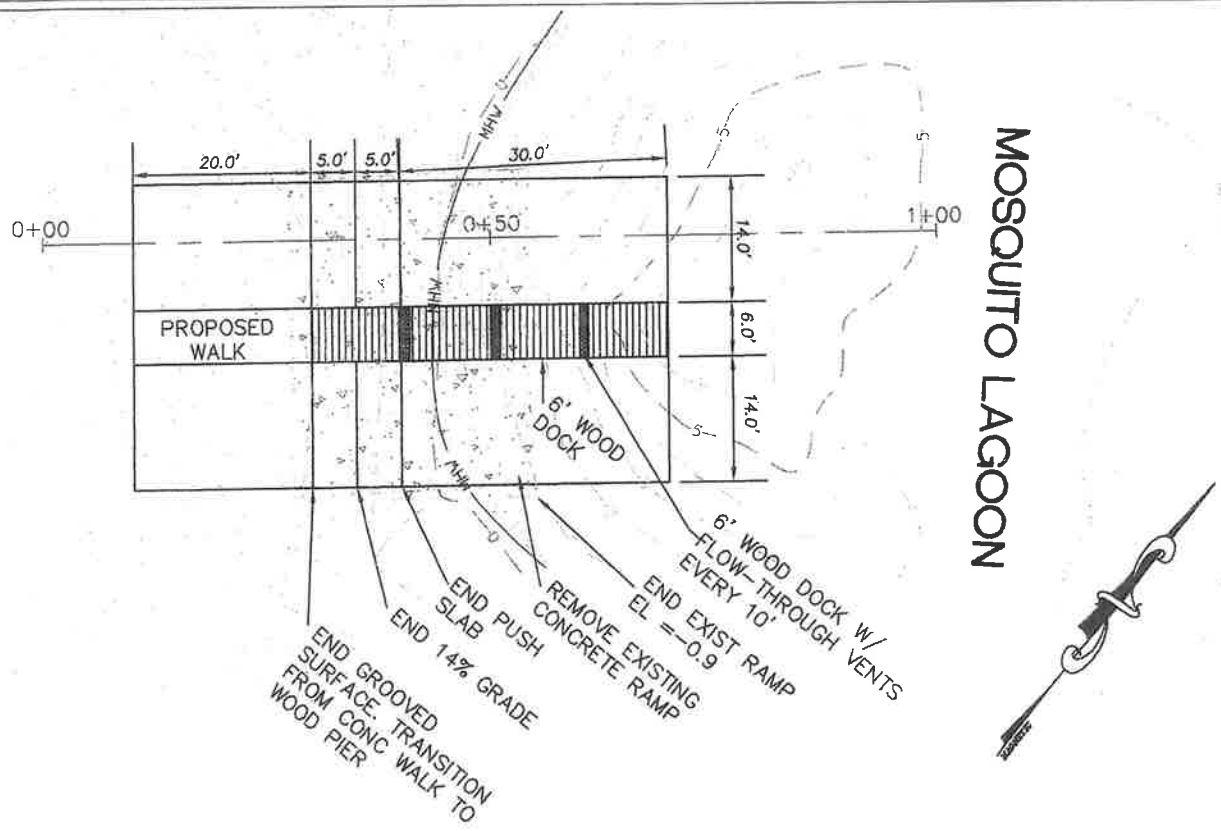


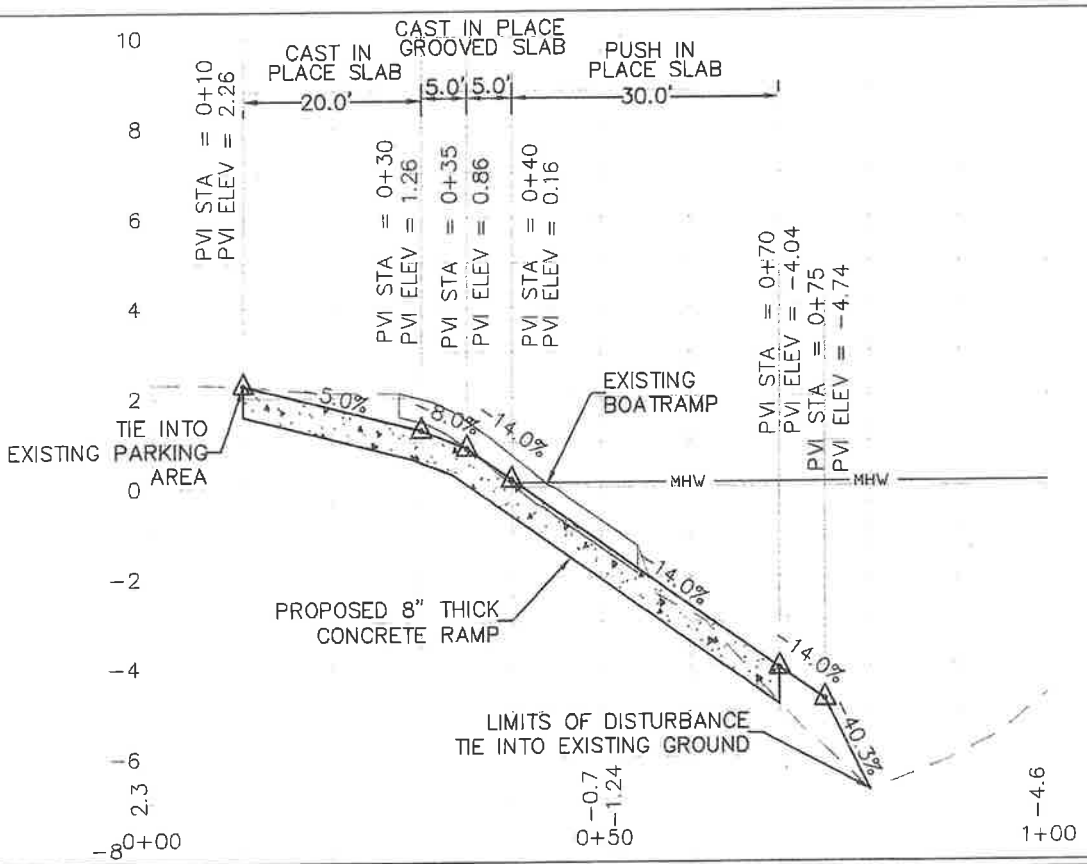
HYDRA ENGINEERING & CONSTRUCTION, LLC
36 JASPER THOMAS ROAD
CRAWFORDVILLE, FL 32327
PHONE 850-926-2593 FAX 850-926-9257
WWW.HYDRAEC.COM
FLORIDA CA # 28124

USFWS
MERRITT ISLAND NWR

BEACON 24
BOAT RAMP
SITE PLAN

DRAWN BY: LAH	SCALE: 1" = 20
CHECKED BY: SOE	PROJECT NO: 2013106
DATE: 8/28/13	PAGE: 7
FILE: BEACON	





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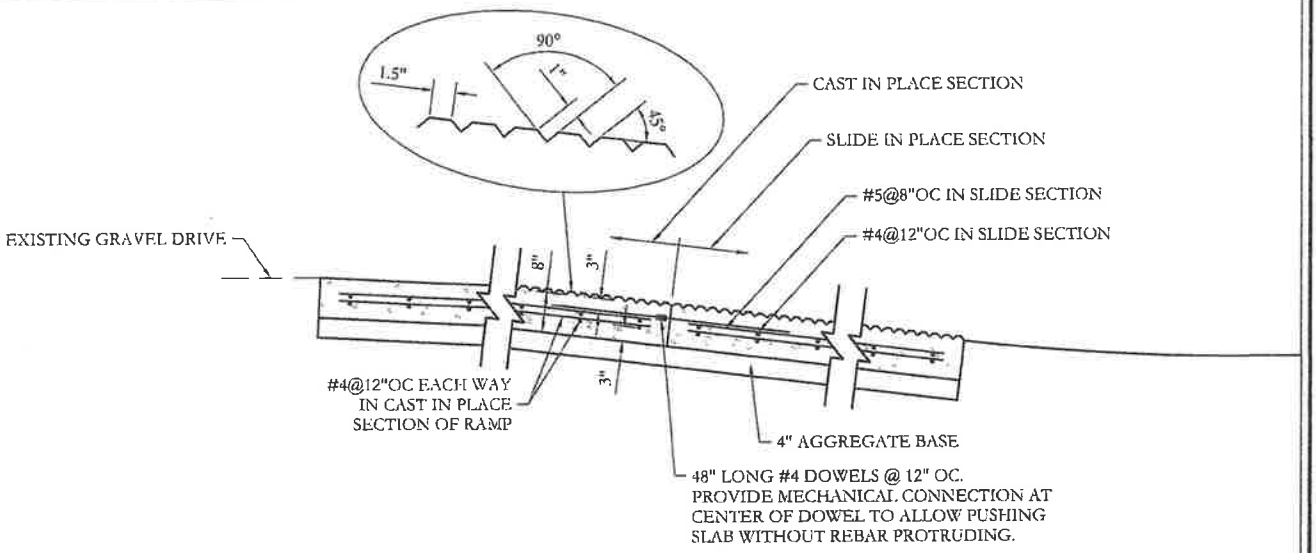
FLORIDA CA # 28124

USFWS
MERRITT ISLAND NWR

BEACON 24
BOAT RAMP
PLAN & PROFILE

DRAWN BY: LAH	SCALE: 1" = 20
CHECKED BY: SOE	PROJECT NO: 2013106
DATE: 8/28/13	PAGE: 8
FILE: BEACON BOAT R7	

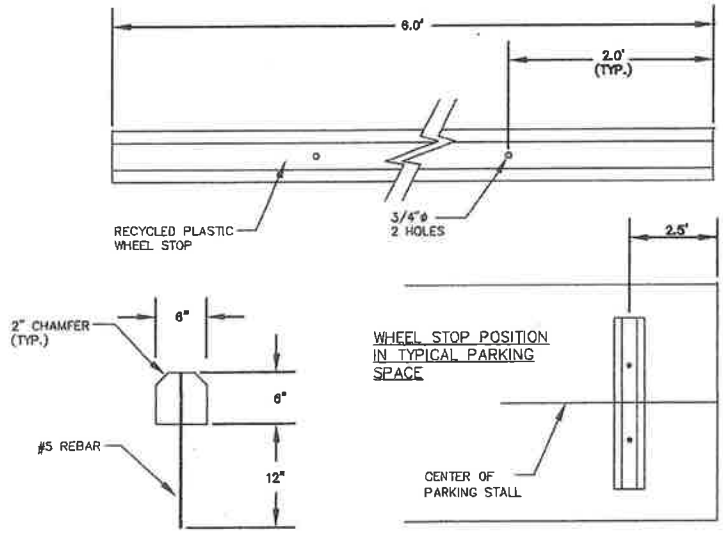


STANDARD MANATEE CONDITIONS FOR IN-WATER WORK

1. SILTATION OR TURBIDITY BARRIERS SHALL BE MADE OF MATERIAL IN WHICH MANATEES CANNOT BECOME ENTANGLED, SHALL BE PROPERLY SECURED, AND SHALL BE REGULARLY MONITORED TO AVOID MANATEE ENTANGLEMENT OR ENTRAPMENT. BARRIERS MUST NOT IMPEDE MANATEE MOVEMENT.

2. ALL ON-SITE PROJECT PERSONNEL ARE RESPONSIBLE FOR OBSERVING WATER-RELATED ACTIVITIES FOR THE PRESENCE OF MANATEE(S). ALL IN-WATER OPERATIONS, INCLUDING VESSELS, MUST BE SHUT DOWN IF A MANATEE(S) COMES WITHIN 50 FEET OF THE OPERATION. ACTIVITIES WILL NOT RESUME UNTIL THE MANATEE(S) HAS MOVED BEYOND THE 50-FOOT RADIUS OF THE PROJECT OPERATION, OR UNTIL 30 MINUTES ELAPSES IF THE MANATEE(S) HAS NOT REAPPEARED WITHIN 50 FEET OF THE OPERATION. ANIMALS MUST NOT BE HERDED AWAY OR HARASSED INTO LEAVING.

3. TEMPORARY SIGNS CONCERNING MANATEES SHALL BE POSTED PRIOR TO AND DURING ALL IN-WATER PROJECT ACTIVITIES. ALL SIGNS ARE TO BE REMOVED BY THE PERMITTEE UPON COMPLETION OF THE PROJECT. AWARENESS SIGNS THAT HAVE ALREADY BEEN APPROVED FOR THIS USE BY THE FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FWC) MUST BE USED (SEE MyFWC.com). ONE SIGN WHICH READS: CAUTION: BOATERS MUST BE POSTED. A SECOND SIGN MEASURING AT LEAST 8 1/2" BY 11" EXPLAINING THE REQUIREMENTS FOR "IDLE SPEED/NO WAKE." AND THE SHUT DOWN OF IN-WATER OPERATIONS MUST BE POSTED IN A LOCATION PROMINENTLY VISIBLE TO ALL PERSONNEL ENGAGED IN WATER-RELATED ACTIVITIES.



WHEEL STOP DETAIL
N.T.S.

HYDRA ENGINEERING & CONSTRUCTION, LLC
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CA # 28124

USFWS
MERRITT ISLAND NWR
BEACON 24 & BIOLAB
DETAILS

DRAWN BY: JDH	SCALE: NTS
CHECKED BY: LAH	PROJECT NO: 2013106
DATE: 08/29/13	PAGE: 9
FILE: DETAILS	

ATTACHMENT E-2

WATERWAYS ASSISTANCE PROGRAM FY 2016
PROJECT APPLICATION
APPLICANT INFORMATION – PROJECT SUMMARY

APPLICANT INFORMATION			
Applicant:	Town of Indian River Shores		
Department:	Public Safety Department		
Project Title:	**Law Enforcement and Fire Suppression Patrol Boat**		
Project Director:	Robert Stabe	**Title:**	Town Manager
Project Liaison: *(if different from Project Director)*	Shawn Hoyt	**Title:**	Sergeant, IRS PSD
Mailing Address:	6001 North A1A		
City:	Indian River Shores	**Zip Code:**	32963
Email Address:	SHOYT@IRSPSD.ORG	**Phone #:**	772-231-2451 x 346
Project Address:	6001 North A1A, Indian River Shores, FL 32963		

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

SIGNATURE: _____ DATE: 3/29/16

PROJECT NARRATIVE

Almost 30% of the area of Indian River Shores is covered by water. There are over 23 statute miles of patrol shoreline, both lagoon and ocean, as well as 5.4 miles of the ICW within the public safety department's purview (see attachment E-9). In addition to the many hours on waterway safety and law enforcement patrol, the present boat has responded to almost 50 calls for assistance from Indian River County dispatch (as unit "Marine 41") including life saving situations as far North as the Sebastian Inlet and as far South as Harbor Branch Oceangraphic Institute.

The current boat, predominantly funded by FIND in FY2000, has limited capability in surf/rough seas and no fire suppression capability. Anticipating this, the Town Council has included a line item in their 2016 budget towards partially funding a new boat.

Form No. 90-22, Rule 66B-2, (New 12/17/90, Rev.07-30-02, 04-24-06)

ATTACHMENT E-3 - PROJECT INFORMATION 2016

Applicant:	Town of Indian River Shores,	**Project Title:**	Waterway Boating Safety and Law Enforcement,		
Total Project Cost: $	$120,000	**FIND Funding Requested: $**	$60,000	**% of Total Cost:**	50%
Amount and Source of Applicant's Matching Funds:	Town of Indian River Shores FY 2016 Budget, boat line item.				

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

2. If leased or other, please describe lease or terms and conditions:
Boat lift and dock in year 15 of a 25 year lease.

3. Once completed, will this project be insured against damage? Explain
Covered under town umbrella policy.

4. Has the District previously provided assistance funding to this project or site? Yes: No: X

5. If yes, please list

6. 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

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

8. Are fees charged for the use of this project? No X Yes ☐

9. 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	Click here to enter text.	Click here to enter text.
DEP	N/A	Click here to enter text.	Click here to enter text.
ACOE	N/A	Click here to enter text.	Click here to enter text.
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.

Project Title:	**Law Enforcement and Fire Suppression Patrol Boat**
Applicant:	**Town of Indian River Shores, Public Safety Department**

---

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.**

Although our current vessel has conducted many hours on waterway safety and law enforcement patrol, it is limited by no fire suppression capability and limited utility in heavy seas or surf. The boat has been in service over 15 years
The IRS PSD has responded to almost 50 calls for assistance from Indian River County dispatch including life saving situations as far away as the Sebastian Inlet.

(For reviewer only)
Max. Available Score for application 44

Question 1. Range of Score (1 to 2 *points)*

---

2) WATERWAY RELATIONSHIP:

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

Over 5.5 linear miles of the ICW and 2 square miles of surrounding waters are regularly patrolled by the Indian River Shores Public Safety Department. Emergency/mutual aid calls have extended the length of the ICW within Indian River County, a total of 22 miles. Additionaly several lagoon islands lie within our area of responsibility with their attendant brush fire risks.

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

Full emergency responses and routine patrols to public boating and related shoreline events by a Public Safety Department with triple-certified Officers (Police, Fire, EMT/Para-medic).

(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 benefit from this project is direct and documented in the IR County records of calls for assistance to "Marine 41" the unit being supplemented by this project.

b) Discuss the regional and local public benefits that will be provided by the project.

Waterway safety and emergency response, ICW patrol and regulation enforcement, **response to boat and brush fires** and FWC regulation enforcement will continue to be provided by approval of this project.

c) Can residents from other counties of the District reasonably access and use the project? Explain.

Mutual aid with adjoining districts caused several calls to the Sebastian Inlet area. These calls have resulted in specific life-saving and property-saving instances when other units were unavailable or too distant.

(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.

Completed to Date:
FIND grant paperwork completed, Partial funding of new boat included in FY2016 town budget, draft quotes received from Brunswick Commercial and Government Products, et al.

Future items:
Obtain FIND grant funding
Finalize, negotiate and sign Purchase Order

b) Briefly explain any unique aspects of this project that could influence the project timeline.
Availablity of FIND funding.

(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.
FIND funds, FY2016 Town appropriation (extendable to 2017)
Utilize GSA discounts.

b) Identify and describe any project costs that may be increased because of the materials utilized or specific site conditions.
None known or anticipated at this time.

c) Describe any methods to be utilized to increase the cost efficiency of this project.
Utilization of GSA Schedule 1122 program
Use of legacy boat lift, and dock access agreements

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?**
Beach and water safety for the town residents and ICW transients and law enforcement activities including theft prevention and investigation.
Boating safety incidents and personal rescue.
Boat and Island fire response

b) **Clearly demonstrate how the project will continue to be maintained and funded after District funding is completed.**
Dock, lift, boat engine maintenance have been budgeted and funds expended for the past 15 years. Existing budget line items exist for future years.

c) **Will the program result in significant and lasting benefits? Explain.**
See a) above.

d) **Please describe any environmental benefits associated with this project.**
Multiple examples of predecessor usage in dolphin, manatee, and turtle rescues and whale strandings (Oceanside).

(For reviewer only)
(1-7 points)

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

---

7) VIABILITY:

c) Describe how the project will address particular public health, safety, or welfare issues of the Navigation District's Waterways.

Water and fire safety for the town residents and ICW transients and law enforcement activities including theft prevention and investigation. Boating safety incidents and personal rescue.

d) How does the project provide significant benefits or enhancements to the District's Waterways?

Multiple examples of usage in dolphin, manatee, turtle, rescue and whale strandings. Adds an ability to respond to emergencies in more severe sea conditions and to incidents requireing a fire suppression capability.

(For reviewer only)
(1-3 points)

---

8) EXPERIENCE & QUALIFICATIONS:

a) **List the personnel tasked with the implementation of this project, their qualifications, previous training and experience.**

Five marine certified operators on present force; in totality we have about 25% of our force certified to captain the vessel. (Three are paramedics, two EMT's and all are firefighters)

b) **Have the personnel participated in or received state marine law enforcement training?**
FWC course, USCG training. State and federal documents available.

(For reviewer only)
(1-2 points)

9) DELIVERABLES:

a) **Describe the anticipated, long-term measurable results of implementing this project.**
Continue the demonstrated value of the marine safety, environmental and law enforcement activities over a broader range of conditions and situations..

b) **What is the range or area of coverage for this project? Please provide a map of the coverage area.**
Miles of serviceable area depicted in appendices #8 and #9.

c) **Does the project fulfill a particular community need?**
Yes, documented in the existing patrol boat usage. There is no fire response capability to our lagoon islands which have become more heavily used in recent years. An ability to operate in more adverse weather/sea conditions is also added.

For reviewer only)
(1-4 points)

10) EDUCATION:

a) **What are the educational benefits (if any) of this proposed project?**
High visibility of the marine enforcement vessels enhances public awareness of boating safety.

b) **How does the project or program provide effective public boating education or expand boater safety?**

Public occasions (4th of July, Labor Day, Memorial Day, FWC" Seasons") provide opportunities for public education and safety and regulations.

(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 2016

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

Project Title:	**Law Enforcement and Fire Suppression Patrol Boat**
Applicant:	Town of Indian River Shores, Public Safety Department

Project Elements *(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)*	**Quantity or Total Estimated Cost** **(Number and/or Footage etc.)**	**Applicant's Cost**	**FIND Cost**
Replacement Boat	$120,000 (Estimate)	50%	50%
Options/accessories for Boat	Included in Est.		
Trailer for Boat	Included in Est.		
Boat Lift	$0 –Legacy		
Dock Lease	$0 --Legacy		

****TOTALS =**	**$120,000**	**$60,000**	**$60,000**

Form No. 90-25 (New 10/14/92, Revised 04-24-06)

ATTACHMENT E-6
WATERWAYS ASSISTANCE PROGRAM 2016

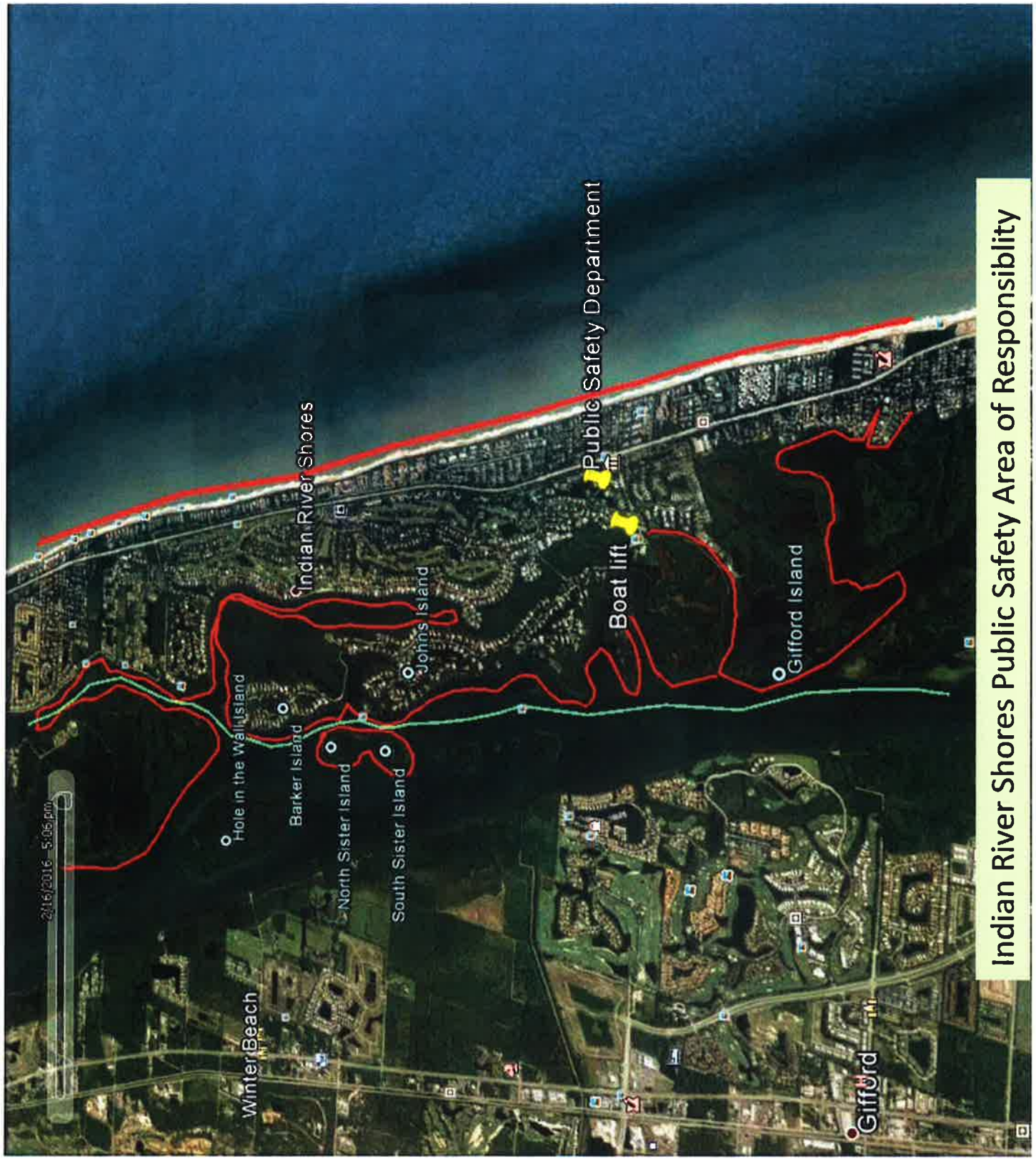
PROJECT TIMELINE

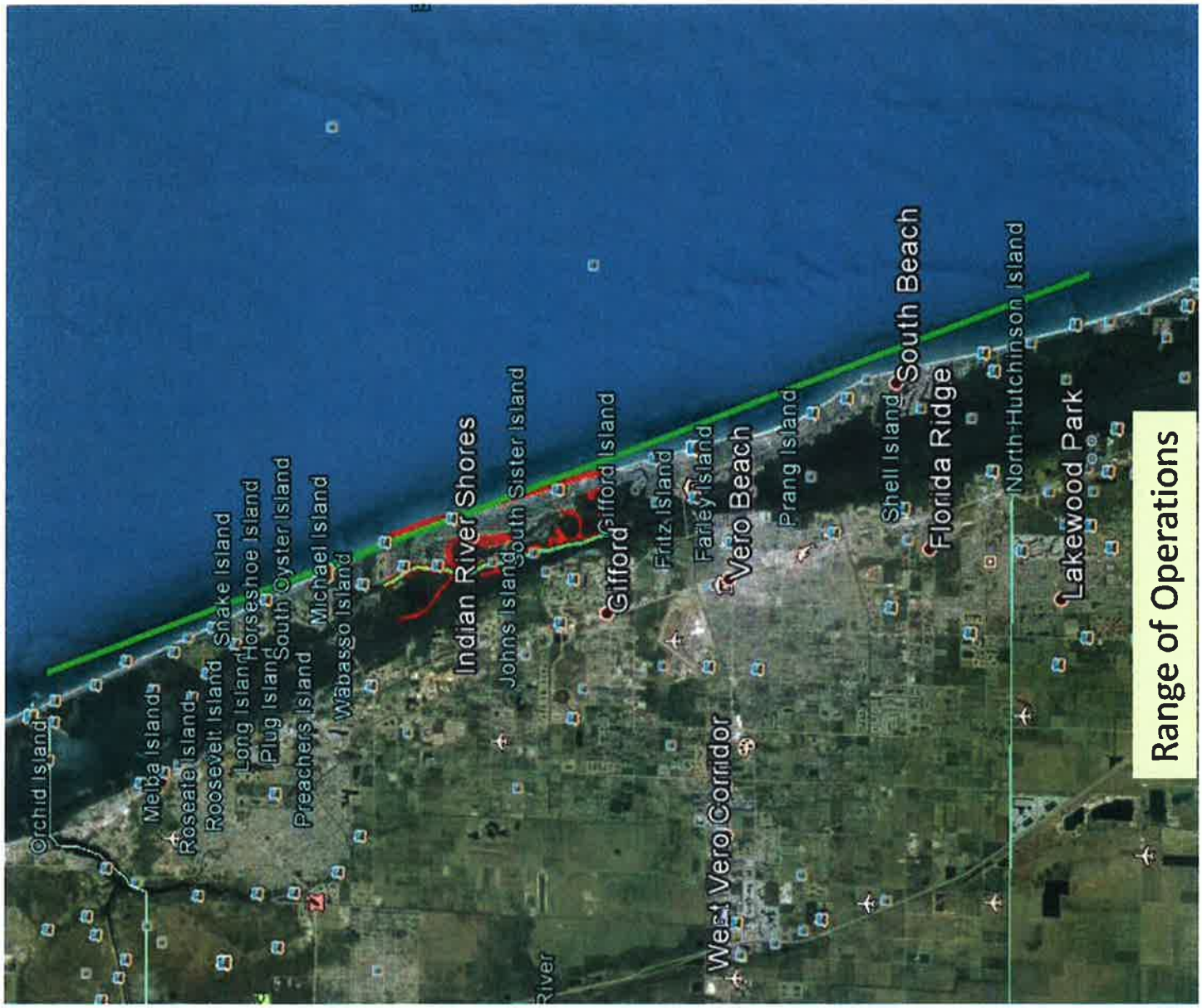
Project Title:	**Law Enforcement and Fire Suppression Patrol Boat**
Applicant:	Town of Indian River Shores, Public Safety Department

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 1st
(or be consistent with Rule 66B-2.005(3) - Pre-agreement expenses)

Completed to Date:
FIND grant paperwork completed, Partial funding of boat included in FY2016 town budget, draft quotes received from Brunswick Commercial and Government Products.

Future items:
Obtain FIND grant funding
Finalize, negotiate and sign Purchase Order


Indian River Shores Public Safety Area of Responsiblity
Public Safety Department
Boat lift
Indian River Shores
Johns Island
Gifford Island
Hole in the Wall Island
Barker Island
North Sister Island
South Sister Island
Winter Beach
Gifford
2/16/2016 5:06 pm


Orchid Island
Melba Islands
Roseate Islands
Roosevelt Island
Snake Island
Long Island
Horsesnoe Island
Plug Island
South Oyster Island
Preachers Island
Michael Island
Wabasso Island
Indian River Shores
Johns Island
South Sister Island
Gifford
Gifford Island
Fritz Island
Farley Island
Vero Beach
Prang Island
West Vero Corridor
Shell Island
South Beach
Florida Ridge
North Hutchinson Island
Lakewood Park
River
Range of Operations

ATTACHMENT E-2

WATERWAYS ASSISTANCE PROGRAM FY 2016
PROJECT APPLICATION
APPLICANT INFORMATION – PROJECT SUMMARY

APPLICANT INFORMATION			
Applicant:	CITY OF STUART		
Department:	PUBLIC WORKS DEPARTMENT		
Project Title:	SHEPARD PARK IMPROVEMENTS Part 2		
Project Director:	Tim Voelker, P.E.	**Title:**	City of Stuart Engineer
Project Liaison: *(if different from Project Director)*	Marc Rogolino	**Title:**	Capital Prj. Coordinator
Mailing Address:	121 SW Flagler Ave.		
City:	Stuart	**Zip Code:**	34994
Email Address:	mrogolino@ci.stuart.fl.us	**Phone #:**	772-221-4700
Project Address:	400 SOUTH FEDERAL HWY. STUART, FLORIDA 34994		

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

SIGNATURE: Tim Voelker DATE: 3/17/16

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

The project consists of four components.

1. Installation of an ADA compliant floating dock to assist in vessel boarding.
2. Construction of an ADA compliant restroom facility.
3. Construction of six pervious boat trailer parking spaces
4. Construction of two environmental education classrooms / pavilions

Form No. 90-22, Rule 66B-2, (New 12/17/90, Rev.07-30-02, 04-24-06)

ATTACHMENT E-3 - PROJECT INFORMATION 2016

Applicant:	CITY OF STUART		**Project Title:**	SHEPARD PARK IMPROVEMENTS	
Total Project Cost: $	$ 385,500.00	**FIND Funding Requested: $**	$ 167,750.00	**% of Total Cost:**	43.5 %
Amount and Source of Applicant's Matching Funds:	$ 217,750.00 The City of Stuart funding match source would be our voter approved Infrastructure Sales Tax.				

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. Once completed, will this project be insured against damage? Explain
Yes, The City maintains insurance coverage for city docks, riverwalks and boat slips.

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

5. If yes, please list:
Boat slips, seawall & boardwalk, riverwalk, fishwalk and boat ramp reconstruction.

6. 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, and eleven boat trailer parking spaces, waterfront public park with pavilion, tot lot, restrooms and vehicle parking.

7. How many additional ramps, slips, parking spaces or other access features will be added by this project?
An ADA compliant floating dock with sidewalk, six additional pervious vehicle with boat trailer parking spaces, two environmental education classrooms / pavilions, and an ADA compliant restroom facility.

8. Are fees charged for the use of this project? No ☒ Yes ☐

9. If yes, please attach additional documentation of fees and how they compare with fees from similar public & private facilities in the area. None proposed

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	May 2012	June 2012
ACOE	YES	November 2012	March 2015
COUNTY / CITY	N/A		

Form No. 90-22a (New 10-14-92, Rev. 04-24-06, 4-15-07)

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.

Project Title:	SHEPARD PARK IMPROVEMENTS
Applicant:	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.

This project consists of the construction of an ADA compliant floating courtesy dock, an ADA compliant restroom facility and six additional pervious boat trailer parking spaces, increasing the public's use as well as access to the St. Lucie and Okeechobee Waterway system.

(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 Shepard Park Improvements represent the continued effort of the City's plan to provide for the ADA needs of the community, while encompassing its natural shorelines with water related educational, recreational and support facilities.

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

The project allows 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.

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.

c) Can residents from other counties of the District reasonably access and use the project? Explain.

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.

(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.

Design is complete. If the FIND funding request is approved, the City anticipates advertising for competitive bids in October 2016.

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

None noted at this time.

(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 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.

None noted.

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)

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.**

As with all previously F.I.N.D. funded projects constructed in past years, such as;

- Shepard Park Fishwalk
- Shepard Park Seawall
- City of Stuart Riverwalk
- City of Stuart Floating Courtesy Dock

The City of Stuart will continue to own, operate and maintain this facility. The annual operating budget provides funding for annual routine maintenance of the facility.

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

Yes, there is a recreational need for all boaters to access the ICW and surrounding waterways. This improves access and attracts additional waterway users.

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

The proposed ADA Compliant Restroom Facility will provide for energy efficient features such as;

- Hand Dryers
- Low Flow Fixtures
- LED Lighing

The pavilions will provide for waterways education.

(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? 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 ADA floating dock.

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 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.

None noted.

(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 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?

Yes. The construction of an ADA compliant boat ramp and ADA compliant restroom facility, along with additional pervious boat trailer parking would allow for greater use of Shepard Park and water related activities.

(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 City of Stuart has conceptually chosen composite hollow piles which can be installed via pneumatic hammer versus jetting therfore minimizing disturbance of the creek bed.

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

The method and type of construction selected will minimize the impact on the environment
As well as public access to the existing boat ramp and facilitites.

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

None 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?

ADA Compliant Floating Dock

- Composite Piles and Decking- 30+ year lifespan, requiring less maintenance and eliminates the need for staining or the use of pesticides. This prevents unnecessary use of chemicals that can contaminate the St. Lucie River and the overall environment.

ADA Compliant Restroom Facility

- Hand Dryers- Eliminates the need of paper towels. Therfore, reduces waste and the potential negative impacts on aquatic animals and plants.
- Low flow Fixtures- These fixtures significantly reduce the amount of water released per use. These fixtures use just enough water to be effective, saving excess, clean, drinking water.
- LED Light fixtures- Ecologically Friendly (free of toxic chemicals), low voltage, energy efficient.

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

None specifically required but specifications will encourage the use of recycled 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.)

ATTACHMENT E-5

FLORIDA INLAND NAVIGATION DISTRICT
ASSISTANCE PROGRAM 2016

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

Project Title:	SHEPARD PARK IMPROVEMENTS
Applicant:	CITY OF STUART

Project Elements *(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)*	**Quantity or Total Estimated Cost** **(Number and/or Footage etc.)**	**Applicant's Cost**	**FIND Cost**
1. Furnish and install an ADA compliant floating courtesy dock. • ADA compliant sidewalk	$ 35,500.00	$17,750.00 (50%)	**$17,750.00 (50%)**
2. Construction of an ADA compliant restroom facility. • Includes demolition of existing restroom facility. • Associated utilities and site grading.	$200,000.00	$100,000.00 (50%)	**$100,000.00 (50%)**
3. Construction of six pervious boat trailer parking spaces.	$50,000.00	$25,000.00 (50%)	**$25,000.00 (50%)**
4. Construct two environmental education classrooms / pavilions. • Windowing of existing mangroves to provide a river vista.	$100,000.00	$75,000.00 (75%)	**$25,000.00 (25%)**

****TOTALS =**	**$ 385,500.00**	**$ 217,750.00**	**$ 167,750.00**

Form No. 90-25 (New 10/14/92, Revised 04-24-06)

ATTACHMENT E-6
WATERWAYS ASSISTANCE PROGRAM 2016

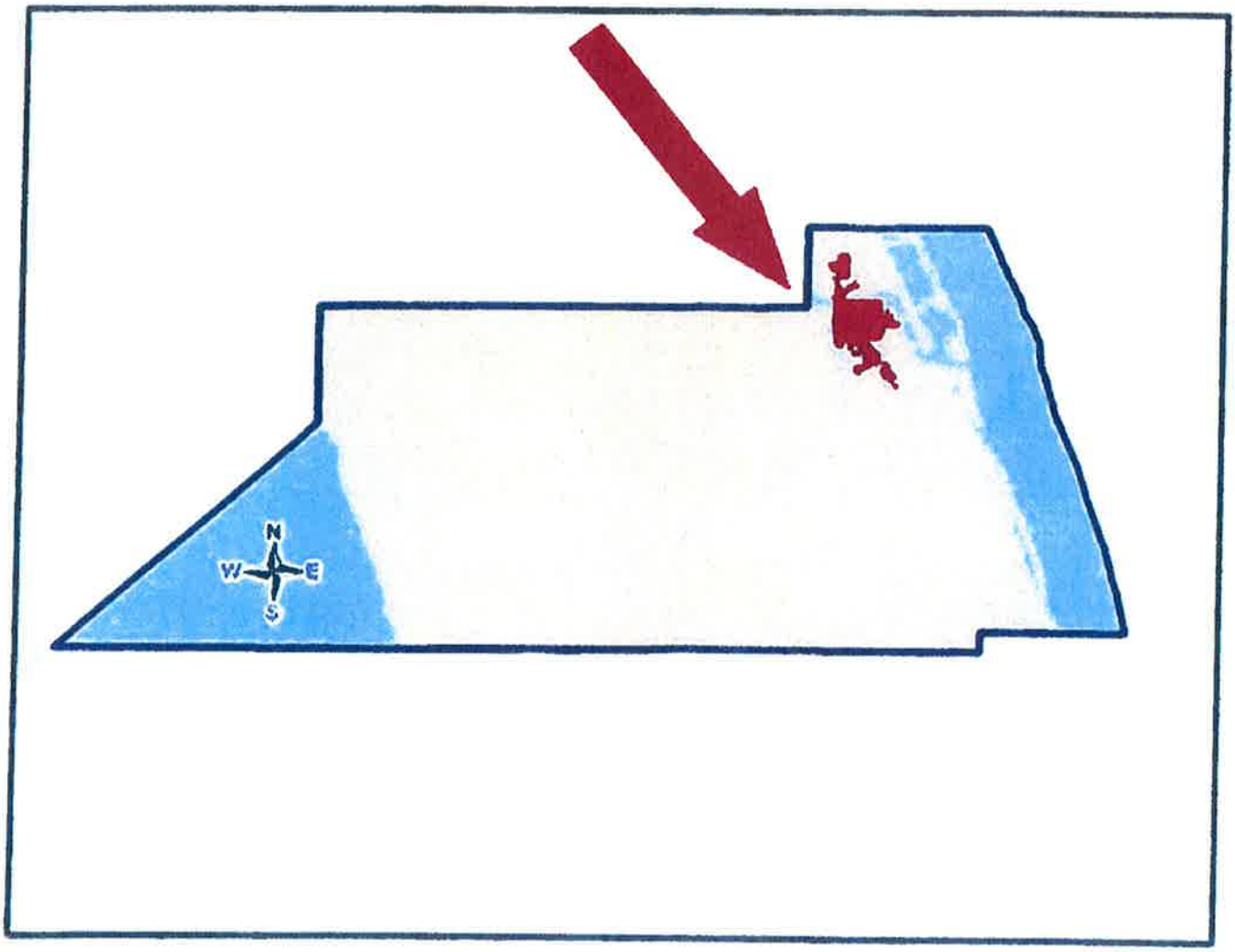
PROJECT TIMELINE

Project Title:	SHEPARD PARK IMPROVEMENTS
Applicant:	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 1st
(or be consistent with Rule 66B-2.005(3) - Pre-agreement expenses)

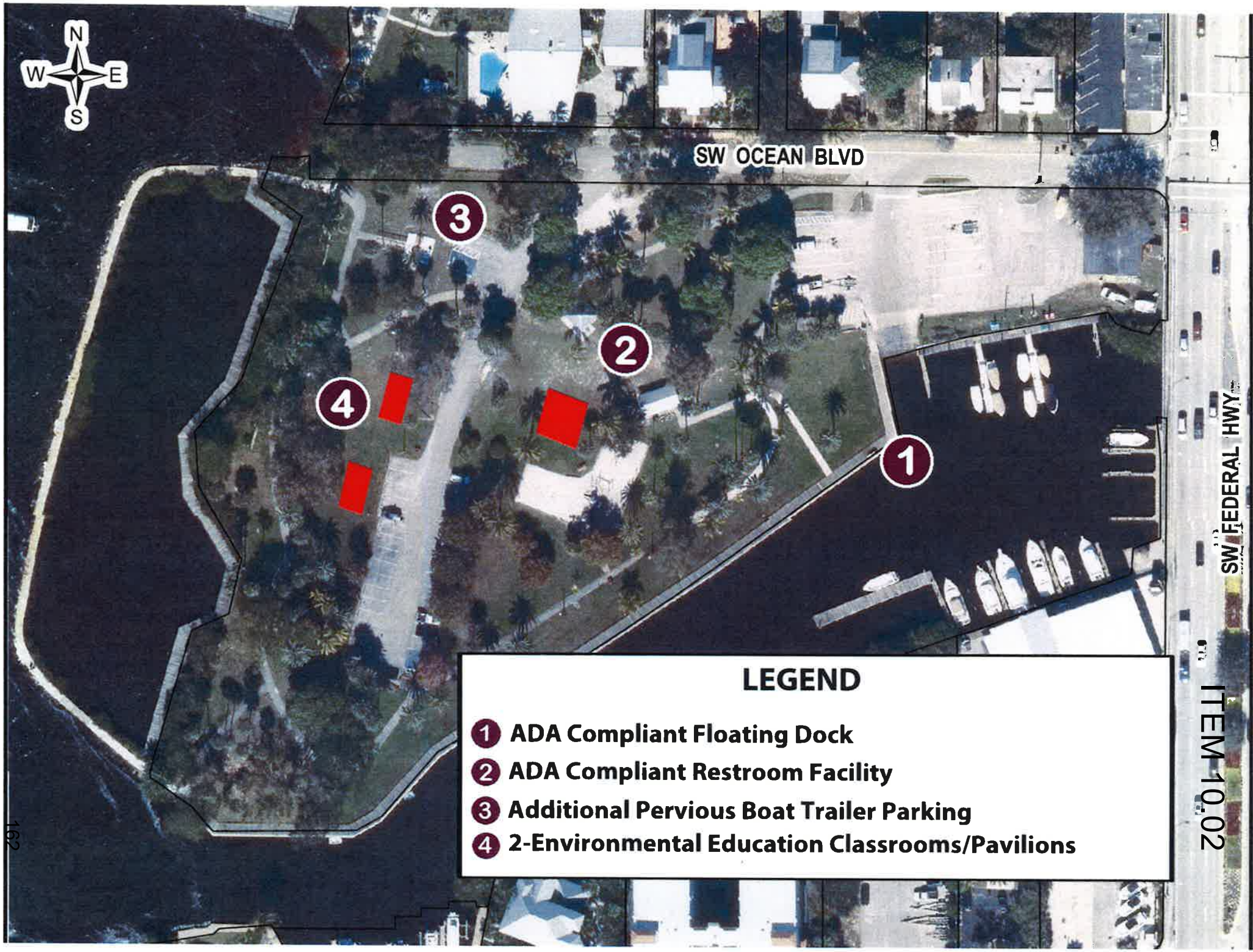
November 2016:	Advertise for proposals
December 2016:	Receive proposals
January 2017:	Award contract
February 2017:	Begin construction
June 2017:	Complete construction
July 2017:	Project close-out

City of Stuart, Florida



Project Boundary Map




N
W
E
S
SW OCEAN BLVD
SW FEDERAL HWY
1
2
3
4
LEGEND
1 ADA Compliant Floating Dock
2 ADA Compliant Restroom Facility
3 Additional Pervious Boat Trailer Parking
4 2-Environmental Education Classrooms/Pavilions

Stuart

SW FEDERAL HWY
SW OCEAN BLVD
N
E
S
W
1. - ADA COMPLIANT FLOATING DOCK



Current Non-ADA Compliant Restroom



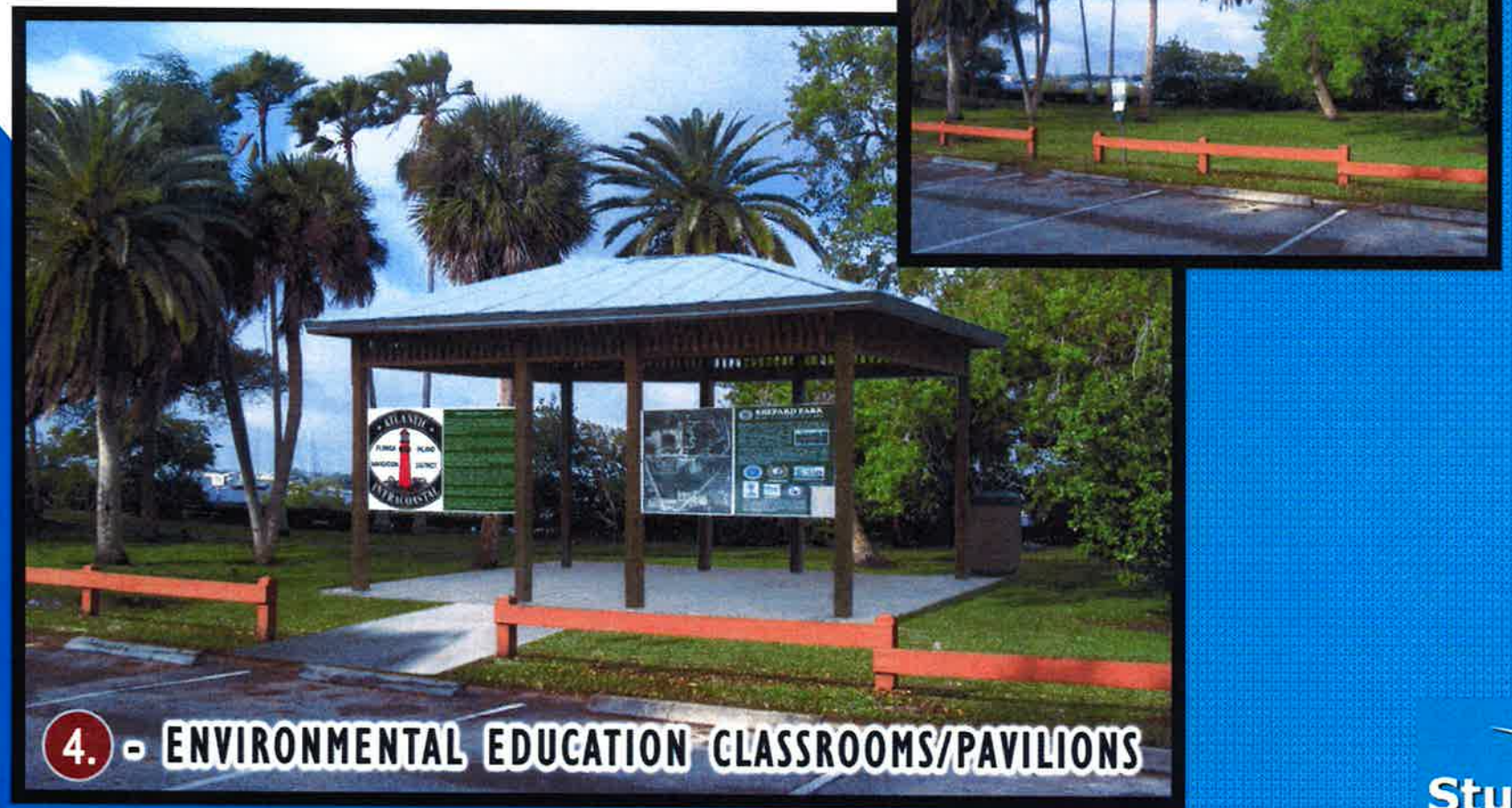
Stuart

Existing Boat Trailer Parking (12 Spaces)



Stuart

Existing Conditions



Stuart

ATTACHMENT E-2

WATERWAYS ASSISTANCE PROGRAM FY 2016
PROJECT APPLICATION
APPLICANT INFORMATION – PROJECT SUMMARY

APPLICANT INFORMATION			
Applicant:	Martin County Board of County Commissioners		
Department:	Parks and Recreation		
Project Title:	Phipps Park		
Project Director:	Kevin Landry	**Title:**	Park Planner
Project Liaison: *(if different from Project Director)*	Todd Foust	**Title:**	Special Facilities Administrator
Mailing Address:	2401 SE Monterey Rd		
City:	Stuart	**Zip Code:**	34996
Email Address:	klandry@martin.fl.us	**Phone #:**	772-221-1376
Project Address:	2175 SW Locks Rd, Stuart, FL 34997		

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

SIGNATURE: _____ DATE: 3/28/16

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

Phipps Park is a public park and campground located at 2175 SW Locks Rd Stuart, FL 34997, just east of the locks on the Okeechobee waterway in Martin County. The park is a 55 acre conservation and campground area that provides public fishing and boating opportunities, picnicking, camping and hiking. The shoreline at Phipps Park is an unstable (17' high) escarpment that exceeds 2:1 slope. In order to help protect the viability and ecology of the Okeechobee waterway, Martin County seeks to stabilize 1,200 LF of shoreline and construct a boat dock/fishing pier and waterfront walk, which will expand waterway access for viewing, picnicking, boating and fishing.

Form No. 90-22, Rule 66B-2, (New 12/17/90, Rev.07-30-02, 04-24-06)

ATTACHMENT E-3 - PROJECT INFORMATION 2016

Applicant:	Martin County Board of County C	**Project Title:**	Phipps Park		
Total Project Cost: $	700,000	**FIND Funding Requested: $**	350,000	**% of Total Cost:**	50
Amount and Source of Applicant's Matching Funds:	Ad Valorem and Park impact fees				

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

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

3. Once completed, will this project be insured against damage? Explain

Yes. The County is self insured under a consortium of four municipalities.

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

5. If yes, please list:

2015 FIND provided assistance of $167,061.

6. 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):

One (two lane) boat ramp with a finger pier. The boat trailer parking area is sufficient to accommodate approximately six boat trailers.

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

One 130' floating pier to accommodate 6 boats.

8. Are fees charged for the use of this project? No ☐ Yes ■

9. 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	4/25/15	8/4/15
DEP	NA		
ACOE	Yes	4/25/15	8/31/15
COUNTY / CITY	Yes	4/25/15	8/31/15

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.

Project Title:	Phipps Park
Applicant:	Martin 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.

Project will include removal of exotic vegetation, grading, stabilization, re-vegetation, and construction of walking path on 1,200 LF of shore along the Okeechobee waterway with water access and boat docks.

(For reviewer only)
Max. Available Score for application 49

Question 1. Range of Score (1 to 7 *points)*

---

2) WATERWAY RELATIONSHIP:

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

The project is located along the Okeechobee waterway directly downriver from the locks. It will provide public access to boating, fishing, picnicking, recreation, and environmental education opportunities.

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

The project will stabilize an existing unstable (17' high) escarpment that exceeds 2:1 slope. Continued erosion of the shoreline is a future threat to navigation and the ecology of the waterway. New shoreline access provides opportunities for recreational use of the waterway.

(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.

Phipps Park has over 1,500 overnight campers annually. An additional 400 patrons utilize the small boat ramp on the far east end of the park. The completion of the project would allow for increased access and recreational use of the waterway.

b) Discuss the regional and local public benefits that will be provided by the project.

The current 17' high shoreline escarpment, slope and erosion makes the shoreline dangerously inaccessible. The project will provide ADA compliant shoreline access to 1,200 LF of shoreline and provide docking for up to 6 boats. This project will create regional waterway access opportunities and stimulate local water related commerce. This will raise the County's level of service to accessible waterways for residents and non-residents, and generate new park users.

c) Can residents from other counties of the District reasonably access and use the project? Explain.

Phipps Park is available for day use to the general public regardless of residency at no fee. Fees are in place for overnight camping for residents and non-residents.

(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 Martin County Board of County Commissioners has given its approval for the project in its Capital Improvement Plan. An engineer has been contracted and a site plan has been completed. Permit applications have been submitted and approved.

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

None known.

(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 budgeted $730,000 in Active Park Land impact fees toward the project. The County also has received a $200,000 LWCF grant to complete project elements of the site plan not related to the shoreline or waterway.

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

None known.

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

The county plans on implementing all the shoreline improvements at the same time it completes other elements of the site plan to maximize the efficiency of 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 day use fees associated with use of the park or facilities. Overnight fees are charged for camping.

(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?

Availability of publicly accessible waterfront property and recreation is listed as a need and goal in Martin County Parks and Recreation Master Plan and supported by Chapter 7 and 8 of the Comprehensive Plan. Development of Phipps Park is specifically referenced in the 2014 Martin and St. Lucie Regional Waterways Plan supported by FIND (pages 5-41 and 5-8).

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

The Martin County Parks and Recreation Department will be charged with maintenance and operation of the park. The Department has and operating budget of $5.1 million. The annual operational costs for the project are estimated to be $800. County policy dictates that adequate operational funds be dedicated to each new project site upon its approval.

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

The stabilization of the shoreline will provide lasting protection of the 55 acre capital asset in Martin County. The project will also complement Martin County's and FIND's efforts to provide a safe and navigable waterway.

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

The project will prevent sedimentation within the Okeechobee Waterway and the St. Lucie River estuary. The addition of 1,200 LF of waterfront will also help to increase public awareness of the waterway's economic and ecological significance to the region.

(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? 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.**

The scope of the project is not phased.

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

None known.

(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's site design has been completed and permits are in hand to begin 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?

The current shoreline is inaccessible. The project design is ADA compliant and will afford accessibility to all users. Stabilization of the shoreline will be an environmental improvement by eliminating current and wave erosion, as well as removing invasive exotic species.

(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 selection of materials and construction techniques are based upon accepted standards for recreational waterfront development. The walkway will be poured concrete.

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

The project contract documents will contain performance specifications which dictate best management practice techniques, such as utilization of silt fencing and turbidity barriers. Best management practices are appropriate and essential for protection of natural resources.

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?

The primary construction materials of the shoreline stabilization will be filter fabric and rip rap of sufficient weight and size to withstand wave energy and currents. Other material will be aluminum, wood and cement. The useful life of the rip rap shoreline should exceed 50 years. All other materials will have a useful life of 20-30 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.)

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 2016

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

Project Title:	Phipps Park
Applicant:	Martin County Board of County Commissioners

Project Elements *(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)*	**Quantity or Total Estimated Cost** **(Number and/or Footage etc.)**	**Applicant's Cost**	**FIND Cost**
Remove and dispose shoreline vegetation	1,200 LF @ $80/LF	$48,000	$48,000
Excavate Bank	19,000 CY @ $7/CY	$65,500	$65,500
Disposal of material excavated	19,000 CY @ $3/CY	$28,500	$28,500
Stabilize shoreline	1,200 LF @ $100/LF	$60,000	$60,000
Construct shoreline walkway	8' x 900 LF @ $30/LF	$13,500	$13,500
Construct post and rail fence	1,200 LF @ $12/LF	$7,200	$7,200
Install stabilizing vegetation	10,000 SY @ $4/SY	$20,000	$20,000
Construct boat docks	$214,600	$107,300	$107,300
****TOTALS =**	$ 700,000	$ 350,000	$ 350,000

Form No. 90-25 (New 10/14/92, Revised 04-24-06)

ATTACHMENT E-6
WATERWAYS ASSISTANCE PROGRAM 2016

PROJECT TIMELINE

Project Title:	Phipps Park
Applicant:	Martin 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 1st
(or be consistent with Rule 66B-2.005(3) - Pre-agreement expenses)

PHIPPS PARK SHORELINE STABILIZATION & ACCESS PROJECT SCHEDULE

TASKS

Site plan and permitting - Completed

Contract document preparation completed by the end of the 1st quarter 2017

Bidding completed by the end of the 2nd quarter 2017

Construction beginning the start of the 3rd quarter of 2017 and completion by the end of the 4th quarter 2017.

MC Navigator
by Martin County GIS



Monday, February 17, 2014, 12:13:19 PM, Disclaimer: The Geographic Information System map product, received from Martin County, ("COUNTY") is provided "as is" without warranty of any kind, and the COUNTY expressly disclaims all express and implied warranties, including but not limited to the implied warranties of merchantability and fitness for a particular purpose. The COUNTY does not warrant, guarantee, or make any representations regarding the use, or the results of the use, of the information provided to you by the COUNTY in terms of correctness, accuracy, reliability, timeliness or otherwise. The entire risk as to the results and performance of any information obtained from the COUNTY is entirely assumed by the recipient. Please contact the responsible Martin County Department for specific determinations.

ARTMENT

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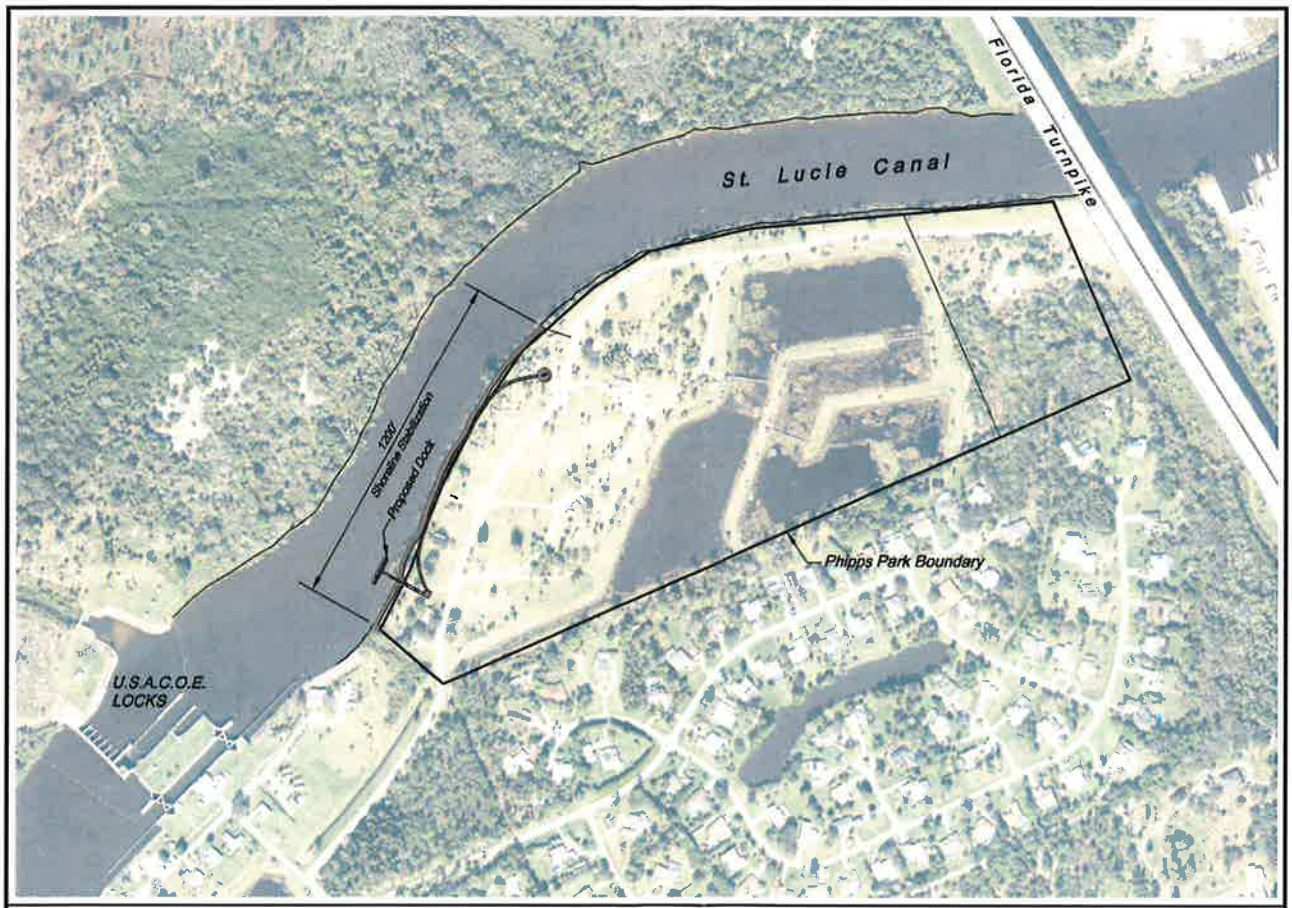
SHORELINE STABILIZATION & DOCK PLANS FOR

PHIPPS PARK

MARTIN COUNTY, FLORIDA



Aerial Map

Scale: 1"=300'

NERS

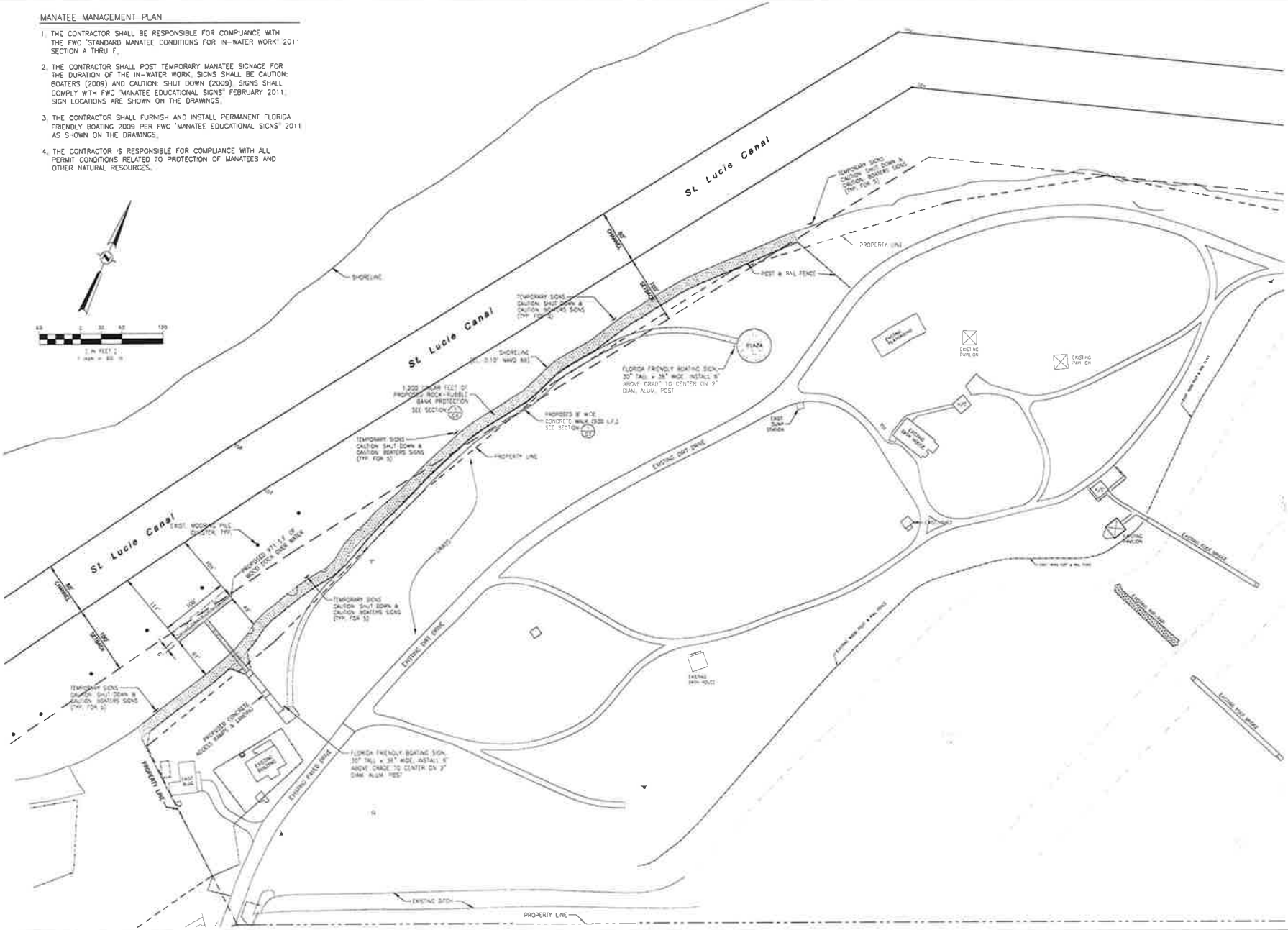
RICT 1
RICT 2
RICT 3
RICT 4
RICT 5

C. CALVERT MONTGOMERY & ASSOCIATES, INC.

CONSULTING ENGINEERS
959 S. FEDERAL HWY. – STUART, FLORIDA
(772) 287–3636

MANATEE MANAGEMENT PLAN

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH THE FWC 'STANDARD MANATEE CONDITIONS FOR IN-WATER WORK' 2011 SECTION A THRU F.
2. THE CONTRACTOR SHALL POST TEMPORARY MANATEE SIGNAGE FOR THE DURATION OF THE IN-WATER WORK. SIGNS SHALL BE CAUTION: BOATERS (2009) AND CAUTION: SHUT DOWN (2009). SIGNS SHALL COMPLY WITH FWC 'MANATEE EDUCATIONAL SIGNS' FEBRUARY 2011. SIGN LOCATIONS ARE SHOWN ON THE DRAWINGS.
3. THE CONTRACTOR SHALL FURNISH AND INSTALL PERMANENT FLORIDA FRIENDLY BOATING 2009 PER FWC 'MANATEE EDUCATIONAL SIGNS' 2011 AS SHOWN ON THE DRAWINGS.
4. THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH ALL PERMIT CONDITIONS RELATED TO PROTECTION OF MANATEES AND OTHER NATURAL RESOURCES.



C. CALVERT MONTGOMERY & ASSOCIATES, INC
Engineers-Surveyors (LB & C.A. 0000160)
P.O. BOX 92-959 S. FEDERAL HWY. STUART, FLORIDA 34995
TEL. (772) 287-3536 FAX (772) 220-0580

PROPOSED PARK SITE PLAN

PROPOSED STABILIZATION & DOCK PLANS FOR
PHILIPPS PARK
MARTIN COUNTY, FLORIDA

ATTACHMENT E-2

WATERWAYS ASSISTANCE PROGRAM FY 2016
PROJECT APPLICATION
APPLICANT INFORMATION – PROJECT SUMMARY

APPLICANT INFORMATION			
Applicant:	Martin County Sheriff's Office		
Department:			
Project Title:	Martin County Sheriff's Office Marine Patrol Waterway Safety		
Project Director:	James A. Foster Jr.	**Title:**	Sergeant
Project Liaison: *(if different from Project Director)*		**Title:**	
Mailing Address:	800 SE Monterey Road		
City:	Stuart	**Zip Code:**	34994
Email Address:	jafoster@sheriff.martin.fl.us	**Phone #:**	772-260-5582
Project Address:	N/A		

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

SIGNATURE: _____ DATE: 3/9/16

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

This project is for the purchase of a rigid hull inflatable boat for the Martin County Sheriff's Office Marine Unit. This vessel will be used to patrol all waterways within Martin County and off the coast in the Atlantic Ocean, enforce boating laws, intercept illegal immigrants/narcotics, protect marine life, and assist citizens in distress. This vessel will be used to patrol the county's sandbars and spoil islands that are heavily populated for the majority of the year. There are no other state or federal agencies that are permanently stationed for law enforcement support on Martin County waterways. The Martin County Sheriff's Office Marine Unit is the primary responder for any and all incidents that take place on the waters. The Marine Unit works to increase boater safety through education, the removal of hazards, and resolving conflicts between boaters. In 2015, the Marine Unit logged 6,362 water patrol hours, conducted 3,245 safety inspections, had 296 vessel assists, and 17 rescues.

Palm Beach County residents will also directly benefit as this vessel will allow for an increase in law enforcement presence in the southern portions of Martin County which require patrolling into many portions of Palm Beach County for access. This will allow for more enforcement action at a sandbar that is located in both Martin and Palm Beach Counties and is frequented by Palm Beach County residents.

Form No. 90-22, Rule 66B-2, (New 12/17/90, Rev.07-30-02, 04-24-06)

ATTACHMENT E-3 - PROJECT INFORMATION 2016

Applicant:	Martin County Sheriff's Office	**Project Title:**	Martin County Sheriff's Office Marine Patr		
Total Project Cost: $	$150,000	**FIND Funding Requested: $**	$60,000	**% of Total Cost:**	40%
Amount and Source of Applicant's Matching Funds:	The Martin County Sheriff's Office				

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

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

3. Once completed, will this project be insured against damage? Explain

Yes. The Sheriff's Office maintains insurance on all vessels.

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

5. If yes, please list:

6. 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 over 15 public boat ramps throughout the county. Most of these boat ramps are so heavily utilized that the parking spaces fill up and boaters park illegally along the roadways. There are also 15 public beach accesses that are utilized by citizens with kayaks and paddleboards.

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

None.

8. Are fees charged for the use of this project? No ■ Yes ☐

9. 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

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.

Project Title:	Martin County Sheriff's Office Marine Patrol Waterway Safety
Applicant:	Martin County Sheriff's Office

---

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 14. Waterway boating safety programs and equipment.

b) Explain how the project fits this priority category.

This project is for the purchase of a rigid hull inflatable boat for the Marine Unit. This vessel will be used to patrol all waterways within Martin County to enforce boating laws, intercept illegal immigrants/narcotics, and protect marine life.

(For reviewer only)
Max. Available Score for application 44

Question 1. Range of Score (1 to 2 *points)*

---

2) WATERWAY RELATIONSHIP:

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

The ICW in Martin County runs from the south county line to the north county line. In addition, the ICW also runs over to the western county line as the waterway splits in the county. This is over 70 miles of the ICW that will be patrolled by this new vessel.

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

Public navigation is improved when hazards are removed, inexperienced boaters receive education/assistance, and laws are enforced. The Marine Unit will patrol two inlets from the ICW to the Atlantic Ocean and the ICW access to Lake Okeechobee.

(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 vessel will not be used publicly. However it will be utilized to patrol over 70 miles of the ICW, 30 miles of coastal waterway, and the popular sandbars within the county. The Marine Unit regularly supports Martin County Fire Rescue by transporting patients and personnel. This will be a direct benefit to the public as it will increase safety.

b) Discuss the regional and local public benefits that will be provided by the project.

Martin County has hundreds of miles of waterway that are used by both recreational and commercial boaters. There are also several sandbars and spoil islands that are frequented by a large volume of citizens. Additional law enforcement presence and patrols will result in a safer experience overall.

c) Can residents from other counties of the District reasonably access and use the project? Explain.

Palm Beach, St. Lucie, and Okeechobee County residents often enjoy the waterways of Martin County. Many of these residents utilize the amenities that Martin County provides. St. Lucie County has very few boat ramps so a large number of it's residents use Martin County ramps to launch boats. These citizen will all benefit from the added security the Marine Unit provides.

(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 Marine Unit currently has a sufficient number of deputies to man the patrol boat and it will be put into use immediately after purchase. When the grant contract is finalized the boat will be placed for bid, a bid awarded and the purchase completed - approximately three months.

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

Minor delays could be experienced if new boat models are behind in production from the factory due to a higher demand.

(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 Marine Unit has currently budgeted for the additional $90,000 for this project for the 2016-2017 fiscal year. Any additional costs over the $150,000 purchase price will be paid for through the Law Enforcement Trust Fund.

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

It is not anticipated that any costs will be increased. The vessel has been researched and all additional equipment has been factored into the purchase price. Only increased prices from manufacturers will increase the product's price.

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

The Sheriff's Office commits to a full and appropriate maintenance schedule for the boat in order to ensure that it can be used for the longest period of time possible.

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 additional fees are associated with this project.

(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?

As the public boating demand increases on the waterways of Martin County there must also be an increase in law enforcement and public safety to help with increased security to ensure positive boating experiences. This boat allows the Marine Unit to reach all areas of the waterway including the coastline, sandbars, and natural areas in Martin, Palm Beach, and St. Lucie Counties for law enforcement assistance and rescues.

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

The Sheriff's Office Marine Unit currently has 5 patrol vessels. All of these boats are maintained according to manufacturer's specifications by the units assigned maintenance deputy. This vessel will be placed on a regular schedule for maintenance to ensure that a full lifespan is achieved.

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

This vessel will result in added patrols and enforcement that will produce safer waterway for the public and the marine wildlife. The added patrolling will also aid in the protecting of the county's coastal borders from the criminal elements. This vessel should last a minimum of 15 years which will ensure this increased safety and security for many years.

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

Martin County has a large waterway system that supports not only marine wildlife, but recreational and commercial boaters. The Marine Unit works closely with federal and state wildlife officials to make sure that all wildlife species are protected and/or unlawful boating practices are not occurring. This helps ensure that the boating community can coexist with the marine wildlife with little impact.

(For reviewer only)
(1-7 points)

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.

This project will allow the Marine Unit to better protect the public by using the county's waterways to increase access and response times. This vessel is designed for rigorous environments and conditions which make it well suited for search and rescue operations and other first responder missions that often take place in less than optimal conditions. The vessel is lightweight and easy to maneuver making it a necessary tool when responding to all areas in the county via water. The Marine Unit regularly assists the Health Dept. regarding water quality

d) How does the project provide significant benefits or enhancements to the District's Waterways?

The Marine Unit's ability to patrol both navigable water and the shallow coastal areas extends the reach of law enforcement to better protect the public and create a safer boating environment. The Marine Unit frequently makes contact with other vessels, for example, while pulling up alongside another vessel to conduct a search, provide assistance, or to make an arrest these actions are safer and cause less property damage when done in an inflatable boat.

(For reviewer only)
(1-3 points)

---

8) EXPERIENCE & QUALIFICATIONS:

a) List the personnel tasked with the implementation of this project, their qualifications, previous training and experience.

The Marine Unit consists of 7 deputies that have extensive training in the safe operation of vessels up to and including USCG Masters Captain's License. Members of the unit are required to be trained by the unit's trainer. This training consists of over 400 operating hours. All members of the Marine Unit that will operate this boat are USCG licensed captains.

b) Have the personnel participated in or received state marine law enforcement training?

Yes. All members of the Marine Unit regularly participate in training locally and and through the state.

(For reviewer only)
(1-2 points)

9) DELIVERABLES:

a) Describe the anticipated, long-term measurable results of implementing this project.

This vessel will result in added patrols and enforcement that will produce safer waterways for the public and the marine wildlife. The added patrolling will also aid in the protection of the county's coastal borders from the criminal elements. This vessel should last a minimum of 15 years which will ensure this increased safety and security for many years.

b) What is the range or area of coverage for this project? Please provide a map of the coverage area.

The area of coverage will be all waterways within the boundaries of Martin County as well as portions of Palm Beach County.

c) Does the project fulfill a particular community need?

This project will assist in reducing boater conflict and increase safety on the waterways of Martin County ultimately resulting in a more enjoyable boating experience for the citizens. The Marine Unit will use this appropriately designed vessel to help reduce risk of injury or death to anyone enjoying the waterways.

For reviewer only)
(1-4 points)

10) EDUCATION:

a) What are the educational benefits (if any) of this proposed project?

Increased presence on the waterways will add to making more contacts where boaters can be made aware of and educated on rules and regulations as well as state laws. The Marine Unit regularly boards boats in order to inspect safety gear and educate boat operators of the proper uses.

b) How does the project or program provide effective public boating education or expand boater safety?

When a Marine Deputy stops a boater to explain the law or boards a vessel to enforce the law, it helps to make all waterway users aware of the law. The deputies often give the boat operator educational materials to help them become informed so they will be in compliance with all boating safety laws in the future.

(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 2016

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

Project Title:	Martin County Sheriff's Office Marine Patrol Waterway Safety
Applicant:	Martin County Sheriff's Office

Project Elements *(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)*	**Quantity or Total Estimated Cost** **(Number and/or Footage etc.)**	**Applicant's Cost**	**FIND Cost**
850IM - Impact Boat - heavy duty fiberglass hull/commercial grade. (See attached Draft Quotation)	1 @ $99,754.00	$59,852.40	$39,901.60
Evinrude 300 HP w/ 25" Shaft Standard and Counter Rotation	2 @ $16,214.50	$19,457.40	$12,971.60
LE Series Aluminum Trailer	1 @ $6,459.00	$3,875.40	$2,583.60
Law Enforcement Equipment and Electronics	1 @ $11,358.00	$6,814.80	$4,543.20
****TOTALS =**	$ 150,000.00	$ 90,000	$ 60,000.00

Form No. 90-25 (New 10/14/92, Revised 04-24-06)

ATTACHMENT E-6
WATERWAYS ASSISTANCE PROGRAM 2016

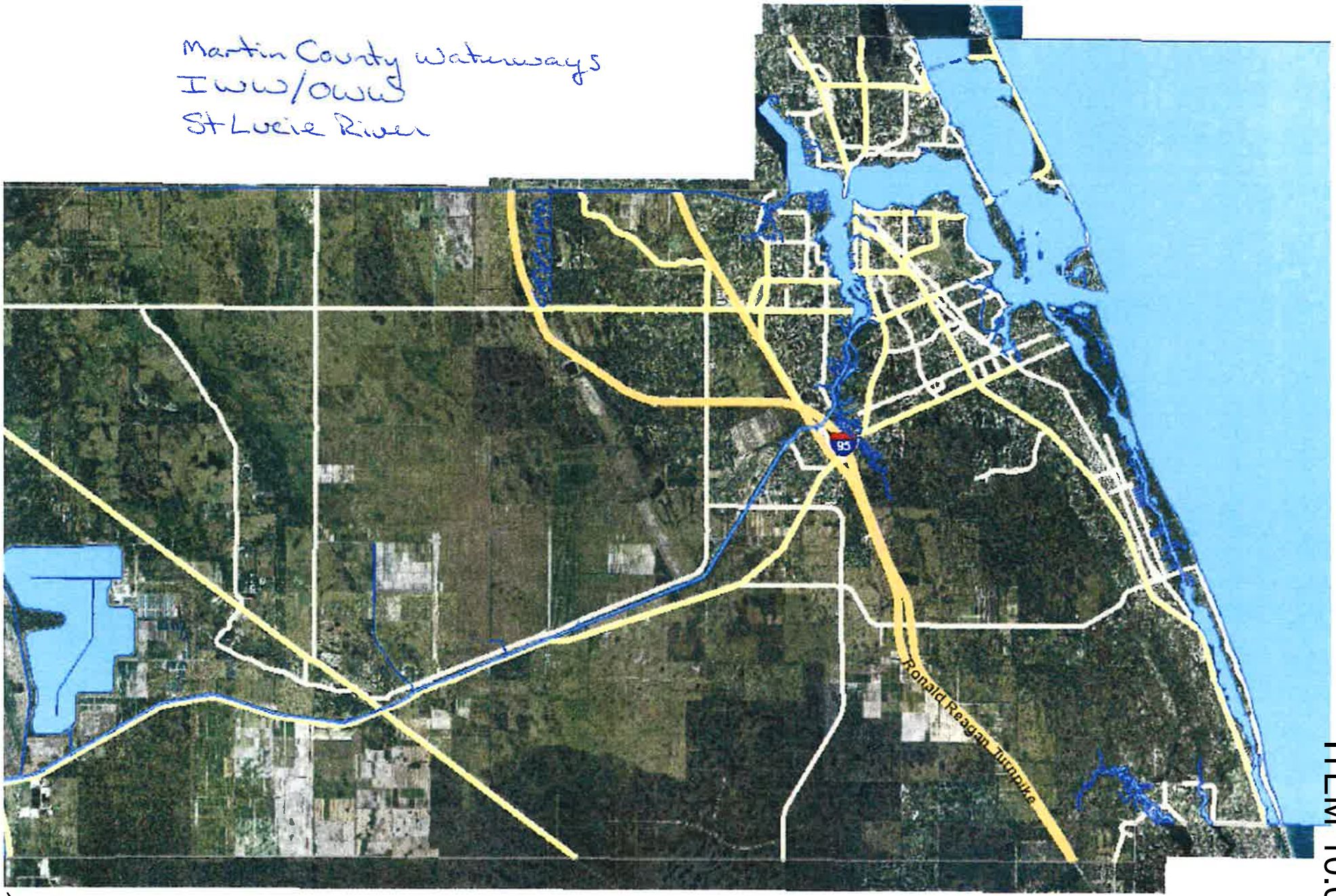
PROJECT TIMELINE

Project Title:	Martin County Sheriff's Office Marine Patrol Waterway Safety
Applicant:	Martin County Sheriff's Office

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 1st
(or be consistent with Rule 66B-2.005(3) - Pre-agreement expenses)

The vessel will be ordered immediately after the approval of funds.

Martin County Waterways
IWW/OWW
St Lucie River



ITEM 10.04

ATTACHMENT E-2

WATERWAYS ASSISTANCE PROGRAM FY 2016
PROJECT APPLICATION
APPLICANT INFORMATION – PROJECT SUMMARY

APPLICANT INFORMATION			
Applicant:	Town of Jupiter Island		
Department:	Public Safety		
Project Title:	Jupiter Island Marine Patrol Waterway Safety Program		
Project Director:	Robert Garlo	**Title:**	Chief
Project Liaison: *(if different from Project Director)*	Click here to enter text.	**Title:**	Click here to enter text.
Mailing Address:	103 Bunker Hill Road		
City:	Jupiter Island	**Zip Code:**	33455
Email Address:	rgarlo@tji.martin.fl.us	**Phone #:**	772.545.0112
Project Address:	100 River Road		

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

SIGNATURE: Robert Garlo DATE: 3/28/16

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

This project is for the construction of a boat lift along the River Road right-of-way. This is a Town owned dock with the proposed boat lift being installed parallel to the existing public safety boat lift. The proposed boat lift will be used by both the Jupiter Island Public Safety Department and the Martin County Sheriff's Department for purposes of patrolling the Intracoastal Waterway. The Martin County Sheriff's Department has committed to assign a fulltime deputy to patrol from the Public Safety dock. Both the Jupiter Island Public Safety Department and the Martin County Sheriff's Department will patrol the Intracoastal Waterway, enforce boating laws, protect marine life and provide assistance to those in distress.

Form No. 90-22, Rule 66B-2, (New 12/17/90, Rev.07-30-02, 04-24-06)

ATTACHMENT E-3 - PROJECT INFORMATION 2016

Applicant:	Town of Jupiter Island		**Project Title:**	Marine Patrol Waterway Safety Program	
Total Project Cost: $	$18,000	**FIND Funding Requested: $**	$9000	**% of Total Cost:**	50%
Amount and Source of Applicant's Matching Funds:	$9000 from the Town of Jupiter Island's general fund				

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

2. If leased or other, please describe lease or terms and conditions: The dock is owned by the Town. It is placed in the waterway by permit from DEP.

3. Once completed, will this project be insured against damage? The Town of Jupiter Island will insure the dock and lift. It will be insured under the Town's property and casualty policy with FMIT

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

5. If yes, please list:

6. 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

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

One additional law enforcement boat slip and lift.

8. Are fees charged for the use of this project? No ☒ Yes ☐

9. 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	n/a	n/a
DEP	yes	Town Engineer applied	pending
ACOE	yes	Town Engineer applied	pending
COUNTY / CITY	no	n/a	n/a

Form No. 90-22a (New 10-14-92, Rev. 04-24-06, 4-15-07)

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.

Project Title:	Jupiter Island Marine Patrol Waterway Safety Program
Applicant:	Town of Jupiter Island, FL

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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.)

14. Waterway boating safety programs and equipment

b) Explain how the project fits this priority category.

The project is for the construction of a boat lift at the 100 River Road Upiter Island Public Safety boat dock. It will be in the Town's right-of-way adjacent to an existing law enforcement slip and boat lift. The Martin County Sheriff's office and Jupiter Island Public Safety Department will both use the new slip for purposes of patrolling the Intracoastal Waterway, enforcing boating laws, protecting marine lif and providing assistance to those in distress. The Jupiter Island Marine Patrol Unit works to increase boating safety by reducing hazards and conflicts between all users of the Intracoastal Waterway (both human and marine.)

(For reviewer only)
Max. Available Score for application 44

Question 1. Range of Score (1 to 2 points)

---

2) WATERWAY RELATIONSHIP:

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

The Town of Jupiter Island is situated on a barrier island on the south end of Martin County with over 9 miles of shoreline on the Intracoastal Waterway and on the Atlantic Ocean. The boat slip will be used by Martin County and by the Town's Marine Patrol Unit to patrol 28 miles of waterway to increase boater safety, improve boater experiences and protect the marine life that shares the waterway. The slip and lift will allow both agencies to safely dock their marine patrol boats while not in use.

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

Public navigation is improved when hazards are removed, inexperienced boaters receive education and assistance, and the law is enforced. The new boat slip and lift will increase the ability to patrol, board and search watercraft, and generally enforce the law. Martin County has agreed to place a marine unit in the slip in order to regularly patrol waterways along Jupiter Island for the first time in years. Increased Marine Unit presence will increase the Town's ability to gather information on changing weather and boating conditions, greater needs for public education and wildlife populations.

(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 boat slip and lift will be used exclusively by Martin County Sheriff's Department and the Town's Public Safety Marine Unit for patrols that include areas beyond the direct shoreline of the Town, including 7 miles of uninhabited area to the north of the Town, a very popular beach recreational area at the south end of the Town, two inlets to the ocean and the adjoining 9 miles of coastal waterway. The public will benefit by increased Marine Unit protection and patrols along the Waterway. This area is heavily used by recreational boaters—both experienced and inexperienced—and all will have a safer and more enjoyable boating experience due to the additional law enforcement.

b) **Discuss the regional and local public benefits that will be provided by the project.**

Jupiter Island is located at the south end of Martin County adjacent to Palm Beach County and in an area with heavy recreational and commercial boating usage by residents of both counties—including many inexperienced renters from local marinas offering daily boat

rentals. In addition, Martin County and the Marine Unit will patrol the Hobe Sound National Wildlife Refuge and the south end sandbar—both busy recreational boating destinations that do not have federal or state law enforcement patrols. Additional law enforcement coverage by the Marine Unit will help to ensure that all boaters have a safer experience.

c) **Can residents from other counties of the District reasonably access and use the project? Explain.**

100% of the use is for the benefit of the public. Palm Beach County residents will be direct recipients of the benefits of increased law enforcement and patrol. Boaters from Northern Palm Beach County use the Jupiter Inlet to gain access to the Atlantic Ocean, frequent the sandbar in southern Martin County (300-400 boats per weekend day) and travel the Intracoastal Waterway--all activities that will be patrolled by Martin County Sheriff's Department and the Marine Unit. Additionally, boaters from all over the east coast of Florida travel along the Intracoastal Waterway and will benefit from this project.

(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 Town's Marine Unit currently has sufficient officers to man an additional boat in partnership with Martin County Sheriff's Department. The Town is prepared to construct the slip and lift immediately. When a grant contract is finalized the project will be placed for bid, a bid awarded and the installation completed—all approximately three months.

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

No delays are expected. Even if Martin County Sheriff's Department experiences delays in placement of a unit at the slip, the Town will utilize the slip for one of its Marine Units.

(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 of Jupiter Island has budgeted $9000 from its General Fund for this project and is prepared to pay any additional costs over the $18,000 budget.

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

It is not anticipated that any costs will be increased. The product has been researched the appropriate equipment and added features have been included in the purchase price. Only increased prices from the manufacturer will increase the product cost.

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

The Town commits to a full and appropriate maintenance schedule for the slip and lift to ensure that it will have use of the lift for the advertised lifespan. In addition, officers will be fully trained in use of the lift to minimize wear and tear and increase the public benefit.

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 associated with the lift or its use.

(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?

As the public boating demand on the limited resources of the Intracoastal Waterway increases, there must also be a corresponding increase in law enforcement and public safety to help ensure a positive boating experience. This boat slip and lift will accommodate the Martin County Sheriff's Department and the Town's Public Safety Marine Unit and help to reach all areas of the Waterway—from the north end to the popular south end—for law enforcement, rescues and assistance. Given the Town's location, environment and lack of commercial development, Jupiter Island is a desirable location for criminal activity, smugglers and illegal aliens arriving from the Atlantic Ocean.

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

The Town of Jupiter Island has 1 dock, 2 boats and 14 vehicles within the Public Safety Department. All of the equipment and vehicles are maintained according to the manufacturer's specifications by the Martin County Sheriff's Office Fleet Maintenance

Department pursuant to a contract with the Town. This boat lift will be placed on a regular schedule for maintenance to ensure the full lifespan is achieved. It will be insured under the Town's property and casualty policy with FMIT.

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

Increased ability to patrol the Intracoastal Waterway through another marine unit located at the 100 River Road Jupiter Island Public Safety boat dock will increase safety on the waterway. As the public boating demand on the limited resources of the Intracoastal Waterway increases, there must also be a corresponding increase in law enforcement and public safety to help ensure a positive boating experience. This boat slip and lift will accommodate the Martin County Sheriff's Department and the Town Marine Unit and help to reach all areas of the Waterway—from the north end to the popular south end—for law enforcement, rescues and assistance.

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

The Town of Jupiter Island's low density development and strict environmental guidelines have attracted a wide variety of marine and coastal wildlife to the area—including a significant population of manatees. The Marine Unit works closely with state and federal fish and wildlife officials to ensure that all species are protected from unsafe and/or unlawful waterway and boating practices.

(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)
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:

a) **Describe how the project will address particular public health, safety, or welfare issues of the Navigation District's Waterways.**

The project will allow the Martin County Sheriff's Office and the Town Marine Unit to better protect the public using the Navigation District's Waterways through increased police access, response time and aquatic agility. The new slip and lift will support a marine vessel designed for the most rigorous environments and conditions and well suited for insertion/extraction, law enforcement, search and rescue, and other first responder missions. Having increased patrols and law enforcement officers on the waterway will increase safety for boaters.

b) **How does the project provide significant benefits or enhancements to the District's Waterways?**

The Martin County Sheriff's Department and Town Marine Unit will now both patrol the waterways and extend the reach of law enforcement to better protect the public and create a safer boating experience. Having a second patrol boat will enable law enforcement to patrol both north and south areas at the same time—extending the reach of the police and making boating safer.

(For reviewer only)
(1-3 points)

---

8) EXPERIENCE & QUALIFICATIONS:

a) **List the personnel tasked with the implementation of this project, their qualifications, previous training and experience.**

Sergeant Andrew Savikas has been a Public Safety Officer on Jupiter Island since 1993 and has spent 15 of those years patrolling the 28 miles of waterways surrounding Jupiter Island. Sgt Savikas is a member of the Blue Lightning Strike Force (BLSF), a Homeland

Security Investigations sponsored task force that cross designates him to perform U.S. Customs Officer's duties. Trainings and educational briefings are a regular part of his position. He will be one of the Jupiter Island officers to use the new slip and lift. Martin County has not released the name of the officer who will utilize the slip.

b) Have the personnel participated in or received state marine law enforcement training?

Yes. Sergeant Savikas has participated in multiple state marine law enforcement trainings. Two additional personnel are Coast Guard Certified Boat Captains and have also received state marine law enforcement training.

(For reviewer only)
(1-2 points)

---

9) DELIVERABLES:

a) Describe the anticipated, long-term measurable results of implementing this project.

The long term result will be a safer boating experience in the Intracoastal Waterway and surrounding waters near the Town of Jupiter Island. Increased Marine Unit patrols and access will result in more boater education, increased ability to perform rescue missions and reduced stress on the marine environment.

b) What is the range or area of coverage for this project? Please provide a map of the coverage area.

Please see attached map. The boat slip will be used by Martin County and by the Town's Marine Patrol Unit to patrol 28 miles of waterway to increase boater safety, improve boater experiences and protect the marine life that shares the waterway. The slip and lift will allow both agencies to safely dock their marine patrol boats while not in use.

c) Does the project fulfill a particular community need?

The project will assist in reducing boater stress and conflict, increase safety on the Intracoastal Waterway and will result in a more enjoyable and safer boating experience. The Town will use this additional boat slip and lift to help reduce the risk of harm or death to anyone using the waterways.

For reviewer only)
(1-4 points)

---

10) EDUCATION:

a) What are the educational benefits (if any) of this proposed project?

Increased Marine Unit presence on the waterways will help to ensure that boaters are aware of and are following all applicable laws. The Marine Unit regularly boards boats for the purpose of inspecting and educating the public. As the Marine Unit is able to reach more boaters, it will also become aware of the need for any additional public education trainings or classes in boating safety.

b) How does the project or program provide effective public boating education or expand boater safety?

When the Marine Unit Officers stop boaters to explain the laws or boards vessels to enforce the law, it helps to make all waterway users aware of the law. The Officers often leave the boat driver with educational materials to study to ensure future compliance with all boating safety laws.

(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 2016

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

Project Title:	Jupiter Island Marine Patrol Waterway Safety Program
Applicant:	Town of Jupiter Island

Project Elements *(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)*	**Quantity or Total Estimated Cost** (Number and/or Footage etc.)	**Applicant's Cost**	**FIND Cost**
Improvements to existing boat dock to accommodate the lift	1		
Purchase and installation of boat lift	1	**$9000**	**$9000**

ATTACHMENT E-6
WATERWAYS ASSISTANCE PROGRAM 2016

PROJECT TIMELINE

Project Title:	Town of Jupiter Island Marine Patrol Waterway Safety Program
Applicant:	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 1st
(or be consistent with Rule 66B-2.005(3) - Pre-agreement expenses)

October 2, 2016-Execute contract with FIND.

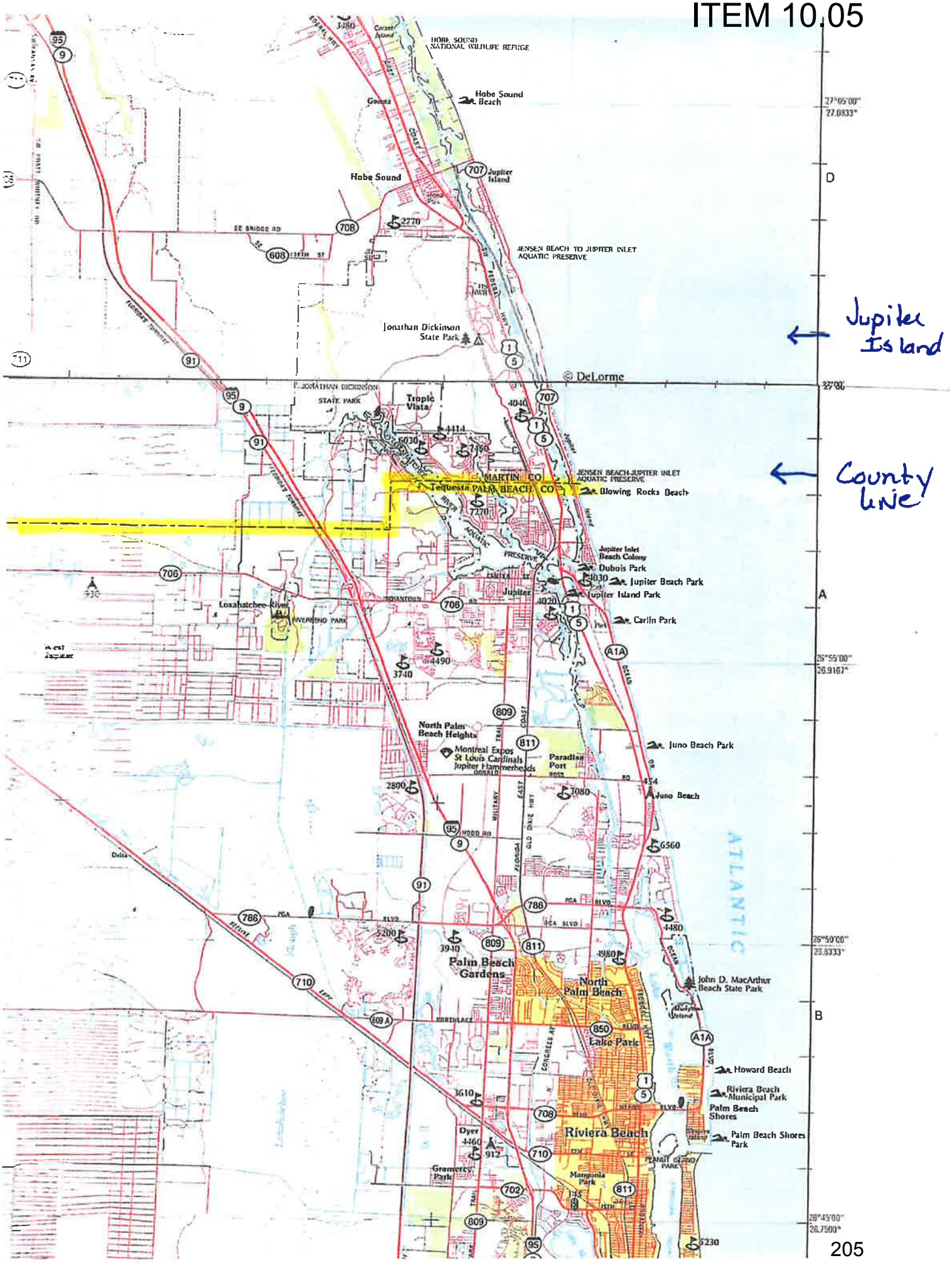
October 30, 2016-Prepare and publish bid documents for slip improvements and purchase and installation of the boat lift at 100 River Road Jupiter Island Public Safety boat dock.

November 30, 2016-Select a winning bidder and receive appropriate Town approvals for purchase.

December 15, 2016-Sign contract for slip improvements and installation of boat lift at 100 River Road Jupiter Island Public Safety boat dock.

January 30, 2017-Completion of work

February 2017-Begin use of new slip by Martin County and town of Jupiter Island Marine Unit patrol at 100 River Road Jupiter Island Public Safety boat dock.


Jupiter Island
County Line
© DeLorme
HOBE SOUND NATIONAL WILDLIFE REFUGE
Hobe Sound Beach
Hobe Sound
Jupiter Island
SE BRIDGE RD
JENSEN BEACH TO JUPITER INLET AQUATIC PRESERVE
Jonathan Dickinson State Park
JONATHAN DICKINSON STATE PARK
Tropic Vista
MARTIN CO
Tequesta PALM BEACH CO
JENSEN BEACH-JUPITER INLET AQUATIC PRESERVE
Blowing Rocks Beach
Jupiter Inlet Beach Colony
Dubois Park
Jupiter Beach Park
Jupiter Island Park
Carlin Park
Loxahatchee River
RIVERBEND PARK
Jupiter
DOWNTOWN
North Palm Beach Heights
Montreal Expos
St Louis Cardinals
Jupiter Hammerheads
Paradise Port
Juno Beach Park
Juno Beach
ATLANTIC
Palm Beach Gardens
North Palm Beach
John D. MacArthur Beach State Park
Lake Park
Howard Beach
Riviera Beach Municipal Park
Palm Beach Shores
Riviera Beach
Palm Beach Shores Park
Dyer
Gramercy Park
Mangonia Park
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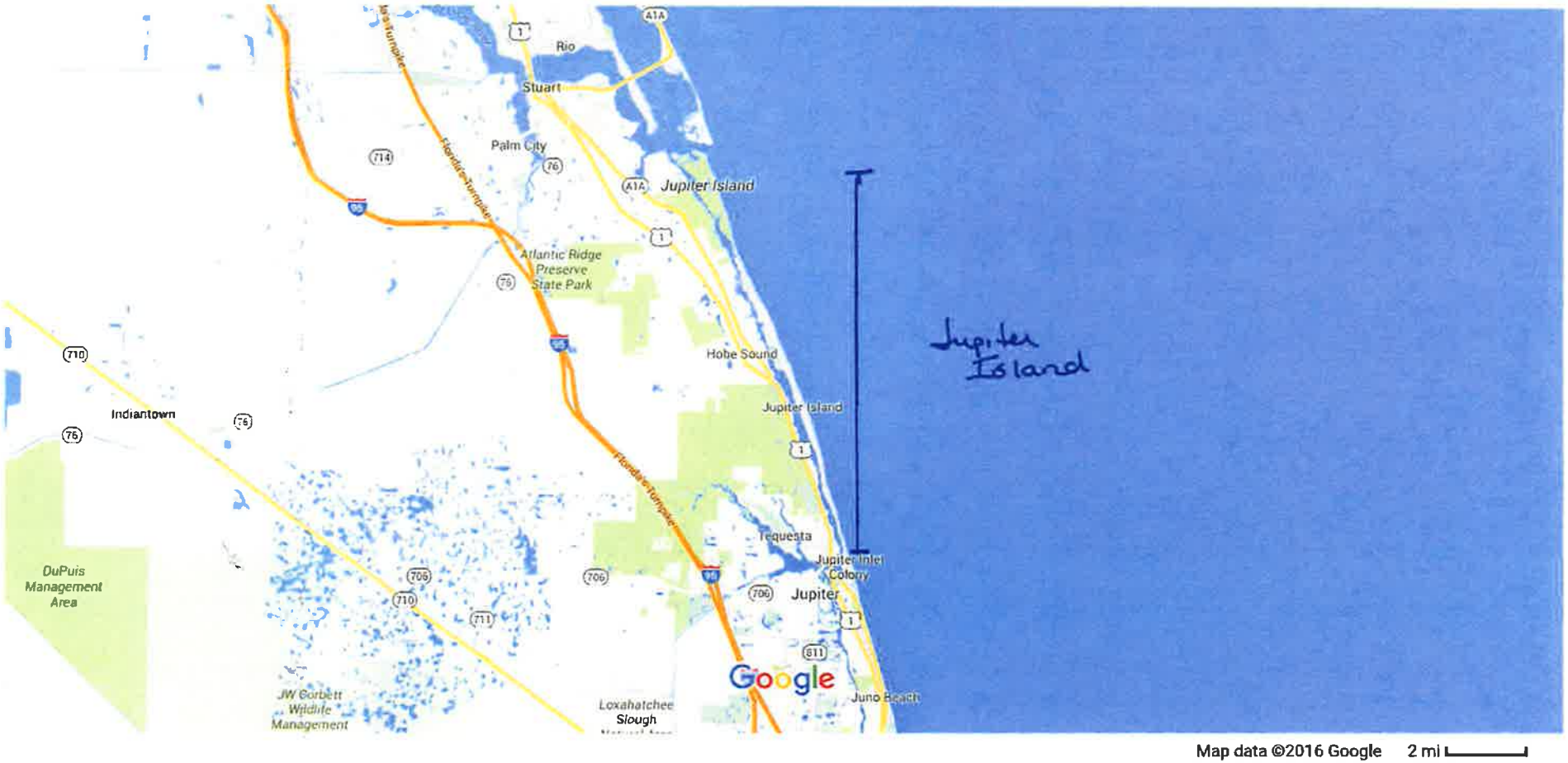
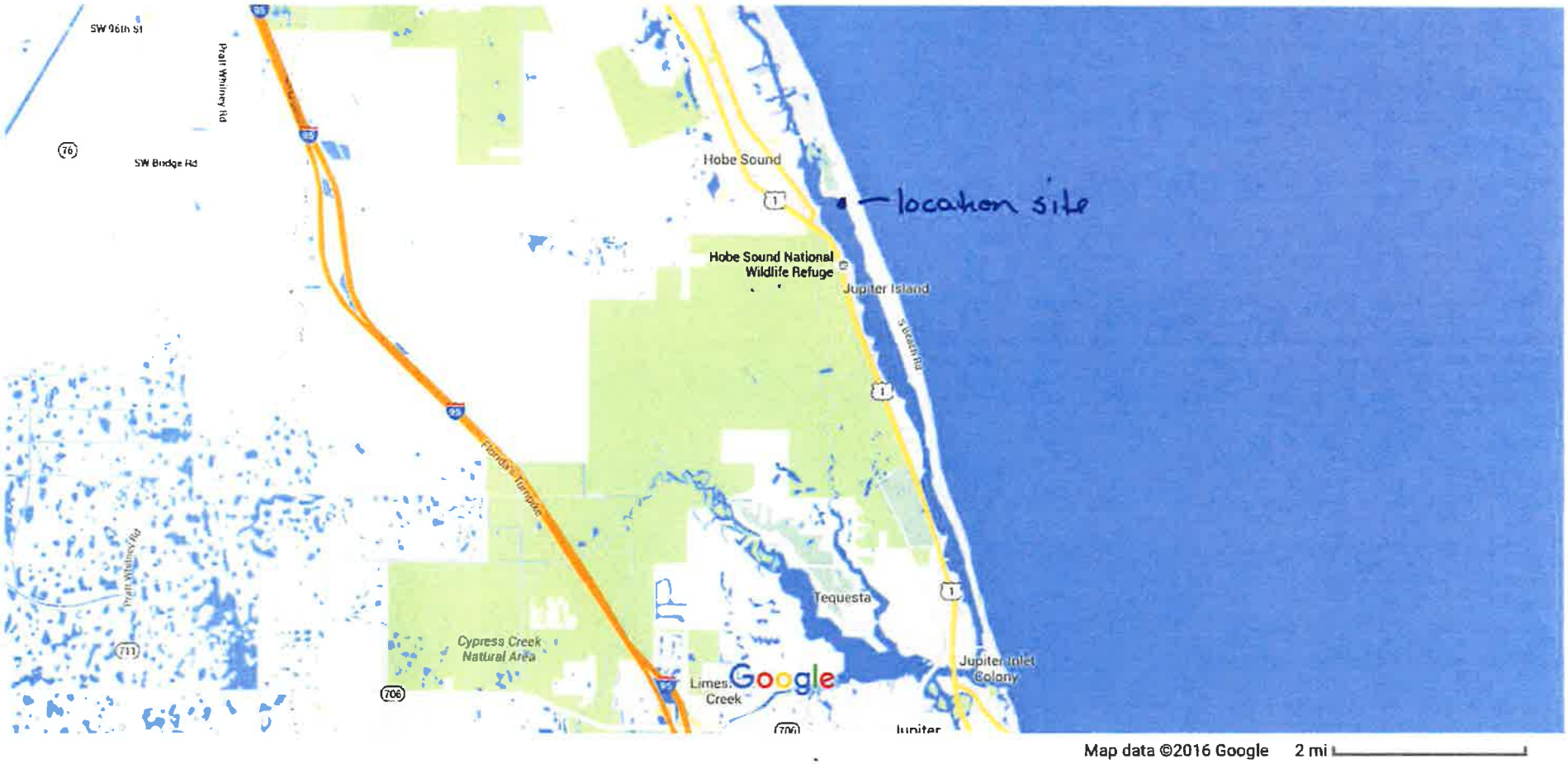
Google Maps



Google Maps

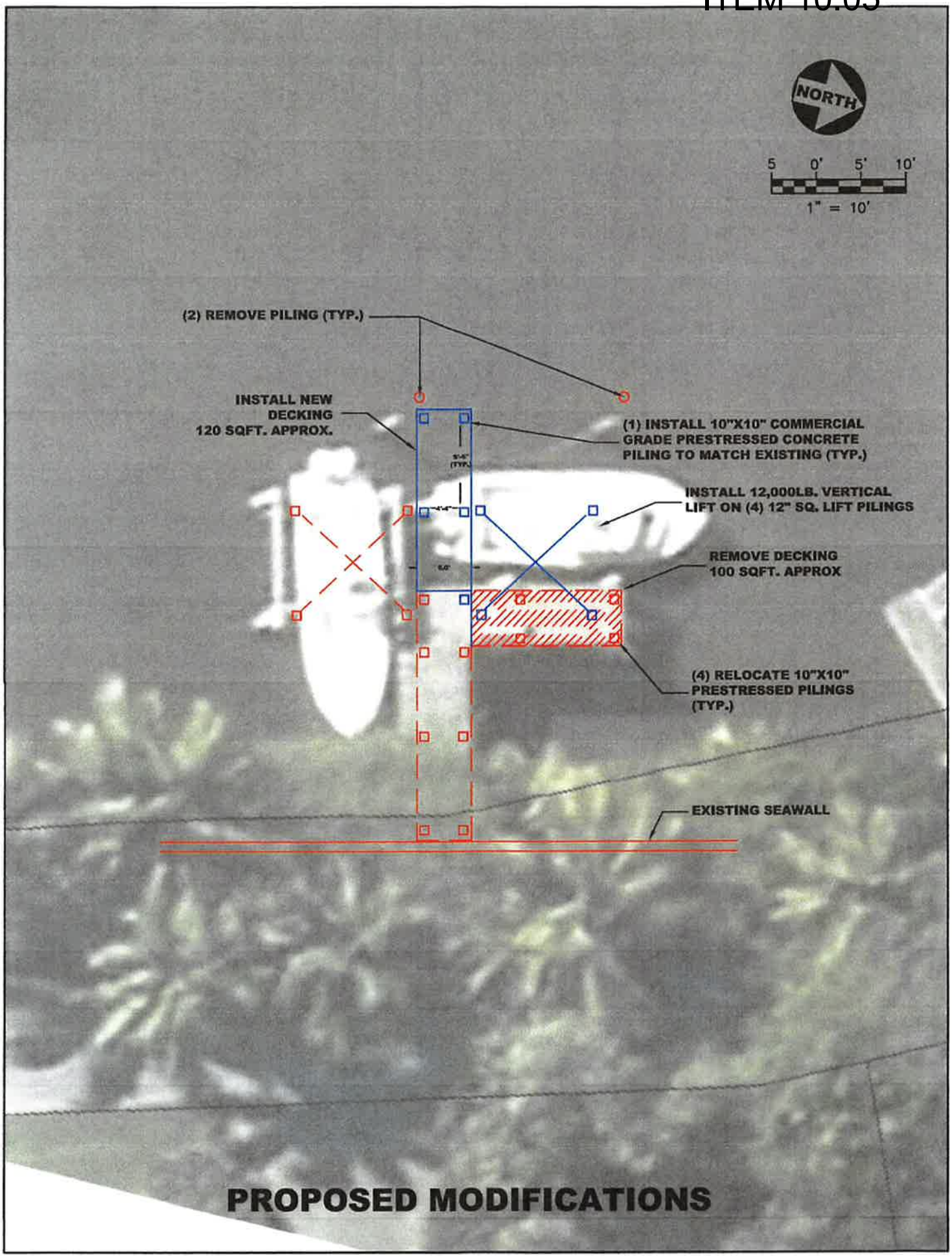
ITEM 10.05

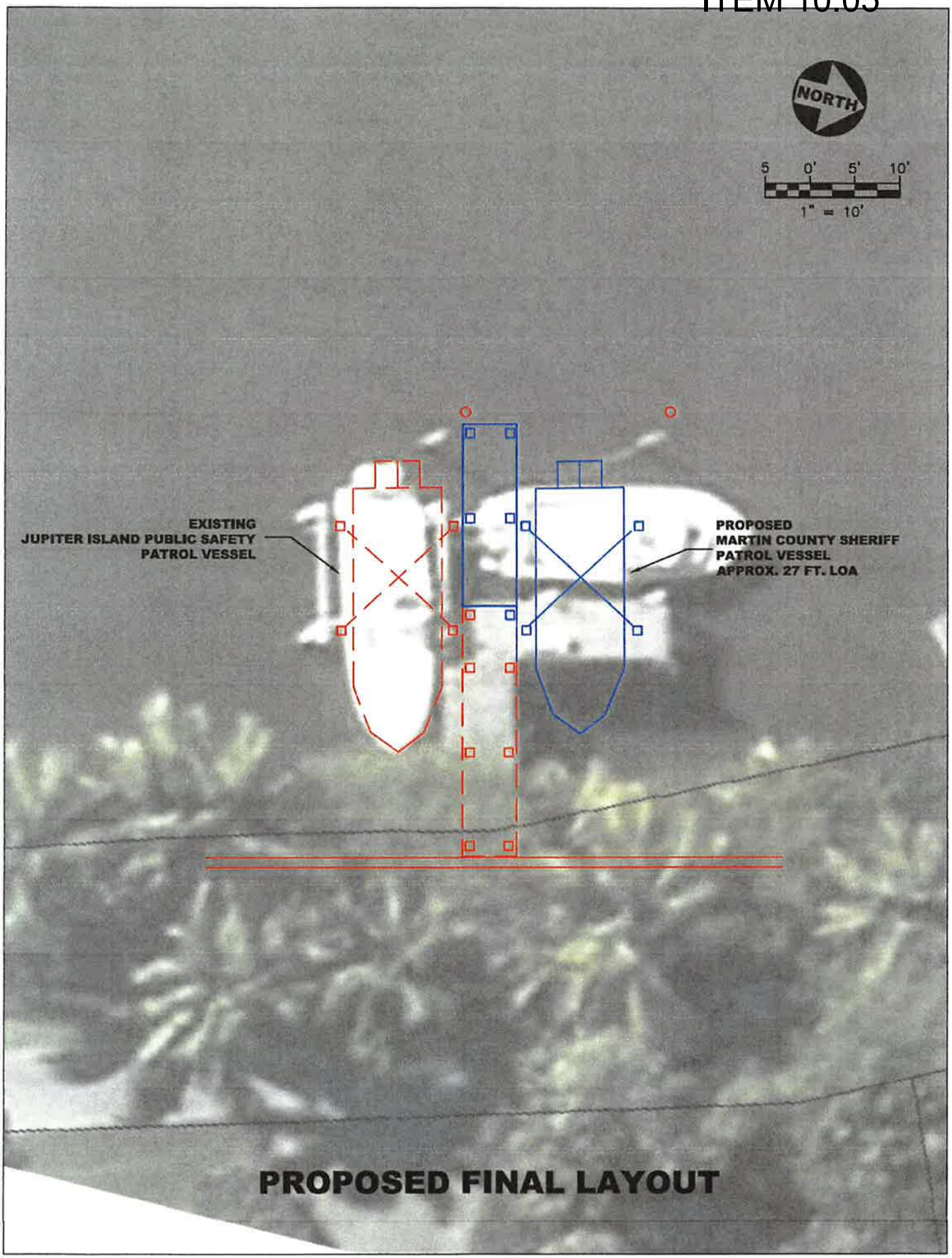
Google Maps



Google Maps

ITEM 10.05


NORTH
5 0' 5' 10'
1" = 10'
(2) REMOVE PILING (TYP.)
INSTALL NEW DECKING 120 SQFT. APPROX.
(1) INSTALL 10"X10" COMMERCIAL GRADE PRESTRESSED CONCRETE PILING TO MATCH EXISTING (TYP.)
INSTALL 12,000LB. VERTICAL LIFT ON (4) 12" SQ. LIFT PILINGS
REMOVE DECKING 100 SQFT. APPROX
(4) RELOCATE 10"X10" PRESTRESSED PILINGS (TYP.)
EXISTING SEAWALL
PROPOSED MODIFICATIONS



PROPOSED FINAL LAYOUT

ATTACHMENT E-2

WATERWAYS ASSISTANCE PROGRAM FY 2016
PROJECT APPLICATION
APPLICANT INFORMATION – PROJECT SUMMARY

APPLICANT INFORMATION			
Applicant:	City of Belle Glade - Finance Department		
Department:	Finance		
Project Title:	Waterfront Rt. 2, Waterfront Lagoon Fishing & Pavilion Lake Observation Tower		
Project Director:	Marcos Montes De Oca	**Title:**	Pubic Works Dir, City Engineer
Project Liaison: *(if different from Project Director)*	Lillian Tomeu	**Title:**	Grants/Special Proj Mgr.
Mailing Address:	110 Dr. Martin Luther King, Jr. Blvd, W		
City:	Belle Glade	**Zip Code:**	33430
Email Address:	ltomeu@belleglade-fl.com	**Phone #:**	561-992-1607
Project Address:	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: 3-30-2016

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

The City of Belle Glade is requesting Waterway Assistance Program funding to upgrade these areas: Waterfront Rt. 2 Section, the Waterfront-Lagoon Fishing Section and installation of the Pavilion Lake Observation Tower. The waterfront sections require sewer connections and the observation tower needs installation. The two waterfront sites already provide both the tournament level and the fishing enthusiast with a variety of fishing opportunities surrounding their campsites, but they lack full hook-up service. Once the fishing professionals discovered these areas, they started requesting that the missing connections be added. Campers are enthusiastic about the sites and many will currently use the two dump stations within the sections, but full hook up and the ease of use it provides is important for every site. The fingers will have bigger campsites to accommodate the larger coaches with greater access and safe mobility. The City is planning for approximately166 installations for the Waterfront Rt. 2 Section and the Lagoon Fishing Park estimated cost at $750,000. The Pavilion Lake Observation Tower will provide a relaxing activity after a day of extensive boating or fishing and it also allows the fishing enthusiast to check the winds or weather prior to heading out to Lake Okeechobee. It will be off of the Pavilion Lake path providing great views of the Lake, the surrounding wetlands and bird watching. Est. total at $850,000 with the City providing 50% of the projected costs.

Form No. 90-22, Rule 66B-2, (New 12/17/90, Rev.07-30-02, 04-24-06)

ATTACHMENT E-3 - PROJECT INFORMATION 2016

Applicant:	City of Belle Glade - Finance De	Project Title:	Waterfront Rt. 2, Waterfront Lagoon Fishi		
Total Project Cost: $	$850,000	**FIND Funding Requested: $**	$425,000	**% of Total Cost:**	50%
Amount and Source of Applicant's Matching Funds:	City of Belle Glade Funding $425,000.				

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

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

3. Once completed, will this project be insured against damage? Explain

All City of Belle Glade assets are provided with full coverage on an annual basis for the life of the asset.

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

5. If yes, please list:

PB-BG-08-129 $480,500 (construction of bulkheads,) Followed in 2009 by PB-BG-09-135 $328,770 (50% of total project cost) ADA compliant walkways, hand rails, piers, gangways 2014 Boardwalk, which just finished $434K

6. 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):

All of the boat ramps have acces to Rte 2 channel & to Lake Okeechobee. Off of Rt.2, there are two sets of boardwalks, w 3 piers (each), incl gangways, floating docks and tie up for 4 boats each, so 8 total. the largest has 3 double ramps wit 6 loading lanes and on each side of the ramps are are 2 large floating docks. There is a long fishing pier w/ docking space and a pier, gangway & floating dock on Pavilion Lake. The City is working on add'l amenities.

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

This project is not adding ramps, slips or parking spaces, it is primarily improving two large waterfront boating & fishing sections that will provide 166 sites with on-site parking space and full hookup amenities. The observation Tower does not add to ramps, slips or parking

8. Are fees charged for the use of this project? No ☐ Yes ■

9. 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		
DEP	Y	10/2015	
ACOE	Y	10/2015	
COUNTY / CITY	N		

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.

Project Title:	Waterfront Rt. 2, Waterfront Lagoon Fishing & Pavilion Lake Observation
Applicant:	City of Belle Glade - Finance Department

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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.)

12. Public waterfront parks and boardwalks and associated improvements

b) Explain how the project fits this priority category.

The fishing areas being improved are surrounded by the ICW Rt 2 channel and smaller channels that lead to other park areas within the lagoon. These water parks have electric & water, but are missing sewer connections required by the City for environmental protection. The Observation Tower provides a lookout point over Lake Okeechobee to assess the weather.

w

(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 directly relates to the ICW and the mission of the Navigation District.

The Waterfront Fishing Park and the Waterfront-Lagoon Fishing section is off the ICW Rte 2 Channel and preserving a clean environment for current & future generations is part of the FIND's mission. Observation tower allows viewing of water conditions prior to boating/fishing.

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

The purpose for attaching sewer lines to these sections, with approximately180 campsites without sewers, is to prevent motor-homes or RV's from polluting the ICW waters. Installing sewer line connections will easily prevent black water from being discharged into the waterway.

(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 City owned campground is for the public use and has been averaging approximately 200 rented sites daily & a fee for the full stay is paid up-front. The fees are similar to the FL state parks. Payment for public use provides a very accurate count of the number of sites rented, the # of days and # people at each site. Observation towers are very popular.

b) Discuss the regional and local public benefits that will be provided by the project.

Winter months visitors stay 3-6 month, averaging 8-10,000 paying customers. There is a stream of regional/local visitors that come for the day or the weekend to fish, play golf & walk the lake and birding paths. The campground system tracks/provides data on campers (4,800) during slow season & winter doubles the count. Visitors go into the city to buy groceries, shop for amenities, use the hospital, hairdressers, etc. which stimulates the economy.

c) Can residents from other counties of the District reasonably access and use the project? Explain.

YES, it is run, just like a state campground, first come, first serve and everyone pays the same rate and has to follow the same rules. The largest number of visitors are from other counties, the visitors with the longest stay are the ones that live in the northern states or Canada, with 3-6 months stays. All visitors get follow-up invitations and are offered choice sites, etc.

(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.

Permitting by TRIM Hearing 9/1/16 Contract Awarded 9/30/16
Contract Approved 10/17/16 Bid Release 01/15/17
Bid Closed & Awarded 02/15/17 Commencement Ltr 04/1/17
Construction 12 months 04/17 thru 04/18 Observation Tower is Pre-fab & installation = 9 mo

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

The City has had many permitted projects within these areas so we do not foresee permitting issues that would delay the project. The purpose of this construction is to prevent improper disposal of sewage while bringing the property's environment into a better or more desirable condition. The observation tower is fabricated and will be installed by contractors

(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 Belle Glade funding will be used to pay for 50% of the project costs for both the Observation Tower and the Sewer Connections

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

The City has been installing and/or updating existing sewer connections throughout Torry Island during the last 2 years. The campground manager has lengthy construction experience, the pipes and connectors will not be affected by site conditions.Contractors will install the tower

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

Moving forward with all the areas that did not include sewer connections, is probably the best cost efficiency for this project. The observation tower will increase safety w/view of lake boating

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 only charges for campground sites and the cost per night is $26 per night, with extended stays of rentals by month, in advance & no refund at approximately $450 per month. Area campgrounds are at a higher rate and the state rate is mid $20's / no charge for tower

(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 uses the amenities all year long & special occasions. The Belle Glade Marina is in the City's Comp plan, included in Palm Bch Cty's Comp plan and also in Treasure C. Region Plan., FDOT plans, and MPO. The community continues to have a16% unemployment rate and during off-season all of the stores, including the grocery stores, can use the visitors that follow the fishing tournaments and the families that go on vacation while school is out. The fishing in Lake Okeechobee is nationally renowned and it attracts the fishing enthusiast.

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

The City of Belle Glade insures every asset as the COs are awarded. Every department has a budget and in the case of the BG marina & campground there are several budgets that cover different services (campground, marina, maintenance, mowing services) with budget oversight from Finance. All of the projects have corresponding annual budgets in order to keep the areas maintained & in a safe and responsible manner. The City is very cognizant of the agreement's number of years of responsibilities, and previous projects can lead to new grants.

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

The installation of sewer connections will provide a significant and lasting benefit, since most of these sites have remained un-used to date. These pristine and attractive waterfront sites are the fishing enthusiast dream, the City is very excited to have the opportunity to request this project funding. The new observation tower will create a new diversion for the campground and the fishing enthusiast will be glad to have the opportunity to view the effects onthe water & wind on the lake prior to leaving the campground

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

Availability of sewer connections to sewer keeps the environment. Staff is walking the areas at all times, looking for issues or just reviewing day to day work, and a loose or unused connection would be noticed immediately, followed by the camp manager's visit. The overall environmental benefit of sewer connections, is the prevention of dumping sewage into Rt. 2 channel. The observation tower has no impact on the environment; it establishes awareness

(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? If permits are NOT required, explain why not.

All of the permits have been applied for, but as Commissioner Isiminger mentioned, they might not all be required. When FIND provided funding for the Southern Boardwalk, that whole area was permitted. The permitting is at approximately 50%, so we should be hearing in the next couple of months. The observation tower will be an as built project, since it will have a pre-constructed tower and the concrete pad with a sidewalk to the current path will have limited issues.

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.

Hurricanes and other disasters and/or new permit requirements that were not previusly foreseen

(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?

It is currently being finalized, but it will not be available prior to August/September 2016

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?

There are no unique beneficial aspects, but a lot of care and planning is being taken to ensure that construction follows design engineering, that environmental impacts are minimized at the waterfront projects.

(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 City has installed quite a few of these sewer systems, but it gets done faster with a professional with a crew. Design/eng will display how the sewer pipes are laid down the roads, the pipes going to each camp site are also laid out and all the pitpes are connected. The pipes from each section are connected to pipes from other sections and the final connection go the lift station. All has to be tested, the list is long to ensure environmental protection

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

the section that is being piped for sewer is directly on the water, so ensuring that each and every site works without leaks, especially underground, is most likely extremely important

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

n/a

(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?

Plastic piping lasts for years, butit will puncture or fracture. If heavy work is being performed there could be breakage in the pipes if they were not set into a deep trench, so care must be taken. The aluminum for the observation tower is very durable and tends to not require much maintenance, which greatly reduces the need for chemicals and cleaning solutions.

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.)

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 2016

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

Project Title:	Waterfront Rt. 2, Waterfront Lagoon Fishing & Pavilion Lake Observation Tower
Applicant:	City of Belle Glade - Finance Department

Project Elements *(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)*	**Quantity or Total Estimated Cost** **(Number and/or Footage etc.)**	**Applicant's Cost**	**FIND Cost**
Installation and Connection of approximately 166 sewer connections, that will require: Removal & Restoration of Asphalt Road Drawing, Survey, Density & Proctor Tests Dewatering with wellpoints 5K Lf PVC SDR Gravity Sew MH 2,500Lf 4' manholes 0-6' & 4' manholes 6-8' 6" PVC SDR Grav Srv Lateral 0-6'/6-8' 6" Dbl Srv Connect Core & Connct existing manholes * Pricing Estimated by Palm Beach County through Bid Tabulation	$750,000	$375,000	$375,000
Pavilion Lake Observation Tower Tower 18'.0" by 18'.0" x 25' High Eng Calcs - Mezzanine PE Sealed Drawings, Calcs & Foundatio. Installation Off-Load and erect tower	$100,000	$50,000	$50,000

****TOTALS =**	$ 850,000.00	$ 0 **$425,000**	$ $425,000

Form No. 90-25 (New 10/14/92, Revised 04-24-06)

ATTACHMENT E-6
WATERWAYS ASSISTANCE PROGRAM 2016

PROJECT TIMELINE

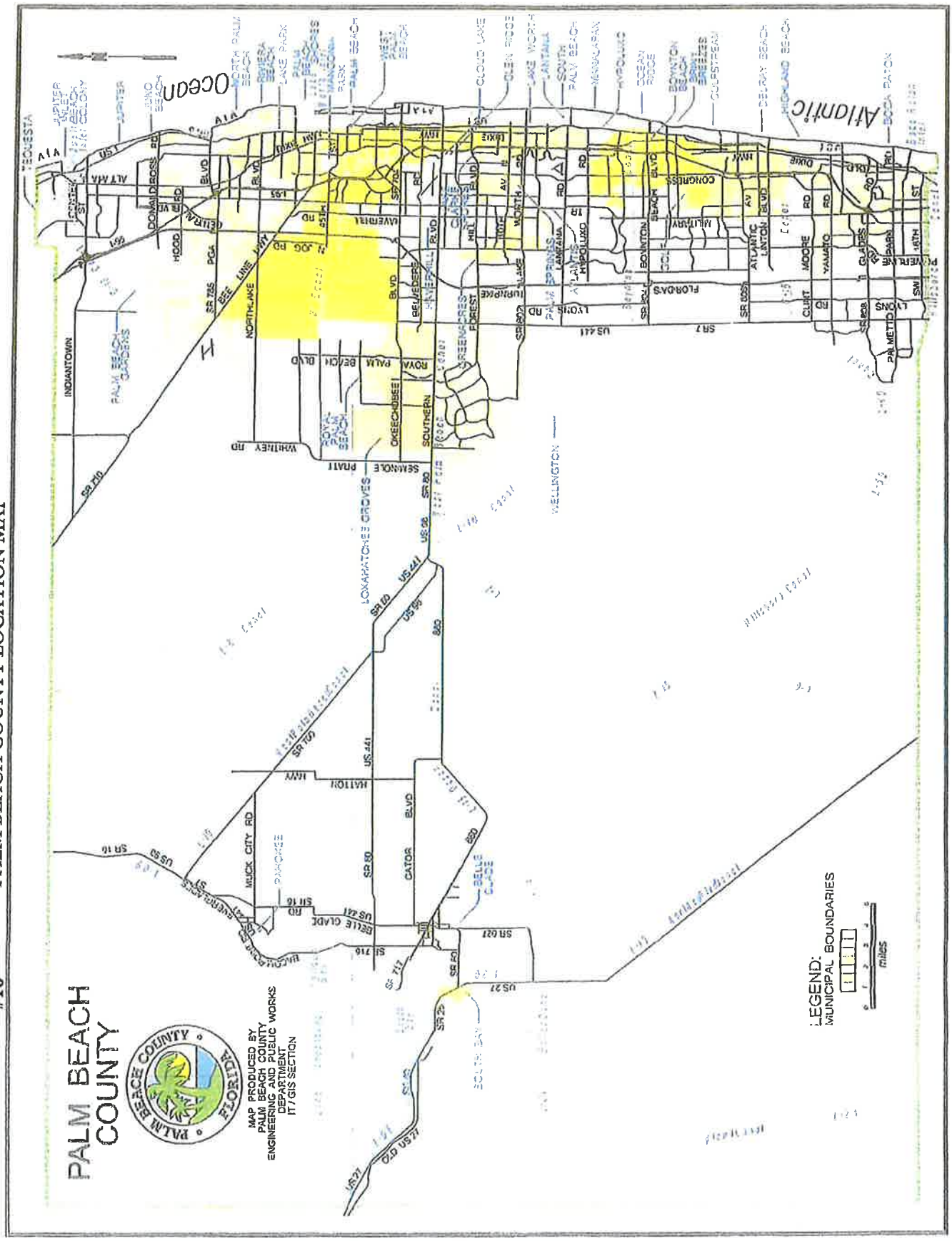
Project Title:	Waterfront Rt. 2, Waterfront Lagoon Fishing & Pavilion Lake Observation
Applicant:	City of Belle Glade - Finance Department

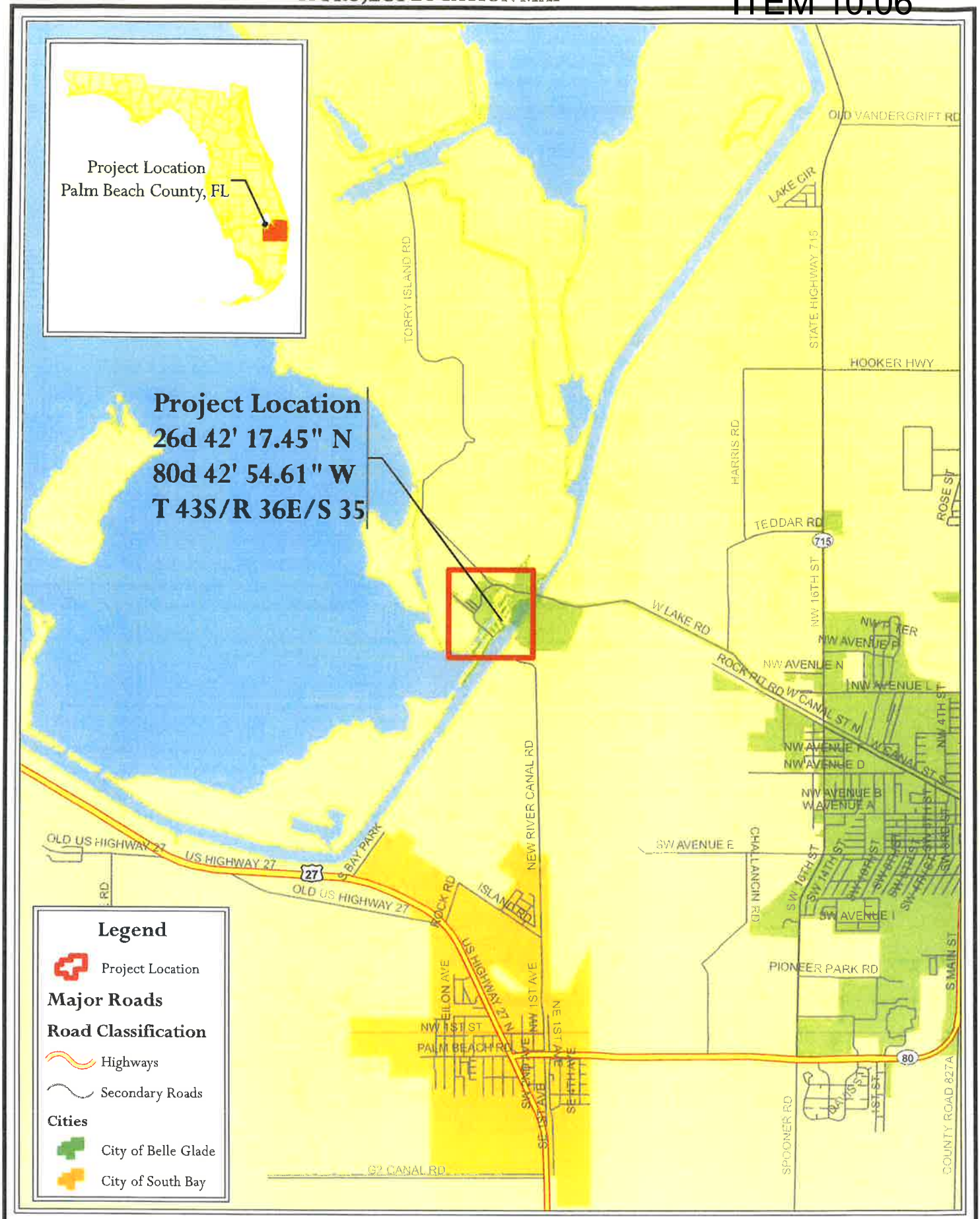
The applicant is to present a detailed timeline on the accomplishment of the components of the proposed project including, as applicable, completion dates for: permitting, design, bidding, applicant approvals, initiation of construction and completion of construction.
NOTE: All funded activities must begin AFTER October 1st
(or be consistent with Rule 66B-2.005(3) - Pre-agreement expenses)

According to FIND's timeline (which can impact the dates on the timeline i.e. contract receipt vs Commission meetings) & the submission of the City's permitting by due date, below is the estimation

Permitting by TRIM Hearing	9/01/16
Contract Awarded by FIND	9/30/16
Contract commission Approved	10/17/16
City Bid Released	01/15/17
Bid Closed & Awarded	12/15/17
Commencement Ltr	04/05/17
Construction 12 months	04/17 thru 04/18
Observation Tower is Pre-fab	
Commencement Ltr	01/05/17
Fabrication approximately 3 months	04/05/17
Installation = 1-3 mo	07/05/17

#10 PALM BEACH COUNTY LOCATION MAP





Belle Glade Marina Improvements

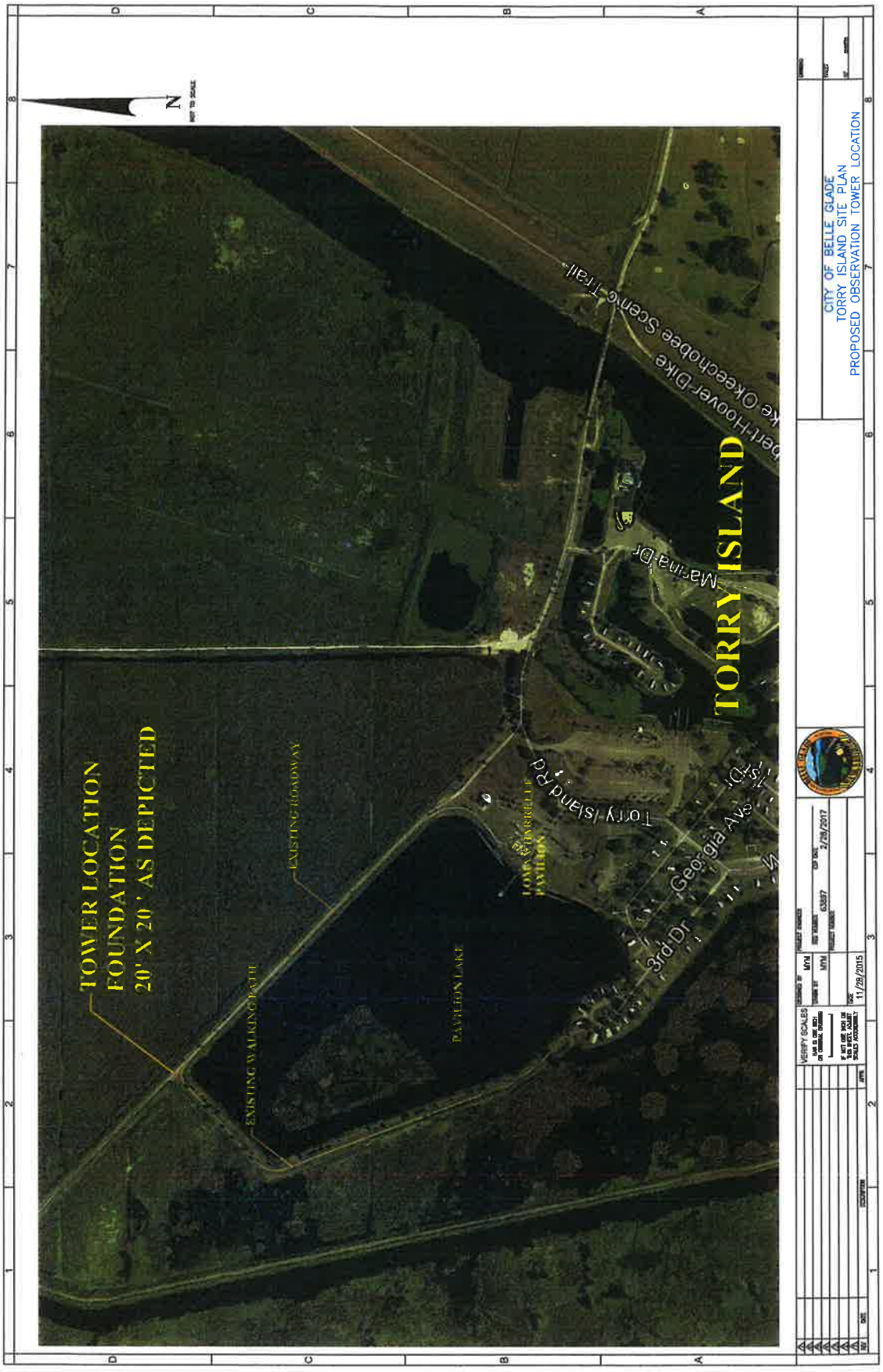
Location Map

AECOM

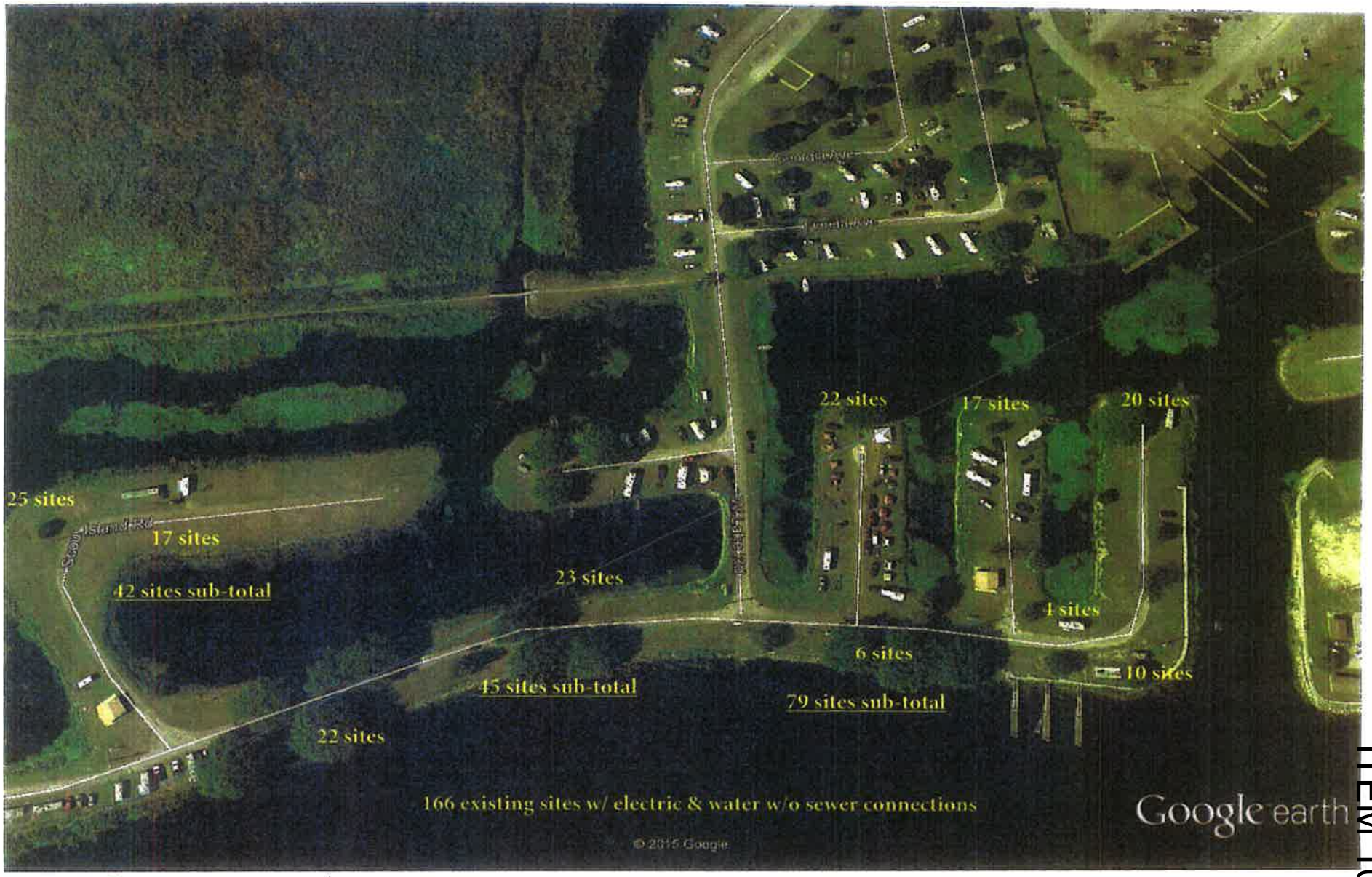
September 5, 2013

P:\60289652\400Tech Info\401 Permits\ ACOE SECTION 10\Reference Material from OLD Boyle Number for Belle Glade Marina Submitted\Location.mxd


Torry Island
Observation Tower
TORRY ISLAND
Project Location
Halifax Banks Island
South Bay
Belle Glade
Google earth
© 2015 Google
Imagery Date: 2/17/2014
1996


TOWER LOCATION
FOUNDATION
20' X 20' AS DEPICTED
EXISTING WALKING PATH
EXISTING ROADWAY
PAVILION LAKE
LOWER TORRY ISLAND PAVILION
Torry Island Rd
3rd Dr
Georgia Ave
TORRY ISLAND
Marina Dr
Herbert-Hoover-Dike
Lake Okeechobee Scenic Trail
N
NOT TO SCALE
CITY OF BELLE GLADE
TORRY ISLAND SITE PLAN
PROPOSED OBSERVATION TOWER LOCATION
VERIFY SCALES
11/28/2015
3/28/2017

#12 Detailed Site Dev. Map of 166 Waterfront Park Areas without Sewer Connections





*Note: The number of Sites might be reduced in order to increase the site size to accomodate larger RVs

ATTACHMENT E-2

WATERWAYS ASSISTANCE PROGRAM FY 2016
PROJECT APPLICATION
APPLICANT INFORMATION – PROJECT SUMMARY

APPLICANT INFORMATION			
Applicant:	City of Riviera Beach		
Department:	City Managers Office		
Project Title:	City Marina Replacement/Reconfiguration Dock G & Lifts		
Project Director:	Danny D. Jones	**Title:**	Deputy City Manager
Project Liaison: *(if different from Project Director)*	John H Sprague	**Title:**	Marina Consultant
Mailing Address:	10918 Larch Ct		
City:	Palm Beach Gardens	**Zip Code:**	33418
Email Address:	spragueconsulting@me.com	**Phone #:**	561 723-5418
Project Address:	200 East 13th st Riviera Beach Florida 33404		

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

SIGNATURE: John H Sprague _____ DATE: 03-09-16

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

This project Dock G is part of the replacement of the end of useful life city marina docks and will be located at the end of dock A going N/E parallel and next to the ICW just west of the ROW and is intended to utilize the just finished deepening of that portion of the ICW by FIND to 17ft to allow larger waterway user vessels to access PB County and Riviera Beach. This dock is part of the overall project to replace the existing with all new floating and fixed docks, maintaining the number of slips overall but increasing the length and width to meet todays demand. This project as part of the new layout and design is keeping with the overall project to date to avoid seagrass where possible and build docks that will withstand hurricane events up to Cat 3 loaded. This proposed floating dock has two (2) components. The first is the east side that will provide 345 ft of marginal dockage on the east side of the dock parallel and next to the ICW ROW. This gives the flexibility to eventually accommodate one large vessel up to 300 ft. in length or a couple of large vessels up to 150 ft, as well as ease of use to enter and leave the dock. The west side of the dock is near shallow water and resources. It has been designed to accommodate 13 vessels up to 40 ft in length on lifts. This achieves continued no resource impacts as well as fulfilling a need for lifts for vessels that are difficult at best to trailer, as well as flexibility as to vessel height for towers, provides 24 hr access by the owner to use his vessel and keeps the vessel out of the water greatly reducing maintenance costs.

Form No. 90-22, Rule 66B-2, (New 12/17/90, Rev.07-30-02, 04-24-06)

ATTACHMENT E-3 - PROJECT INFORMATION 2016

Applicant:	City of Riviera Beach		Project Title:	Marina Replacement Dock G& lifts	
Total Project Cost: $	$ 2,315.00	FIND Funding Requested: $	$ 1,157,500	% of Total Cost:	50%
Amount and Source of Applicant's Matching Funds:	City of Riviera Beach $ 1,157,500				

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

2. If leased or other, please describe lease or terms and conditions:
Deed of Dedication from State of Florida.

3. Once completed, will this project be insured against damage? Explain
Yes, plus the marina received a Cat 3 Hurricane warranty from the dock manufacturer.

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

5. If yes, please list:
Engineering and participation on all components of the replacement/reconfiguration to date.

6. 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

7. How many additional ramps, slips, parking spaces or other access features will be added by this project?
Dock G will add 345 ft of marginal dockage for large vessels and 13 slips for up to 40 ft boats and 18 lifts. Also has over 1,000 ft of very wide public boardwalk along the waterfront directly in front of the marina.

8. Are fees charged for the use of this project? No ☐ Yes ☒

9. If yes, please attach additional documentation of fees and how they compare with fees from similar public & private facilities in the area.
See attached marina rate comparison study.

Please list all Environmental Resource Permits required for this project:

AGENCY	Yes / No / N/A	Date Applied For	Date Received
WMD	Click here to enter text.	Click here to enter text.	Click here to enter text.
DEP	Yes	April 2015	September 2015
ACOE	Yes	April 2015	Pending
CITY	Yes	Contractor will apply for	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.

Project Title:	Marina Replacement/reconfiguration Dock G and Lifts
Applicant:	City of Riviera 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.)

8 Acquisition, dredging, shoreline stabilization and development of public boat docking and mooring facilities;

b) Explain how the project fits this priority category.
Building 13 new 40 ft slips with 10 ton lifts and 6 additional lifts, 345 ft of margional dockage for very large vessels utilizing the newly adjoining FIND ICW 17ft deepening project. In addition installing 6 lifts in 6 existing 40 ft. slips. 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)

---

2) WATERWAY RELATIONSHIP:

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

Provides needed dockage, 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 and of this portion of the ICW. In addition this project is around the corner from the deep water Palm Beach Inlet that adds waterway users from the ocean to the ICW as well.

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

It is a 100% open to the public marina with marginal dockage as well as an assortment of size slips with dedicated transient dockage. It also houses many types of charter vessels, fishing, diving, rentals and water taxis. This portion of the ICW is very busy as it intersects the Port of Palm Beach turning basin and the Palm Beach deep water inlet and this facility will assist in the utilization of the FIND navigation deepening project just completed for large vessels up to 17 ft of draft. The marina accommodates sizes from kayak rentals, slips to 70 ft. and marginal dockage to 275 ft., as well as supplying services and provisions at or close by the marina.

(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 marina currently turns down large vessels that wish to berth on a continue basis. In discussions with other marina facilities and industry consultants in south Florida, lifts for large center console boats are in high demand and short supply. The many charter, rental boats and water Taxi to Peanut Island, dinner and site sighting vessels all offer the general public access to the ICW, the ocean and the many things they offer. Onsite activities such as the newly constructed event center and improvements to the park as part of the overall marina development offers dockage customers and their visitors other venues and activities.

b) Discuss the regional and local public benefits that will be provided by the project

The Riviera Beach Marina offers easy access for waterway users coming from the south and north or from the ocean. Within a 15 mile radius it offers the public access to world shopping opportunities from world renowned Palm Beach shops to the Gardens Mall, to downtown West Palm Beach, offering fine restaurants, museums, shopping, plays, concerts, and bringing the public to enjoy these activities provides substantial economic benefits and jobs to the local and regional businesses. Riviera Beach hosts the largest collection of repair and marine companies in Palm Beach County who service vessels that utilize the ICW.

c) Can residents from other counties of the District reasonably access and use the project? Explain.

Visiting residents from everywhere are welcome and can access this facility easily as the facility is located 100 ft. off the ICW and just inside the Palm Beach Inlet if they come from the ocean. The facility also provides charter boats for residents who visit and do not own a boat to enjoy the water.

(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.

Based on progress to date we expect out final permit prior to the FIND deadline, expect to go to bid by the end of the year and complete construction by the end of 2017 for this dock and lifts.

b) 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 continuing with the same team that have identified and dealt with any and all problems that we have encountered during the previous construction process. This team should be able to avoid or anticipate repeated issues and problems prior to their occurrences which will lead to an on time and in budget completed 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 50% required match will be coming from the City of Riviera Beach $ 1,157,500

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 location of this dock has easy access for the contractor and construction should not interfere with marina operations.

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

The City again purchasing materials such as docks and pilings directly, thereby saving markups and sales tax, which is considerable as to cost efficiency.

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.

(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 marina provides access to vessels that need and will now utilize the many marine companies that are located in the city for provisions and repairs. The vessels will utilize the many stores and other services available to them while at the marina. The addition of these visiting vessels will generate additional economic impact to the community. This marina is identified in many marina reference materials both written and on line, including government and private sources.

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

The City has and will maintain an Enterprise Fund set up to use to maintain the facility.

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 waterway user, the businesses that will be utilized by vessel users and the general public for more than the required 20 years. The marina also carries a Cat 3 hurricane warranty.

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. It also has covered trash receptacles and dock boxes throughout the marina to avoid trash and other articles from being blown overboard.

(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? If permits are NOT required, explain why not.
Yes we have received the DEP permit and we believe we are very close in receiving the USACE permit for this dock.

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.
Not a Phase 1 project

c) Detail any significant impediments that may have been identified that would potentially delay the timely issuance of the required permits.
We have been dealing with seagrass in close proximately to the west which even though our seagrass study says we are not over the boats being outboard (little draft) and up on lifts for sunlight we believe will allow NMFS and USACE to timely permit the construction.

(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?

Layout has been completed and was modified for seagrass avoidance.

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?

Wide, safe and stable concrete floating docks that allow easy boarding and loading of provisions and Equipment. Avoidance of seagrass, bottom of docks will provide growth of habitat for fish and other critters. This basin flushes well due to close proximately to the inlet. Reduced costs are due to the way the city purchases the docks directly advoiding markup and sales tax, however more costly at point of purchase due to size, durability and hurricane hardening but saves in the longevity of all the products used.

(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 and based on a wave energy study that provides data to assist engineering that will dictate the number, length and thickness of steel pilings that hold the docks in place. Pilings will also undergo lateral load testing at the site of the dock. The steel piles will require vibratory hammers due to the size and length of the pilings. The dock sections will be towed by tug to the site and installed one at a time.

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.

Dealing with this size of pilings 24 in by 70 ft. and concrete dock sections this size require large heavy equipment to handle and install which costs more and takes more time to install.

(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?

Concrete dock sections more than 20 years with no decking replacements, withstands major storm events compared with wood structures. Steel pilings have tremendous lateral load strength compared to concrete or wood pilings. Steel piles will be epoxy coated with an expected life of better than 20 years.

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

Concrete wave attenuating docks along with large steel pilings cost more in the front end but provide savings in maintenance costs and last longer than other 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.)

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 2016

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

Project Title:	Marina Replacement/Reconfiguration Dock G and Lifts
Applicant:	City of Riviera Beach

Project Elements *(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)*	**Quantity or Total Estimated Cost** (Number and/or Footage etc.)	**Applicant's Cost**	**FIND Cost**
Contractor Mobilization and Demobilization	$ 75,000	50% $ 37,500	50% $ 37,500
Docks - Furnish and Install - includes structures, piles, cleats, boat lifts and accessories	$ 1,400,000	50% $ 700,000	50% $ 700,000
Pier A Boat Lifts – (6) Total	$150,000	50% $ 75,000	50% $ 75,000
Utilities and Fire Protection - includes water, sewer, electric, cable and fire	$ 440,000	50% $ 220,000	50% $ 220,000
Construction Layout and Final Asbuilts	$ 25,000	50% $ 12,500	50% $ 12,500
Environmental Control Measures	$ 25,000	50% $ 12,500	50% $ 12,500
City Permits, Bonds and Licenses	$ 50,000	50% $ 25,000	50% $ 25,000
Construction Administration / Project Management	$ 150,000	50% $ 75,000	50% $ 75,000
**** TOTALS =**	**$2,315,000**	**$1,157,500**	**$1,157,500**

Form No. 90-25 (New 10/14/92, Revised 04-24-06)

ATTACHMENT E-6
WATERWAYS ASSISTANCE PROGRAM 2016

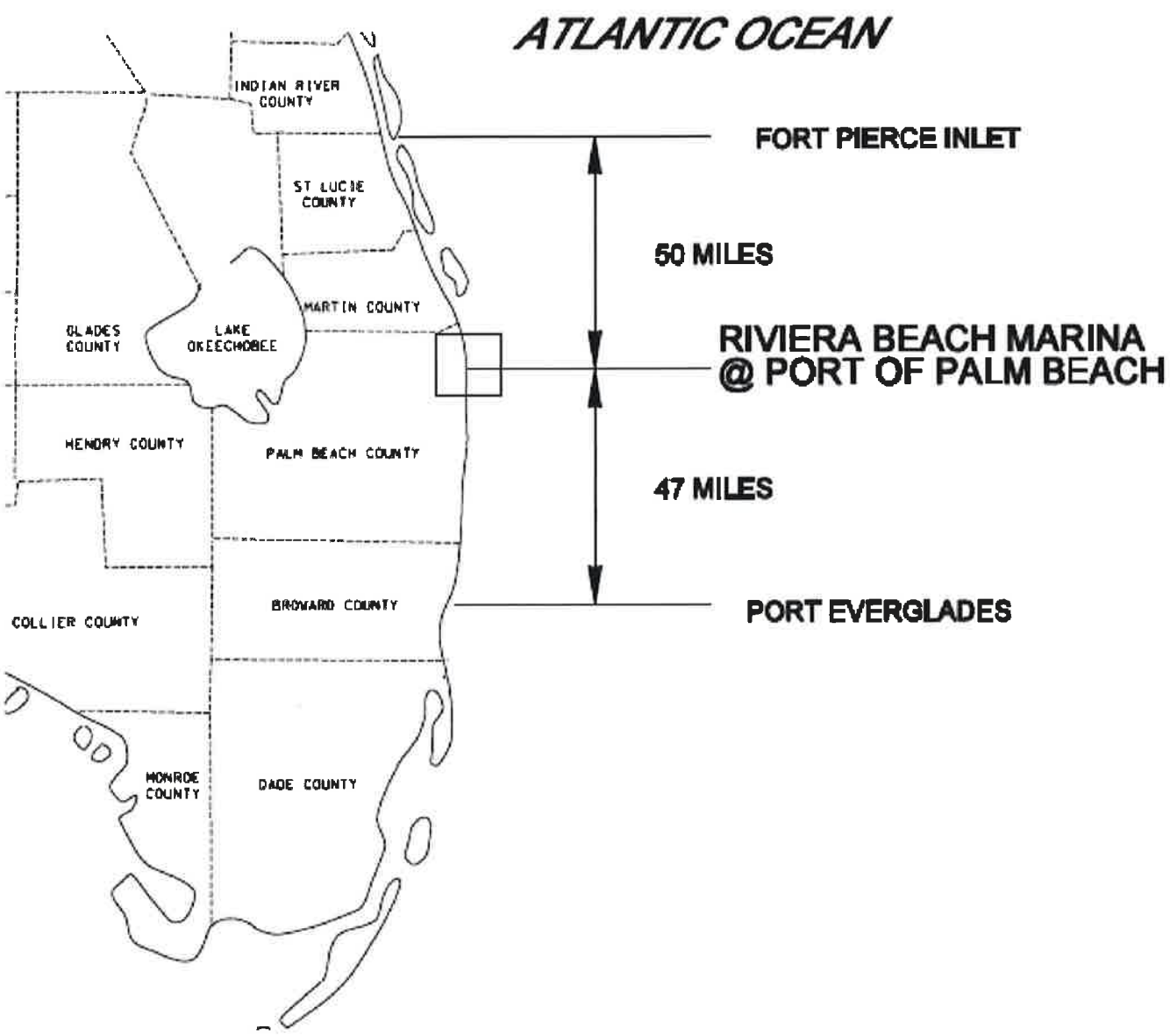
PROJECT TIMELINE

Project Title:	Marina replacement/reconfiguration Dock G & Lifts
Applicant:	City of Riviera 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 1st
(or be consistent with Rule 66B-2.005(3) - Pre-agreement expenses)

Phase II.B – Marina Replacement / Reconfiguration – Pier G and Lifts

October 1, 2016:	Commence with Preparation of Bid Documents
January 2, 2017:	Advertise for Bids
March 1, 2017:	Contractor / Manufacturer Selection and Award of Contract
April 1, 2017:	Shop Drawings Complete – Commence Dock Manufacturing
July 1, 2017:	Dock Manufacturing Complete – Contractor Mobilization
December 30, 2017:	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 2016	Sheet: 2
Drawn by:	W.T.S.	
Checked by:	W.T.S.	
Scale:	N.T.S.	CADD ID:

SH-2.PROXIMITY MAP.dgn 3/31/2016 3:55:11 PM SEA DIVERSIFIED INC.



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 2016	Sheet: 3
Drawn by:	W.T.S.	
Checked by:	W.T.S.	
Scale:	N.T.S.	CADD ID:

SH-3.AERIAL.LOCATION.DGn 3/31/2016 4:01:44 PM SEA DIVERSIFIED INC.



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 2016
Drawn by:	W.T.S.
Checked by:	W.T.S.
Scale:	N.T.S.

Sheet: 4

CADD ID:

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RIVIERA BEACH MARINA - 2009
PRE-FIND PARTICIPATION



RIVIERA BEACH MARINA
PHASE I - 2012 / 2013



RIVIERA BEACH MARINA
PHASE II - 2013 / 2015

CITY OF RIVIERA BEACH MARINA IMPROVEMENTS

PRE-FIND VS. MARINA PHASES I & II

PALM BEACH COUNTY, FLORIDA

Revisions:

SEA DIVERSIFIED, INC.
Surveying and Engineering Applications

21 NW 2nd STREET
Delray Beach, Florida 33444

Date:	MARCH 2016	Sheet: 5
Drawn by:	W.T.S.	
Checked by:	W.T.S.	
Scale:	N.T.S.	CADD ID:

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FIND PARTICIPATION TO DATE:

BULKHEAD REPLACEMENT
PROMENADE DOCK
PIERS A, A1, B, C, D AND D1
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 2016	Sheet: 6
Drawn by:	W.T.S.	
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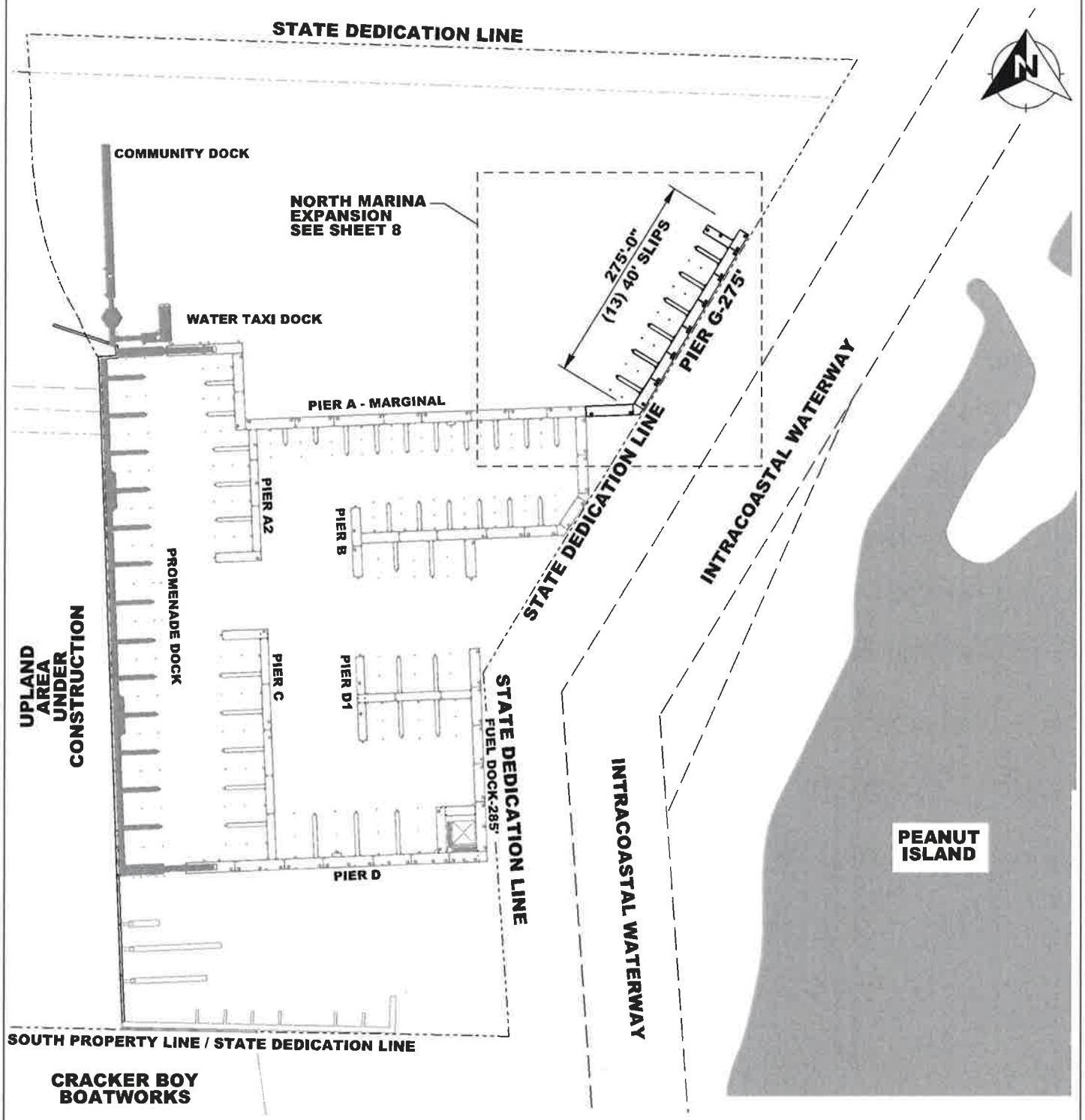

CITY OF RIVIERA BEACH
MARINA IMPROVEMENTS

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

Date:	MARCH 2016	Sheet: 7
Drawn by:	W.T.S.	
Checked by:	W.T.S.	
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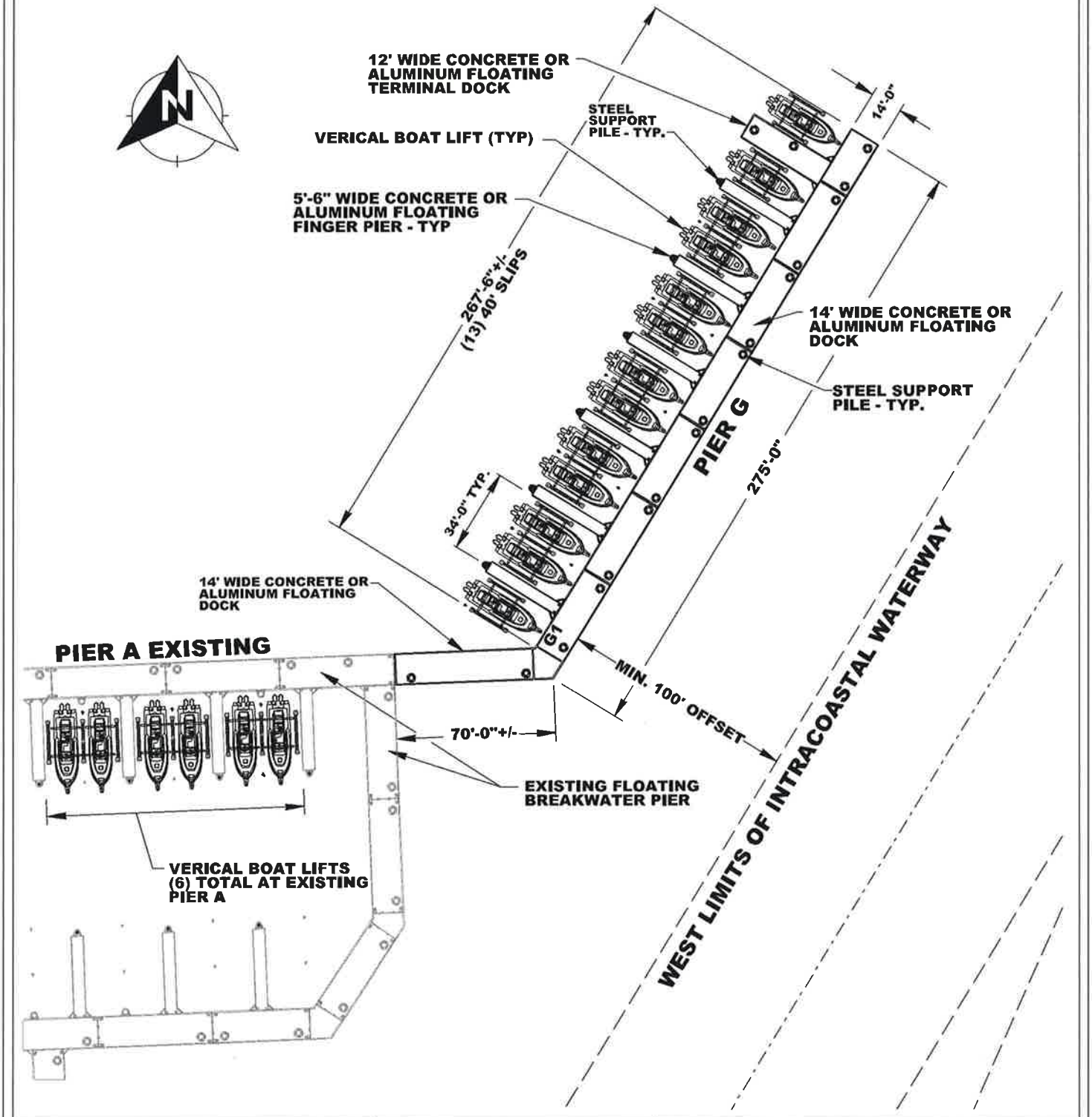

CITY OF RIVIERA BEACH
MARINA IMPROVEMENTS

PROPOSED PIER G W/ LIFTS
LIFTS AT EXISTING PIER A

PALM BEACH COUNTY, FLORIDA

Revisions:

SEA DIVERSIFIED, INC.
Surveying and Engineering Applications
21 NW 2nd STREET
Delray Beach, Florida 33444

Date:	MARCH 2016	Sheet: 8
Drawn by:	W.T.S.	
Checked by:	W.T.S.	
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ATTACHMENT E-2

WATERWAYS ASSISTANCE PROGRAM FY 2016
PROJECT APPLICATION
APPLICANT INFORMATION – PROJECT SUMMARY

APPLICANT INFORMATION			
Applicant:	City of West Palm Beach		
Department:	Parks and Recreation		
Project Title:	Currie Park Boat Access Improvement Project-Phase 2		
Project Director:	Geraldine Muoio	**Title:**	Mayor
Project Liaison: *(if different from Project Director)*	Leah Rockwell	**Title:**	Parks & Recreation Director
Mailing Address:	401 Clematis St.		
City:	West Palm Beach	**Zip Code:**	33401
Email Address:	lrockwell@wpb.org	**Phone #:**	561-804-4900
Project Address:	2400 North Flagler Drive, West Palm Beach		

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

SIGNATURE: Geraldine Muoio DATE: 3/29/16

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

Currie Park provides the only public access salt water boat ramp in West Palm Beach. The six (6) Currie Park docks and boat ramps are heavily used by Palm Beach County and surrounding residents needing access to the Atlantic Intracoastal Waterway (ICW) and Lake Worth Inlet. The ramps are also used by retail marine dealers, law enforcement agencies and commercial marine contractors.

This Improvement Project includes:
a) Construction and installation of two staging docks, north and south of the ramp basin that will allow vessels to load/unload without blocking the ramp
b) Dredging of the channel leading to the ICW from the boat ramp basin to improve access to the boat ramps
c) Channel markers leading to the ICW from the boat ramp in order to protect shallow seagrass areas
d) Dredging of the channel leading from the ICW to the existing water taxi dock at the Maritime Musuem
d) Channel markers leading to the ICW from the water taxi dock

Form No. 90-22, Rule 66B-2, (New 12/17/90, Rev.07-30-02, 04-24-06)

CITY ATTORNEY'S OFFICE
Approved as to form and legality
By

ATTACHMENT E-3 - PROJECT INFORMATION 2016

Applicant:	City of West Palm Beach		**Project Title:**	Currie Park Boat Access Improvement-Phase 2	
Total Project Cost: $	**$856,000**	**FIND Funding Requested: $**	**$428,000**	**% of Total Cost:**	**50%**
Amount and Source of Applicant's Matching Funds:	City of West Palm Beach share will be a combination of ** a) General Fund cash b) Other State agency grants ** *(Revised May16, 2016)*				

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

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

3. Once completed, will this project be insured against damage? Yes Explain The City is self-insured.

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

5. If yes, please list: PB-WPB-89-6 Currie Park Improvements Phase I; PB-WPB-90-10 Currie Park- Phase II; PB-WPB-12-168 Currie Park Fishing Piers; PB-WPB-00-92 Currie Park Boat Launch & Bulkhead Improvements; PB-WPB-09-143 Currie Park Boat Improvement; PB-WPB-98-69 Maritime Museum Dock & Building; and PB-WPB-12-167 Boat Access Improvements Phase 1

6. 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): Currie Park currently has 6 ramps, a combination of 129 car or trailer parking stalls, three fishing piers, Water Taxi dock, Maritime Museum and museum dock.

7. How many additional ramps, slips, parking spaces or other access features will be added by this project? The project provides for continued and improved access to the existing 6 boat ramps and Water Taxi dock. Currently these ramps and dock have limited accessibility at low tide and by larger boats due to a build-up of slit in the boat ramp basin and Water Taxi channel.

8. Are fees charged for the use of this project? No ☒ Yes ☐

9. If yes, please attach additional documentation of fees and how they compare with fees from similar public & private facilities in the area. No fees are charged for used of this facility at this time.

Please list all Environmental Resource Permits required for this project:

AGENCY	Yes / No / N/A	Date Applied For	Date Recieved
WMD	NO	N/A	Click here to enter text.
DEP	YES	July 2015	January 2016
ACOE	YES	July 2015	pending
COUNTY / CITY	NO	N/A	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.

Project Title:	Currie Park Boat Access Improvement Project-Phase 2
Applicant:	City of West 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 ramps and launching facilities.

b) Explain how the project fits this priority category.
The Currie Park Boat Access Improvement Project will improve access to the only public boat ramps in the City of West Palm Beach by the dredging and removal of silted material in the boat basin immediately adjacent to the public boat ramps and in front of the water taxi dock near the Maritime Museum. Currently during low tide, the boat ramps are inaccessible to many boaters needing to launch or remove their boats from the ICW at this location. In addition, the Project includes delineation of navigation channels to the ICW from the boat ramp, and the addition of staging docks in the boat ramp basin to increase capacity of the boat launching facility.

(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 directly relates to the ICW and the mission of the Navigation District.

The Project is located along the Atlantic Interacoastal Waterway (ICW) within the waterfront area of downtown West Palm Beach. Currie Park is the only public access salt water boat ramp in West Palm Beach and its existing 6 ramps are heavily used by Palm Beach County and surrounding residents needing access to the ICW. The project directly relates to the ICW and the mission of the Florida Inland Navigation District by ensuring continued and improved access to the ICW by the boating public.

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

The Project is located along the ICW in downtown West Palm Beach and will directly benefit access to the ICW by dredging excess material in the boat basin immediately adjacent to the public boat ramps and in front of the water taxi dock near the Maritime Museum. Access to the ICW is currently limited during low tide as built-up silted material blocks access to both the boat basin and Water Taxi Dock located near the Maritime Museum.

(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 Currie Park Boat Ramp is the only public access salt water boat ramp in West Palm Beach and is heavily used by the area boaters. With a 2010 population of 1,320,134, Palm Beach County faces an increasing demand for boat ramp access. This project provides for increased demand in the number and type of watercraft. The proposed staging docks will be added on both sides of the ramp basin to free up ramp suraces by new loading/ unloading docks during times of heavy use.

b) Discuss the regional and local public benefits that will be provided by the project.

The Currie Park Boat Ramp is the only public access salt water boat ramp in West Palm Beach. The facility provides a much needed access point for area boaters and visitors to the region.

c) Can residents from other counties of the District reasonably access and use the project? Explain.

Yes, all areas are designed for public access. The City of West Palm Beach hosts over 100 events in its downtown area that attract visitors from around the entire State of Florida and United States.

(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 City of West Palm Beach has initiated the preliminary design, completed hydrographic and seagrass surveys, completed a preliminary cost estimate of the project, and received FDEP permits for construction. The next step in our process is to finalizine design plans, bid the improvements and begin construction.

b) **Briefly explain any unique aspects of this project that could influence the project timeline.**
The City is not anticipating any unique aspects that could influence the project timeline that have not already been built into the project schedule.

(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.**

Funding for the project will be provided from the City General fund budget, from in-kind services provided by City staff during the design, bidding and construction of the project. In addition, the City will seek grants from other governmental agencies.

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

As there are no unique conditions or materials proposed by this project, no significant cost increases are anticipated.

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

The City has implemented cost-effective procurement practices to maximize project cost savings.

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 of West Palm Beach does not currently charge fees for use of the boat ramp or parking facilities associated with the Currie Park Boat Ramp at this time. A Palm Beach County public boat ramp located 3.5 miles to the north of this project currently charges $10.00 per day for parking.

(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 City of West Palm Beach is one of the largest metropolitan waterfront communities in Florida that has direct access to the ICW for visitors and citizens to use and enjoy. The City of West Palm Beach's Currie Park Boat Ramp is the only salt water boat ramp in West Palm Beach and its ramps and Water Taxi Dock currently have limited accessibility during low tide due to the built-up silt material within the boat basin and Water Taxi Dock area. This Project will ensure continued and improved access to the ICW for boaters utilizing this facility.

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

The project will continue to be funded for maintenance through the City's annual Operating and Maintenance Funds.

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

Providing access to and from the ICW within the City of West Palm Beach for the residents and visitors to Palm Beach County will result in significant and long lasting benefits to the region.

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

The proposed channel markers will prevent vessel intrusion into shallow seagrass areas north and south of the boat ramp. These shallow waters are available habitat to manatess. A clearly defined deep water channel will provide additional protection to native seagrass colonies and manatees.

(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? If permits are NOT required, explain why not.**
Permits from Florida Dept of Environmental Protection and Florida Fish & Wildlife have been obtained. We are currently awaiting issuance of the ACOE permits.

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 Phase Two of the project. Phase I has been completed and was funded jointly by the City of West Palm Beach and F.I.N.D.

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

The City is not aware of any significant impediments that would potentially delay the timely issurance of the remaining permit for this project.

(For reviewer only)
(1-4 points)

8) PROJECT DESIGN:

a) **Has the design work been completed? If this is a Phase 2 project, has a preliminary design been developed?**
The permit from DEP along with preliminary design work has been developed and 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?**
The Currie Park Boat Ramp is a large metropolitan park, unique in its location at water's edge in downtown West Palm Beach. The park provides boaters and non-boaters with many recreational opportunities adjacent to the ICW. The project is designed to enhance public usage and access to the ICW through the improvement of access to the ICW with the removal of built-up silt material in the boat basin, Currie Park Water Taxi Dock area and the installation of a staging dock to facilitate boat loading/unloading.

(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 City will dredge the boat basin at the Currie Park Boat Ramp, the area immediately adjacent to the Water Taxi docks and install a staging dock in the boat basin to facilitate boating loading and unloading. Standard construction techniques will be utilized for both the dredging and dock installation.

b) **How are the utilized construction techniques appropriate for the project site?**
The project site allows for ample access to the boat basin and water taxi dock area. The construction techniques to be utilized will be appropriate for the project site and care will be taken to limit distruption to the boat ramps during construction.

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

The City does not anticipate any unusual construction techniques on this project.

(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 majority of the project is a dredging project so material will be removed rather than utilized on the project. The staging dock will consists of a floating dock similar in construction to the Water Taxi dock installed adjacent to the Maritime Museum.

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

The City does not anticipate the use of any unique construction materials on this project that would 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.)

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 2016

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

Project Title:	Currie Park Boat Access Improvement Project-Phase 2
Applicant:	City of West Palm Beach

Project Elements *(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)*	**Quantity or Total Estimated Cost** **(Number and/or Footage etc.)**	**Applicant's Cost**	**FIND Cost**
PRE-CONSTRUCTION FINAL DESIGN PERMITTING, CONSTRUCTION DOCS AND SPECIFICATIONS	**$40,000**	**$20,000**	**$20,000**
BIDDING & AWARD	**$16,000**	**$8,000**	**$8,000**
CONSTRUCTION A. BOAT STAGING DOCKS	**$270,000**	**$135,000**	**$135,000**
B. BOAT RAMP DREDGING, WATER TAXI CHANNEL DREDGING, CHANNEL MARKERS	**$530,000**	**$265,000**	**$265,000**
****TOTALS =**	**$856,000**	**$428,000**	**$428,000**

ATTACHMENT E-6
WATERWAYS ASSISTANCE PROGRAM 2016

PROJECT TIMELINE

Project Title:	Currie Park Boat Access Improvement Project-Phase 2
Applicant:	City of West 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 1st
(or be consistent with Rule 66B-2.005(3) - Pre-agreement expenses)

Item	Completion Date
FINAL DESIGN & SPECIFICATIONS	MARCH 2017
BIDDING & AWARD	AUGUST 2017
CONSTRUCTION	AUGUST 2018

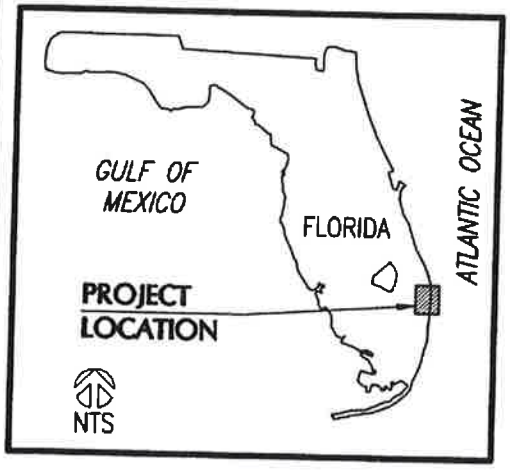


EXHIBIT 1a - AERIAL

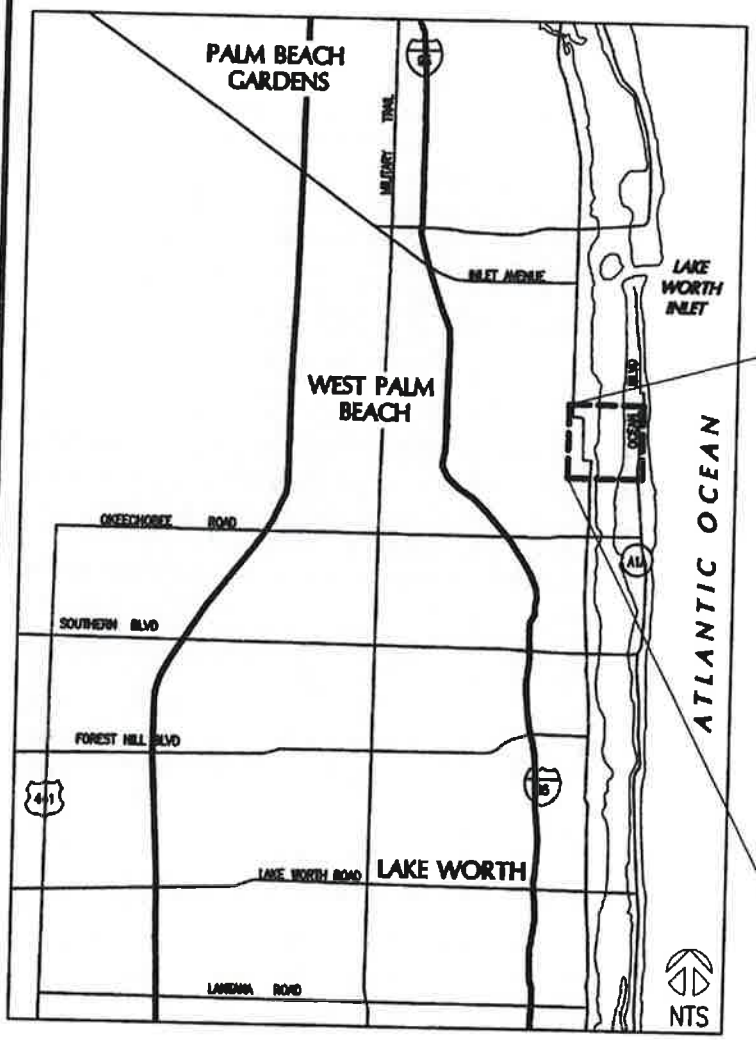


EXHIBIT 1b - SITE PHOTO

Currie Park Boat Ramp
City of West Palm Beach



SHEET INDEX	
Sheet Number	Sheet Title
1	LOCATION MAP
2	EXISTING CONDITION & SEAGRASS RESOURCE MAP
3	PROPOSED MARINE WORKS
4	NORTH AREA PROPOSED DREDGING PLAN
5	NORTH AREA PROPOSED DREDGING SECTIONS
6	SOUTH AREA PROPOSED DREDGING PLAN
7	SOUTH AREA PROPOSED DREDGING SECTION
8	PROPOSED DOCK 'A' PLAN
9	PROPOSED DOCK 'B' PLAN
10	NORTH AREA OFFLOADING PLAN
11	TYPICAL DOCK PARTIAL PLAN
12	TYPICAL DOCK SECTION
13	SINGLE PILE SIGN DETAIL
14	TURBIDITY CURTAIN DETAILS
15	GENERAL NOTES



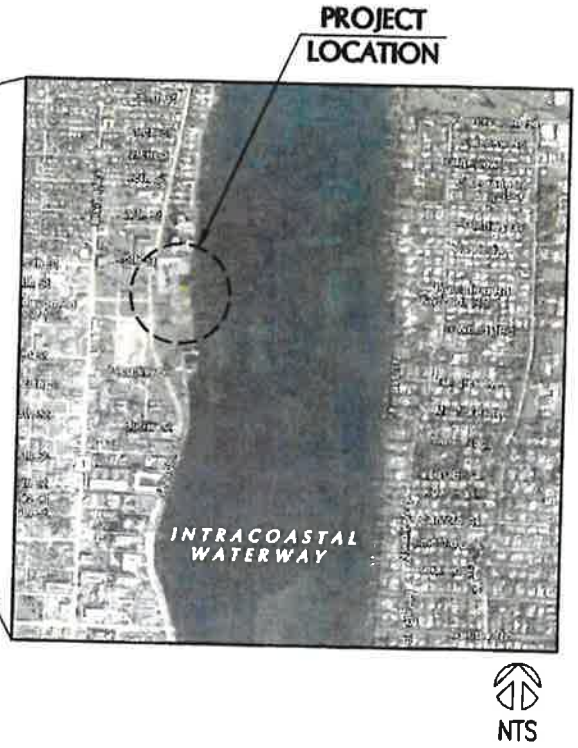


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EXHIBIT 2 - DOCK & DREDGING PLANS

		APP. NO:	####
		PROJECT NO:	329503
		DATUM:	NGVD
02/18/16	FIND SET	DRAWN BY:	VC
DATE:	DESCRIPTION:	CHECKED BY:	JPC

SUBMITTED BY:

JORDON P. CHEIFET
FL. REG. 72876

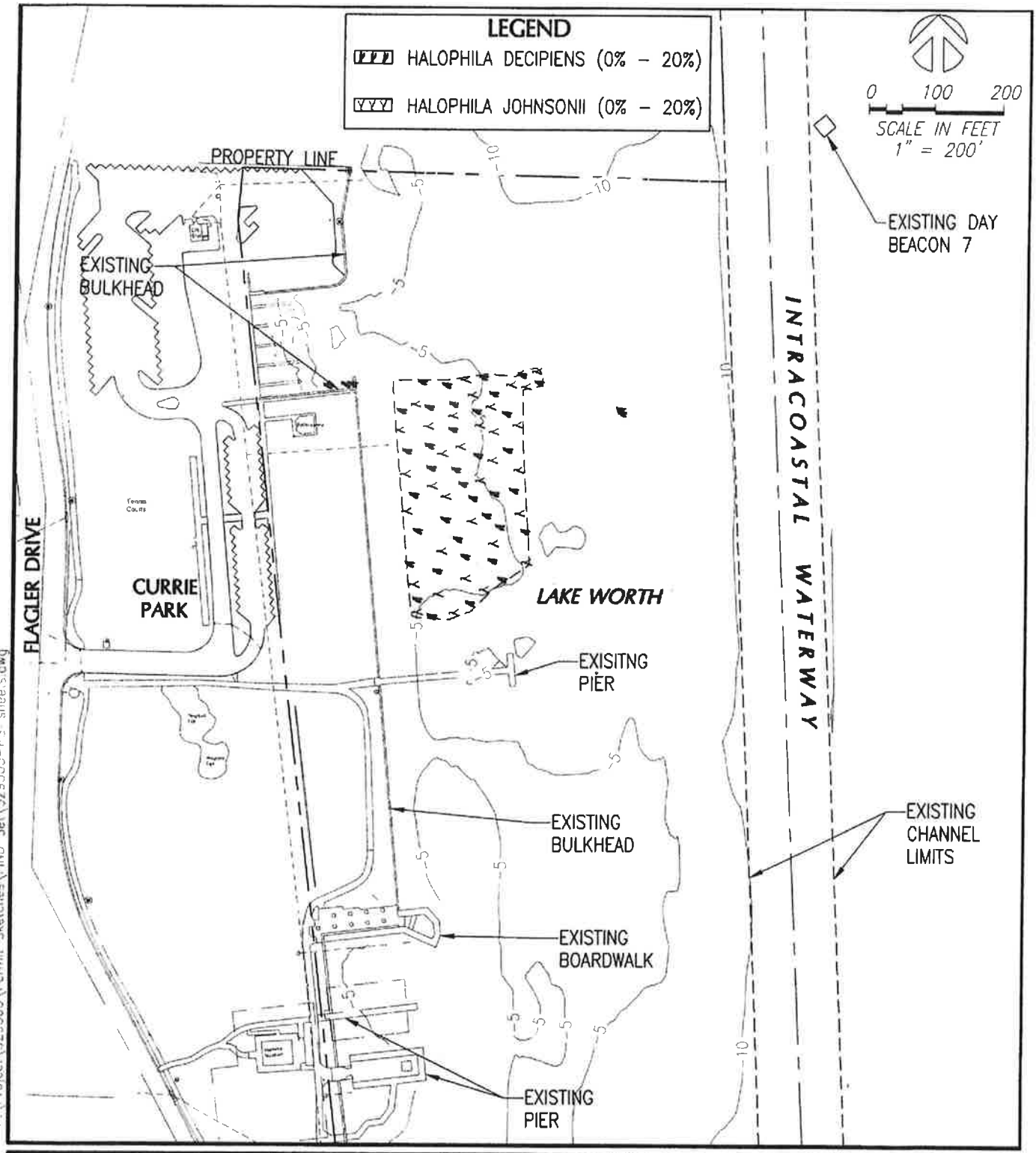
COASTAL SYSTEMS INTERNATIONAL, INC.
464 South Dixie Highway, Coral Gables, Florida 33146
Tel: 305-661-3655 Fax: 305-661-1914 www.CoastalSystemsIntl.com
STATE OF FLORIDA EB #7087
Coastal, Environmental, Civil Engineering and Management

CLIENT:
CITY OF WEST PALM BEACH
401 CLEMATIS STREET, 4th FLOOR
WEST PALM BEACH, FLORIDA 33401

CURRIE PARK STAGING DOCK & DREDGING PROJECT

LOCATION MAP

SHEET 1 OF 15



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		APP. NO:	####
		PROJECT NO:	329503
		DATUM:	NGVD
02/18/16	FIND SET	DRAWN BY:	VC
DATE	DESCRIPTION:	CHECKED BY:	JPC

SUBMITTED BY:

COASTAL SYSTEMS INTERNATIONAL, INC.
464 South Dixie Highway, Coral Gables, Florida 33146
Tel: 305-661-3655 Fax: 305-661-1914 www.CoastalSystemsInt.com
STATE OF FLORIDA EB #7087
Coastal, Environmental, Civil Engineering and Management

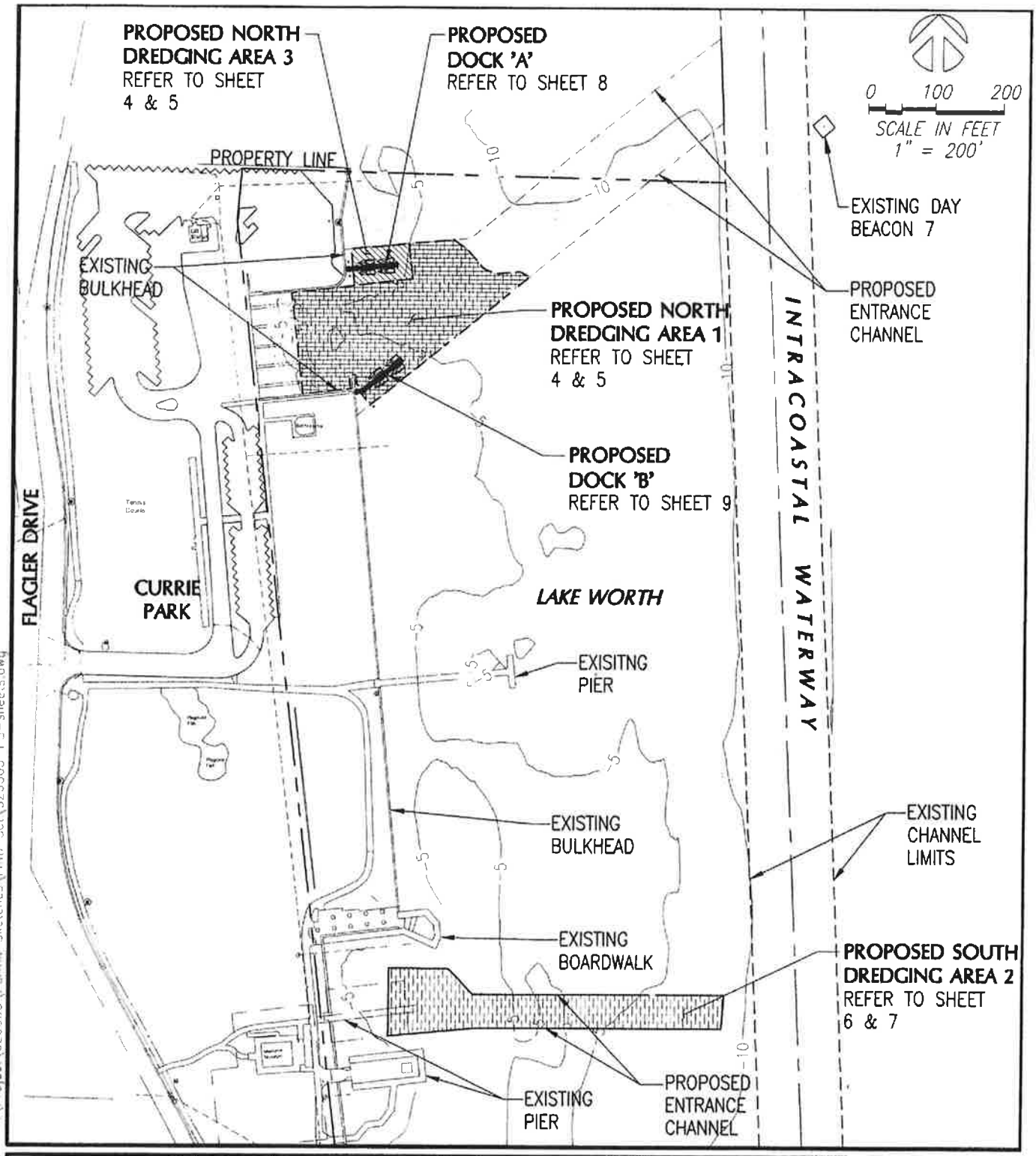
JORDON P. CHEIFET
FL. REG. 72876

CLIENT:
CITY OF WEST PALM BEACH
401 CLEMATIS STREET, 4th FLOOR
WEST PALM BEACH, FLORIDA 33401

CURRIE PARK STAGING DOCK & DREDGING PROJECT

EXISTING CONDITION & SEAGRASS RESOURCE MAP

SHEET 2 OF 15



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APP. NO:	####
PROJECT NO:	329503
DATUM:	NGVD
DRAWN BY:	VC
CHECKED BY:	JPC

DATE	DESCRIPTION
02/18/16	FIND SET

SUBMITTED BY:

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464 South Dixie Highway, Coral Gables, Florida 33146
Tel: 305-661-3655 Fax: 305-661-1914 www.CoastalSystemsInt.com
STATE OF FLORIDA EB #7087
Coastal, Environmental, Civil Engineering and Management

JORDON P. CHEIFET
FL. REG. 72875

CLIENT:
CITY OF WEST PALM BEACH
401 CLEMATIS STREET, 4th FLOOR
WEST PALM BEACH, FLORIDA 33401

CURRIE PARK STAGING DOCK & DREDGING PROJECT

PROPOSED MARINE WORKS

SHEET 3 OF 15

ATTACHMENT E-2

WATERWAYS ASSISTANCE PROGRAM FY 2016
PROJECT APPLICATION
APPLICANT INFORMATION – PROJECT SUMMARY

APPLICANT INFORMATION			
Applicant:	Jupiter Inlet District		
Department:	not applicable		
Project Title:	Loxahatchee River Railroad Bridge Span Modification		
Project Director:	Michael J. Grella	**Title:**	Executive Director
Project Liaison: *(if different from Project Director)*		**Title:**	
Mailing Address:	400 N Delaware Boulevard		
City:	Jupiter	**Zip Code:**	33458
Email Address:	mgrella@jupiterinletdistrict.org	**Phone #:**	
Project Address:	Railroad Bridge Adjacent to A1A/Loxahatchee River Bridge, Jupiter, Florida		

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

SIGNATURE: _____ DATE: 3/3/2016

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

The most significant impact to future navigation is the Brightline (All Aboard Florida) Passenger Rail Project which proposes intercity passenger rail service between Orlando and Miami, with station stops in Orlando, WPB, Ft. Lauderdale and Miami. The FECR bridge crossing the Loxahatchee River has a current vertical clearance of only 4 feet above mean high water, along with a horizontal clearance of 40 feet, thus placing significant limitations on boaters when it is in the down position. Vessels with heights/air draft greater than the vertical clearance under the bridge will have to queue up in a holding area until the bridge is opened. Boaters waiting for the bridge to open must also contend with strong tidal currents, estimated at 7 to 8 knots. This can result in difficulty avoiding being set onto the bridge, the shore, or each other.

Brightline (All Aboard Florida) proposes to replace the current draw span with a span of higher clearance (minimum 8 feet above Mean High Water) to allow the majority of vessel traffic to pass under the bridge when it is in its down and locked position. The proposed span modification would result in an increase in vertical clearance from 4' above MHW to a minimum of 8' above MHW, resulting in an increase in vessel passage from 50% to 90%, or over 100 vessels per day.

Form No. 90-22, Rule 66B-2, (New 12/17/90, Rev.07-30-02, 04-24-06)

ATTACHMENT E-3 - PROJECT INFORMATION 2016

Applicant:	Jupiter Inlet District		Project Title:	Loxahatchee River Railroad Bridge Span	
Total Project Cost: $	3,250,000	FIND Funding Requested: $	1,625,000	% of Total Cost:	50
Amount and Source of Applicant's Matching Funds:	Ad valorem taxation from Jupiter Inlet District and commitment from Brightline (AAF) to cost share				

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. Once completed, will this project be insured against damage? Explain

Yes

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

5. If yes, please list:

6. 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

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

N/A

8. Are fees charged for the use of this project? No ■ Yes ☐

9. 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			

Form No. 90-22a (New 10-14-92, Rev. 04-24-06, 4-15-07)

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.

Project Title:	Loxahatchee River Railroad Bridge Span Modification
Applicant:	Jupiter Inlet District

---

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 1. While difficult to assign to a single category, our proposal is nothing if not "public navigation." There will be some dredging involved as well.

b) Explain how the project fits this priority category.

(For reviewer only)
Max. Available Score for application 50

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

---

2) WATERWAY RELATIONSHIP:

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

Some 6300 vessels per month pass under the Loxahatchee River RR bridge (LRRB) on their way to and from the ICW. Each time the span is lowered (avg. 20 min. per cycle) some 40% of vessels are unable to clear, resulting in an unreasonable obstruction to navigation.

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

Mitigation of vessel delay by as much as 85% during the span's down cycle resulting from Jupiter Inlet District Vessel Path.

(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 is quantified in terms of reduction in vessel queuing time awaiting passage under the LRRB.

b) Discuss the regional and local public benefits that will be provided by the project.

According to a study commissioned by the Florida Inland Navigation District (FIND), an increase in available draft of 10' MLW showed an increase of $103.3 MM in business volume and 1,212 jobs, compared to "existing conditions" (G.E.C., Inc., 1999). The FIND study demonstrates the impact of accessible waterways on residential and commercial properties and boat slips.

c) Can residents from other counties of the District reasonably access and use the project? Explain.

Yes.

(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 proposed span modification will be constructed in conjunction with the planned improvements to the Loxahatchee River Bridge draw span that will be performed as part of the Brightline project. As a result of the extensive environmental permitting work performed by Brightline, the remaining work to be done is minimal.

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

The timeline for the span modification is coincident with the timeing of the improvements of the draw span that will be performed by Brightline/FECR (Florida East Coast Railway)

(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.**

Jupiter Inlet District.

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.**

The project will be completed in conjunction with additional bridge requirements, thus 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.**

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 proposed span modification will be constructed in conjunction with the planned improvements to the Loxahatchee River Bridge draw span that will be performed as part of the Brightline project. The proposed span modification would result in an increase in vertical clearance from 4' above MHW to 7.72' or greater above MHW, resulting in an increase in vessel passage from 50% to 85%, or over 100 vessels per day.

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

With respect to the span modifications proposed on the Loxahatchee Railroad Bridge, this will become a part of the overall maintenance program of the bridge that has been in place for almost ninety years and is required in order for the Florida East Coast Railway freight trains and future Brightline passenger trains to safely operate on the bridge. There is no dependence on any public funding for the maintenance of the bridge structure.

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

Unobstructed accessibility results in great economic impact on property values and the marine services and retail industries in the Jupiter-Tequesta area. It is well documented that this type of economic activity is essential to the entire state of Florida. The Florida Ocean and Coastal Council reported that the state's coastal counties contribute about 79% of the state's economic productivity. Rail bridge closures deter waterway use and have a negative effect on the economies of surrounding communities.

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

Fewer boating accidents and resultant fuel leakage. Additionally, reduction in vessel queuing time, resulting in significant reduction in carbon emissions.

(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? 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. As to "general cost estimate," please see Attachment E - 5.

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?

Yes (by All Aboard Florida).

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?

See responses to questions 6 (a) and 6 (d).

(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.

See graphics provided, following Attachment E - 2.

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

Extensive consideration was given to what extent the I - beams could be "skinnied up," because of weight bearing concerns for the trains.

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

N/A

(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?

See graphics provided, following Attachment E - 2.

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.)

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 2016

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

Project Title:	Loxahatchee River Railroad Bridge Span Modification
Applicant:	Jupiter Inlet District

Project Elements *(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)*	**Quantity or Total Estimated Cost** (Number and/or Footage etc.)	**Applicant's Cost**	**FIND Cost** 1
1. Demolish Existing Span	$ 500,000	$ 250,000	$ 250,000
2. New Bridge Superstructure	$2,000,000	$1,000,000	$1,000,000
3. Fenders (FECR and FDOT bridges)	$ 500,000	$ 250,000	$ 250,000
4. Design	$ 250,000	$ 125,000	$ 125,000
****TOTALS =**	$ 3,250,000	$ 0 1,625,000	$ 1,625,000

Form No. 90-25 (New 10/14/92, Revised 04-24-06)

ATTACHMENT E-6
WATERWAYS ASSISTANCE PROGRAM 2016

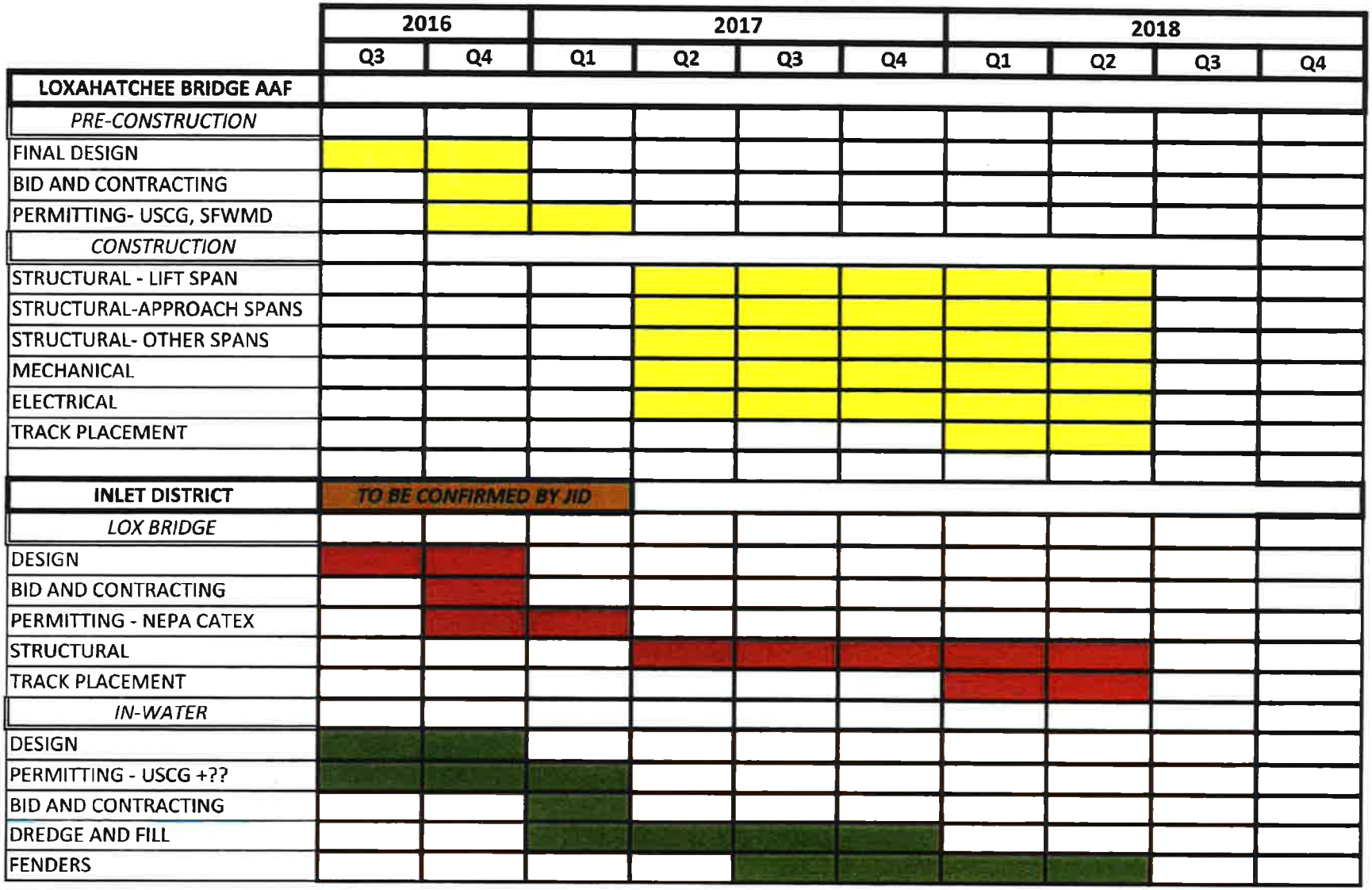
PROJECT TIMELINE

Project Title:	Loxatchee River Railroad Bridge Modification
Applicant:	Jupiter Inlet District and Florida East Coast Railway

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 1st
(or be consistent with Rule 66B-2.005(3) - Pre-agreement expenses)

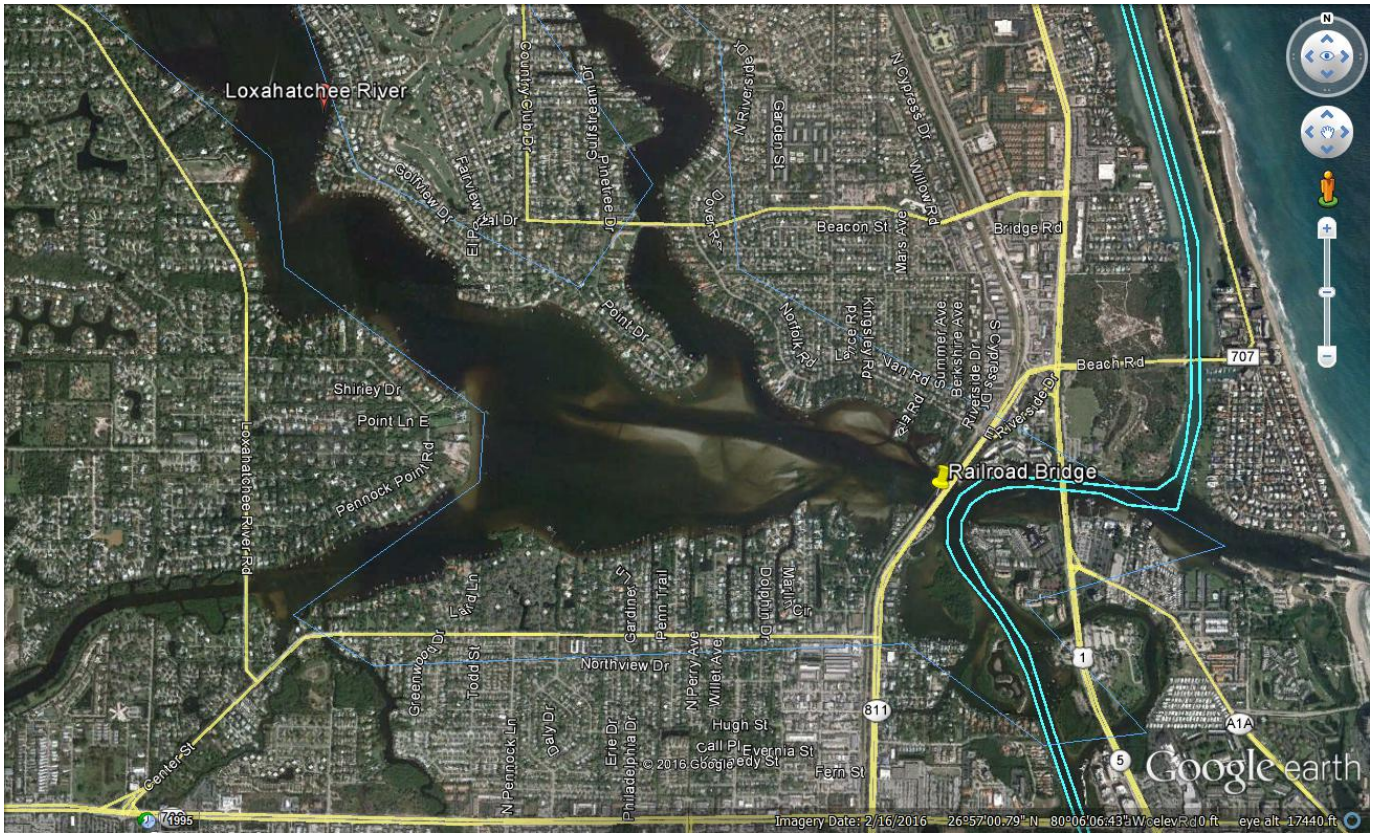
SCHEDULE FOR LOXAHATCHEE BRIDGE IMPROVEMENTS

DRAFT-SUBJECT TO CHANGE

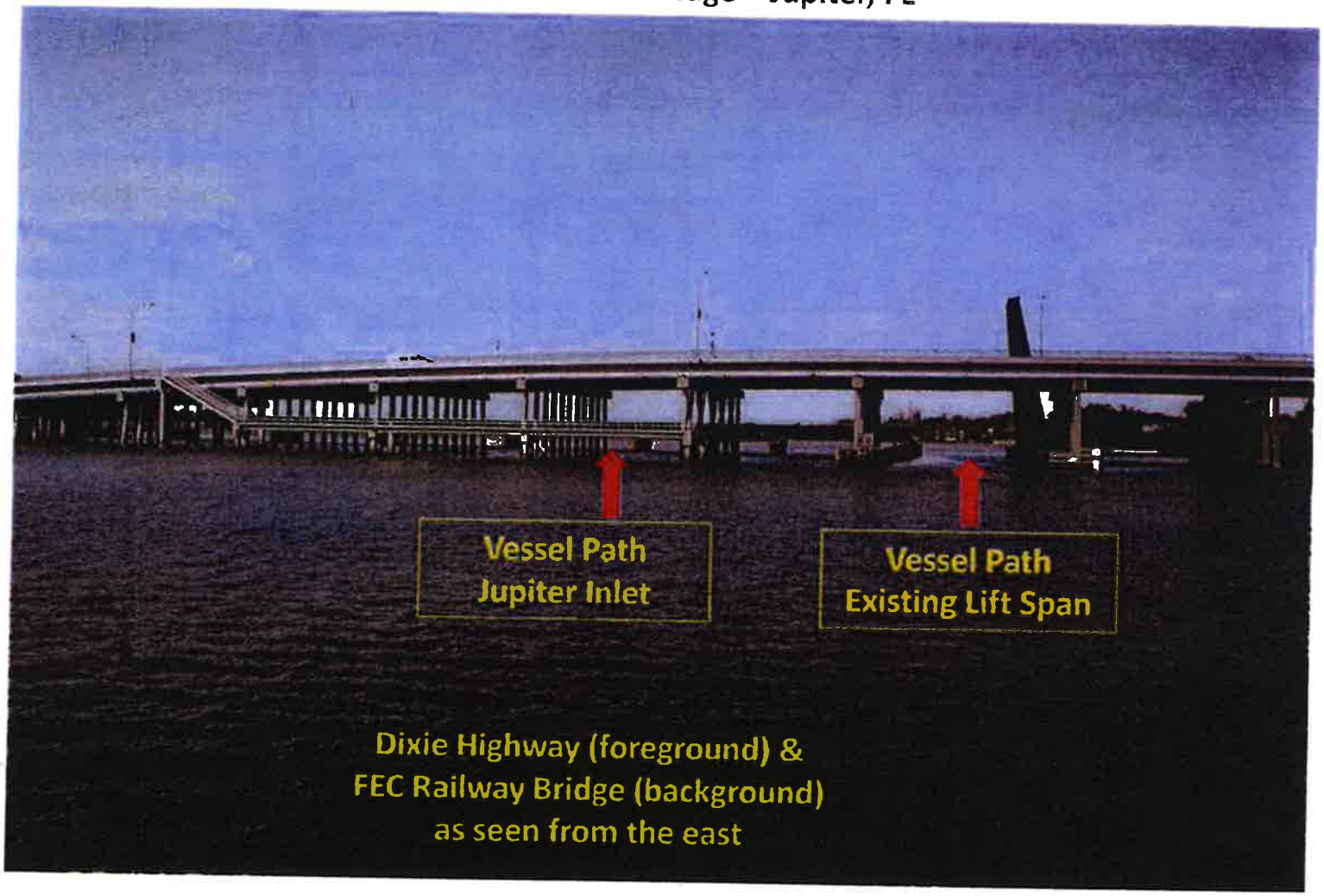


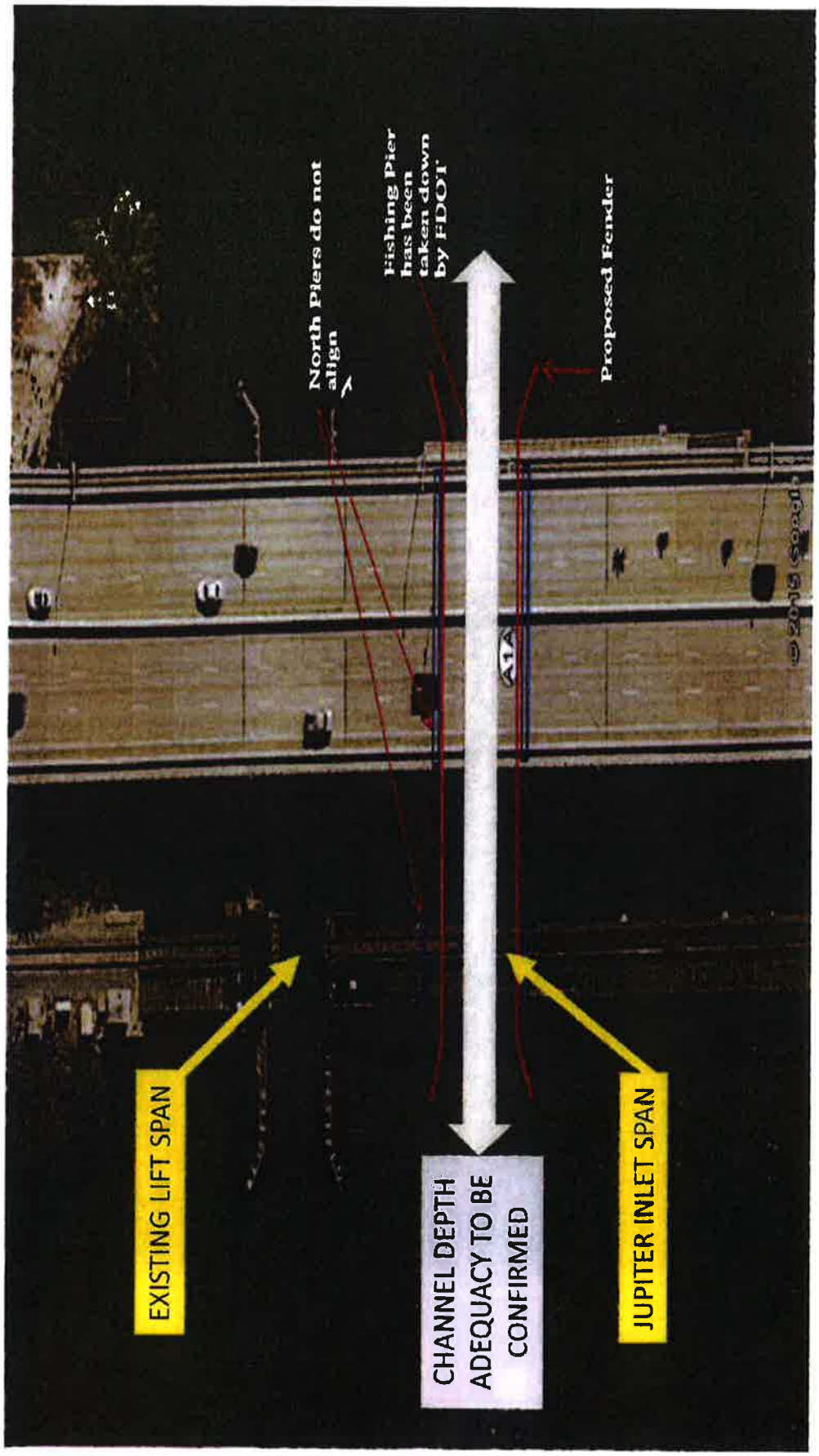
3/28/2016

Google aps ** Loxahatchee River Railroad Bridge

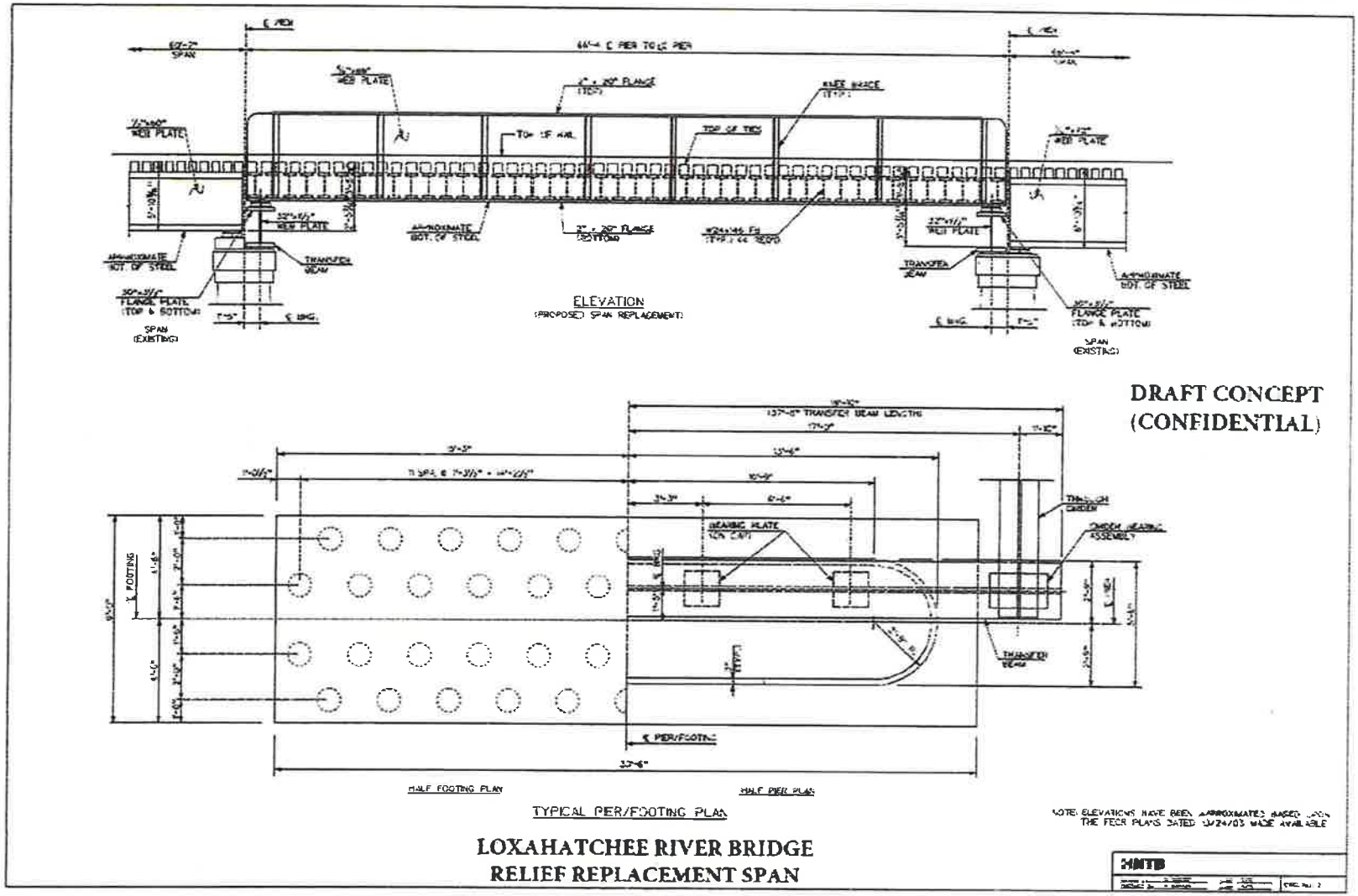


Loxahatchee River Bridge – Jupiter, FL




North Piers do not align
Fishing Pier has been taken down by FDOT
Proposed Fender
EXISTING LIFT SPAN
CHANNEL DEPTH ADEQUACY TO BE CONFIRMED
JUPITER INLET SPAN

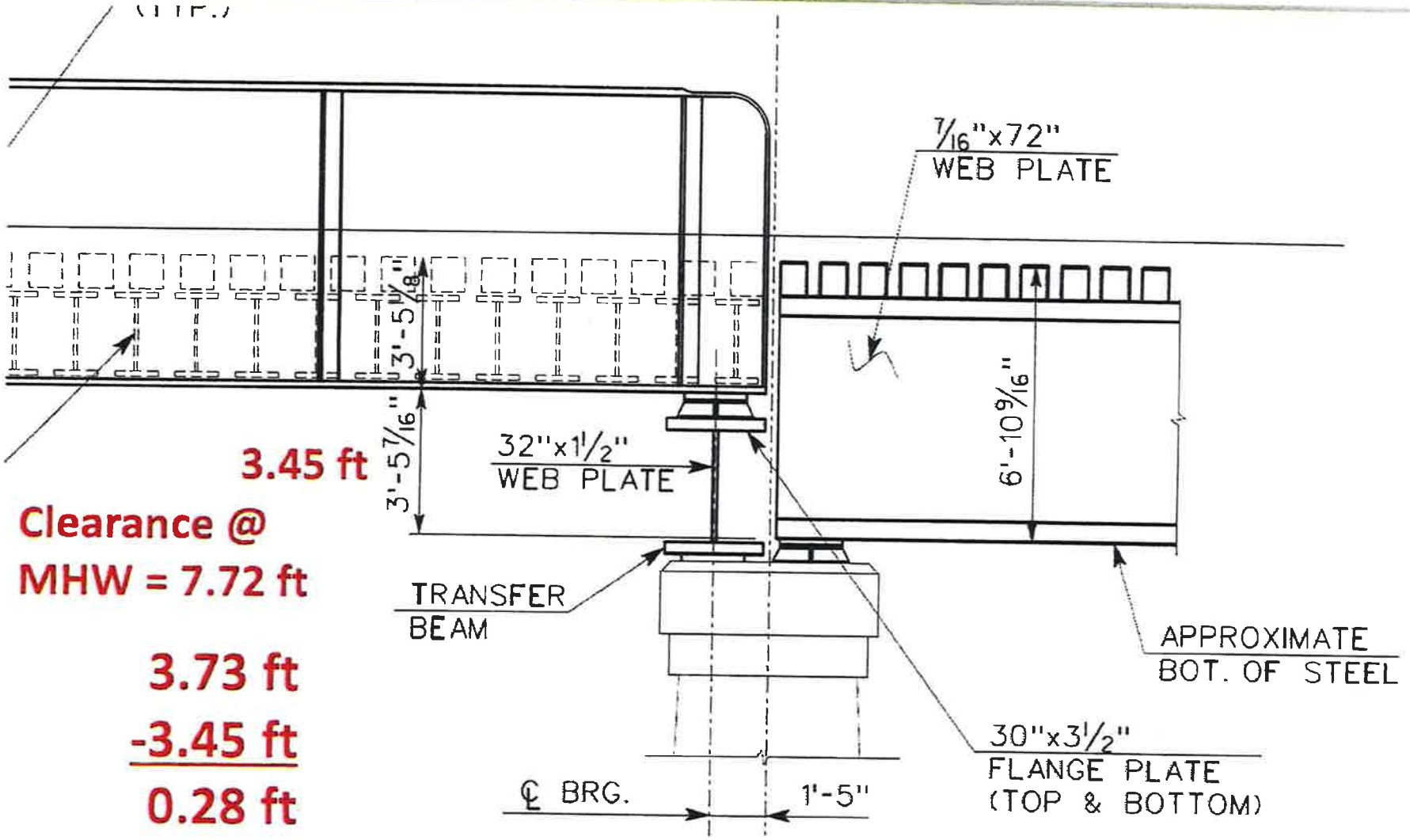
Proposed …



TAYLOR ENGINEERING, INC.

Delivering Leading-Edge Solutions

Blow up of proposed …



3.45 ft

Clearance @
MHW = 7.72 ft

3.73 ft
-3.45 ft
0.28 ft

TAYLOR ENGINEERING, INC.
Delivering Leading-Edge Solutions

ATTACHMENT E-2

WATERWAYS ASSISTANCE PROGRAM FY 2016
PROJECT APPLICATION
APPLICANT INFORMATION – PROJECT SUMMARY

APPLICANT INFORMATION			
Applicant:	Town of Lake Park		
Department:	Lake Park Harbor Marina		
Project Title:	Lake Park Harbor Marina Docking Facility Retrofit		
Project Director:	John D'Agostino	**Title:**	Town Manager
Project Liaison: *(if different from Project Director)*	Same as above	**Title:**	Same as above
Mailing Address:	535 Park Avenue		
City:	Lake Park, Florida	**Zip Code:**	33403
Email Address:	jD'Agostino@lakeparkflorida.gov	**Phone #:**	561-881-3304
Project Address:	105 Lake Shore Drive, Lake Park, Florida 33403		

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

SIGNATURE: _____ DATE: 5-26-16

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

Lake Park Harbor Marina has 26 boat slips which are configured in a manner which makes them difficult for the public to use. The existing slips are awkward and difficult for users to board for vessel lengths (25' - 30') for which they were designed. Because of this, a large sector of the public is unable to use them. The project consists of retrofitting existing five boat slips to boat lift slips. Boat lifts will provide a unique and safe boat storage option to the boating public who uses the District's waterways. This project will consist of the design, permitting and installation of five boat lifts with the capacity to store vessels up to 16,000 pounds out of the water. The Town will establish a "Boat Lift Maintenance" sinking fund as an element of the FY 2016/2017 budget process, retaining a portion of the rental income for the designed life of the lifts. Town staff will be trained to perform simple maintenance such as oiling and cleaning of the equipment pursuant to manufacturer specifications. A new Marina policy will require in accordance with Rule 66B-2-008(4) Public Marina Qualifications that 10 percent of the Marina's available boat slips designated for transient vessels in that 11 boat slips will be designated for this purpose. Sewage pump-out currently exists and is available to the boating public.

Form No. 90-22, Rule 66B-2, (New 12/17/90, Rev.07-30-02, 04-24-06)

ATTACHMENT E-3 - PROJECT INFORMATION 2016

Applicant:	Town of Lake Park		Project Title:	Lake Park Harbor Marina Docking Facility	
Total Project Cost: $	110,000.00	**FIND Funding Requested: $**	55,000.00	**% of Total Cost:**	50
Amount and Source of Applicant's Matching Funds:	$55,000.00 will be allocated from the Town's FY 2016-2017 budget by Resolution of the Town.				

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. Once completed, will this project be insured against damage? Explain

Yes. The Town is insured for property and casualty by the Preferred Governmental Insurance Trust (PGIT).

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

5. If yes, please list:

Project agreement numbers: PB-LP-01-93, PB-LP-04-109, PB-LP-07-124, PB-LP-94-32, PB-LP-98-73, PB-LP-99-80

6. 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 facility is comprised of 108 public wet slips, two public boat launch ramps, 71 public trailer parking spaces, 135 public parking spaces, public restrooms/showers and a waterfront park. The entire facility is open to the public on a first-come first-served basis.

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

The project will not yield any additional slips, ramp or parking. The project will increase access/utilization to an area of the Marina which has been difficulty for the public to utilize.

8. Are fees charged for the use of this project? No ☐ Yes ■

9. If yes, please attach additional documentation of fees and how they compare with fees from similar public & private facilities in the area. – PLEASE SEE EXHIBIT A.

Please list all Environmental Resource Permits required for this project:

AGENCY	Yes / No / N/A	Date Applied For	Date Recieved
WMD	N/A		N/A
DEP	Y	4/29/2016	See Exhibit B
ACOE	Y	5/03/2016	See Exhibit C
COUNTY / CITY			See Exhibit D

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.

Project Title:	Lake Park Harbor Marina Docking Facility Retrofit
Applicant:	Town of Lake Park

---

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 retrofitting or redevelopment of an existing docking facility intended to increase public access and usage fits into this category of the priority list.

(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 directly relates to the ICW and the mission of the Navigation District.

Lake Park Harbor Marina is located on the northern reaches Lake Worth Lagoon and adjacent to the ICW. Local and regional boater access to and from the project site and the Atlantic Ocean is provided by the ICW.

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

Currently the project site does not effectively serve the smaller area boater it was designed for. The completed project will greatly improve afford-ability and access for smaller size vessels.

(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.

Historical occupancies for the project site has been on average less than 20% since the Marina was redeveloped in 2006. It is estimated the completed project will be very attractive to area small boaters and will reach 100% occupancy within 18 months.

b) Discuss the regional and local public benefits that will be provided by the project.

Once complete, the retrofitted slips will be available to the general public and provide a unique small boat storage option which is not now available in Palm Beach County. The project will enhance the boating experience to anyone wishing to avail themselves to this boat storage option.

c) Can residents from other counties of the District reasonably access and use the project? Explain.

Yes, the completed project will be available to the general public from any region in the District on a first-come-first-served basis.

(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.**

Project permitting is in process. Project completion is planned for March 2017.

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

There are no unique aspects to this project that will 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.**

Funding has not been allocated to this project; however, by Resolution the Commission approved the project and pursuing grant assistance on March 16, 2016. Funds will be allocated from the Town's FY 2016-2017 budget to the project account by required Resolution.

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

No increased project costs are expected; however, the use of sustainable composite pilings may be explored.

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

Economies of scale will be realized by the simultaneous purchase of 5 identical lifts, required pilings & one-time mobilization/demobilization. A maintenance sinking fund will be established.

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 current annual rate for Dockage is $17.00 per foot per month. This rate is well below the area average. Please see the attached January 2016 area rate surveys which are included in this submittal.

(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 boat storage options to area boaters where one does not exist today. This project area is underutilized due to the site's present configuration. Boarding vessels in this area is difficult and is a safety issue depending on weather conditions. The plan is not presently part of any maritime access plan; however, it will enhance public access.

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

Annual maintenance will be contracted to a suitable vendor through the Town's RFP process. Spare parts will be inventoried at the project site by the applicant to expedite unexpected failures. As indicated in the Project Narrative and at paragraph 5(c) on the previous page, a sinking fund will be established by the Town to handle future repairs and maintenance.

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

Yes. The useful life of a well maintained boat lift is 20 years or more. By virtue of this project, public access to this area will be increased and the project boundaries will be extended to install additional boat lifts providing for increased access and extended public benefit. The Lake Park Harbor Marina is an Town enterprise fund and revenues generated by this facility and this project are exclusively allocated to the ongoing operation, maintenance and improvement of this facility.

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

There are no measurable 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? If permits are NOT required, explain why not.

WMD -- was determined to be not applicable; DEP -- exemption received on 5/16/2016 (see Exhibit B); ACOE -- applied for on 5/3/2016 and in process (see Exhibit C); County/City -- please see letter from the Town of Lake Park Community Development Director stating that the Town permits will be obtained by the selected contractor following the required bid process and only after signed and sealed drawings are submitted and reviewed (see Exhibit D).

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.

Tasks will be: Application; benthic and sea grass survey; and, RAI response. Estimated total project costs total $110,000.00. The permitting process is being managed by the Town's engineering staff. Please see Form E-6 for a detailed project time line.

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 as no environmental impacts 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?

Design is conceptual as product selection may change from original estimates through the bid process. Project design will be finalized after bid award.

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, public usage will be enhanced as a unique, safe and a convenient docking option is installed and offered to the boating public at this 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.

Traditional construction techniques will be utilized for this project : CCA piling installation will be jetted or driven into position and the lift assembly will be installed atop of the pilings. All electrical connections will be made to current code requirements by a suitable licensed vendor.

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

The lifts will be installed with the boundary of the selected slips within the marina basin utilizing a barge and crane methodology.

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

N/A

(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?**

14" wrapped CCA pilings, quality boat lift assemblies of aluminum, stainless steel and pressure treated bunks. It is expected with proper maintenance the project lift will exceed 20 years.

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

The use of composite pilings is an option to be considered which may alter the project's cost and increase the projects longevity.

(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 2016

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

Project Title:	Lake Park Harbor Marina Docking Facility Retrofit Phase I
Applicant:	Town of Lake Park

Project Elements *(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)*	**Quantity or Total Estimated Cost** (Number and/or Footage etc.)	**Applicant's Cost**	**FIND Cost**
Design and Permitting for the installation of 5 boat lifts capable of lifting 16,000 pounds. Not to Exceed Lump Sum	$110,000	$55,000	$55,000
*** TOTALS =	$110,000	$55,000	$55,000

****TOTALS =**	**$**	**$** 0	**$**

Form No. 90-25 (New 10/14/92, Revised 04-24-06)

ATTACHMENT E-6
WATERWAYS ASSISTANCE PROGRAM 2016

PROJECT TIMELINE

Project Title:	Lake Park Harbor Marina Docking Facility Retrofit
Applicant:	Town of Lake Park

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 1st
(or be consistent with Rule 66B-2.005(3) - Pre-agreement expenses)

April 2016 through September 2016

* Filnallze Project Design
* Acquire and submit required permits for the installation of the boat lifts as follows:
  > WMD -- N/A
  > DEP -- exemption received on 5/16/2016 (See Exhibit B)
  > ACOE -- applied for on 5/3/2016 and in process (See Exhibit C)
  > County/City -- (please see letter from the Town of Lake Park Community Development Director which is attached here to as Exhibit D)

September 2016

* Submit Required Permits to FIND prior to FIND's final TRIM as required

November 2016

* Begin Project Bid Process

January 2017

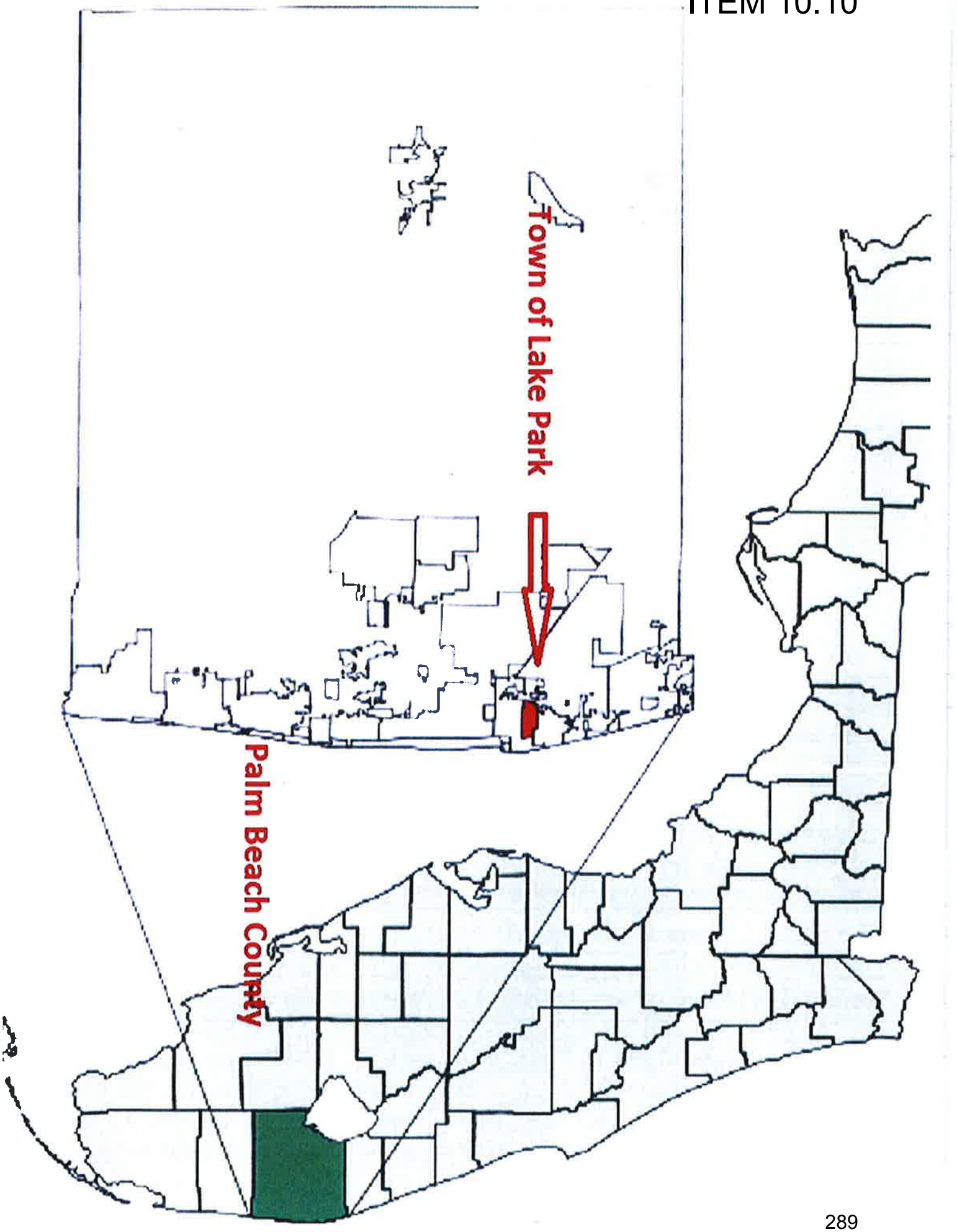
* Commission Award of Contract

February 2017

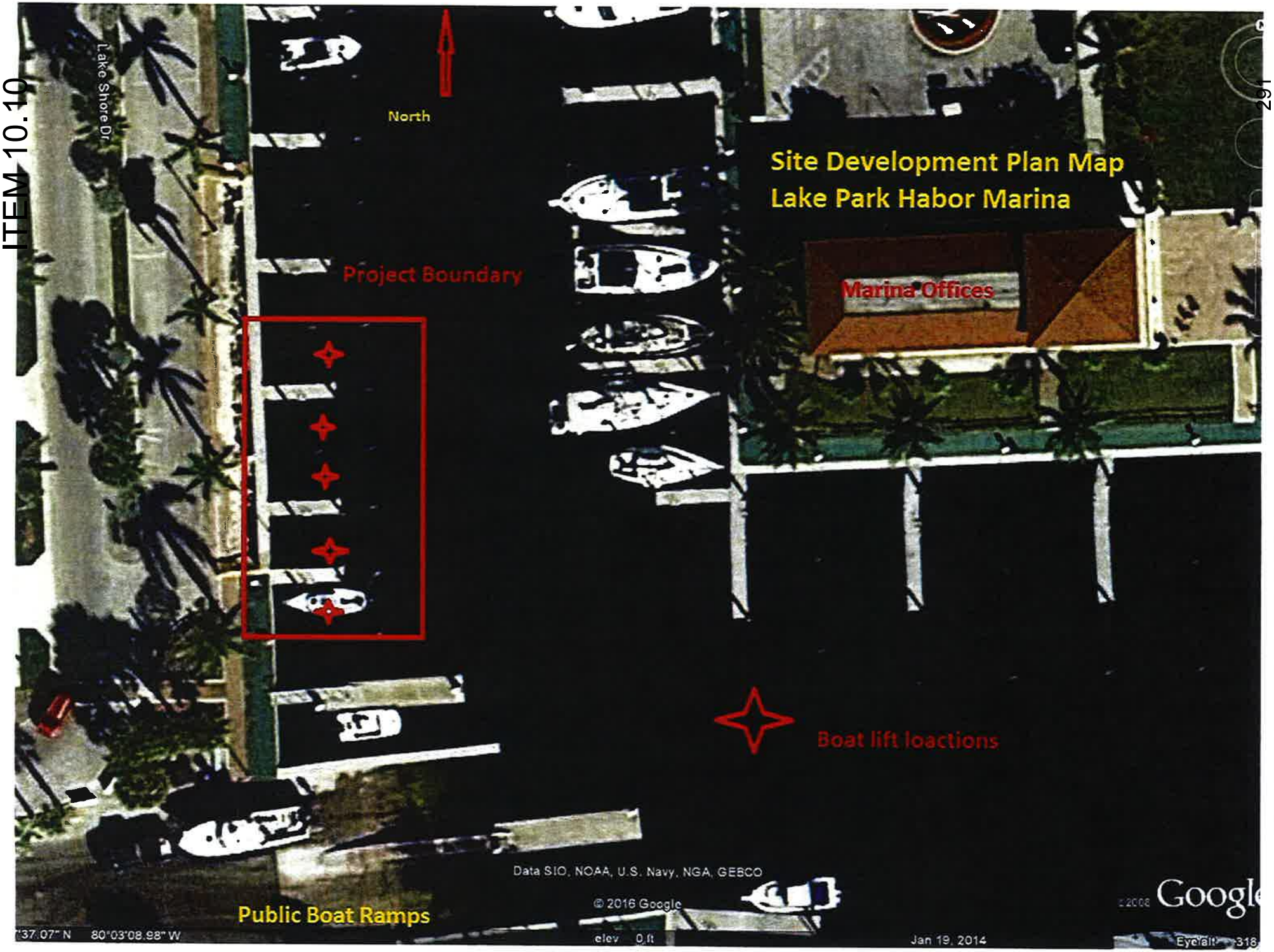
* Begin Construction

March 2017

* Project Completion


Town of Lake Park
Palm Beach County


North
LAKE PARK HARBOR MARINA
105 Lake Shore Drive
Lake Park, FL 33304
PROJECT SITE
MAP &
BOUNDARY
To ICW
Date Palm Dr
Cypress Dr
A1A
2nd St
Bayberry Dr
Lake Dr
Silver Beach Rd
Avenue E
Broadway
W 37th St
Palm Dr
Shore Dr
Data SIO, NOAA, U.S. Navy, NGA, GEBCO
©2016 Google
Jan 19, 2014
Eye alt 2216 ft


Lake Shore Dr.
North
Site Development Plan Map
Lake Park Habor Marina
Project Boundary
Marina Offices
Boat lift loactions
Public Boat Ramps
Data SIO, NOAA, U.S. Navy, NGA, GEBCO
© 2016 Google
Google
37.07" N 80°03'08.88" W
elev 0 ft
Jan 19, 2014

ATTACHMENT E-2

WATERWAYS ASSISTANCE PROGRAM FY 2016
PROJECT APPLICATION
APPLICANT INFORMATION – PROJECT SUMMARY

APPLICANT INFORMATION			
Applicant:	Village of North Palm Beach		
Department:	Parks and Recreation Department		
Project Title:	Anchorage Park		
Project Director:	Mark Hodgkins	**Title:**	Director
Project Liaison: *(if different from Project Director)*	Click here to enter text.	**Title:**	Click here to enter text.
Mailing Address:	501 US Highway 1		
City:	North Palm Beach	**Zip Code:**	33408
Email Address:	mhodgkins@village-npb.org	**Phone #:**	561-841-3380
Project Address:	603 Anchorage Drive North Palm Beach, FL 33408		

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

SIGNATURE: _____ DATE: 3/13/16

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.

Form No. 90-22, Rule 66B-2, (New 12/17/90, Rev.07-30-02, 04-24-06)

ATTACHMENT E-3 - PROJECT INFORMATION 2016

Applicant:	North Palm Beach	**Project Title:**	Anchorage Park		
Total Project Cost: $	400,000	**FIND Funding Requested: $**	200,000	**% of Total Cost:**	50
Amount and Source of Applicant's Matching Funds:	City Funds, LWCF Grant $200,000 (approved)				

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

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

3. Once completed, will this project be insured against damage? Yes, the City maintains insurance for all its facilities.

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

5. If yes, please list: 2009 WAP Grant $200,000 for Phase I

6. 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):

2 boat lanes, 95 parking spaces.

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

No additional boat lanes, One boat day dock.

8. Are fees charged for the use of this project? No ☒ Yes ☐

9. 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	Click here to enter text.	Click here to enter text.	Click here to enter text.
DEP	Click here to enter text.	Click here to enter text.	Click here to enter text.
ACOE	Click here to enter text.	Click here to enter text.	Click here to enter text.
COUNTY / CITY	Yes	Not yet	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.

Project Title:	Anchorage Park
Applicant:	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.)

Priority #12 –Public waterfront parks and boardwalks and associated improvements

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

The project will provide waterway viewing points and waterway access trails . A kayak launch and boating day docks will be included in the project.

(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.

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 resources.

(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.

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.

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) Can residents from other counties of the District reasonably access and use the project? Explain.

Located only a short distance from US Highway 1, residents form other District counties can access the site easily. The site will also be accessible for daytime boat users.
(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 Village of North Palm Beach is expecting to complete design of the project in August 2015. Once funding is secured and the design is completed, the project is expected to take six to eight months.

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 is constantly searching for funding sources to help complete the project. The Village received a $200,000 LWCF grant 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)

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)

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? If permits are NOT required, explain why not.

The Village will need to obtain a municipal construction permit. The Village has not applied for the permit because a final design has not been completed. However the Village has engineered and is in the process of completing final design and permitting.

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.

There are no impediments that would delay the issuances of the necessary permits for the 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?

A conceptual plan has been developed by the Village. The final design is underway and the Village expects to have permitting complete by August 2016.

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 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)

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-5

FLORIDA INLAND NAVIGATION DISTRICT
ASSISTANCE PROGRAM 2016

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

Project Title:	Anchorage Park
Applicant:	Village of North Palm Beach

Project Elements *(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)*	**Quantity or Total Estimated Cost** **(Number and/or Footage etc.)**	**Applicant's Cost**	**FIND Cost**
Kayak/Canoe Launch	$80,000	$40,000	$40,000
Day Docks	$150,000	$75,000	$75,000
Waterway Access Path	$80,000	$40,000	$40,000
Waterway Viewing Areas	$90,000	$45,000	$45,000
****TOTALS =**	**$400,000**	**$200,000**	**$200,000**

Form No. 90-25 (New 10/14/92, Revised 04-24-06)

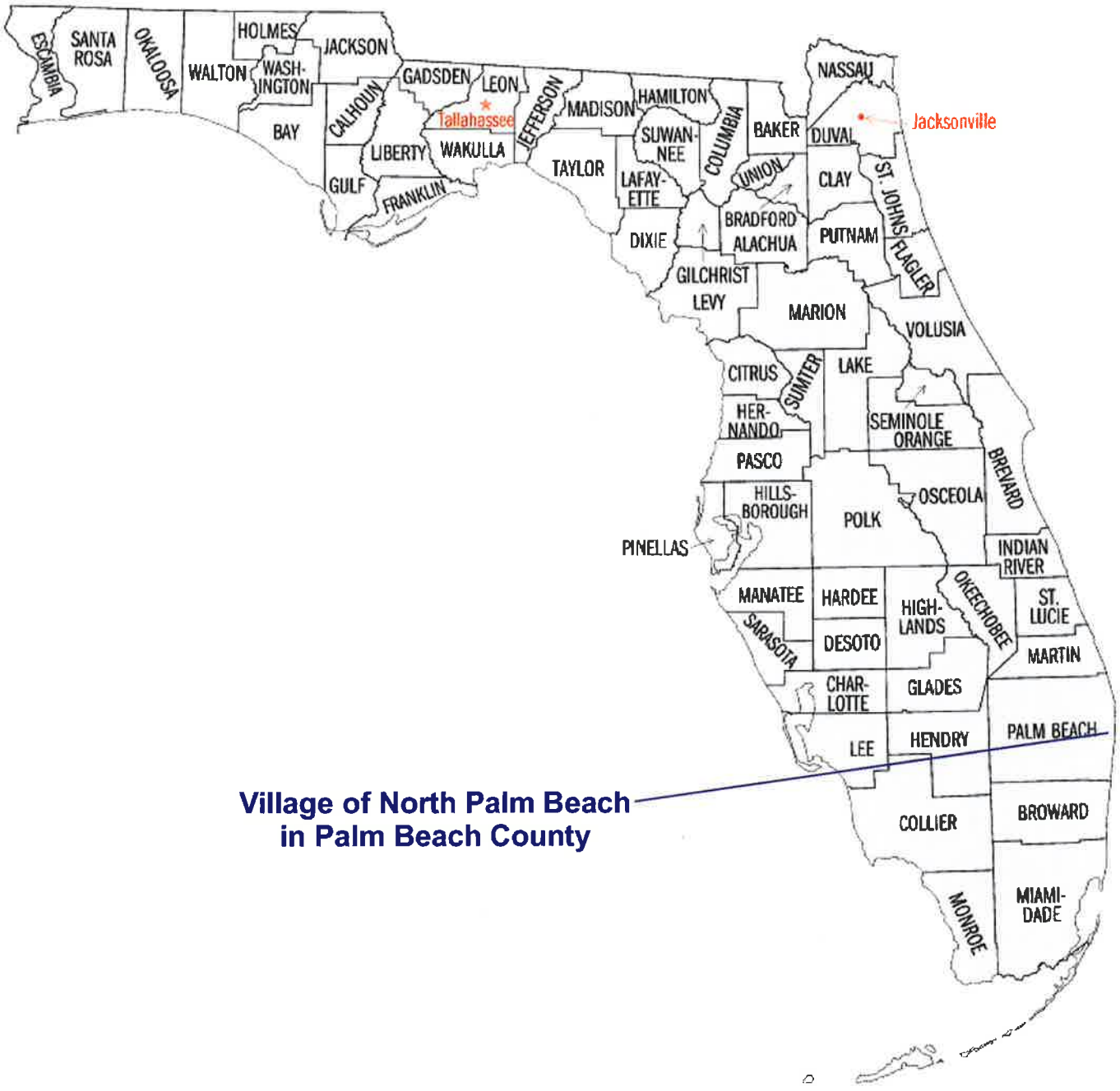
ATTACHMENT E-6
WATERWAYS ASSISTANCE PROGRAM 2016

PROJECT TIMELINE

Project Title:	Anchorage Park
Applicant:	Village of North Palm Beach

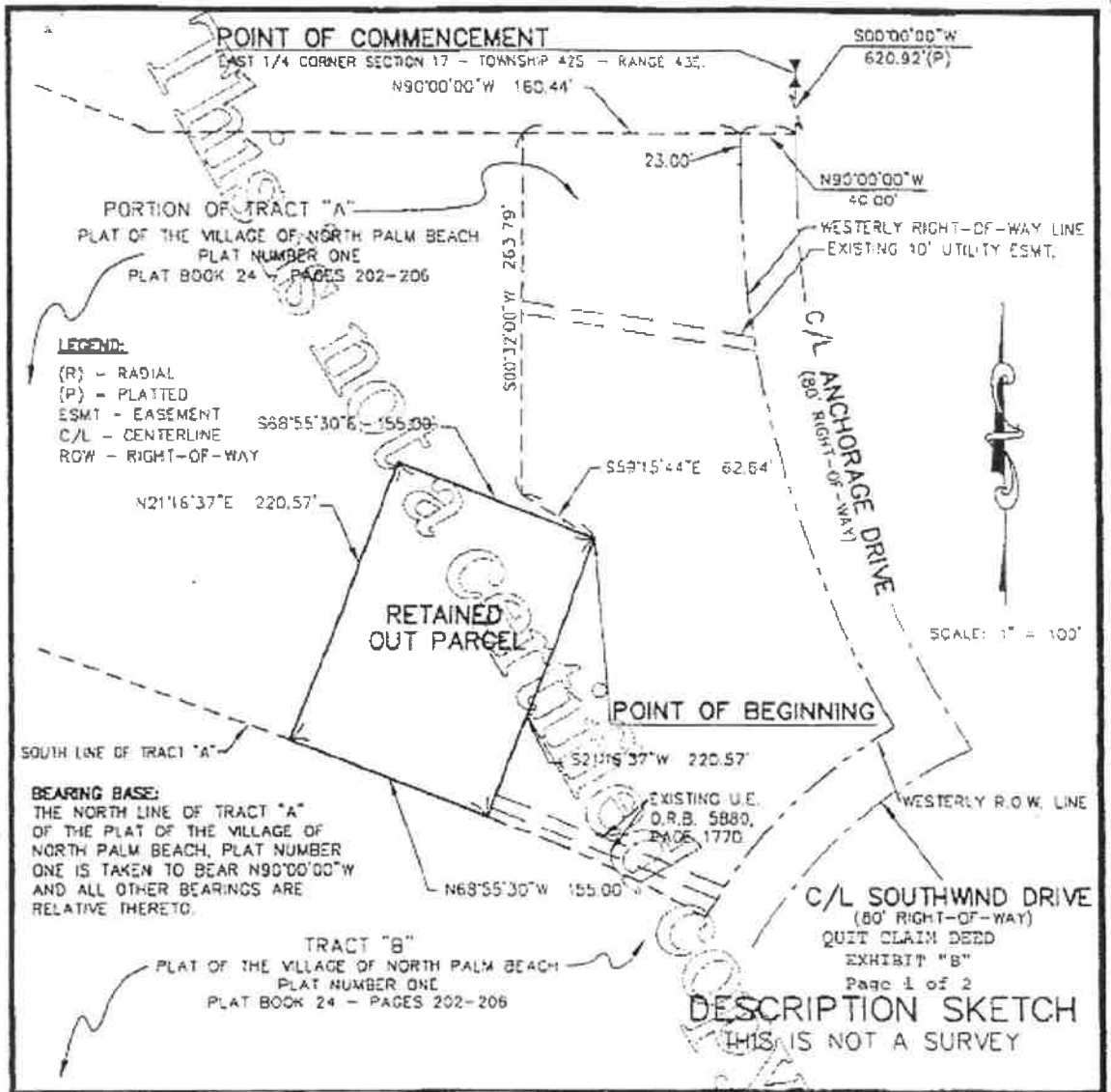
The applicant is to present a detailed timeline on the accomplishment of the components of the proposed project including, as applicable, completion dates for: permitting, design, bidding, applicant approvals, initiation of construction and completion of construction.
NOTE: All funded activities must begin AFTER October 1st
(or be consistent with Rule 66B-2.005(3) - Pre-agreement expenses)

Design and Engineering (Not part of the grant request)	August 2016
Permitting	August 2016
Contractor Selection	November 2016
Construction Commencement	January 2017
Construction Complete	July 2017


ESCAMBIA
SANTA ROSA
OKALOOSA
WALTON
HOLMES
WASH-INGTON
JACKSON
BAY
CALHOUN
GULF
FRANKLIN
GADSDEN
LEON
Tallahassee
LIBERTY
WAKULLA
JEFFERSON
MADISON
TAYLOR
HAMILTON
SUWAN-NEE
LAFAY-ETTE
COLUMBIA
DIXIE
BAKER
UNION
BRADFORD
ALACHUA
GILCHRIST
LEVY
NASSAU
DUVAL
Jacksonville
CLAY
PUTNAM
ST. JOHNS
FLAGLER
MARION
VOLUSIA
CITRUS
SUMTER
LAKE
HER-NANDO
SEMINOLE
ORANGE
PASCO
HILLS-BOROUGH
POLK
OSCEOLA
BREVARD
PINELLAS
INDIAN RIVER
MANATEE
HARDEE
HIGH-LANDS
OKEECHOBEE
ST. LUCIE
SARASOTA
DESOTO
MARTIN
CHAR-LOTTE
GLADES
LEE
HENDRY
PALM BEACH
COLLIER
BROWARD
MONROE
MIAMI-DADE
Village of North Palm Beach
in Palm Beach County


Atlantic Ocean
N Ocean Dr
A1A
Lake Worth
Intracoastal Waterway
Project Site
Lighthouse Dr
Florilla Rd
Northlake Blvd
To ICW
Earman River
North Palm Beach
10th St
Old Dixie Hwy
N Congress Ave
Burns Rd
Campus Dr
Pga Blvd
The Gardens
Atlantic Rd
ALT A1A
Northlake Blvd
1
786

ORB 11424 Pg 1686



SURVEYOR AND MAPPER'S SIGNATURE

1. UNLESS IT BEARS THE SIGNATURE AND ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER, THIS MAP/REPORT IS FOR INFORMATIONAL PURPOSES ONLY AND IS NOT VALID.
2. NO SEARCH OF THE PUBLIC RECORDS HAS BEEN MADE BY THIS OFFICE

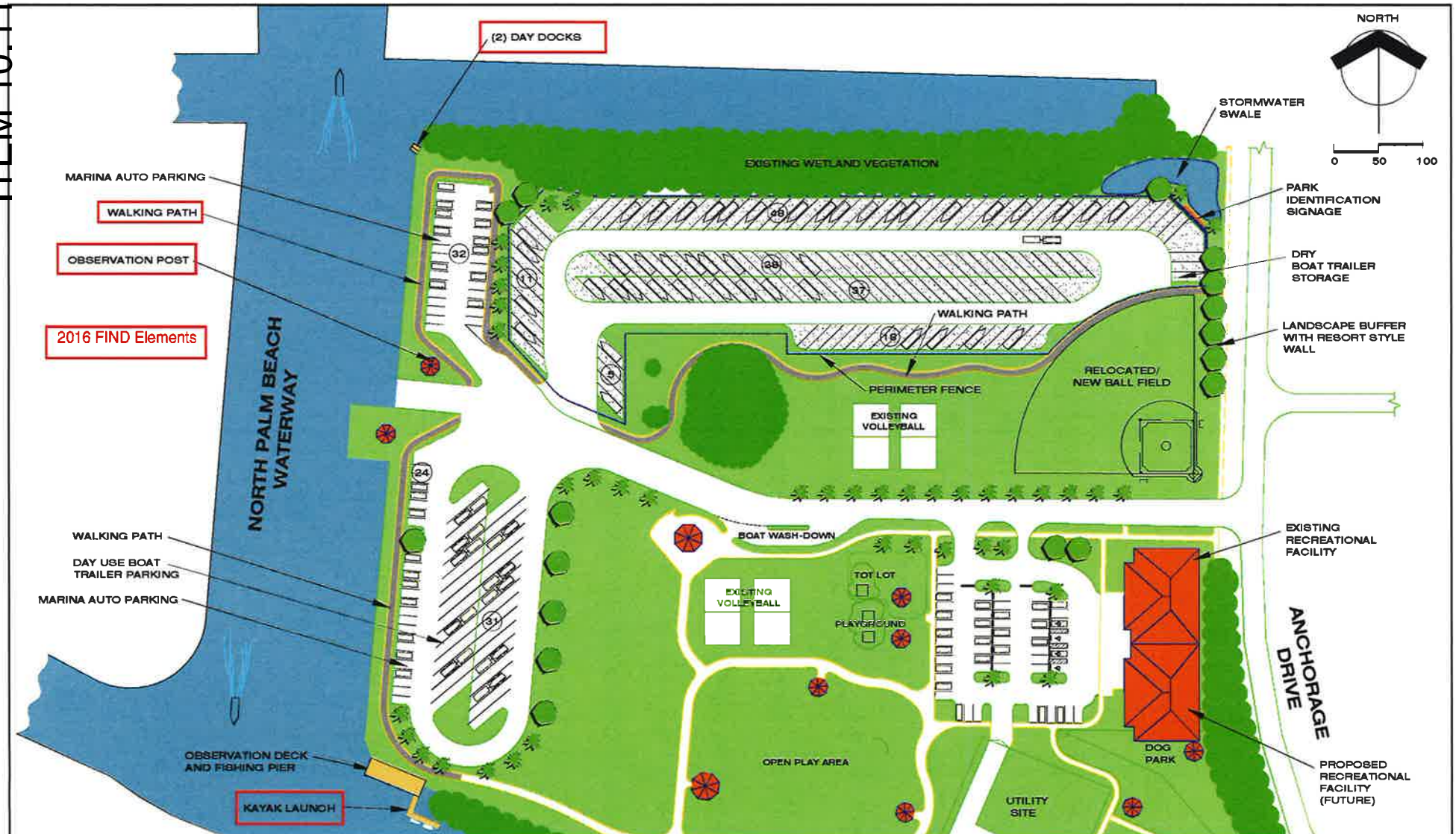
O. HOWARD DUKES, PROFESSIONAL SURVEYOR & MAPPER
STATE OF FLORIDA NO. 4533 L.B.F.M.C. CERTIFICATE NO. LB 959

4-3-98, OHD, ADD TRACT "A" LABELS
4-2-98, BK, DELETE TRACT "A" LABELS
REVISIONS:

PROJECT NAME:
SEACOAST UTILITY AUTHORITY
RETAINED OUT PARCEL
WITHIN TRACT "A" VNPB PLAT 1

LINDAHL, BROWNING, FERRARI & HELLSTROM, INC.
CONSULTING ENGINEERS, SURVEYORS & MAPPERS
2400 S.E. MONTEREY ROAD, SUITE 500
STUART, FLORIDA 34996
(561) 286-3883 FAX (561) 286-3925
WEST PALM BEACH JUPITER STUART FORT PIERCE OKEECHOBEE

Scale	Field	Sheet	Field Book	File No.
1"=100'	N/A	1 of 2	N/A Pg. N/A	88028DS2.DWG
Date 01-15-98	Computed ZZ Checked HD	Drawing No.	Work Order No. 88-280	



ANCHORAGE PARK

PARKING SUMMARY:

DRY STORAGE SPACES (30) = 93
DRY STORAGE SPACES (40) = 64 (ON PERIMETER)
TOTAL = 157
DAY-USE BOAT TRAILER PARKING = 31
MARINA AUTO PARKING = 56

Cardno TBE
3460 Fairlane Farms Rd., Suite 8, Wellington, Florida, 33414
www.cardnotbe.com - 800 661 8314
Certificate of Authorization No. 3843

REC'D
MAY 27 2016
Florida Inland
Navigation District

ATTACHMENT E-2

WATERWAYS ASSISTANCE PROGRAM FY 2016
PROJECT APPLICATION
APPLICANT INFORMATION – PROJECT SUMMARY

APPLICANT INFORMATION			
Applicant:	Village of Tequesta		
Department:	Police and Fire-Rescue		
Project Title:	Tequesta Marine Unit Project		
Project Director:	Peter J. Allen	**Title:**	Public Information Officer
Project Liaison: *(if different from Project Director)*		**Title:**	
Mailing Address:	357 Tequesta Dr.		
City:	Tequesta	**Zip Code:**	33469
Email Address:	pallen@tequesta.org	**Phone #:**	561-909-8884
Project Address:	357 Tequesta Dr. Tequesta, FL 33458		

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

SIGNATURE: _____ DATE: March 25, 2016

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

The Village of Tequesta, through the operations of its Police and Fire-Rescue Departments have provided Law Enforcement, Marine EMS and Dive-Rescue services to the residents and visitors of Tequesta, Jupiter and southern Martin County for the last eight years. The vessel that we currently use has reached the end of its serviceability and also has some limiting factors. With the purchase of a new Marine Unit we will be able to continue providing those services as well as improve our operation by incorporating several new features, including Marine Fire Suppression. This project is intended to provide funding toward that purchase.

Form No. 90-22, Rule 66B-2, (New 12/17/90, Rev.07-30-02, 04-24-06)

ATTACHMENT E-3 - PROJECT INFORMATION 2016

Applicant:	Village of Tequesta	**Project Title:**	Tequesta Marine Unit Project		
Total Project Cost: $	$265,000.00	**FIND Funding Requested: $**	$60,000.00	**% of Total Cost:**	22.64%
Amount and Source of Applicant's Matching Funds:	$205,000. Law Enforcement Forfeiture Funds				

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

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

The Village will purchase this vessel to own.

3. Once completed, will this project be insured against damage? Explain

Yes, the vessel will carry all appropriate insurance.

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

5. If yes, please list:

6. 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

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

0

8. Are fees charged for the use of this project? No ■ Yes ☐

9. 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		

Form No. 90-22a (New 10-14-92, Rev. 04-24-06, 4-15-07)

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.

Project Title:	Tequesta Marine Unit Project
Applicant:	Village of Tequesta

---

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.)

~~17. Other waterway related projects.~~

14. Waterway Boating Safety Programs and Equipment

b) Explain how the project fits this priority category.

The purchase of a new Police & Fire-Rescue Marine Unit does not fit into any of the other categories with the possible exception of 14. Waterway boating safety programs & equipment, as we do provide a boating safety club in the summer and use our vessel for that.

(For reviewer only)
Max. Available Score for application 44

Question 1. Range of Score (1 to 2 *points)*

---

2) WATERWAY RELATIONSHIP:

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

Part of the District's Mission is to "...provide assistance to other governments to develop waterway access and improvement projects." In assisting the Village with our project you are helping to improve the safety of those people who use the waterways.

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

Improved safety of those who navigate through this area.

(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.

Quantifying safety is difficult but we respond to 100% of requests by boaters in this area. We come into contact with probably 300 boaters per year in one manner or another.

b) Discuss the regional and local public benefits that will be provided by the project.

Improved safety in the form of Law Enforcement, Emergency Medical Services and Marine Firefighting are the benefits that will be provided both locally and regionally.

c) Can residents from other counties of the District reasonably access and use the project? Explain.

We provide service to 100% of our residents and visitors. No one is ever turned down or restricted.

(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.

We have determined the type of vessel and equipment that we need. We have received quotes and pricing and we are now in the process of raising the funds required to make this purchase. Should our project be funded we would expect to make the purchase before the end of 2016 and receive the vessel in March or April of 2017.

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

I don't believe there are any unique aspects. I believe the project is fairly straightforward and maintaining this time line should be easily achievable.

(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.

Tequesta Police Department will provide the balance, roughly $205,000 from their Forfeiture Account.

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

I am not aware of any.

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

We are continually looking for better pricing, Govt contracts, GSA pricing and other ways to reduce costs on 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.

We do not require and fees or bill anyone for the services we provide using the Marine Unit.

(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?

Without our boat there is no marine Emergency Medical Services and no marine Firefighting capability in northern Palm Beach County or southern Martin County. In fact, as far as we know, we are the only provider of Marine EMS north of Boca Raton.
I do not believe our Marine Unit is referenced in any marine management, public access or comp plan but we are certainly referenced in law enforcement and fire-rescue plans.

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

The Village has budgeted monies to be used to maintain the Marine Unit and has provided those monies for the last eight years.

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

Absolutely. We have saved the lives of numerous persons over the last eight years. There is no cost or price that can be associated with even one life, but the additional safety and service that we provide to our area is significant and lasting.

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

The Marine Unit is used in conjunction with FWC to provide Manatee Protection during specific dates and times.

(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-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.

Tequesta Police and Tequesta Fire-Rescue will provide Law Enforcement, Emergency Medical Services, Dive-Rescue and Marine Firefighting services to all users of the District's Waterways. We respond to medical emergencies, fires, water rescue, police matters and really anything else that we are requested to respond to.

d) How does the project provide significant benefits or enhancements to the District's Waterways?

We currently provide Law Enforcement, Emergency Medical Services, Dive-Rescue with our Marine Unit. With our new vessel we will add Marine Firefighting to the list. There is no other agency in the area that provides this. without us it doesn't exist. By adding Marine Firefighting we can also help keep boats from burning to the waterline and either sinking or becoming a hazard to navigation and possibly a derelict vessel.

(For reviewer only)
(1-3 points)

---

8) EXPERIENCE & QUALIFICATIONS:

a) List the personnel tasked with the implementation of this project, their qualifications, previous training and experience.

Peter Allen, USCG Licensed Capt, Paramedic, Firefighter, Dive-Rescue certified, HazMat Technician, former Charter Boat Capt, 40 years boating experience.
James Pike, USCG Licensed Capt, Police Officer, former Charter Boat Capt, 30 years boating experience.

b) Have the personnel participated in or received state marine law enforcement training?

All marine-assigned officers have.

(For reviewer only)
(1-2 points)

9) DELIVERABLES:

a) Describe the anticipated, long-term measurable results of implementing this project.

The anticipated results are increased safety for boaters and waterway users in our area. Sadly, accidents will happen, and we expect to respond to over 95% of the calls that we receive. Historically we are at 100% but there could be times of simultaneous calls.

b) What is the range or area of coverage for this project? Please provide a map of the coverage area.

We respond to anywhere that we are called to, regardless of geographical boundaries. However, a realistic response time requires a limited area so 5 miles north and 5 miles south of the Jupiter Inlet in the ICW and to the end of all three forks of the Loxahatchee River.

c) Does the project fulfill a particular community need?

Yes. There is no one else in northern Palm Beach or southern Martin Counties who provide this service, which in many cases is a truly life-saving service.

For reviewer only)
(1-4 points)

10) EDUCATION:

a) What are the educational benefits (if any) of this proposed project?

As a portion of our services we also provide a "Nautical Club" for youth where we teach them boating safety and where they earn their Safe Boater certification. We use this Marine Unit to take those children out to provide hands-on learning about boating and our area.

b) How does the project or program provide effective public boating education or expand boater safety?

We provide the Nautical Club described above which promotes boater safety education and we respond to all marine accidents and injuries and by doing so we expand and improve boater safety.

(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 2016

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

Project Title:	Tequesta Marine Unit Project
Applicant:	Village of Tequesta

Project Elements *(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)*	**Quantity or Total Estimated Cost** **(Number and/or Footage etc.)**	**Applicant's Cost**	**FIND Cost**
Purchase new Marine Unit, fully equipped.	$265,000.00	$205,000.00	$60,000.00

****TOTALS =**	**$** 265,000.00	**$** 0 $205,000.00	**$** 60,000.00

ATTACHMENT E-6
WATERWAYS ASSISTANCE PROGRAM 2016

PROJECT TIMELINE

Project Title:	Tequesta Marine Unit Project
Applicant:	Village of Tequesta

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 1st
(or be consistent with Rule 66B-2.005(3) - Pre-agreement expenses)

October 2016 - Project is approved and funded
November 2016 - Police funds are made available
December 2016 - Marine Unit is ordered

We have been advised that a 90-day time line is realistic for the manufacture and delivery

April 2017 - Vessel is delivered
April 2017 / May 2017 - Training is performed with all personnel

June 2017 - Marine Unit should be full operational.

Google Maps Village of Tequesta - Attachment E-4C, 9B



Google Maps

April 27, 2016 **[REVISED MAY 26, 2016]**

Mr. Mark Crosley
Executive Director
Florida Inland Navigation District (FIND)
1314 Marcinski Road
Jupiter, FL 33477

Re: MSA 726 Landscaping, Broward County, Florida
Professional Construction Administration Services – Phase II

Mr. Crosley:

Taylor Engineering is pleased to submit the enclosed revised scope of work (Attachment A) and revised fee proposal (Attachment B) for professional construction administration services for the MSA 726 Landscaping Project (Phase II). Primary tasks for Phase II (landscaping) include pre-construction coordination, construction administration, and project closeout over the expected ~~60~~75-day construction period and 90-day landscape establishment period.

Project continuity influenced our decision to secure IBI Group (Florida), Inc. (IBI) — the subconsultant for the site's landscape design — to serve as a local subconsultant and provide construction-phase observation and administration services.

During the May Board of Directors meeting, the Board requested that Taylor Engineering reconsider its construction administration and observation efforts. To achieve this goal, we have reduced the number of on-site visits from Jacksonville staff from three visits to two visits. We have reduced the number of on-site visits from West Palm Beach staff from nine visits to five visits. We have reduced the senior advisor budget, and we have reduced the estimated number of contractor requests for information from two to one. Overall, this reduces the budget by $5,157.00.

Taylor Engineering will perform these services on a cost plus basis, for a total cost not to exceed $~~41,502.50~~36,345.50 (Attachment B). Of this total, $17,315.00 represents IBI's fees.

We appreciate this opportunity to continue to serve FIND. Please contact me with any questions or comments.

Sincerely,

John Adams, P.E.
Senior Advisor, Waterfront Engineering

Attachments (43)

MSA 726 LANDSCAPING PROJECT
BROWARD COUNTY, FLORIDA
PROFESSIONAL CONSTRUCTION ADMINISTRATION SERVICES

ATTACHMENT A
SCOPE OF WORK

MSA 726 LANDSCAPING PROJECT
PROFESSIONAL CONSTRUCTION ADMINISTRATION SERVICES

The Florida Inland Navigation District (FIND) requested Taylor Engineering provide construction administration for Phase II (landscaping) of the MSA 726 Landscaping project. Located in Broward County, Florida, the project site lies south of Northeast 24th Street and north of Northeast 23rd Place in Pompano Beach, Florida. The completed construction project requires the following project tasks:

1. Site earthwork
2. Planting preparation
3. Landscape planting
4. Walking trail construction
5. Landscape establishment

Taylor Engineering has developed its scope of work based on the following assumptions:

1. Phase II landscaping (items 1 – 4 above) will extend from approximately July through the middle of September 2016 (75 days).
    a. During the 75-day contract time, IBI personnel will perform field observations two days per week, for approximately one to two hours each observation day.
    b. Also during this time, Taylor Engineering personnel will perform field observations one day ~~every two weeks~~each month from its West Palm Beach office. The observer will remain on site approximately two to three hours each observation day. Observation hours will occur throughout the week, and will coincide with every other biweekly construction ~~meetings~~meeting. For bi-weekly meetings that fall outside of this site visit schedule, IBI will attend those meetings on behalf of Taylor Engineering. We anticipate that these activities will require 75-days to complete; therefore, we budgeted ~~six~~ three observation days.
    c. In addition to weekly observations, a project engineer will visit the site approximately one time to attend one of the bi-weekly construction meetings and to assist the staff-level engineer in performing field observations.

2. Phase II landscaping establishment (item 5 above) will extend from approximately the middle of September through the middle of November 2016 (three months).
    a. During the three-month landscape establishment period, IBI personnel will perform field observations one day per week, for approximately one to two hours each observation day.
    b. Also during this time, Taylor Engineering personnel will perform a total of two field observations from its ~~one day each month from its~~ West Palm Beach office. The observer will remain on site approximately two to three hours each observation day. ~~We anticipate that these activities will require three months to complete; therefore, we budgeted three observation days.~~

3. Project construction will neither result in any substantial deviations from the project drawings and specifications nor violate environmental conditions.
4. Project construction will not encounter any environmental hazards or historic artifacts.
5. Project construction will not require any local, state, or federal permits, and will not encounter any delays related to such permitting.
6. Project construction will not encounter any delays caused by the general public.

If any of these assumptions prove incorrect, Taylor Engineering will work with FIND to develop appropriate modifications to this scope of work and cost.

TASK 1 PRE-CONSTRUCTION COORDINATION (PHASE II – LANDSCAPING)

This task includes the following sub-tasks:

- Prepare for and conduct a joint pre-construction and on-site coordination meeting at IBI office in Pompano Beach
- Review and approve contractor pre-construction submittals
- Make recommendations to FIND for issuance of a Notice to Proceed

Taylor Engineering and IBI representatives will conduct a combined pre-construction meeting and coordination meeting with the landscaping contractor. We assume this meeting will take place at the IBI office in Pompano Beach. To reduce project cost, Taylor Engineering staff from the Jacksonville office will participate by teleconference only. Immediately following the in-office meeting we may travel to the project site to address any issues that require a site visit. The pre-construction/coordination meeting will serve to describe the project and answer contractor's questions concerning any technical aspects of the work.

In addition, Taylor Engineering will discuss the ground rules and other issues including lines of engineer and contractor authority, general and specific contract conditions, contract administration, progress payment, correspondence procedures, project schedule, and submittal register. We will take minutes of the pre-construction meeting discussions and distribute them to FIND and the contractor. This meeting will occur after the Notice to Award and shortly before or immediately after the Notice to Proceed.

TASK 2 CONSTRUCTION ADMINISTRATION 75-DAY CONTRACT (PHASE II – LANDSCAPING)

We will help FIND administer the construction contract from our offices in West Palm Beach and Jacksonville, Florida, and from the project site. We will remain available through construction to provide advice and consultation to FIND through site visits and teleconferences. In this role, we will address questions pertaining to engineering, design, permitting issues, and any proposed changes to project design.

This task includes the following sub-tasks:

- Review up to 4 shop drawings and construction submittals
- Responding to up to ~~two~~ one construction requests for information (RFI~~s~~)
- Observe construction activities (~~6~~ 3 site visits by staff-level engineer, 1 by project level engineer)
- Prepare general site visit report following each site visit
- Coordinate site visits with IBI
- Review IBI site visit reports
- ~~—~~Schedule and prepare for ~~4~~ 2 on-site progress meetings ~~occurring every two weeks~~
- Schedule and prepare for up to one additional coordination meeting attended via teleconference
- Prepare up to one work change directive
- Prepare up to one change order directive

- Review and approve up to two monthly pay applications

During the site preparation and landscape planting work, IBI personnel, given their close proximity to the project site, will perform field observations two days per week, for approximately one to two hours each observation day.

Taylor Engineering personnel (staff-level engineer) will perform field observations one day ~~every two weeks~~each month. An observer from the West Palm Beach office will be located on-site approximately two to three hours each observation day. Observation hours will occur throughout the week during regular business hours. We anticipate that these activities will require two months to complete and have budgeted for ~~6~~ three observation days accordingly.

Our visits will include observation of the work and monitoring of the contractor's means, methods, and sequence. However, we will not direct the contractor's means and methods of construction. Additionally, Taylor Engineering is not responsible for job site safety. As part of the observation process, each observer will complete a daily construction report which will become part of the project record.

Construction observation will evaluate the contractor's work to:

- Maintain site grading requirements
- Maintain a current construction schedule
- Provide submittals on time and in proper format
- Protect environmental resources
- Follow quality control procedures to produce an end product that meets contract requirements
- Remove waste and debris from the project site
- Protect existing site amenities (restroom and parking facilities)

To reduce travel costs, an engineer from the Jacksonville office will attend only one construction progress meeting on-site. We have budgeted for one trip from the Jacksonville office for construction meeting attendance. For the remaining construction progress meetings, an engineer from the West Palm Beach office will attend in person, and an engineer from the Jacksonville office will attend by phone. Additionally, if unexpected problems arise outside of these meetings, we will attend a maximum of up to one problem resolution meeting via teleconference.

Throughout the observation process, we will notify FIND of any work stoppages or conflicts and recommend to FIND ways to resolve these issues. Taylor Engineer's senior advisor will provide senior management review and quality control/quality assurance oversight.

TASK 3 LANDSCAPE ESTABLISHMENT (90-DAYS)

During the 90-day landscape establishment period we will continue to help FIND administer the landscape work from our offices in West Palm Beach and Jacksonville, Florida, and from the project site. In this role, we will address questions pertaining to engineering, design, permitting issues, and any proposed changes to project design.

This task includes the following sub-tasks:

- Review landscape establishment watering and maintenance records
- Responding to up to one construction requests for information (RFI)
- Observe construction activities (~~three~~ two site visits by staff-level engineer)

- Prepare general site visit report following each site visit
- Coordinate site visits with IBI
- Review IBI site visit reports
- Prepare up to one work change directive
- Prepare up to one change order directive
- Review and approve up to three monthly pay applications

During the landscape establishment period, IBI personnel will perform field observations one day per week, for approximately one to two hours each observation day.

Taylor Engineering personnel (staff-level engineer) will perform field observations ~~one day every four weeks~~two times during the Landscape Establishment Period. An observer from the West Palm Beach office will be located on-site approximately two to three hours each observation day. Observation hours will occur throughout the week during regular business hours. ~~We anticipate that these activities will require two months to complete and have budgeted for three observation days accordingly.~~

Throughout the observation process, we will notify FIND of any work stoppages or conflicts and recommend to FIND ways to resolve these issues. Taylor Engineer's senior advisor will provide senior management review and quality control/quality assurance oversight.

TASK 4 PROJECT CLOSE-OUT (PHASE II – LANDSCAPING)

This task includes the following sub-tasks:

- Develop preliminary and final punch lists
- Certify substantial completion of the project
- Review final pay application
- Review contractor release of lien
- Attend final observation meetings
- Conduct final review/acceptance of field data

Once FIND receives from the contractor a request to certify the project substantially complete, Taylor Engineering will visit the project site to determine the degree of completion. If we cannot certify substantial completion, we will develop preliminary and final punch lists of items for the contractor to complete or correct. With concurrence from FIND, we will transmit this list to the contractor. Upon completion of outlined items, we will certify the project substantially complete. We have budgeted for two on-site meetings during this stage of the project. To reduce travel time and cost, Taylor Engineering personnel from Jacksonville will attend just one of these two on-site closeout meetings.

We will collect and review the following information from the contractor before project closeout.

- Final waiver and release of lien from contractor (does not include subcontractors, material suppliers, or equipment vendors, etc.)
- Final pay application
- Post-construction record drawings
- Post-construction/as-built survey

Taylor Engineering will prepare a DVD (or a set of DVDs, if necessary) of the construction project records for submittal to FIND at project completion.

ESTIMATED SCHEDULE

No.	Task	Months from Notice to Proceed						
		1	2	3	4	5	6	7
1	PRE-CONSTRUCTION COORDINATION (PHASE II – LANDSCAPING)							
2	CONSTRUCTION ADMINISTRATION 75-DAY CONTRACT (PHASE II – LANDSCAPING)							
3	LANDSCAPE ESTABLISHMENT (90-DAYS)							
4	PROJECT CLOSE-OUT (PHASE II – LANDSCAPING)							

MSA 726 CLEARING & LANDSCAPING PROJECT
BROWARD COUNTY, FLORIDA
PROFESSIONAL CONSTRUCTION ADMINISTRATION SERVICES

ATTACHMENT B
COST PROPOSAL

TAYLOR ENGINEERING, INC.
COST SUMMARY BY TASK
P2016-066: FIND: MSA-726 Phase II CA

TASK 1: PRE-CONSTRUCTION COORDINATION (PHASE II – LANDSCAPING)

Labor	Hours		Cost	Task Totals
Senior Advisor	1	$	188.00	
Senior Professional	1	$	148.00	
Project Professional	3	$	327.00	
Staff Professional	10	$	860.00	
Total Man-Hours	15			
Labor Cost				$ 1,523.00
Non-Labor	Units		Cost	
Travel from WPB (1 trip)	1	$	60.00	
IBI Subcontract	1	$	690.00	
Non-Labor Cost		$	750.00	
Fee @ 10%		$	75.00	
Total Savings Task 1				
Total Task 1				$ 2,348.00

TASK 2: CONSTRUCTION ADMINISTRATION 75-DAY CONTRACT (PHASE II – LANDSCAPI

Labor	Hours		Cost	Task Totals
Senior Advisor	2	$	376.00	
Senior Professional	2	$	296.00	
Project Professional	25	$	2,725.00	
Staff Professional	38	$	3,268.00	
Technical Editor	2	$	204.00	
Total Man-Hours	69			
Labor Cost				$ 6,869.00
Non-Labor	Units		Cost	
Travel from WPB (3 trips)	3	$	180.00	
IBI Subcontract	1	$	8,740.00	
Travel from Jax and hotel stay (1 trip)	1	$	300.00	
Non-Labor Cost		$	9,220.00	
Fee @ 10%		$	922.00	
Total Task 2				$ 17,011.00

TASK 3: LANDSCAPE ESTABLISHMENT (90-DAYS)

Labor	Hours		Cost	Task Totals
Senior Advisor	3	$	564.00	
Project Professional	13	$	1,417.00	
Staff Professional	31	$	2,666.00	
Total Man-Hours	47			
Labor Cost				$ 4,647.00
Non-Labor	Units		Cost	
Travel from WPB (3 trips)	2	$	120.00	
IBI Subcontract	1	$	6,505.00	
Non-Labor Cost		$	6,625.00	
Fee @ 10%		$	662.50	
Total Task 3				$ 11,934.50

TASK 4: PROJECT CLOSE-OUT (PHASE II – LANDSCAPING)

Labor	Hours		Cost	Task Totals
Senior Advisor	1	$	188.00	
Project Professional	15	$	1,635.00	
Staff Professional	19	$	1,634.00	
Total Man-Hours	35			
Labor Cost				$ 3,457.00
Non-Labor	Units		Cost	
Budget for travel from Jax and hotel stay (1 trip)	1	$	300.00	
IBI Subcontract	1	$	1,150.00	
Non-Labor Cost		$	1,450.00	
Fee @ 10%		$	145.00	
Total Task 4				$ 5,052.00

Project Total **$36,345.50**

MSA 726 CLEARING & LANDSCAPING PROJECT
BROWARD COUNTY, FLORIDA
PROFESSIONAL CONSTRUCTION ADMINISTRATION SERVICES

ATTACHMENT C
IBI GROUP (FLORIDA) INC.
SCOPE OF WORK AND COST PROPOSAL

Form of Change Order

Change Order No. CA-1

Construction Administration

☒ 2200 PARK CENTRAL BLVD., N., SUITE 100
POMPANO BEACH, FLORIDA 33064 USA
Phone: (954) 974-2200 • Fax: (954) 973-2686

☐ 2300 MAITLAND CENTER PARKWAY, SUITE 101
MAITLAND, FLORIDA 32751 USA
Phone: (407) 660-2120 • Fax: (407) 875-8308

ATTN:	**Mr. Robert DiRienzo**	PROJECT NUMBER:	**36318**
CLIENT:	**Taylor Engineering**	DESCRIPTION:	Construction Administration Estimate for MSA-726, Pompano Beach, Florida
ADDRESS1:	**10151 Deerwood Park. Blvd.**		
ADDRESS2:	**Building 300, Suite 300**		
CITY/ST/ZIP:	**Jacksonville, FL 32256**		
EMAIL:	rdirienzo@taylorengineering.com		

IBI Group and the Consultant refer to the Amendment No. 1 to Subcontract Agreement for Tree Preservation Services and Construction Administration, executed: December 21, 2015 between IBI Group (Florida) Inc and Taylor Engineering Inc (the "Agreement").

Change Order to Agreement:

IBI and the Consultant agree to amend the Agreement through this Change Order, as follows:

Section 1 – Scope of Amendment:

IBI and the Consultant agree to the following changes to the Consultant Services pursuant to this Change Order:
Additional services – Construction Administration

Section 2 – Payment and Reimbursement Amendment:

The change in the Consultant's fee payment amount(s), or reimbursable amounts, as originally set out in *the Work Order* Agreement, is as follows:

To increase budget for additional construction administration services as follows:

	Description	Total
IBI		
Task 18	Pre-Construction Coordination Meeting – in office and on-site (estimate 6 hrs. @ 115.00 = 690.00)	$690.00
Task 19	Construction Administration (75 days / 11 weeks): a. Attend 8 bi-monthly construction meetings plus 24 site inspection visits + progress reports (estimate 76 hrs. @ 115.00 = 8,740.00) b. Address change orders / work change directives / RFI's (estimate 6 hrs. @ 115.00 = 690.00)	$9,430.00
Task 20	Landscape Establishment Period (90 days / 13 weeks): a. Perform weekly site visits / inspections plus photos and reports (estimate 33 hrs. @ 115.00 = 3,795.00)	$3,795.00
Task 21	Project Close-out Meetings: a. Attend two project close-out meetings (estimate 6 hrs. @ 115.00 = 690.00) b. Assist in punch list preparation (estimate 4 hrs. @ 115.00 = 460.00	$1,150.00
Task 22	Contingency/principal review/Coordination: a. Estimate 10 hrs. @ 225.00 = 2250	$2,250.00
	Landscape Architecture – Total:	**$17,315.00**

- **NOTE**: Additional meetings, additional site visits, inspections or other construction administration services are not included.

Original Contract	$26,500.00
Previous Approved Change Orders	$42,060.00
Amount of This Change Order	$17,315.00
Total Adjusted Contract	$85,875.00

Section 3 – Schedule Amendment:

The change in the scope of the Consultant Services described above includes the corresponding change in the schedule for the provision and delivery of the Consultant Services, as set out below:

N/A

Change Order:

The defined terms used in this Change Order, have the meaning ascribed to them in the Agreement.

The Consultant Services, fees and expenses and corresponding schedule are revised as stated above.

Except as specifically modified in this Change Order, the Consultant's provision of the Consultant Services under the Agreement shall be carried out and executed in accordance with, and subject to, the terms and conditions of the Agreement (Attached).

This Change Order No. CA-1 for Construction Administration Services is agreed to by each party, and is effective as of **April 20, 2016.**

IBI Group (Florida) Inc.

By: 

Name: Patricia F. Ramudo, PE LEED AP

Title: Manager of Engineering

IBI Group (Florida) Inc.

By: 

Name: Timothy R. Foley, CPA

Title: Regional Director of USA East

By: 

Name: Debra Hernandez, RLA

Title: Landscape Architect

Taylor Engineering

By: _____

Name: _____

Title: _____

(Rates effective for services performed between February 28, 2014 through October 31, 2016

Professional Staff	Rate/Hour
Principal/Director	$ 300.00
Principal	$ 225.00
Project Manager IV	$ 175.00
Project Manager III	$ 140.00
Project Manager II	$ 130.00
Project Manager	$ 120.00
Assistant Project Manager	$ 100.00
Project Coordinator	$ 90.00
Senior Engineer	$ 130.00
Intermediate Engineer	$ 120.00
Junior Engineer	$ 110.00
Engineering Intern II	$ 95.00
Engineering Intern I	$ 85.00
Registered Landscape Architect	$ 115.00
Landscape Architect (Non-registered)	$ 110.00
Senior Landscape Designers	$ 85.00
Landscape Designer	$ 75.00
Senior Planner	$ 125.00
Planner	$ 85.00
Transportation Engineer	$ 200.00
Intermediate Transportation Engineer	$ 150.00
Senior Transportation Engineer	$ 135.00
Intermediate Construction Inspector	$ 75.00
Systems - Chief Architect/Engineer	$ 250.00
Sr. Systems Engineer	$ 175.00
Systems Architect/Engineer	$ 125.00
Senior Systems Developer	$ 175.00
Intermediate Developer	$ 125.00
Developer	$ 100.00
IT Support Technician	$ 85.00
Professional Land Surveyor	$ 130.00
Land Surveyor	$ 110.00
3 Man Crew	$ 175.00
2 Man Crew	$ 125.00
GPS Crew	$ 225.00
Professional Representation	$ 275.00

Technical/Support Staff	Rate/Hour
Senior CADD Operator	$ 105.00
Intermediate CADD Operator	$ 85.00
Junior CADD Operator	$ 75.00
GIS Technical Specialist	$ 105.00
Computer Specialist	$ 85.00
Intern II	$ 60.00
Intern I	$ 45.00
Admin Assistant	$ 65.00
Senior Contract Administrator	$ 75.00
Intermediate Contract Administrator	$ 65.00
Junior Contract Administrator	$ 55.00

Reimbursable Expenses:		
		Each
		Each
Xerographic Prints (In-house)	$ 1.75	
Standard Size Color Plots (24" x 36")	$ 65.00	
Large Color Plots	$ 75.00	Each
Photostats/Mylar Reproducibles	At Cost Plus 15%	
Xerox Copies	$ 0.15	Each
Color Xerox Copies		Each
8 1/2 x 11	$ 2.00	Each
8 1/2 x 14	$ 2.50	
11 x 17	$ 3.00	
Fax Transmittals	$ 1.00	
Outside Consultant Services	At Cost Plus 15%	
Equipment	At Cost Plus 15%	
Federal Express/Courier Service	At Cost Plus 15%	
Commercial Air Travel	At Cost Plus 15%	
Long Distance Phone	At Cost Plus 15%	
Toll Expenses	At Cost Plus 15%	
Mileage Expenses (At Cost Plus 15%)	$ 0.575	

Other Services Upon Request

1. STANDARD OF CARE. In the performance of the Services, IBI Group will use that level of care and skill ordinarily exercised by reputable members of IBI Group's profession currently practicing in the same locality under similar conditions. No other representation, guarantee, or warranty, express or implied, is included or intended in this Agreement, or in any communication (written or oral), report, opinion, document, or instrument of service.

2. PAYMENT IBI Group's fees and expenses will be paid in accordance with this Section 3 of the Agreement.

The Client will, subject to IBI Group's performance of its duties and obligations under this Agreement, pay IBI Group for the provision of the Services, plus applicable taxes, as set out in the Agreement.

IBI Group reserves the right, without penalty, to discontinue Services and or terminate this Agreement in the event of non-payment.

If the project is abandoned or delayed for any reason beyond IBI Group's control, the Client shall pay for Services rendered to that date, plus termination expenses reasonably incurred by IBI Group in winding down the project.

IBI Group's fees and expenses are secured upon and run with title to the lands.

3. SUSPENSION OR TERMINATION. Either party may, by notice in writing to the other party, suspend or terminate the Services or any portion thereof at any stage of the project. Upon receipt of such written notice, IBI Group shall perform no further Services other than those reasonably necessary to close out the Services. In such an event, IBI Group shall be entitled to payment for all work completed, plus reasonable close-out costs. The limitation of liability and indemnity obligations in this Agreement shall survive any suspension or termination of this Agreement.

4. PROBABLE COSTS. IBI Group does not guarantee the accuracy of probable costs for providing Services hereunder. Such probable costs represent only IBI Group's judgment as a professional entity and are supplied only for the general guidance of the Client.

5. INDEMNIFICATION: IBI Group shall indemnify and save harmless the Client from and against all claims, actions, losses, expenses, costs or damages of every nature and kind whatsoever which the Client, its directors, officers, employees, or agents may suffer, to the extent IBI Group is legally liable as a result of the negligent acts of IBI Group, its employees, officers or agents in the performance of this Agreement.

The Client agrees to indemnify and save harmless IBI Group from and against any and all claims, actions, losses, expenses, costs or damages arising out of or in any way connected with the presence, discharge, release or escape of contaminants of any kind, excluding only such liability as may arise out of the negligent acts of IBI Group in the performance of the Services to the Client on this project.

7. LIMITATION OF LIABILITY. Notwithstanding any other provision of this Agreement, the total liability of IBI Group, its directors, officers, employees and agents for liabilities, claims, judgments, demands and causes of action arising under or related to this Agreement, whether based in contract or tort, shall be limited to the total compensation actually paid to IBI Group for the Services or $500,000, whichever is less. All claims by the Client shall be deemed relinquished unless filed within one (1) year after substantial completion of the Services. No party shall be liable for any consequential, incidental, indirect, special or punitive damages in any way related to this Agreement.

8. INSURANCE. IBI Group will maintain insurance for this Agreement in the following types: 1) workers' compensation insurance at statutorily required levels; 2) general and professional liability insurance; and 3) automobile liability insurance for bodily injury and property damage.

9. RESPONSIBILITY. IBI Group is not responsible for the completion or quality of work that is dependent upon or performed by the Client or third parties not under the direct control of IBI Group, nor is IBI Group responsible for their acts or omissions or for any damages resulting therefrom.

10. EXCLUSIVE USE. Services provided under this Agreement, including all reports, information or recommendations prepared or issued by IBI Group, are for the exclusive use of the Client for the purpose specified. No other use is authorized under this Agreement. The Client will not distribute or convey IBI Group's reports, designs or recommendations to any person other than those identified in the project

description without IBI Group's prior written approval. The Client releases IBI Group from liability and agrees to defend and indemnify IBI Group from any and all claims, liabilities, damages or expenses arising, in whole or in part, from such unauthorized distribution.

10. ASSIGNMENT. Neither party shall assign its interest in this Agreement without the prior written consent of the other.

11. CONFIDENTIAL INFORMATION. IBI Group shall not divulge any specific information identified as confidential, communicated to or acquired, or disclosed by the Client in the course of carrying out the Services. No such information shall be used by IBI Group on any other project without the written approval of the Client. These obligations of confidentiality shall not apply to information which is in the public domain; which is provided to IBI Group by a third party without obligation of confidentiality; which is independently developed by IBI Group without use of the Client's information; or which is required to be disclosed by law or by court order.

12. INTELLECTUAL PROPERTY. IBI Group retains ownership of all right, title and interest (including copyright) in and to the intellectual property it provides through this Agreement. Nothing in these Terms and Conditions constitutes a transfer or conveyance of any right, title or interest in the intellectual property, except the limited license to use it for its intended purpose, which includes the general maintenance and management of the asset or project.

13. SUCCESSORS and ASSIGNS. This Agreement shall be binding upon the parties, their partners, successors, assigns and legal representatives.

14. AMENDMENT. This Agreement may be amended or modified only by written instrument executed by authorized representatives of both the Client and IBI Group.

15. SEVERABILITY. If any provision of this Agreement is for any reason held invalid or unenforceable, such provision shall be deemed separate and shall not affect the validity of the remaining provisions of this Agreement.

16. GOVERNING LAW. This Agreement and legal actions concerning its validity, interpretation and performance shall be governed by and interpreted in accordance with the laws of the jurisdiction in which the project is located; and it is further agreed by the parties that any legal action arising under this Agreement will be brought in a court of competent jurisdiction in such jurisdiction.

17. THIRD PARTY BENEFICIARIES. Nothing contained in this Agreement shall create a contractual relationship with or cause of action in favour of a third party against either the Client or IBI Group. The Services under this Agreement are being performed solely for the Client's benefit, and no other party or entity shall have any claim against IBI Group because of this Agreement or the performance or non-performance of Services hereunder. The Client and IBI Group agree to require a similar provision in all contracts with contractors, subcontractors, subconsultants, vendors and other entities involved in the project to carry out the intent of this provision.

18. ENTIRE AGREEMENT. This Agreement, including attachments incorporated by reference, represents the entire agreement between IBI Group and the Client and supersedes all prior negotiations, representations, or agreements, either written or oral. The Client acknowledges and agrees that its use of any purchase order or other form to procure Services is solely for administrative purposes and in no event shall IBI Group be bound to any terms and conditions on such form regardless of its signature on or reference to such form.

19. REMITTANCE ADDRESS.

Pompano Beach Office:

2200 Park Central Boulevard North-Suite 100
Pompano Beach, Florida 33064 United States
Tel 954 974 2200
Fax 954 973 2686


MSA 726
Legend
IWW Channel
IWW ROW
MSA FO-726,726B,726C
N-Riverside-Dr
300 ft
N

June 6, 2016

Mark Crosley
Executive Director
Florida Inland Navigation District
1314 Marcinski Road
Jupiter, Florida 33477

Re: Swimming Hall of Fame (SHOF) Florida Power & Light (FPL) Utility Relocation
Broward Intracoastal Waterway (ICWW) Deepening; Broward County, Florida

Mr. Crosley:

This letter is to briefly summarize Taylor Engineering's efforts to date to assist with coordinating and progressing the subject utility relocation. In order to have a continuously deepened navigation channel, relocation of the SHOF FPL duct bank is critical to the utility of the ongoing deepening project in Broward County. The following bullets provide a summarized timeline of efforts and milestones achieved to date.

- February 2015: Initial meetings with FPL to discuss the need for relocation of SHOF and Seville Street utilities.
- March 2015: Decision to prioritize SHOF crossing over Seville street. Initial discussion with FPL on who will pay for the SHOF relocation.
- April 2015: Taylor Engineering receives letter (**Attachment 1**) from FPL with a "ball park" estimate of $2.25M for the SHOF relocation. Letter contains an offer to generate a binding detailed Engineering Cost Estimate for a deposit of $21,600.
- April 2015: FIND Board approves FPL request for $21,600 to initiate engineering cost estimate. FPL agrees to proceed with the cost estimate for SHOF. FIND decides to terminate the deepening project just north of Las Olas Marina to avoid the need to relocate the Seville St. Utility line (at an estimated cost of $1.1 M).
- June 2015: FPL progresses through design efforts.
- July 2015: FIND holds pre-bid meeting for deepening project
- August 2015: Taylor Engineering provides ICWW cross sections data to FPL
- September 2015: No responses from FPL
- October 2015: No responses from FPL
- November 2015: FIND awards dredging contract to Jay Cashman
- December 2015: Taylor Engineering clarifies to FPL that the dredging contract does not include removal of existing duct bank, it needs to be in the FPL contract.
- January 2016: FPL completes designs, submits permit applications to all agencies, submitted request for bids. Taylor Engineering requests cost estimate by March 2016 for FIND Board review and approval. FPL agrees to provide costs by March for April FIND Board Meeting.
- February 2016: Taylor Engineering makes multiple attempts to get cost estimate from FPL to no avail.
- March 2016: FPL initiates bidding process. Expects contractor on board by April and project completion by 1 June.
- April 2016: FPL receives contractor bids.
- May 2016: FPL requests FIND billing info for preliminary invoice. FIND yet to review a cost estimate.

- May 2016: FIND receives general cost estimate (**Attachment 2**) and draft contract from FPL for review. With requested payment ($1.1 M) received by end of June, FPL expects to commence construction by late August. The contractor is expected to be dredging in the area around late August/early September.
- May 2016: Taylor Engineering requests more detail in general cost estimate. FPL declines to provide.
- June 2016: FPL provides construction sketch and notes on SHOF crossing (**Attachment 3**).

Based on the project need, provided schedule, and fee, Taylor Engineering recommends payment of $1.1 M for FPL for timely relocation of the SHOF duct bank. If you have any questions, please contact me by telephone at 904-731-7040 or by e-mail at jscarborough@taylorengineering.com.

Sincerely,

Jerry Scarborough, P.E.
Senior Advisor, Waterfront Engineering

Cc: Ms. Melanie Syed, FPL Engineering Leader

Attachments (3)

FACILITIES RELOCATION AGREEMENT
(Individual, Corporation, or Business Entity)

THIS AGREEMENT made and entered into this 20 day of May 2016 by and between Florida Inland Navigation District whose address is 1314 Marcinski Road, Jupiter,Fl, 33477, hereinafter called the Applicant, and FLORIDA POWER & LIGHT COMPANY, a Florida corporation with its principal place of business in Dade and Palm Beach Counties, Florida, hereinafter called FPL.

WITNESSETH:

WHEREAS the Applicant intends to construct Dredge underneath inetercoastal to provide new required depth at Vecinity of Aurelia PL and Swimming Hall of Fame, Ft Lauderdale and will require the relocation of certain incompatible and conflicting portions of FPL's Facilities and equipment, and

WHEREAS FPL will incur costs in the relocation of FPL's existing and proposed facilities which costs would not have occurred but for the Applicant's construction,

NOW THEREFORE, in consideration of the mutual promises of the Applicant and FPL and other good and valuable consideration, the Parties agree that FPL shall relocate the FPL facilities and the Applicant shall reimburse FPL for the actual cost of such relocation as follows:

ARTICLE 1 - DEFINITIONS

For the purposes of this Agreement the following terms, whether used in the singular or plural, shall have the meanings set forth below when used with initial capitalization:

1.1 Betterment is any increase in service capacity of the Replacement FPL Facilities over the service capacity of the FPL Facilities prior to Relocation which is not attributable to Contractor's construction, and any upgrading of a Replacement FPL Facility above FPL's current minimum standard practices, as specified in Article III of this Agreement, that normally would be used on projects financed solely by FPL. Betterment does not include: (a) any increase in service capacity required by federal, state or local law which applies to FPL Facilities as of the date of construction of the Replacement FPL Facilities; (b) any increase in service capacity resulting solely from the replacement of devices or materials which at the time of construction of the Replacement FPL Facility are no longer manufactured, processed, or installed and used by FPL in projects financed entirely by FPL, (c) any upgrading of a Replacement FPL Facility requested by the Applicant, (d) any upgrading of a Replacement FPL Facility required by any agency responsible for regulation of FPL Facilities, (e) any upgrading of the Replacement FPL Facility which is necessitated by the Applicant's construction, if the replacement is the same as that used by FPL on FPL's own projects, or (f) any upgrading that will result in a reduction in the overall project cost.

1.2 Conversion is the replacement of existing overhead facilities with underground facilities.

1.3 Credit Ratio is the credit given to the Applicant in the form of a percentage derived by dividing the sum of the Betterment and the Non-Reimbursable Work Credit by the Total cost of the Relocation:

$$\text{Credit Ratio} = \frac{\text{Dollar Amount of Betterment + Non-Reimbursable Work Credit}}{\text{Total Cost of Relocation - The Land and Land Right Cost}}$$

1.4 Date Cost Estimate Received, for purposes of this Agreement, shall be deemed to be the day that the cost estimate was hand-delivered or transmitted by facsimile, or if mailed, five days from the date of postmark.

1.5 FPL's Facility or Facilities shall be, but shall not be limited to, any structure consisting of manholes, conduits, poles, wires, cables, substations, system protection equipment or other appurtenances, and associated equipment, and used by FPL in connection with the transmission and/or distribution of electric power. Applicant understands that this agreement is solely for the relocation of FPL facilities. It is the Applicant's responsibility to contact the owners of facilities co-located on FPL's poles (such as telephone, cable and wireless/cell phone providers), and to negotiate, and pay the cost of, the relocation of such facilities. Applicant understands that FPL's work under this agreement cannot proceed until such third party negotiations have been completed. Applicant shall provide FPL with written documentation from each such third party provider reflecting the date upon which such third party facilities will be relocated.

1.6 Relocation and/or Relocate includes the terms "rearrange or rearrangement" and is the work performed by FPL under this Agreement and any activity made necessary by Applicant's construction which conflicts with or affects FPL, its Facilities, or service. Relocations shall include conversion of transmission facilities and shall include, but shall not be limited to, permanent or temporary support, protection, relocation, rearrangement, design, redesign, abandonment or

reconstruction of the FPL Facilities and all other work required to provide continuity of service to FPL's customers which is a result of a conflict.

1.7 Replacement FPL Facility is any facility which will be constructed under the terms of this Agreement as a consequence of Relocation of an FPL Facility or portion thereof.

1.8 Salvage is the credit to the Applicant for the reusable materials recovered or removed by FPL less the Salvage Adjustment Credit.

ARTICLE II - IDENTIFICATION OF CONFLICTS, CONVERSIONS

2.1 Known Conflicts. The Applicant shall reimburse FPL for costs associated with the Relocation of the FPL Facilities more particularly described and located on property described in Exhibit A attached hereto and incorporated herein.

2.2 Other Conflicts. The identification of any other conflicting facilities of FPL requiring Relocation shall be undertaken by FPL pursuant to a subsequent written agreement between FPL and the Applicant.

2.3 Distribution Conversion. If an Applicant has requested a conversion of distribution facilities as part of a Relocation of Facilities, the FPL Distribution Facilities Conversion Agreement which is approved by the Florida Public Service Commission shall be attached hereto and incorporated herein. The Indemnity and Insurance provisions of this Agreement shall apply to all Distribution Conversions which are part of a Relocation. In addition, all other terms and conditions of this Agreement which are not expressly modified by the Addendum attached hereto shall remain in full force and effect. If there is a direct conflict between this Agreement and the attached Addendum, then the Underground Distribution Conversion Tariff and the Underground Distribution Conversion Agreement shall prevail as to that specific term or condition.

___ Underground Distribution Facilities Conversion Agreement is attached hereto and incorporated herein.

___ This Project does not involve a conversion of electric distribution facilities.

ARTICLE III - DESIGN AND CONSTRUCTION OF REPLACEMENT FACILITIES

3.1 Design Standards. Engineering design standards and material specified shall meet FPL's Current Design Standards. In addition, the design of Relocations will be in conformity with all laws and regulations.

3.2 Construction Standards. Materials and construction procedures shall meet FPL's Current Construction Standards. In addition, Relocations or Replacement Facilities will be accomplished in conformance with all laws, codes and regulations.

ARTICLE IV - REPLACEMENT RIGHT-OF-WAY

4.0 Replacement Right-of-Way. The Applicant shall provide FPL with replacement rights-of-way in one of the following manners:

___ (a) The Applicant shall reimburse FPL for costs associated with the identification and acquisition of replacement rights-of-way, including, but not limited to, FPL's attorney fees for costs in prosecuting or in connection with any condemnation actions for the acquisition of necessary rights-of-way.

___ (b) The Applicant shall convey or grant to FPL replacement rights-of-way sufficient to permit FPL to accomplish Relocations of the FPL Facilities and to operate and maintain the Replacement Facilities in accordance with FPL's customary practices. Such conveyances or grants of replacement rights-of-way shall be accomplished at no cost to FPL and in a form and substance satisfactory to FPL.

4.1 Location of Replacement Right-of-Way. The Location of the aforesaid replacement rights-of-way are generally set forth in Exhibit B attached hereto.

ARTICLE V - COST ESTIMATES, CREDITS AND BILLING

5.1 Full Cost. The Applicant shall pay FPL for the full cost of Relocation of the FPL Facilities. The work to be performed by FPL will be in accordance with the construction drawings attached hereto as Exhibit B.

5.2 Cost Estimate. The Applicant shall be responsible for the total cost of the project. The estimated cost to Relocate the FPL Facilities is (a) or (b) below:

a. Relocation: $__1,109,333.79___. This cost estimate is set out in detail in Exhibit C attached hereto; or

b. Relocation Conversion:

Relocation: $_____ (Exhibit C)

Distribution Conversion: + $_____ (Addendum)

= Total Project Cost Estimate:

$_____

The Applicant understands and agrees that the amount set forth in Exhibit C is an estimate only. The Applicant shall be responsible for the total cost of the project. The cost for the Relocation portion shall not exceed 110% of a valid Relocation cost estimate, except as provided herein.

5.3 Duration of Cost Estimate.

A cost estimate is valid only:

a. **Prior to start of construction, for 180 days from the date of the estimate is received by Applicant (this includes the estimate attached as Exhibit C and any subsequent estimate) or**

b. **Prior to or after start of construction, for as long as the scope of work (Relocation) upon which the estimate is based has not been changed; whichever first occurs.**

5.4 Re-estimates, Scope of Work Changes.

5.4.1 Pre-construction. If the construction of the Relocation of the FPL Facilities has not commenced within 180 days of the date that the latest cost estimate is received by Applicant or if the scope of work ("Relocation") has been changed on any individual work order prior to any construction, the estimate is invalid. A new estimate is required. FPL shall provide a re-estimate of the work prior to commencement of the Relocation by FPL. The Applicant shall agree in writing to pay the re-estimated cost and shall be responsible for the full cost of Relocation, not to exceed 110% of the re-estimate.

5.4.2 After Start of Construction. If after the start of construction the Applicant requests a change in the scope of work (Relocation) of FPL Facilities or if FPL determines that there is a need for a change in the scope of work (Relocation) and such change causes either the credit ratio to change or the reimbursable cost of the project to change by 10% or more, FPL shall provide the Applicant with a new estimate as soon as practicable. The Applicant shall provide FPL with written approval of the re-estimate. The Applicant shall be responsible for any increased cost due to unknown or unforeseen physical conditions at the site which differ materially from those originally encountered. Increased costs due to differing site conditions are in addition to the estimated amount and are not subject to the 110% cap on estimated costs.

5.5 Credits.

5.5.1 The Applicant shall receive a credit for Betterment and Salvage.

5.5.2 The Applicant shall receive a credit for the payment of any non-refundable deposit required for estimates for underground installation included within a Relocation according to the terms of the FPL Distribution Conversion Tariff and FPL's Underground Distribution Conversion Agreement.

5.5.3 The Applicant shall receive a credit for payment made to FPL for a detailed cost estimate, if payment is required by FPL prior to issuing such estimate and if the Facilities Relocation Agreement has been entered into within 180 days of the date that estimate was received by the Applicant and the Relocation performed.

5.5.4 The Applicant shall receive no credit for payment for an estimate, and such payment shall not be refunded: (a) if the Applicant has not executed a Facilities Relocation Agreement within 180 days of the date that estimate was received by the Applicant, (b) if a subsequent estimate is required or (c) if the Applicant terminates the Agreement.

5.5.5 Any estimate provided to the Applicant after the initial, detailed estimate shall be done at additional cost and expense to Applicant. Applicant's payment for estimates shall be credited or retained by FPL as provided above.

5.6 Billing and Payment. Prior to the commencement of any Relocation of FPL Facilities under this Agreement:

The Applicant shall pay the full estimated cost of such Relocation. Upon completion of the work, FPL at the earliest date practicable shall furnish the Applicant with a final and complete billing of all outstanding costs incurred in connection with the Relocation. The Applicant shall have thirty-five (35) days from the date of an invoice to approve and pay the invoice. Failure to provide FPL with written notice to the contrary within the thirty-five (35) day period shall constitute approval by the Applicant of the invoice against which payment must be remitted in full to FPL within thirty-five (35) days of the date of the invoice. If payment by the Applicant is not postmarked within thirty-five (35) days of the date of the invoice, then a late payment charge shall be assessed in the amount of one and one-half (1 1/2) percent of the amount of the billing per month, charged on a daily basis or highest interest allowable under law.

5.7 Final Bill. Upon completion of the work, FPL shall at the earliest date practicable furnish to the Applicant a final and complete billing of all costs incurred in connection with performance of Relocation of the FPL Facilities less any prepaid credits for additional cost estimates.

5.8 Refund and Effect of Termination.

5.8.1 Consistent with the terms of this Agreement, FPL shall refund to the Applicant any amounts which the Applicant has paid to FPL beyond the full cost of Relocation.

5.8.2 In the event that this Agreement is terminated due to the cancellation or indefinite suspension of work in furtherance of the Applicant's construction, the Applicant shall be responsible for the costs of Relocation already incurred, including but not limited to all engineering, design, equipment, and materials cost, labor costs, and if any, the costs of replacement facilities already installed, necessary to place FPL's Facilities into a permanent condition suitable to provide continuous, reliable electric service to the public in accordance with all applicable laws, regulations and FPL's usual practices as set forth in Article III herein. Nothing in this section shall be construed to modify or abrogate FPL's legal duty to mitigate damages.

ARTICLE VI - AUDITS

6.0 Audits. All cost records and accounts of FPL directly related to the work performed under this Agreement shall be subject to audit by the Applicant for a period of one year from the completion date of all work performed under this Agreement. Such audits shall be performed by the Applicant and in accordance with the following considerations:

(a) the Applicant shall provide FPL with thirty (30) days written notice requesting an audit,

(b) the specific time of audit must be mutually agreed to,

(c) information required for audit purposes shall be accounts and records kept by FPL directly related to Relocation and reimbursable costs,

(d) the Applicant may request only information reasonably required by it concerning Relocation and such request for information shall be in writing and shall include the purpose of the audits,

(e) FPL shall make available the requested information at its offices during normal business hours, Monday through Friday,

(f) the Applicant shall bear any costs associated with any audits, including FPL costs, if any, and (g) information available under this Agreement shall not be used in violation of any law or regulation.

ARTICLE VII - GENERAL CONDITIONS

7.1 Benefit of Agreement; Assignment. The provisions of this Agreement shall inure to the benefit of and bind the successors and assigns of the Parties to this Agreement but shall not inure to the benefit of any third party or other person. This Agreement shall not be assigned by either Party except upon receipt of the prior written permission of the other Party. Such permission shall not be unreasonably withheld.

7.2 Nonwaiver. The failure of either Party at any time to require performance by the other Party of any provision hereof shall not affect the full right to require such performance at any time thereafter. Waiver by either Party of a breach of the same provision or any other provision shall not constitute a waiver of the provision itself.

7.3 Limitations of Liability. Neither Party shall be liable in contract, in tort (including negligence), or otherwise to the other Party for any incidental or consequential loss or damage whatsoever including but not limited to loss of profits or revenue on work not performed, for loss of use or underutilization of the Party's facilities, or loss of use of revenues or loss of anticipated profits resulting from either Party's performance, nonperformance, or delay in performance of its obligations under this Agreement.

7.4 Indemnification. The Applicant shall indemnify, defend and hold harmless FPL, its parent, subsidiaries or affiliates and their respective officers, directors and employees (collectively "FPL Entities") from and against any liabilities whatsoever, occasioned wholly or in part by the negligence of the Applicant, its contractors, subcontractors or employees, including attorney fees, for injury to or death of person(s) and property damage arising or resulting in connection with any activity associated with work or service under this Agreement, **EXCEPT** if the liability arises out of a claim made by an employee of the Applicant, its contractors or assigns, the Applicant shall indemnify FPL Entities whether or not the damage or liability is due to or caused by the sole negligence of FPL Entities. The Applicant's obligation to protect, defend and hold FPL Entities free and unharmed against such liabilities shall extend up to, but shall not exceed the sum of $1,000,000 combined single limit for injuries to or death of person(s) or damage to existing property arising out of a single occurrence, except in the event Applicant is insured for liability with limits in excess of $1,000,000 combined single limit for injuries to or death of person(s) or property arising out of a single occurrence, Applicant's said obligations shall extend up to but shall not exceed the limits of that insurance. Applicant's costs of defending FPL Entities, including Applicant's attorneys' fees, are excluded from and are in addition to the aforesaid limitation of liability for injury, death and property damage.

7.5 Insurance. If the Applicant utilizes its own personnel in the construction or maintenance work around the subject Facilities, the Applicant shall furnish FPL with evidence of insurance maintained by Applicant insuring FPL Entities from liabilities assumed under the above indemnification. Said insurance shall contain a broad form contractual

endorsement or, alternatively, the Applicant shall cause FPL, its parent, subsidiaries and affiliates and their respective officers, directors and employees to be named as additional named insureds on the Applicant's comprehensive general liability policy. Such liability coverage shall be primary to any liability coverage maintained by or on behalf of FPL up to the $1,000,000 limit of liability.

In the event that the policy is on a "claims made" basis, the retroactive date of the policy shall be the effective date of this Agreement or such other date as to protect the interest of FPL and the coverage shall survive the termination of this Agreement until the expiration of the maximum statutory period of limitations in the State of Florida for actions based in contract or in tort (currently, five years). If coverage is on an "occurrence" basis, such insurance shall be maintained by the Applicant during the entire term of this Agreement. The policy shall not be canceled or materially altered without at least thirty (30) days written notice to FPL.

The Applicant shall provide FPL with evidence of such liability insurance coverage on the standard insurance industry form (ACORD) without modification. A copy of the policy shall be made available for inspection by FPL upon reasonable request.

7.6 Contractor Indemnification. The Applicant further agrees to include the following indemnification in all contracts between the Applicant and its general contractors who perform or are responsible for construction or maintenance work on or around the subject FPL Facilities:

"The Contractor hereby agrees to release, indemnify, defend, save and hold harmless the Applicant and FPL, its parent, subsidiaries, affiliates or their respective officers, directors, or employees, from all claims, demands, liabilities and suits whether or not due to or caused by negligence of the Applicant or FPL for bodily injuries or death to person(s) or damage to property resulting in connection with the performance of the described work by Contractor, its subcontractor, agents or employees. This indemnification shall extend up to but shall not exceed the sum of $1,000,000.00 for bodily injury or death of person(s) or property damage combined single limit and $3,000,000 occurrence aggregate. In the event the Contractor is insured for liability with limits in excess of these amounts, Contractor's said obligation shall extend up to but shall not exceed the limits of that insurance. Contractor's costs of defending Applicant and FPL, including attorneys' fees are excluded from and are in addition to the aforesaid limitation of liability for injury, death and property damage."

7.7 Contractor Insurance and Notice. The Applicant agrees to require its contractors to obtain insurance to cover the above indemnity and further agrees to verify with its contractors that such insurance is in full force and effect. The Applicant shall provide FPL Group Inc.'s Risk Management Department with notice of the name and address of Applicant's contractors as specified in section 7.6 above, prior to the commencement of the Relocation of FPL Facilities by FPL.

7.8 Modification or Termination of Agreement. This Agreement may be modified, amended, or terminated at any time by written agreement of the Parties authorized and executed with the same formality as this Agreement. FPL's Underground Facilities Distribution Conversion Agreement, if attached hereto, is approved by the Florida Public Service Commission and may not be modified or amended by the Parties.

7.9 Effect of Headings. The headings set forth herein are for convenience only and shall not be deemed to modify or affect the rights and obligations of the Parties to this Agreement.

7.10 FPL Consent to Relocations. FPL agrees to the Relocation of the FPL Facilities to the extent necessary to eliminate Conflicts with the Applicant's construction in accordance with the terms and conditions of this Agreement. The Applicant, at no expense to FPL, shall make all necessary arrangements and agreements with any person or entity which has facilities attached to the FPL poles for the relocation of those facilities.

7.11 Delegation of Power and Duties Notice. The following persons are designated as the authorized representatives of the Parties for the purposes of this Agreement and all notices or other communications to either Party by the other shall be made in writing and addressed as follows:

To the Applicant: _____
(Name and Title)

_____

_____

_____

With Copies to: _____

_____

_____

_____

For FPL: _____
(Name and Title)

FLORIDA POWER & LIGHT COMPANY

_____

_____

7.12 Force Majeure.

(a) Neither Party shall be liable or responsible for any delay in the performance of, or the ability to perform, any duty or obligation required by this Agreement in the event of a force majeure occurrence. Such occurrence shall include, but shall not be limited to acts of civil or military authority (including courts or administrative agencies), acts of God, war, riot, or insurrection, inability to obtain required permits or licenses, blockades, embargoes, sabotage, epidemics, fires, unusually severe floods or weather, strikes, lockouts or other labor disputes or difficulties. The obligation of either Party to pay money in a timely manner is absolute and shall not be subject to the force majeure provisions. Force majeure as used herein means, without limitation, any cause or event not reasonably within the control of FPL or the Applicant.

(b) In the event of any delay resulting from a force majeure circumstance, the time for performance hereunder shall be extended for a period of time reasonably necessary to overcome the effect of such delays.

(c) In the event of any delay or nonperformance caused by a force majeure circumstance, the Party affected shall promptly notify the other in writing.

7.13 Severability. In the event that any of the provisions or portions or applications thereof of this Agreement are held to be unenforceable or invalid by any court of competent jurisdiction, the Applicant and FPL shall negotiate an equitable adjustment in the affected provisions of this Agreement. The validity and enforceability of the remaining independent provisions shall not be affected.

7.14 Effective Date. This Agreement shall become effective upon execution by the Parties and shall continue in effect until completion of all Relocation work by FPL unless otherwise provided herein or earlier termination in accordance with this Agreement.

7.15 Complete Agreement. This Agreement shall be signed by the authorized representatives of both Parties and constitutes the final written expression of all the terms of the agreement between the Parties and is a complete and exclusive statement of those terms. Any and all prior or contemporaneous course of dealing, representations, promises, warranties or statements by the Parties or their agents, employees, or representatives that differ in any way from the terms of this written Agreement shall be given no force or effect.

IN WITNESS WHEREOF, the Parties have executed this Relocation Agreement, to be effective as of the date first above written.

APPLICANT:	FLORIDA POWER & LIGHT COMPANY:
_____	_____
_____	_____
By: _____	By: MEZANJE SYED
Title: _____	Title: ENGINEERING LEAD
Date: _____	Date: 5/20/16

Attest:

_____(Seal) Title

Estimate Valid Through: Nov 20, 2016

Florida Power & Light Company

Summary Estimate of Cost

Project Level

Work Order List (max 6) D00006691114

Estimate Printed On: May 20, 2016 13:32:01

Project Name: CUST- FIND

Project Description

RELOCATE/BORE UNDER ICW FOR FLORIDA INLAND NAVIGATION DISTRICT (FIND)

Line No	Salvage	Removal	Item	Item Cost	Total
6			**(A) ENGINEERING**		
7			Labor		
8			* Additives of Labor		
9			Transportation		
10			Applied Engineering	$166,519.89	
11			Contractor & Misc. Expenses		
12			* Additives of Contractor/Misc. Expenses		
13			Sub-total	**$166,519.89**	**$166,519.89**
14					
15			**(B) LAND & LAND RIGHTS (RIGHT OF WAY)**		
16			Labor		
17			* Additives of Labor		
18			Transportation Expenses		
19			Purchase and/or Easements		
20			Contractor & Misc. Expenses		
21			* Additives of Contractor & Misc. Expenses		
22			Sub-total		
23					
24			**(C) CONSTRUCTION**		
25		$7,262.64	Labor	$380,225.20	
26			* Additives of Labor		
27		$3,602.09	Transportation Expenses	$188,582.51	
28			Material	$166,107.42	
29			* Stores Loading	$16,649.12	
30			Contractor & Misc. Expenses		
31			* Additives of Contractor & Misc. Expenses		
32		**$10,864.73**	Sub-total	**$751,564.25**	**$762,428.98**
33					
34			**(D) OTHER - MAINTENANCE**		
35			Labor		
36			* Additives of Labor		
37			Transportation Expenses		
38			Material		
39			* Stores Handling		
40			Contractor & Misc. Expenses		
41			* Additives of Contractor & Misc. Expenses		
42			Sub-total		
43					

345

Estimate Valid Through: Nov 20, 2016

Florida Power & Light Company

Summary Estimate of Cost

Project Level

Work Order List (max 6) D00006691114

Estimate Printed On: May 20, 2016 13:32:01

Project Name: CUST- FIND

Project Description

RELOCATE/BORE UNDER ICW FOR FLORIDA INLAND NAVIGATION DISTRICT (FIND)

Line No	Salvage	Removal	Item	Item Cost	Total
44			**(E) ADMINISTRATIVE & GENERAL COSTS**		
45		$2,364.72	Administrative & General Costs	$178,020.20	
46		**$2,364.72**	Sub-total	**$178,020.20**	**$180,384.92**
47					
48	**$0.00**	**$13,229.45**	**GRAND TOTAL**	**$1,096,104.34**	**$1,109,333.79**
49	TOTAL INSTALLATION AND MAINTENANCE COST				**$1,096,104.34**
50	TOTAL REMOVAL COST				**$13,229.45**
51	SALVAGE () LESS SALVAGE ADJUSTMENT (FACILITIES NOT REPLACED)				**$0.00**
52	SUB-TOTAL				**$1,109,333.79**
53	CREDIT ##.##% (FROM AGREEMENT)				**$0.00**
54	NET REPLACEMENT COST (Sum lines 52 and 53)				**$1,109,333.79**

* Handling, Tax & Insurance and Pension & Welfare at Approved Rates

Engineer: _____

Wayne Ivestor

Submitted By: _____

Wayne Ivestor

Estimate Valid Through: Nov 20, 2016

Florida Power & Light Company

Summary Estimate of Cost

Work Order Level

Estimate Printed On: May 20, 2016 13:32:01

Work Order Description

RELOCATE INTERCOASTAL CROSSING - DU

Project Name CUST- FIND

Work Order D00006691114

Line No	Salvage	Removal	Item	Item Cost	Total
6			**(A) ENGINEERING**		
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9			Transportation		
10			Applied Engineering	$166,519.89	
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12			* Additives of Contractor/Misc. Expenses		
13			Sub-total	**$166,519.89**	**$166,519.89**
14					
15			**(B) LAND & LAND RIGHTS (RIGHT OF WAY)**		
16			Labor		
17			* Additives of Labor		
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25		$7,262.64	Labor	$380,225.20	
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34			**(D) OTHER - MAINTENANCE**		
35			Labor		
36			* Additives of Labor		
37			Transportation Expenses		
38			Material		
39			* Stores Handling		
40			Contractor & Misc. Expenses		
41			* Additives of Contractor & Misc. Expenses		
42			Sub-total		
43					

Estimate Valid Through: Nov 20, 2016

Florida Power & Light Company

Summary Estimate of Cost

Work Order Level

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RELOCATE INTERCOASTAL CROSSING - DU

Project Name CUST- FIND

Work Order D00006691114

Line No	Salvage	Removal	Item	Item Cost	Total
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52	SUB-TOTAL				**$1,109,333.79**
53	CREDIT FROM AGREEMENT (0%)				**$0.00**
54	NET REPLACEMENT COST (Sum lines 52 and 53)				**$1,109,333.79**

* Handling, Tax & Insurance and Pension & Welfare at Approved Rates

Engineer: _____

Wayne Ivestor

Submitted By: _____

Wayne Ivestor

Estimate Valid Through: Nov 20, 2016

Florida Power & Light Company

Summary Estimate of Cost

Project Level

Work Order List (max 6) D00006691114

Estimate Printed On: May 20, 2016 13:32:01

Project Name: CUST- FIND

Project Description

RELOCATE/BORE UNDER ICW FOR FLORIDA INLAND NAVIGATION DISTRICT (FIND)

Line No	Salvage	Removal	Item	Item Cost	Total
6			**(A) ENGINEERING**		
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10			Applied Engineering	$166,519.89	
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43					

Estimate Valid Through: Nov 20, 2016

Florida Power & Light Company
Summary Estimate of Cost
Project Level

Estimate Printed On: May 20, 2016 13:32:01

Project Name: CUST- FIND

Project Description
RELOCATE/BORE UNDER ICW FOR FLORIDA INLAND NAVIGATION DISTRICT (FIND)

Work Order List (max 6) D00006691114

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* Handling, Tax & Insurance and Pension & Welfare at Approved Rates

Engineer: _____ Submitted By: _____

Wayne Ivestor **Wayne Ivestor**

THIS SUMMARY IS FOR ACCOUNTING PURPOSES ONLY! DO NOT SUBMIT TO CUSTOMER

Estimate Valid Through: Nov 20, 2016

Florida Power & Light Company

Estimate Printed On: May 20, 2016 13:32:01

Work Order Description
RELOCATE INTERCOASTAL CROSSING - DU

Summary Estimate of Cost
Work Order Level

Project Name CUST- FIND
Work Order D00006691114

Line No	Salvage	Removal	Item	Item Cost	Total
6			**(A) ENGINEERING**		
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38			Material		
39			* Stores Handling 9.11%		
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42			Sub-total		
43					

351

Estimate Valid Through: Nov 20, 2016

Florida Power & Light Company

Summary Estimate of Cost

Work Order Level

Estimate Printed On: May 20, 2016 13:32:01

Work Order Description

RELOCATE INTERCOASTAL CROSSING - DU

Project Name CUST- FIND

Work Order D00006691114

Line No	Salvage	Removal	Item	Item Cost	Total
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54	NET REPLACEMENT COST (Sum lines 52 and 53)				**$1,109,333.79**

* Handling, Tax & Insurance and Pension & Welfare at Approved Rates

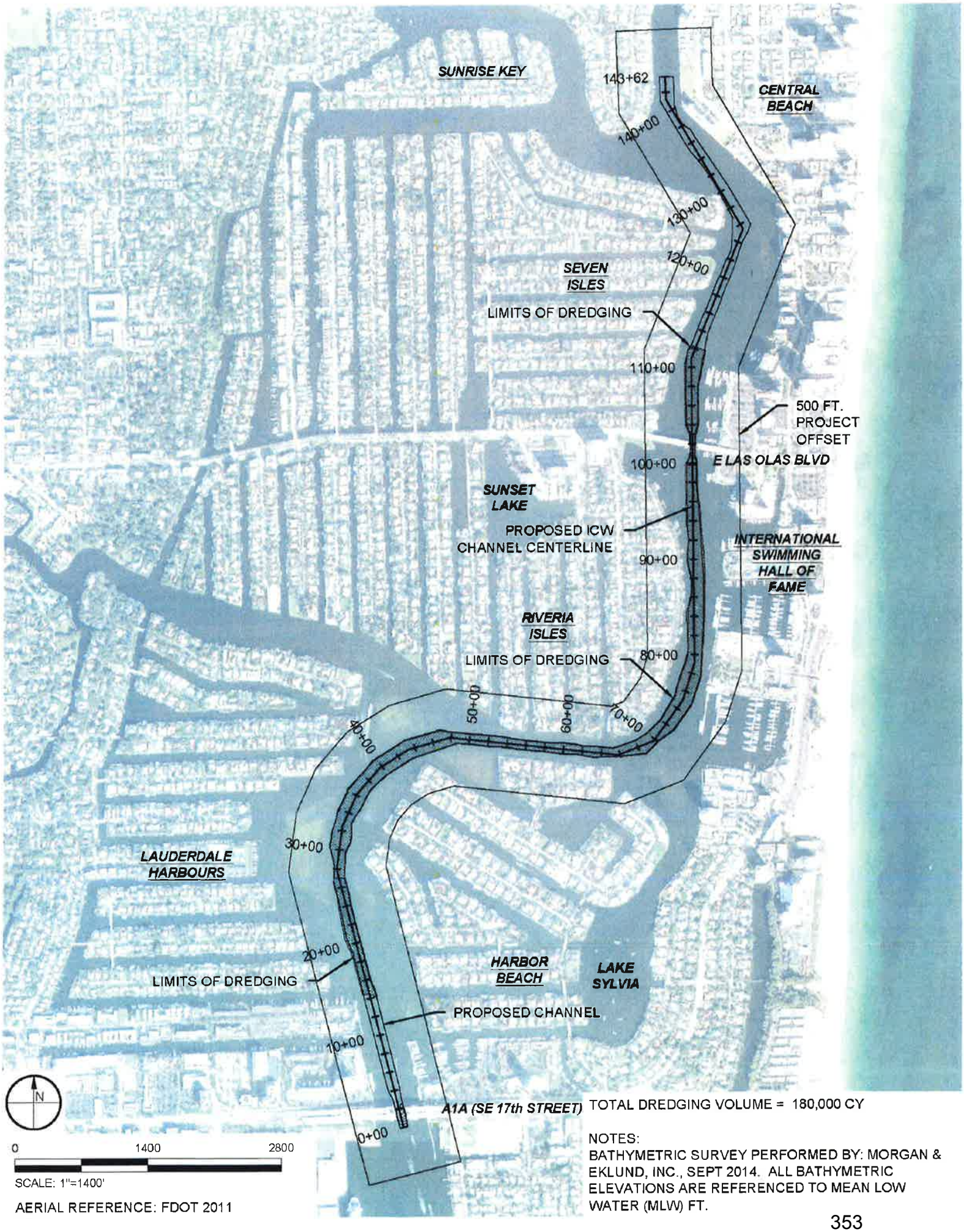
Engineer: _____

Wayne Ivestor

Submitted By: _____

Wayne Ivestor

THIS SUMMARY IS FOR ACCOUNTING PURPOSES ONLY! DO NOT SUBMIT TO CUSTOMER



TOTAL DREDGING VOLUME = 180,000 CY

NOTES:
BATHYMETRIC SURVEY PERFORMED BY: MORGAN & EKLUND, INC., SEPT 2014. ALL BATHYMETRIC ELEVATIONS ARE REFERENCED TO MEAN LOW WATER (MLW) FT.


International Swimming Hall of Fame
Approximate FPL Utility Line Location
Hibiscus Pl
SE 26th Ave
Alamanda Ct
Aurelia Pl
Poinciana Dr
Acacia Ct
Legend
Approximate FPL Utility Line
FPL Utility Line
IWW ROW
IWW CHannel
International Swimming Hall of Fame
Seabreeze Blvd
SE 5th St
International Swimming Hall of Fame
A1A
Hall of Fame Dr
FPL Utility Line

ATTACHMENT E-2

WATERWAYS ASSISTANCE PROGRAM FY 2016
PROJECT APPLICATION
APPLICANT INFORMATION – PROJECT SUMMARY

APPLICANT INFORMATION			
Applicant:	City of Fernandina Beach		
Department:	Marina		
Project Title:	Marina Basin Maintenance Dredging		
Project Director:	Joe Springer	**Title:**	Marina Manager
Project Liaison: *(if different from Project Director)*	Dale L.Martin	**Title:**	City Manager
Mailing Address:	204 Ash Street		
City:	Fernandina Beach	**Zip Code:**	32034
Email Address:	dmartin@fbfl.org	**Phone #:**	904-310-3100
Project Address:	3 S. Front Street – Fernandina Beach, FL 32034		

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

SIGNATURE: Dale L. Martin DATE: 3/29/16

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 for the Fernandina Harbor Marina, additional dredging is required to keep dockage available for transient and local boaters.

The project consists of the following tasks: a pre- and post-dredge bathymetric study of the dredge area, mechanical dredging from the south end of the breakwater dock, and the disposal of approximately 8,000 cubic yards of material. The means of transport will be via contractor supplied water tight trucks with the disposal site provided at the Fernandina Beach Municipal Airport located at 700 Airport Road, Fernandina Beach, FL 32034.

Form No. 90-22, Rule 66B-2, (New 12/17/90, Rev.07-30-02, 04-24-06)

ATTACHMENT E-3 - PROJECT INFORMATION 2016

Applicant:	City of Fernandina Beach	**Project Title:**	Marina Basin Maintenance Dredging		
Total Project Cost: $	303,300	**FIND Funding Requested: $**	151,650	**% of Total Cost:**	50%
Amount and Source of Applicant's Matching Funds:	$151,650. 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.				

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

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

3. Once completed, will this project be insured against damage? Explain
Not applicable

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

5. If yes, please list: (1) 2005: MooringField 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 Rehabilitaion 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, Ph II; (13) 2015 Mooring Field Expansion Phase I (b)

6. 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 Filed consisting of 20 mooring balls; one three-lane boat ramp; 120 boat slips including 72 innerdocking slips; 12 vehicle and trailer parking locations and an additional acreage for temporary boat trailer parking

7. How many additional ramps, slips, parking spaces or other access features will be added by this project? None – is maintenance dredging

8. Are fees charged for the use of this project? No ☐ Yes ☒

9. 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	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.

Project Title:	Marina Basin Maintenance Dredging
Applicant:	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 public boat docks used by transient boaters.

(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 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 would 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 will be able to enter the Marina from the ICW in order to use the public boat 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 12% occurred each fiscal year. The current fiscal year which began on October 1, 2015 shows a decrease in nightly dockage due to the silted in and therefore, unusable inner docks. Consequently, the local boaters that once used the day docks for short term dockage are not able to do so as overnight boats are utilizing this area.

b) Discuss the regional and local public benefits that will be provided by the project.

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 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.

c) Can residents from other counties of the District reasonably access and use the project? Explain.

Yes, boaters from the surrounding counties including Duval, St. Johns and Flagler are within a few hours sail to the south from the Fernandina Harbor Marina. Also, boaters from nearby counties can launch their trailered boats at the Marina's public boat ramp.

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.

If approved and funded, bid documents will be prepared in September 2016. The bidding process will be conducted in October/November 2016. Vendor(s) will be selected in November 2016. Contract execution will take place with the vendors and the City of Fernandina Beach in December 2016. Dredging will start in December 2016/January 2017 and will be completed by April 2017.

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.

The City will utilize its waterfront parking lot A for off-loading of dredged material on to trucks to be transported a short distance away to the municipal airport where the material will be spread on grassland to enrich the soil. Thus, the added expense of transport and fees to place the material at a spoil site is averted.

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 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 will consult a marine engineering firm to assess alternative dredging technologies and evaluate dredged material management sites to develop a long-range plan for combating the sedimentation problem.

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

By dredging in 2017, 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. Finally, using the dredged material to spread on the grasslands at the municipal airport will enrich the soil and prevent the material from being discarded at a spoil site.

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.

Environmental permits have been applied for from DEP and ACOE and the City expects to receive them in May 2016. A permit from the St. Johns River Water Management District is not applicable. Finally, upon receipt of the permit from DEP, application will be made to the city for a permit.

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?

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?

Dredging the Marina basin will enhance public usage and access to the boat slips and the boat ramp. Also, environmental impacts will be decreased by transporting the dredged material in waterproof trucks with rubber seals and spreading the material on the grasslands at the municipal airport.

(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. Sealed containers will be taken to parking lot A at the north end of the Marina. Containers will be off-loaded from the barges and then, transported to the City of Fernandina Beach Municipal Airport. The material will be spread over 300 acres of grassed airfield to enrich the soil.

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. There will be no impacts or obstruction to navigation in existing shipping channels. Dredging will be done only on the landward side of the existing breakwater, from the fuel dock south to the southernmost limits of the marina basin and along the northeast seawall. 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 either hydraulic dredge, mechanical removal by clamshell or track hoe excavator; or a combination of methods. All work shall be accomplished from waterward areas using motorized vessels less that 40' in length and powered by inboard or outboard engines. Equipment shall be stationed on shallow draft barges, with a maximum length of 60 feet and maximum width of 24 feet. Material scows shall have a maximum length of 200 feet. Barges and scows shall be kept in place by spuds, anchors or lines tied to existing marina pilings. Barge movement shall occur at mid or high tides in order to prevent prop scour of shoreline areas that are not being dredged.

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

There are no materials but the equipment above including cranes and trucks will use diesel fuel and an increase in the cost of fuel might cause an increase in the overall cost per cubic yard.

(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, and 1-27-14)

ATTACHMENT E-5

FLORIDA INLAND NAVIGATION DISTRICT
ASSISTANCE PROGRAM 2016

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

Project Title:	Marina Basin Maintenance Dredging
Applicant:	City of Fernandina Beach

Project Elements *(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)*	**Quantity or Total Estimated Cost** **(Number and/or Footage etc.)**	**Applicant's Cost**	**FIND Cost**
Pre-dredge Bathymetric Survey	3,000.00	1,500.00	1,500.00
Mobilization	18,000.00	9,000.00	9,000.00
Preparation of off load site	8000 CY at $1.35 per CY = $10,800	5,400.00	5,400.00
Dredge material from basin bottom	8000 Cubic Yds at $21.50 per CY = $172,000.	86,000.00	86,000.00
Transportation of dredged materials to off load site in water tight trucks	8000 Cubic Yds at $10.75 per CY = $86,000.	43,000.00	43,000.00
Demobilization and Clean up	4,000.00	2,000.00	2,000.00
Post-dredge Bathymetric Survey	3,000.00	1,500.00	1,500.00
Water Sampling	6,500.00	3,250.00	3,250.00
****TOTALS =**	**$ 303,300.00**	**$ 151,650.00**	**$ 151,650.00**

Form No. 90-25 (New 10/14/92, Revised 04-24-06)

ATTACHMENT E-6
WATERWAYS ASSISTANCE PROGRAM 2016

PROJECT TIMELINE

Project Title:	Marina Basin Maintenance Dredging
Applicant:	City of Fernandina Beach

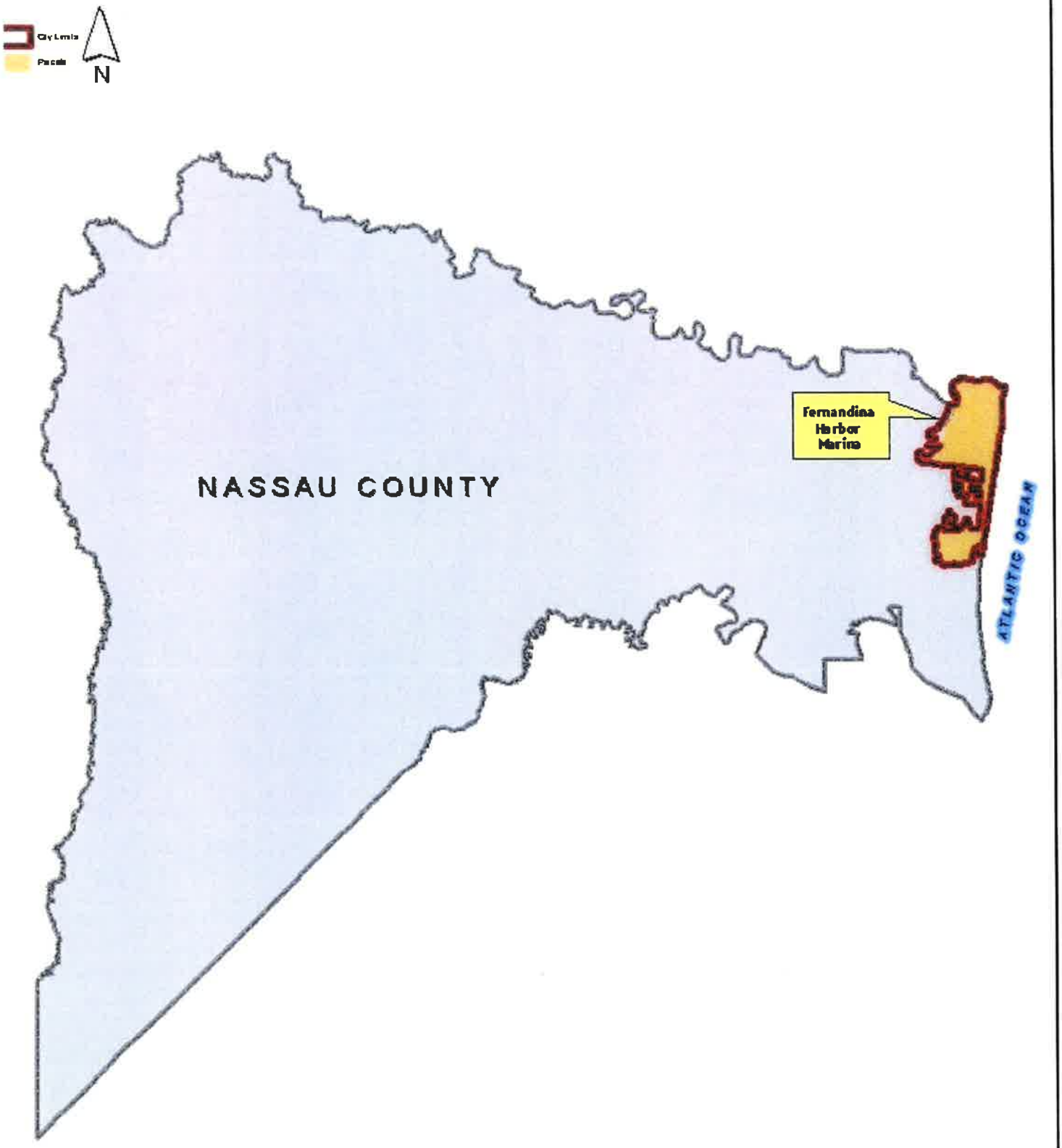
The applicant is to present a detailed timeline on the accomplishment of the components of the proposed project including, as applicable, completion dates for: permitting, design, bidding, applicant approvals, initiation of construction and completion.
NOTE: All funded activities must begin AFTER October 1st
(or be consistent with Rule 66B-2.005(3) - Pre-agreement expenses)

<- 2016 - - - - 2017 ->

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												

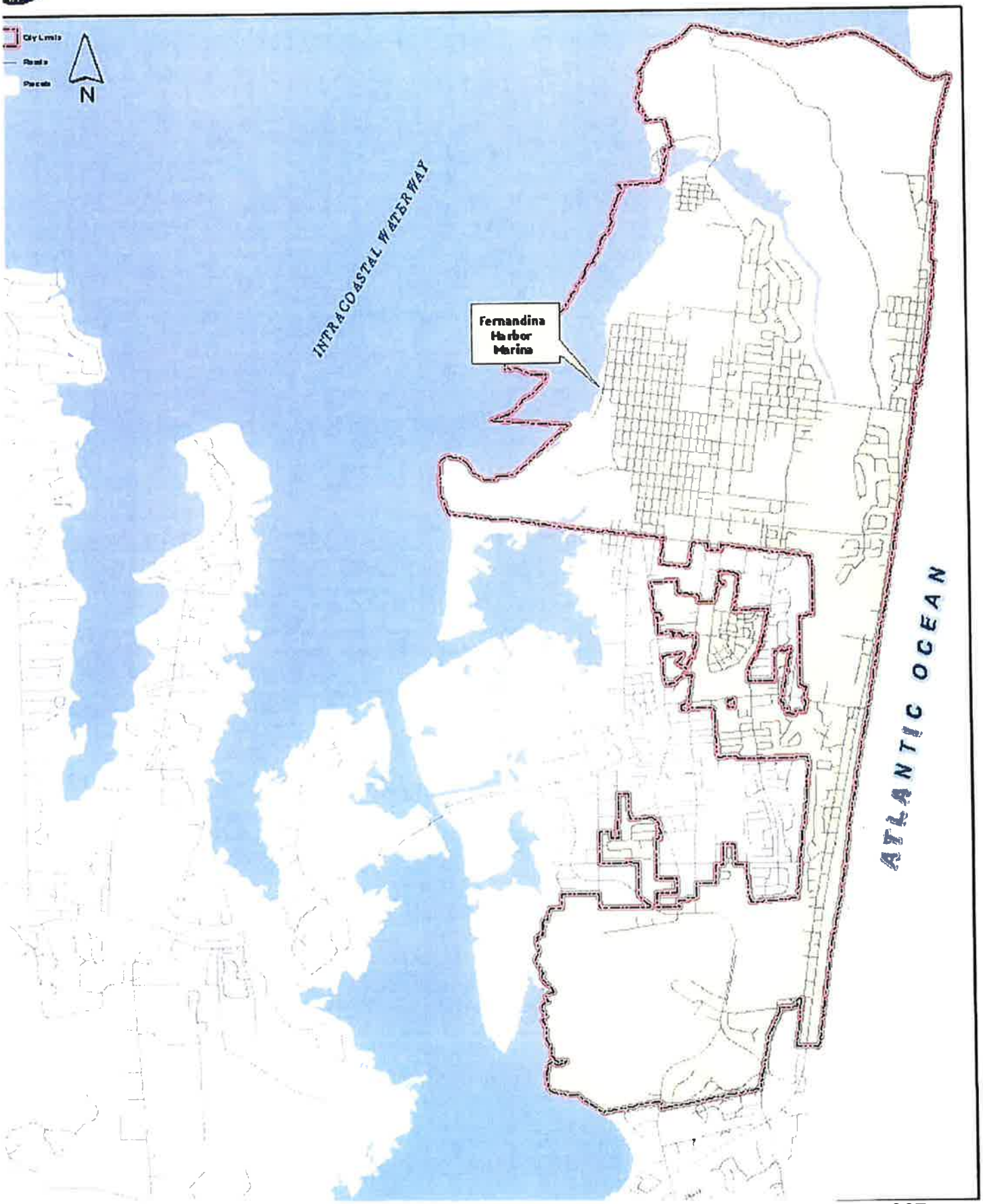
Nassau County

4/11/2011



City of Fernandina Beach

4/1/2011





EXHIBITS PREPARED BY:

ZEV COHEN & ASSOCIATES, INC.

CIVIL ENGINEERS • LANDSCAPE ARCHITECTS
(EB 4516) (LC 62)
PLANNERS • TRANSPORTATION • ENVIRONMENTAL

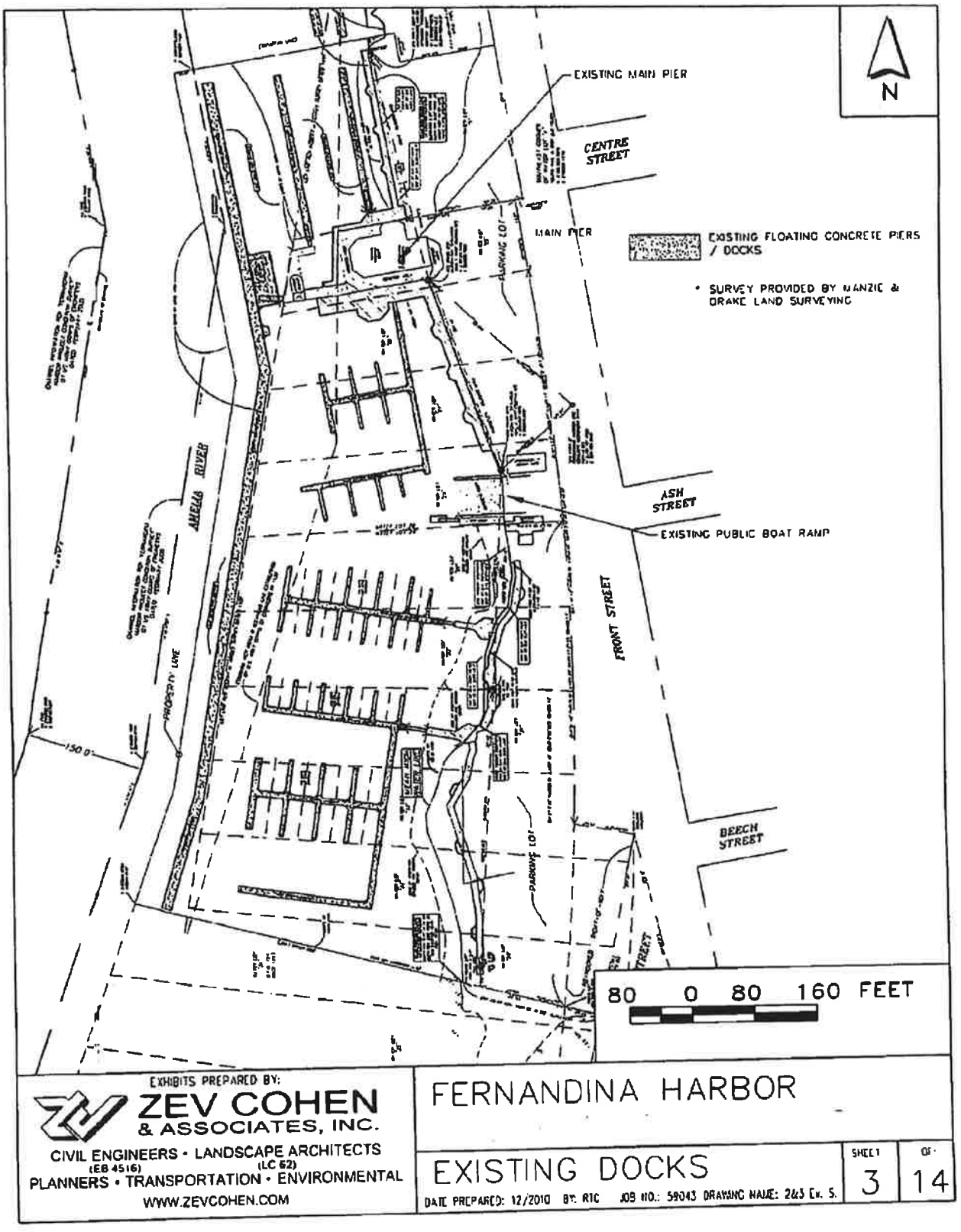
WWW.ZEVCOHEN.COM

FERNANDINA HARBOR MARINA

VICINITY MAP 1

DATE PREPARED: 12/2010 BY: RTC JOB NO.: 59043 DRAWING NAME: 59043EX01

SHEET	OF
1	14


N
EXISTING MAIN PIER
CENTRE STREET
MAIN PIER
EXISTING FLOATING CONCRETE PIERS / DOCKS
* SURVEY PROVIDED BY MANZIE & DRAKE LAND SURVEYING
AMELIA RIVER
ASH STREET
EXISTING PUBLIC BOAT RAMP
FRONT STREET
PROPERTY LINE
150.0'
BEECH STREET
PARKING LOT
80 0 80 160 FEET
EXHIBITS PREPARED BY:
ZEV COHEN & ASSOCIATES, INC.
CIVIL ENGINEERS • LANDSCAPE ARCHITECTS
(EB 4516) (LC 62)
PLANNERS • TRANSPORTATION • ENVIRONMENTAL
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FERNANDINA HARBOR
EXISTING DOCKS
DATE PREPARED: 12/2010 BY: RTC JOB NO.: 59043 DRAWING NAME: 243 Ex. S.
SHEET 3
OF 14

ATTACHMENT E-2

WATERWAYS ASSISTANCE PROGRAM FY 2016
PROJECT APPLICATION
APPLICANT INFORMATION – PROJECT SUMMARY

APPLICANT INFORMATION			
Applicant:	City of Fernandina Beach		
Department:	Marina		
Project Title:	Mooring Field Capacity Increase Phase II		
Project Director:	Joe Springer	**Title:**	Marina Manager
Project Liaison: *(if different from Project Director)*	Dale L. Martin	**Title:**	City Manager
Mailing Address:	204 Ash Street		
City:	Fernandina Beach	**Zip Code:**	32034
Email Address:	dmartin@fbfl.org	**Phone #:**	904-310-3100
Project Address:	3 S. Front Street – Fernandina Beach, FL 32034		

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

SIGNATURE: Dale L. Martin DATE: 3/29/16

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

The City of Fernandina Beach utilized FIND funding to complete Phase 1(a) and is in the process of completing Phase I(b) of this project. The end result will be an increase in the number of mooring devices from 20 to 99 in the Managed Mooring Field.

Phase II of this project is for the purchase and installation of the various components required to complete this increase in mooring devices.

Form No. 90-22, Rule 66B-2, (New 12/17/90, Rev.07-30-02, 04-24-06)

ATTACHMENT E-3 - PROJECT INFORMATION 2016

Applicant:	City of Fernandina Beach		**Project Title:**	Mooring Field Capacity Increase Pase II	
Total Project Cost: $	300,000	**FIND Funding Requested: $**	150,000	**% of Total Cost:**	50%
Amount and Source of Applicant's Matching Funds:	$150,000. 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.				

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

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

3. Once completed, will this project be insured against damage? Project will be covered under City's Insurance.

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

5. If yes, please list: (1) 2005: MooringField Phase I; (2) 2005: Riverfront Boardwalk; (3) 2006 Mooring Field Phase II; (4) 2006 Docsk E, F & G Rehabilitation Phase I; (5) 2007 Docks E, F & G Rehabilitaion 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)

6. 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 Filed consisting of 20 mooring balls, one three- lane boat ramp, 120 boat slips, of which 72 are innerdocking slips, 12 vehicle and trailer parking locations, and an additional acreage for temporary boat trailer parking.

7. How many additional ramps, slips, parking spaces or other access features will be added by this project? 79 additional mooring devices

8. Are fees charged for the use of this project? No ☐ Yes ☒

9. 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	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.

Form No. 90-22a (New 10-14-92, Rev. 04-24-06, 4-15-07)

Fernandina
HARBOR MARINA
3 S. Front Street
Fernandina Beach Florida
(904) 310-3302 Fax (904) 310-3451

March 3, 2016

Cheryl Lilly
City of Fernandina Beach
204 Ash Street
Fernandina Beach, FL 32034

Cheryl

In answer to your request for fee schedules and information for surrounding marinas, I submit the following for your review. Please note the absence of public mooring facilities other than those previously submitted for Titusville and St. Augustine.

		Daily	Weekly	Monthly
Fernandina Harbor Marina 3 S. Front Street Fernandina Beach, FL 32034 904-310-3300	Dockage Mooring	1.25/2.00 20.00	6.50/10.50 105.00	13.50/16.75 3360.00
Palm Cove Marina 2315 Beach Blvd Jacksonville, FL 32250 904-240-2050	Dockage Mooring	1.75	8.00/9.00 NOT AVAILABLE	13.50/15.00
Tiger Point Marina 997 Egans Creek Lane Fernandina Beach, FL 32034 904-277-2720	Dockage Mooring	1.25	6.25 NOT AVAILABLE	9.95
Amelia Island Yacht Basin 251 Creekside Drive Amelia Island, FL 32034 904-27-4615	Dockage Mooring	2.00	10.00 NOT AVAILABLE	17.00

If you have any questions, please contact me.

Sincerely,

Joe Springer, CMM

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.

Project Title:	Mooring Field Capacity Increase Phase II
Applicant:	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 – Aquisition, 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 99 mooring devices.

(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 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 would 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 both the number of boaters and boaters that prefer the economy of utilizing managed mooring fields are increasing, we need to have a known product to provide safe and secure mooring for both the 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 years 2012/2013 and 2013/2014, the number of mooring nights increased by 12% each year. This current fiscal year, the number of mooring nights has increased from 2500 nights to an expected 2800 nights.

b) **Discuss the regional and local public benefits that will be provided by the project.**
The regional and local public benefits include: an increase in the number of transient boats that will be able to moor overnight and for extended stays; an increase in the actual managed mooring field; and the number of boats that are currently unattended and at anchor will have a place to safely keep their boats. As the local economy depends on tourism as one of its primary sources for jobs and revenue, any condition that improves the total number of visits to the area will mean greater benefits.

c) **Can residents from other counties of the District reasonably access and use the project? Explain.**
Yes, boaters from the surrounding counties including Duval, St. Johns and Flagler are within a few hours sail from the Fernandina Harbor Marina and can use the mooring field at the Marina. This provides an economical overnight stay that will allow more boaters to come to the area.

(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 current status of the managed mooring field includes a total of 20 24" mooring balls tethered with chains to helical anchors imbedded in the river bottom. If approved and funded, bid documents will be prepared in September 2016. The bidding process will be conducted in October/November 2016. Vendor(s) will be selected in November 2016. Contract execution will take place with the Vendors and the City of Fernandina Beach in December 2016. Construction and installation will start in December 2016/January 2017 and will be completed by April 2017.

b) **Briefly explain any unique aspects of this project that could influence the project timeline.**
Weather conditions might create temporary delays in the installation of the mooring devices; however, dredging 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 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 will 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

(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. 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 is in contract to 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 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 will be applied for prior to Sept 30th, 2016. Applied Technologies and Management has completed the preliminary work for the State of Florida General Permit for Mooring Fields. Additional information is being collected in Phase 1(b) of this process.

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 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 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 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.)

ATTACHMENT E-5

FLORIDA INLAND NAVIGATION DISTRICT
ASSISTANCE PROGRAM 2016

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

Project Title:	Mooring Field Expansion Phase II
Applicant:	City of Fernandina Beach

Project Elements *(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)*	**Quantity or Total Estimated Cost** **(Number and/or Footage etc.)**	**Applicant's Cost**	**FIND Cost**
Mobilization	12,500.00	6,250.00	6,250.00
89 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
79 Mooring Devices	29,924.00	14,962.00	14,962.00
Attaching Harware and Lines	59,300.00	29,650.00	29,650.00
Installation of 79 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

****TOTALS =**	**$ 300,000.00**	**$ 150,0000.00**	**$ 150,000.00**

ATTACHMENT E-6
WATERWAYS ASSISTANCE PROGRAM 2016

PROJECT TIMELINE

Project Title:	Mooring Field Capcity Increase Phase II
Applicant:	City of Fernandina Beach

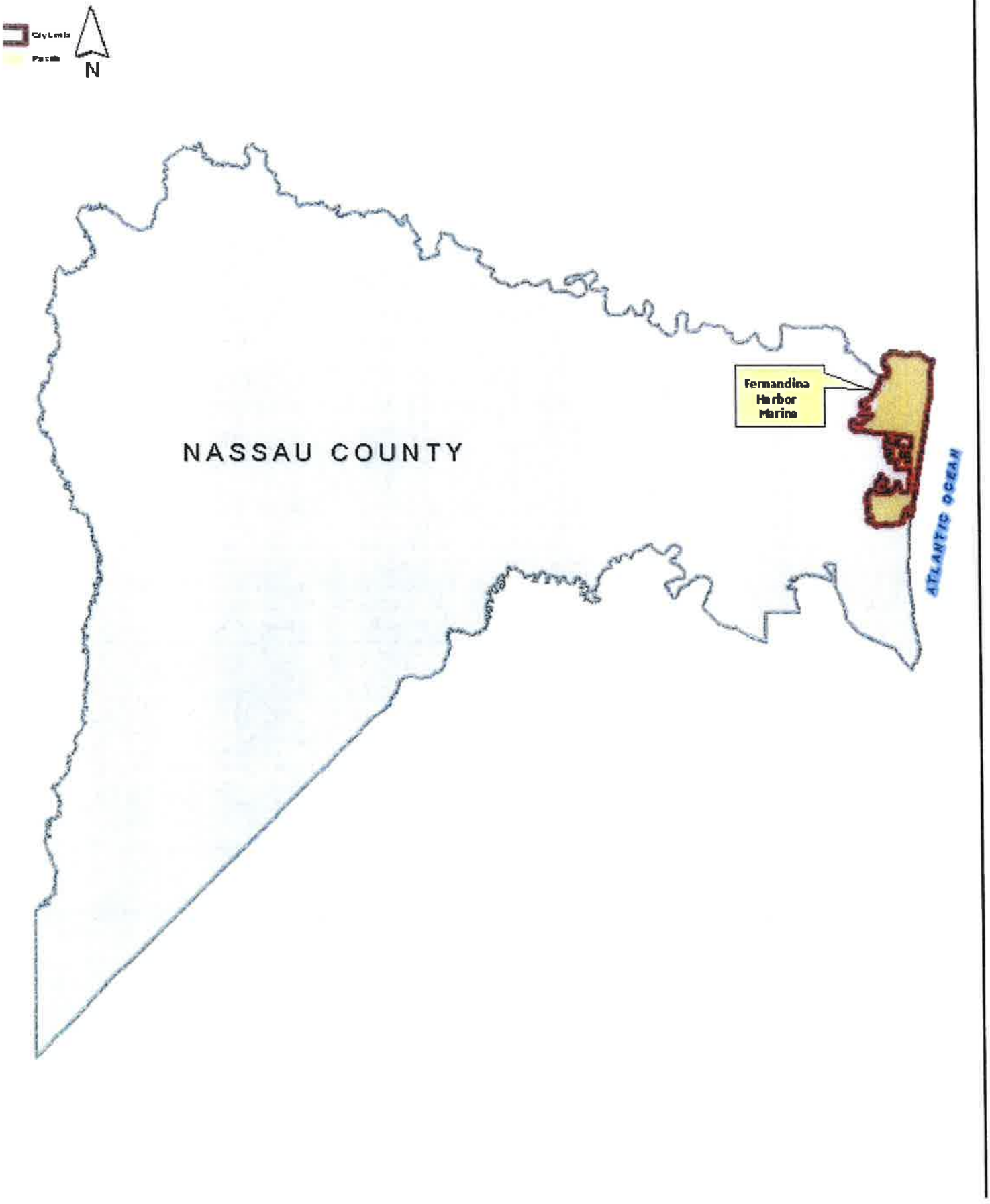
The applicant is to present a detailed timeline on the accomplishment of the components of the proposed project including, as applicable, completion dates for: permitting, design, bidding, applicant approvals, initiation of construction and completion of construction.
NOTE: All funded activities must begin AFTER October 1st
(or be consistent with Rule 66B-2.005(3) - Pre-agreement expenses)

<- 2016 - - - - 2017 ->

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												

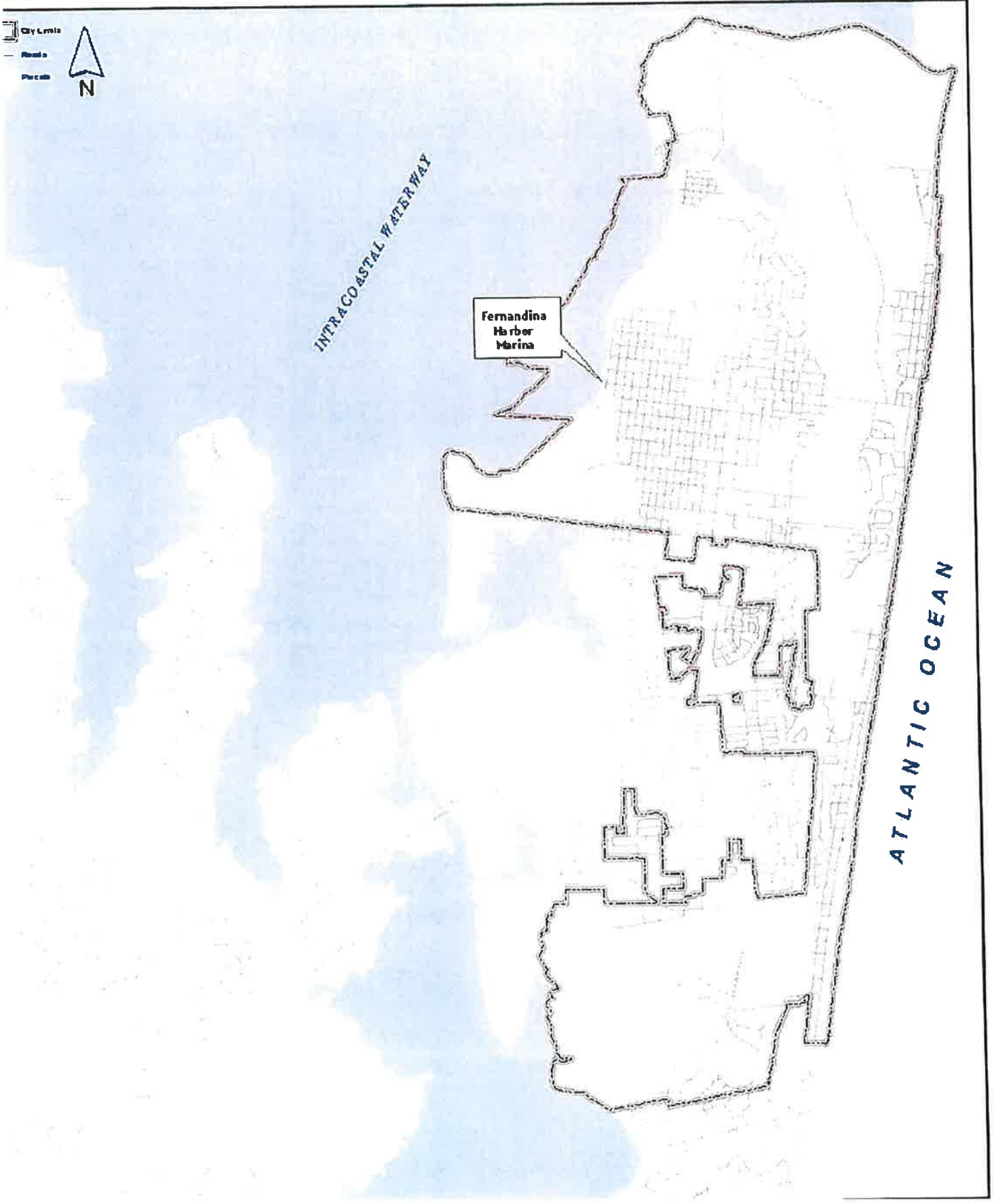
Nassau County

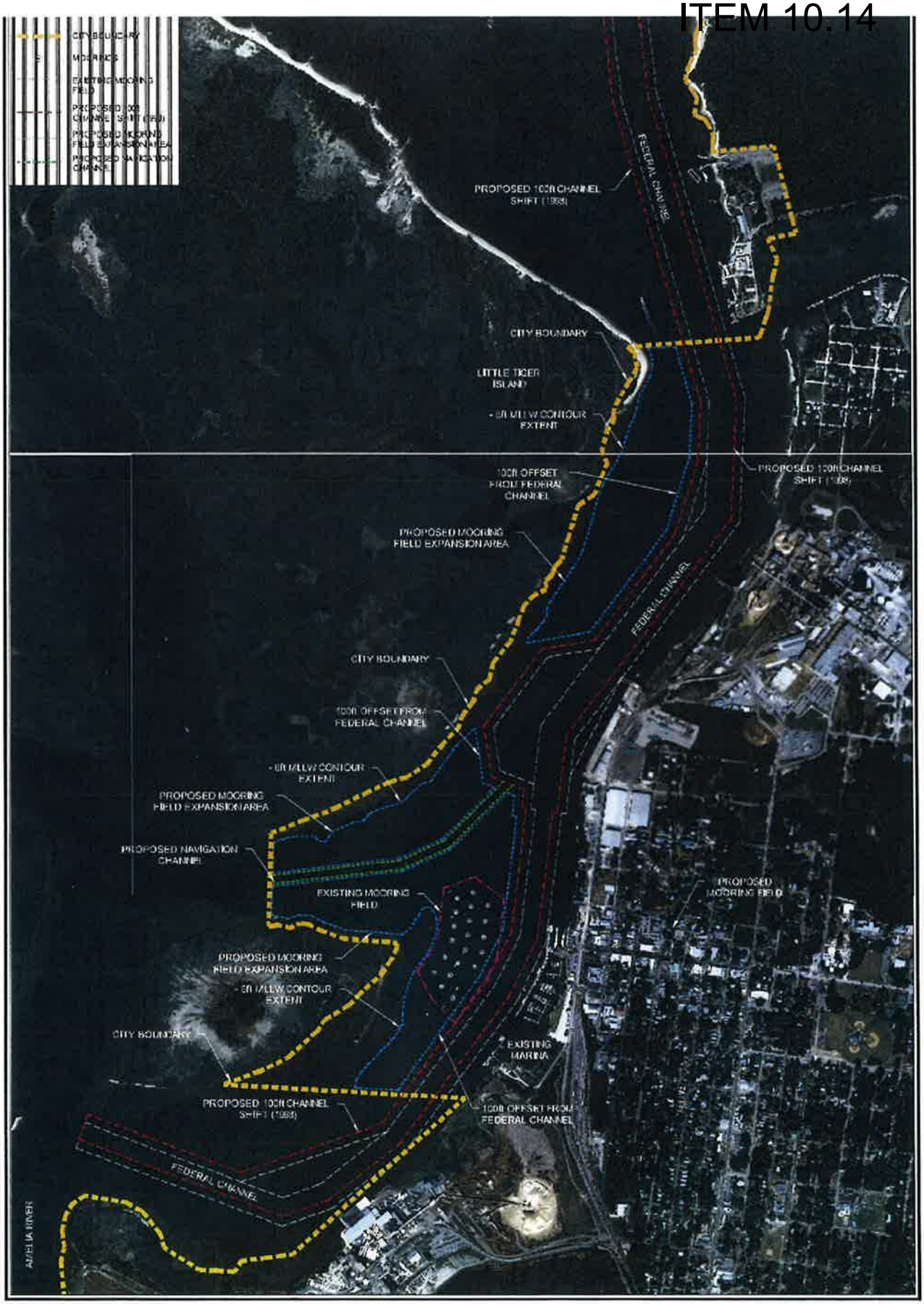
4/1/2011



City of Fernandina Beach

4/1/2011





Base Map

Fernandina

ATM APPLIED TECHNOLOGY & MANAGEMENT



Exibit 1

Fernandina

ATM SM APPLIED TECHNOLOGY & MANAGEMENT

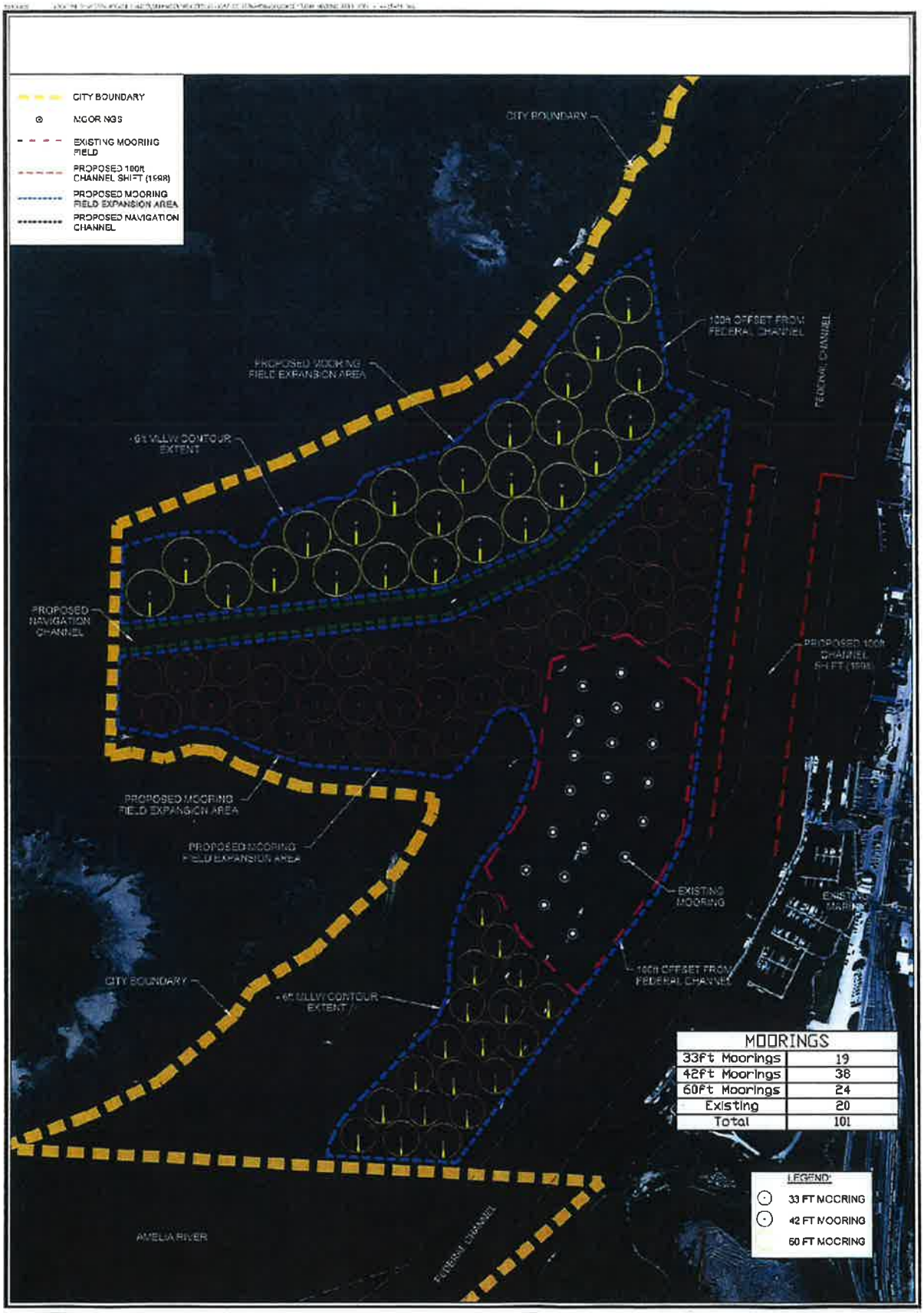


Exhibit 2

Fernandina

ATM SM APPLIED TECHNOLOGY & MANAGEMENT

ATTACHMENT E-2

WATERWAYS ASSISTANCE PROGRAM FY 2016
PROJECT APPLICATION
APPLICANT INFORMATION – PROJECT SUMMARY

APPLICANT INFORMATION			
Applicant:	City of Fernandina Beach		
Department:	Marina		
Project Title:	Southern Basin Dock Realignment Phase I		
Project Director:	Joe Springer	**Title:**	Marina Manager
Project Liaison: *(if different from Project Director)*	Dale L. Martin	**Title:**	City Manager
Mailing Address:	204 Ash Street		
City:	Fernandina Beach	**Zip Code:**	32034
Email Address:	dmartin@fbfl.org	**Phone #:**	904-310-3100
Project Address:	3 S. Front Street – Fernandina Beach, FL 32034		

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

SIGNATURE: Dale L Martin DATE: 5/31/16

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

The City of Fernandina Beach is applying for a Phase I project to fund planning, design, and permitting to realign the docks at the southern end of the Fernandina Harbor Marina.

The Marina has a severe siltation problem. Applied Technology & Management, Inc. (ATM) recently completed a study that recommended the realignment of internal docks on the south end of the Marina to increase the rate of the water flow through this area and thereby, reduce sedimentary drop outs.

The docks will be realigned from east/west fingered pier slips to contiguous north/south side tie configurations in order to reduce siltation.

Form No. 90-22, Rule 66B-2, (New 12/17/90, Rev.07-30-02, 04-24-06)

ATTACHMENT E-3 - PROJECT INFORMATION 2016

Applicant:	City of Fernandina Beach	**Project Title:**	Southern Basin Dock Realignment Phase I		
Total Project Cost: $	150,000	**FIND Funding Requested: $**	75,000	**% of Total Cost:**	50%
Amount and Source of Applicant's Matching Funds:	$75,000 The City of Fernandina Beach will provide $75,000 of funding from the local property tax revenue to match with a request of $75,000 in funding from FIND.				

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

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

3. Once completed, will this project be insured against damage? This project will be covered by the City's insurance.

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

5. If yes, please list: (1) 2005: MooringField Phase I; (2) 2005: Riverfront Boardwalk; (3) 2006 Mooring Field Phase II; (4) 2006 Docsk E, F & G Rehabilitation Phase I; (5) 2007 Docks E, F & G Rehabilitaion 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).

6. 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 Filed consisting of 20 mooring balls, one three- lane boat ramp, 120 boat slips,of which 72 are innerdocking slips, 12 vehicle and trailer parking locations, and additional acreage for temporary boat trailer parking.

7. How many additional ramps, slips, parking spaces or other access features will be added by this project? None. The existing docks on the south end of the Marina will be reconfigured from an east/west to a north/south orientation.

8. Are fees charged for the use of this project? No ☐ Yes ☒

9. 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	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.

Project Title:	Southern Basin Dock Realignment Phase I
Applicant:	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 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)*

---

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 increase, 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 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 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 is expected to decrease in 2015/2016 as fewer dock spaces are available due to 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.**

An increase in the number of transient boats that will be able to dock overnight and for extended stays will benefit the local economy that is dependent on the tourism industry to provide jobs and revenue.

c) **Can residents from other counties of the District reasonably access and use the project? Explain.**

Yes, boaters from the surrounding counties including Duval, St. Johns and Flagler are within a few hours sail from the Fernandina Harbor Marina. With the removal of siltation around the docks at the southern end of the Marina, these boaters will be able to have protected and accessible dockage for their boats with 4 ½ foot drafts.

(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 marina is subject to approximately a siltation factor of 1 foot per year. Although dredging has slowed the inevitable loss of slips, they are still being lost. The proposed realignment will help to minimize the siltation and therefore the reduction in usable dock space. If approved and funded, bid documents will be prepared in September 2016. The bidding process will be conducted in October/November 2016. Vendor(s) will be selected in November 2016. Contract execution will take place with the Vendors and the City of Fernandina Beach in December 2016. Planning, design and permitting will start in December 2016/January 2017 and will be completed by April 2017. Phase II of the project, if approved, will follow a similar timeline for 2017 /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 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 $75,000 of funding from the local property tax revenue to match with a request of $75,000 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 1 on this project.

c) **Describe any methods to be utilized to increase the cost efficiency of this project.**
This will be a Phase I planning, design and permitting 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.**
Deep water Dockage

Fernandina Harbor Marina	2.00 per foot per night
Amelia Island Yacht Basin	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)

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.

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.

The long term benefits will be the ability to dock boats in naturally deep water areas, particularly transient vessels that require 4 ½' draft. The number of vessels requesting dockage is increasing every year. 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.

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)
(1-7 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? If permits are NOT required, explain why not.

Environmental permits, Submerged Land Leases and ACOE are in place. Phase I of this project includes the investigation, submission and updating of these permits

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.

Planning	
Existing Data Review - Initial Site Analysis - Site Analysis Summary	$32,000.00
Design	
Design Surveys - Geotechnical Services - Preliminary Design Documents - Cost Estimate Submittal - Final Design Documents	$75,000.00
Permitting	
Permit Application Submissions - Additional Permitting Requests Final Permitting Submissions	$43,000.00

General Cost Estimate for Phase II work is $450,000

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?

Preliminary design has been completed and submitted to the City.

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)

9) CONSTRUCTION TECHNIQUES:

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

No construction will be completed in this Phase I of the project. When Phase II is started, 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.

If applicable, any existing pilings that will not be used in the final project may be left in place and only the tops removed.

(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?

Concrete pilings and concrete 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)

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 2016

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

Project Title:	Southern Basin Dock Realignment Phase I
Applicant:	City of Fernandina Beach

Project Elements *(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)*	**Quantity or Total Estimated Cost** **(Number and/or Footage etc.)**	**Applicant's Cost**	**FIND Cost**
Planning Existing Data Review Initial Site Analysis Site Analysis Summary	32,000.00	16,000.00	16,000.00
Design Design Surveys Geotechnical Services Preliminary Design Documents Cost Estimate Submittal Final Design Documents	75,000.00	37,500.00	37,500.00
Permitting Permit Application Submissions Additional Permitting Requests Final PERmitting Submissions	43,000.00	21,500.00	21,500.00

****TOTALS =**	**$ 150,000.00**	**$ 75,0000.00**	**$ 75,000.00**

Form No. 90-25 (New 10/14/92, Revised 04-24-06)

ATTACHMENT E-6
WATERWAYS ASSISTANCE PROGRAM 2016

PROJECT TIMELINE

Project Title:	Southern Basin Dock Realignment Phase I
Applicant:	City of Fernandina Beach

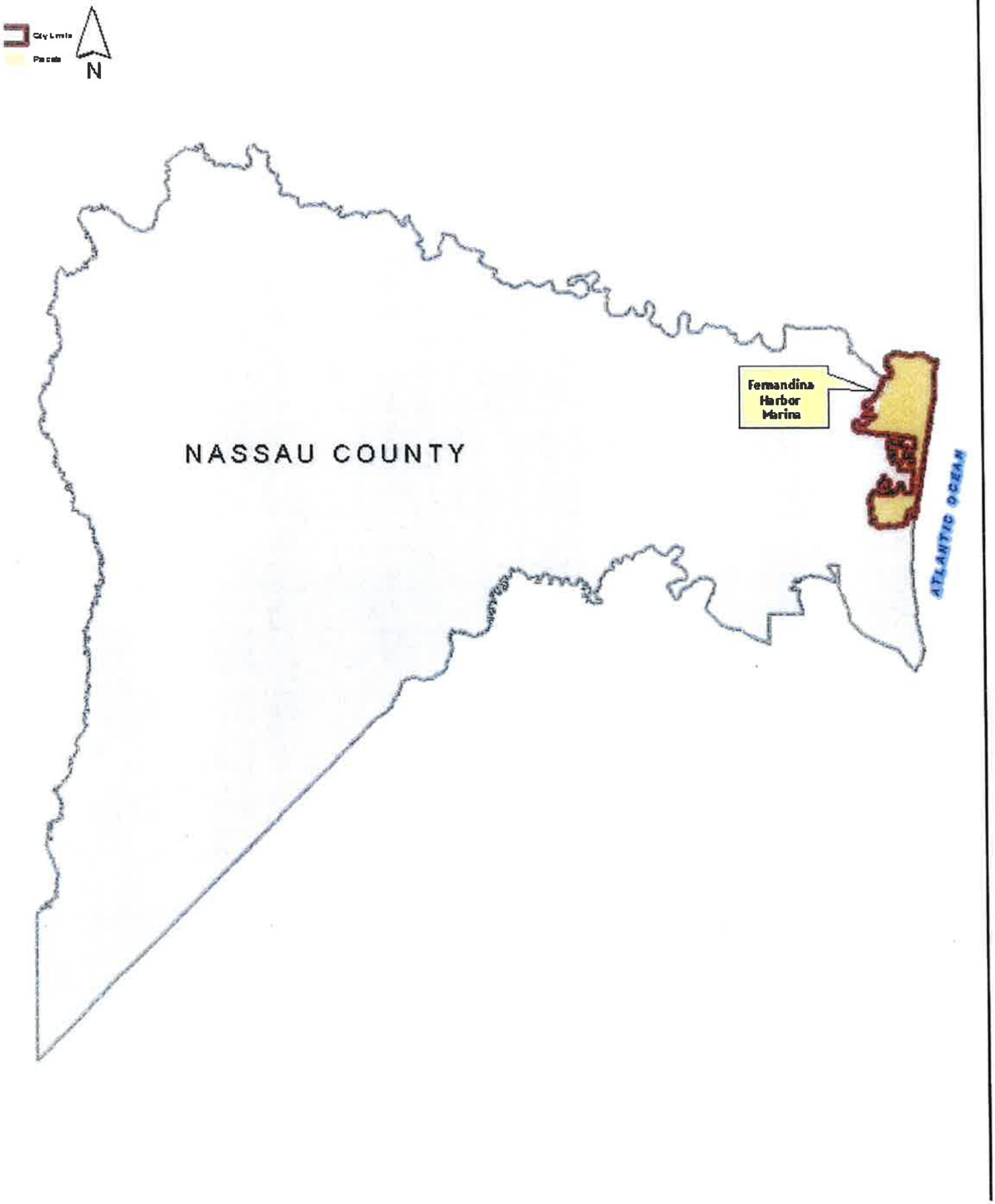
The applicant is to present a detailed timeline on the accomplishment of the components of the proposed project including, as applicable, completion dates for: permitting, design, bidding, applicant approvals, initiation of construction and completion.
NOTE: All funded activities must begin AFTER October 1st
(or be consistent with Rule 66B-2.005(3) - Pre-agreement expenses)

<- 2016 - - - - 2017 ->

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												

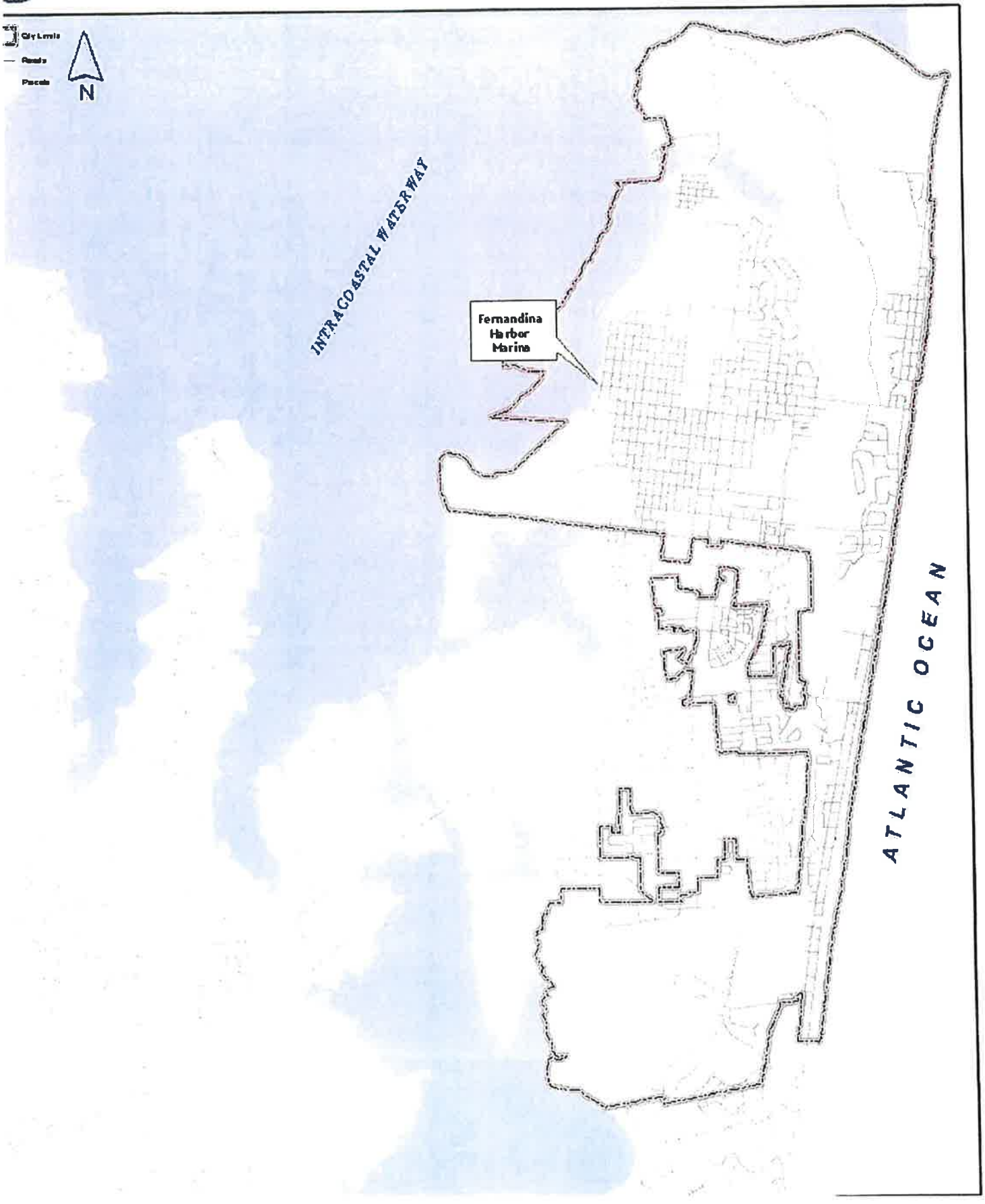
Nassau County

4/1/2011



City of Fernandina Beach

4/1/2011





EXHIBITS PREPARED BY:

ZEV COHEN & ASSOCIATES, INC.

CIVIL ENGINEERS • LANDSCAPE ARCHITECTS
PLANNERS • TRANSPORTATION • ENVIRONMENTAL
(EB 4516) (LC 62)

WWW.ZEVCOHEN.COM

FERNANDINA HARBOR MARINA

VICINITY MAP 1

DATE PREPARED: 12/2010 BY: RIC JOB NO.: 5004.5 DRAWING NAME: 5004.5EX01

SHEET: 1 OF: 14



Current Configuration



Southern Docks Realignment Mockup

ATTACHMENT E-2

WATERWAYS ASSISTANCE PROGRAM FY 2016
PROJECT APPLICATION
APPLICANT INFORMATION – PROJECT SUMMARY

APPLICANT INFORMATION			
Applicant:	Town of Marineland		
Department:	Marina		
Project Title:	Town of Marineland Marina Reconstruction Phase 2B		
Project Director:	Mayor Leslie Babonis	**Title:**	Mayor, Town of Marineland
Project Liaison: *(if different from Project Director)*	Chris Kelley	**Title:**	Dockmaster
Mailing Address:	101 Tolstoy Lane		
City:	St. Augustine	**Zip Code:**	32080
Email Address:	marinelandmarina@gmail.com	**Phone #:**	904-315-9892
Project Address:	101 Tolstoy Lane, St. Augustine, FL 32080		

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

SIGNATURE: _____ DATE: 3/26/16

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

The Town of Marineland is seeking funding for phase 2 of the development of the Town of Marineland Marina. Phase 1 was completed and the public marina reopened on August 20, 2011. The marina is permitted for 85 slips and both the Army Corps and DEP permits are still open. The success of phase 1 beckons for additional slips as the marina has become a waypoint, destination, Clean Marina, and safe harbor for transient vessels cruising the Atlantic ICW. The goal of phase 2 is to add approximately 18 additional slips of various sizes with supporting amenities to included a dockmaster building and dredging. For this application, the Town of Marineland is requesting funds to assist in providing a dockmaster's building to include restrooms and laundry facilities to support the new docks.

Form No. 90-22, Rule 66B-2, (New 12/17/90, Rev.07-30-02, 04-24-06)

ATTACHMENT E-3 - PROJECT INFORMATION 2016

Applicant:	Town of Marineland	**Project Title:**	Town of Marineland Reconstruction Phase 2B		
Total Project Cost: $	400,000	**FIND Funding Requested: $**	200,000	**% of Total Cost:**	50%
Amount and Source of Applicant's Matching Funds:	$150,000 Flagler County Tourist Development Council- will apply in August $50,000 Town of Marineland				

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

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

3. Once completed, will this project be insured against damage? Explain

The property will be covered by General Liability, Windstorm, Flood, and fire protection.

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

5. If yes, please list:

The district provided $202,000 for the completion of phase 1 of the development of the marina in 2011.

The district also provided $136,983 for the phase 2 construction in 2014.

6. 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 a currently 24 slips in the marina. The 250' floating dock and 4 of the fixed slips are available to the public on a first-come-first-served basis. The remainder of the slips are available for monthly rental. All 18 slips to be added in Phase II will be available to the public on a first-come-first-served basis.

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

Phase 2 will add an additional 18 slips. The total build out of the project will not exceed 85 slips within the marina basin.

8. Are fees charged for the use of this project? No Yes X

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

Form No. 90-22a (New 10-14-92, Rev. 04-24-06, 4-15-07)

Please list all Environmental Resource Permits required for this project:

AGENCY	Yes / No / N/A	Date Applied For	Date Recieved
WMD	N/A	Click here to enter text.	Click here to enter text.
DEP	Yes	Click here to enter text.	Jan 5, 2009
ACOE	Yes	Click here to enter text.	April 7, 2010
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.

Project Title:	Town of Marineland Marina Reconstruction Phase 2B/3
Applicant:	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: Acquistion, 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)*

2) WATERWAY RELATIONSHIP:

a) **Explain how the project directly 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.**

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.

c) **Can residents from other counties of the District reasonably access and use the project? Explain. Yes. 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.**

(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.**

Phase 1 was completed in August of 2011. It is anticipated that Phase 2B construction will begin in October, 2016 and be completed by February, 2017.

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 has the ability to levy taxes as needed for general budget needs if so required. The Town has $80,000 in marina reserves. The Town is applying for $150,000 from the Flagler County Tourist Development Council.**

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 protocals. Where possible the work that can be accomplished by volunteers will be done by same. Much of the infrastructure was completed in Phase 1, such as bulkheads, engineering, and pump-out facilities. Phase 2 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 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)

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? 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 the Town of Marineland.

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.

Phase 2B cost estimate is $400,000.

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 2.**

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.**

(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. The are none known at this time.**

(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? Standard best management building practices shall be used for the marina building. All utilities will be marine grade standard with and average life expectancy of 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-5

FLORIDA INLAND NAVIGATION DISTRICT
ASSISTANCE PROGRAM 2016

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

Project Title:	Town of Marineland Marina Restoration Phase 2B/3
Applicant:	Town of Marineland

Project Elements *(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)*	**Quantity or Total Estimated Cost** **(Number and/or Footage etc.)**	**Applicant's Cost**	**FIND Cost**
Construction: Restrooms/Dockmaster Facility	**400,000**	**200,000**	**200,000**
**** TOTALS =**	**$ 400,000**	**$ 200,00**	**$ 200,000**

Form No. 90-25 (New 10/14/92, Revised 04-24-06)

ATTACHMENT E-6
WATERWAYS ASSISTANCE PROGRAM 2016

PROJECT TIMELINE

Project Title:	Town of Marineland Reconstruction Phase 2B/3
Applicant:	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 1st
(or be consistent with Rule 66B-2.005(3) - Pre-agreement expenses)

April 2015 - April 2016
Secure multiple funding sources to accomplish the necessary construction of Phase 2 of the Town of Marineland Marina.

April 2016
Apply for additional funding from FIND that is necessary to complete the project.

October 2016
Secure 3 proposals for the construction of the dockmaster building as required by the municipality guiding protocols.

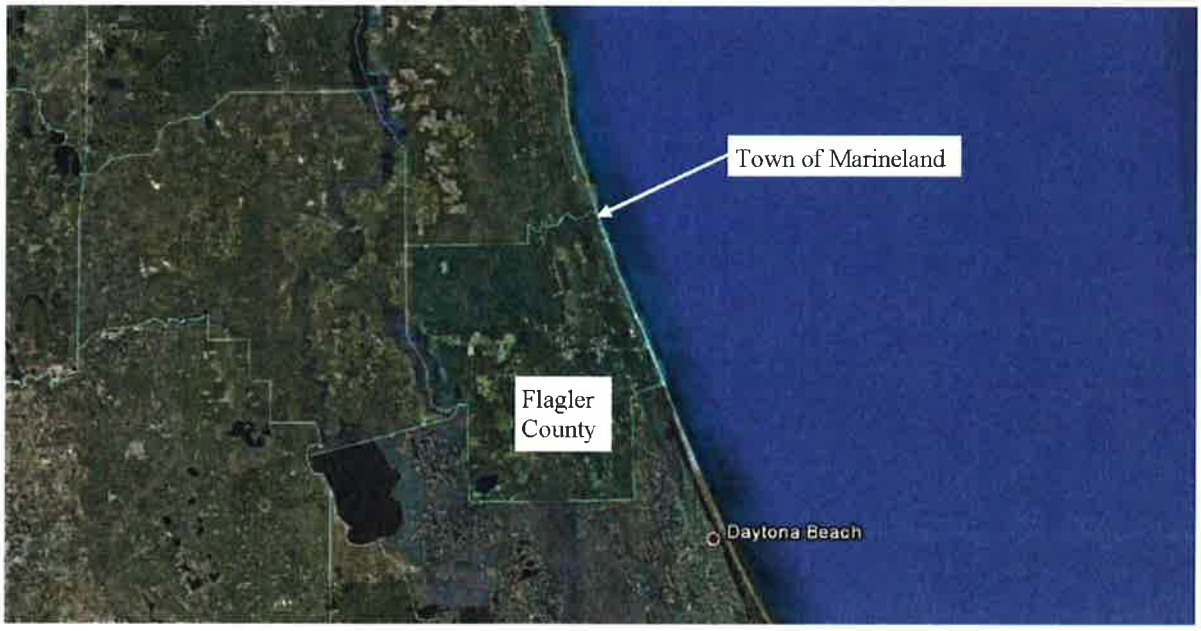
November 2016
Select contractor for construction.
Apply for Town of Marineland building permits.

December 2016 - May 2017
Construct a bath house/dockmaster facility to include restrooms, showers, laundry, and marina office at *approximately 1200 sq/ft. 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.

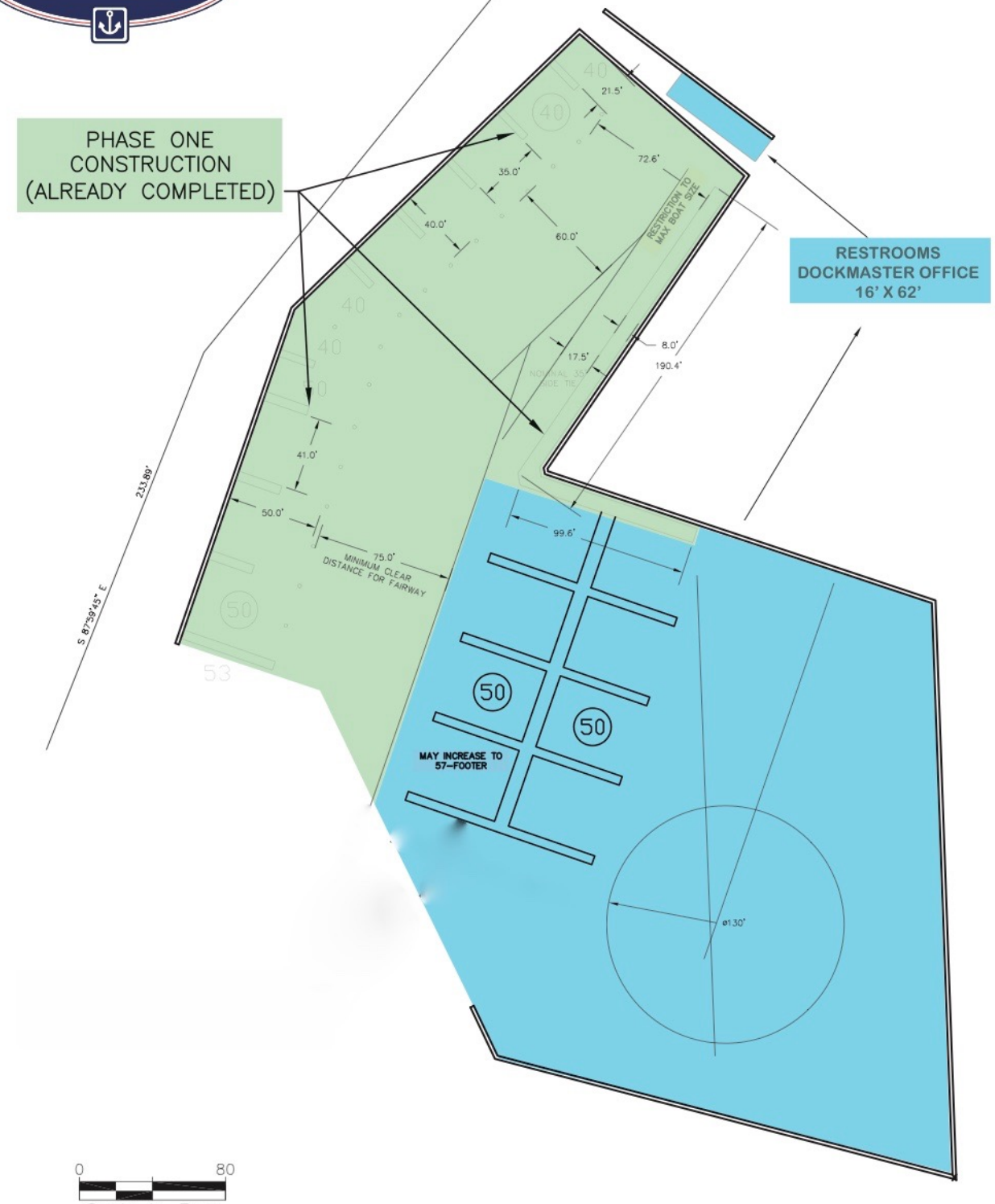
Flagler County Location Map



City Location Map



MARINA PHASE 2 SITE PLAN



MARINA_rev2_.dwg Layout1 5/5/06

MARINELAND MARINA
PHASE 2 CONSTRUCTION PLAN

APPLIED TECHNOLOGY & MANAGEMENT

ATTACHMENT E-2

WATERWAYS ASSISTANCE PROGRAM FY 2016
PROJECT APPLICATION
APPLICANT INFORMATION – PROJECT SUMMARY

APPLICANT INFORMATION			
Applicant:	Heather Soto		
Department:	Broward County Parks and Recreation		
Project Title:	Deerfield Island Boardwalk Replacement, Phase II		
Project Director:	Kevin Bachleda	**Title:**	Project Manager II
Project Liaison: *(if different from Project Director)*	Heather Soto	**Title:**	Administrative Coordinator
Mailing Address:	950 NW 38 Street		
City:	Oakland Park	**Zip Code:**	33309
Email Address:	hsoto@broward.org	**Phone #:**	954-357-8114
Project Address:	1720 Deerfield Island Park, Deerfield Beach, FL 33441		

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

SIGNATURE: Heather Soto DATE: 3/25/16

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 (ICW) 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 in need of replacement. The boardwalk is a critical activity on the island, and it has been closed since the hurricane occurred.

The property is owned by the Florida Inland Navigational District (FIND), 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 a new dock on the island, and boater traffic and visitors to the park have increased. Broward County would like to ensure that sufficient amenities are available on the island to provide visitors with an enjoyable experience.

Form No. 90-22, Rule 66B-2, (New 12/17/90, Rev.07-30-02, 04-24-06)

ATTACHMENT E-3 - PROJECT INFORMATION 2016

Applicant:	Heather Soto		Project Title:	Deerfield Island Boardwalk Replacement,	
Total Project Cost: $	$1,382,804	FIND Funding Requested: $	$691,402	% of Total Cost:	50%
Amount and Source of Applicant's Matching Funds:	$691,402 from the Broward County Parks and Recreation capital fund				

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

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

The project site is owned by FIND, who dedicated it to the State for park purposes for a period of 99 years in 1966. The State leased it to Broward County for a period of 95 years for use as a waterway park in 1980.

3. Once completed, will this project be insured against damage? Explain

No; Broward County is self-insured.

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

5. If yes, please list:

FIND has funded Phase I of this boardwalk project (2013), the shelter replacement and interpretive exhibits (2013), and construction of a boat dock located in the ICW (2012).

6. 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 contains two boat ramps; five slips in old dock and 150 feet of dock (room for six boats depending on how they are docked); approximately 1600 feet of boardwalk; and almost 1.5 miles of trail. There are no trailer parking spaces.

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

None; this project will assist with replacing the damaged boardwalk.

8. Are fees charged for the use of this project? No ■ Yes ☐

9. 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	Yes	ERP pre-submittal March2016	
ACOE	Yes	ERP pre-submittal March2016	
COUNTY / CITY	Yes	Pre-submittal March 2016	

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.

Project Title:	Deerfield Island Boardwalk Replacement, Phase II
Applicant:	Heather Soto

---

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 project focuses on the construction for the replacement of an existing boardwalk in a public waterfront 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 directly relates to the ICW and the mission of the Navigation District.

Deerfield Island is a public waterfront park located within the ICW and is the only island park in the Broward County park system. This project is in line with FIND's mission 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 project enhances public access to the ICW by assisting in the replacement of a boardwalk in a preserved natural habitat within 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 boardwalk will serve as a public waterfront park amenity providing park visitors with an opportunity to access and enjoy the mangrove plant community. The number of visitors to the park are recorded each year. In fiscal year 2015, 15,985 people visited the park. In the first five months of fiscal year 2016, 5,079 people have visited.

b) Discuss the regional and local public benefits that will be provided by the project.

This project will provide an opportunity for the public to access a natural habitat which is increasingly becoming rare along the ICW.

c) Can residents from other counties of the District reasonably access and use the project? Explain.

Yes; a free boat ride provides access to the island and is open to all visitors. In addition, dockage is available for visitors who wish to access the island utilizing their private vessels.

(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, engineering, and permit submissions for the project have been completed. Broward County will proceed with the construction of the project upon execution of the Phase II agreement with FIND.

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

This project is located on an island, so access to the project site may influence the project time line. However, no problems are expected. In addition, there is construction underway near the project site.

(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 for this project, in the amount of $691,402, will be provided from the Broward County Parks and Recreation capital fund.

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

No increase in costs due to materials utilized or site conditions are anticipated. Known conditions have already been taken into consideration in the project cost.

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

Due to high costs, the original construction material has been changed to aluminum support framing, with a useful life of over fifty years, with lumber for the decking and handrails.

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 use of the project area.

(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?

Deerfield Island is the only island park in Broward County, and it provides a unique experience for the community. The park also provides shelter and restroom facilities to the public, including boaters traveling the ICW.

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

Broward County Parks and Recreation maintains the existing amenities at Deerfield Island utilizing Parks and Recreation staff and funding. Parks and Recreation will continue to do so after the boardwalk has been replaced.

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

The boardwalk will provide public access to the mangrove plant community for years to come.

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

The boardwalk will provide access for environmental education and nature walks.

(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. Two environmental permits are in the process of being applied for: ERP for ACOE and DEP, and the Environmental Resource License from the County.

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 or delays have been identified or are anticipated 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?

Yes, the design work for this project 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?

The boardwalk traverses through a protected mangrove habitat. However, the boardwalk will be reconstructed within the existing boardwalk alignment. Therefore, no impacts to the mangrove vegetation are anticipated. Costs have been reduced by using aluminum only for supporting structures and using Southern Pine wood for decking and handrails.

(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 boardwalk will be constructed by jetting coated aluminum pilings into mucky soil. The boardwalk support structure, decking, and railing will be manually constructed.

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

The project site is an island, and the boardwalk travels through mucky soils. These site conditions present limited access for conventional construction equipment.

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

The project site is an island, and all materials and labor must be transported to the park by boat. The water surrounding the project site is too shallow for barge access. The limited access may increase the costs of the project; however, this limited access has been accounted for in the budget.

(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 boardwalk will be constructed from wood over aluminum. The life of the aluminum is more than fifty years, and the wood decking is expected to last twenty years.

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

The original intent was to construct the boardwalk out of aluminum with aluminum or Ipe wood decking. Due to high costs, the decking will instead be constructed from a different type of wood, such as Southern Pine wood.

(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 2016

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

Project Title:	Deerfield Island Boardwalk Replacement, Phase II
Applicant:	Heather Soto

Project Elements *(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)*	**Quantity or Total Estimated Cost** **(Number and/or Footage etc.)**	**Applicant's Cost**	**FIND Cost**
1. Demolition and disposal of existing boardwalk	1. $100,000	1. $50,000	1. $50,000
2. Construction of new boardwalk	2. $879,800	2. $439,900	2. $439,900
3. Contractor cost	3. $146,970	3. $73,485	3. $73,485
4. Administrative costs, including permit fees and insurance	4. $256,034	4. $128,017	4. $128,017

****TOTALS =**	$ 1,382,804	$ 0 $691,402	$ 691,402

Form No. 90-25 (New 10/14/92, Revised 04-24-06)

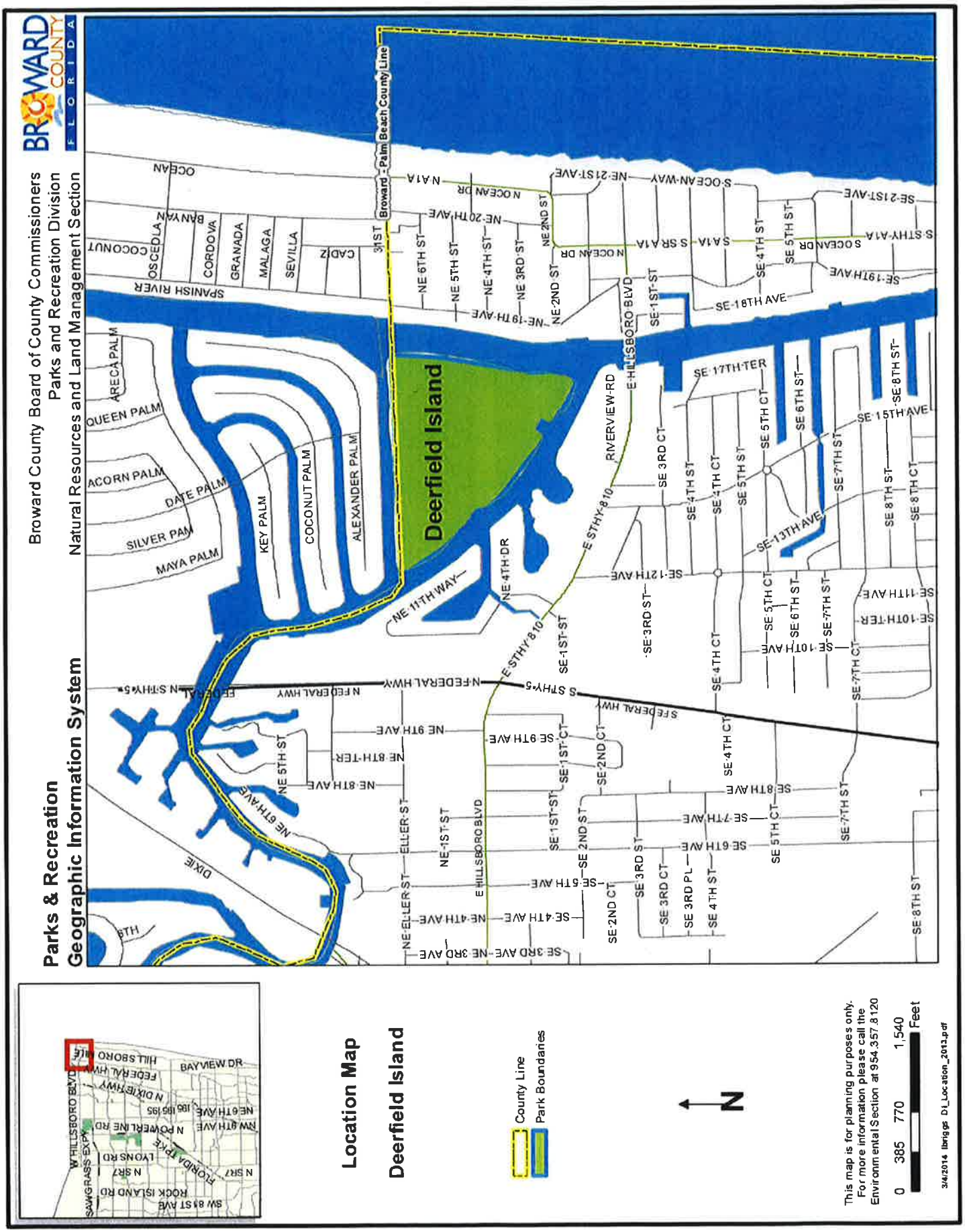
ATTACHMENT E-6
WATERWAYS ASSISTANCE PROGRAM 2016

PROJECT TIMELINE

Project Title:	Deerfield Island Boardwalk Replacement, Phase II
Applicant:	Heather Soto

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 1st
(or be consistent with Rule 66B-2.005(3) - Pre-agreement expenses)

Project agreement executed by County and FIND	November 1, 2016
Procurement process initiated	November 15, 2016
Construction initiated	August 1, 2017
Construction completed	March 31, 2018


Broward County Board of County Commissioners
Parks and Recreation Division
Natural Resources and Land Management Section
Parks & Recreation
Geographic Information System
BROWARD COUNTY FLORIDA
Deerfield Island
Location Map
Deerfield Island
County Line
Park Boundaries
N
This map is for planning purposes only.
For more information please call the
Environmental Section at 954.357.8120
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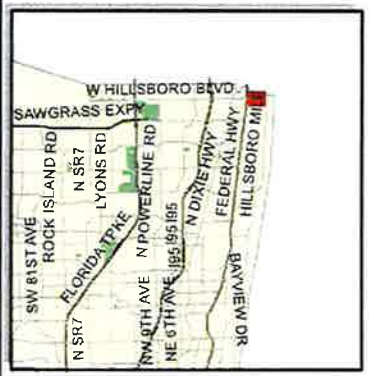

Parks & Recreation
Geographic Information System

Broward County Board of County Commissioners
Parks and Recreation Division
Natural Resources and Land Management Section

BROWARD COUNTY FLORIDA



Deerfield Island

Project Boundary Map

Park Boundaries

This map is for planning purposes only.
For more information please call the
Environmental Section at 954.357.8120

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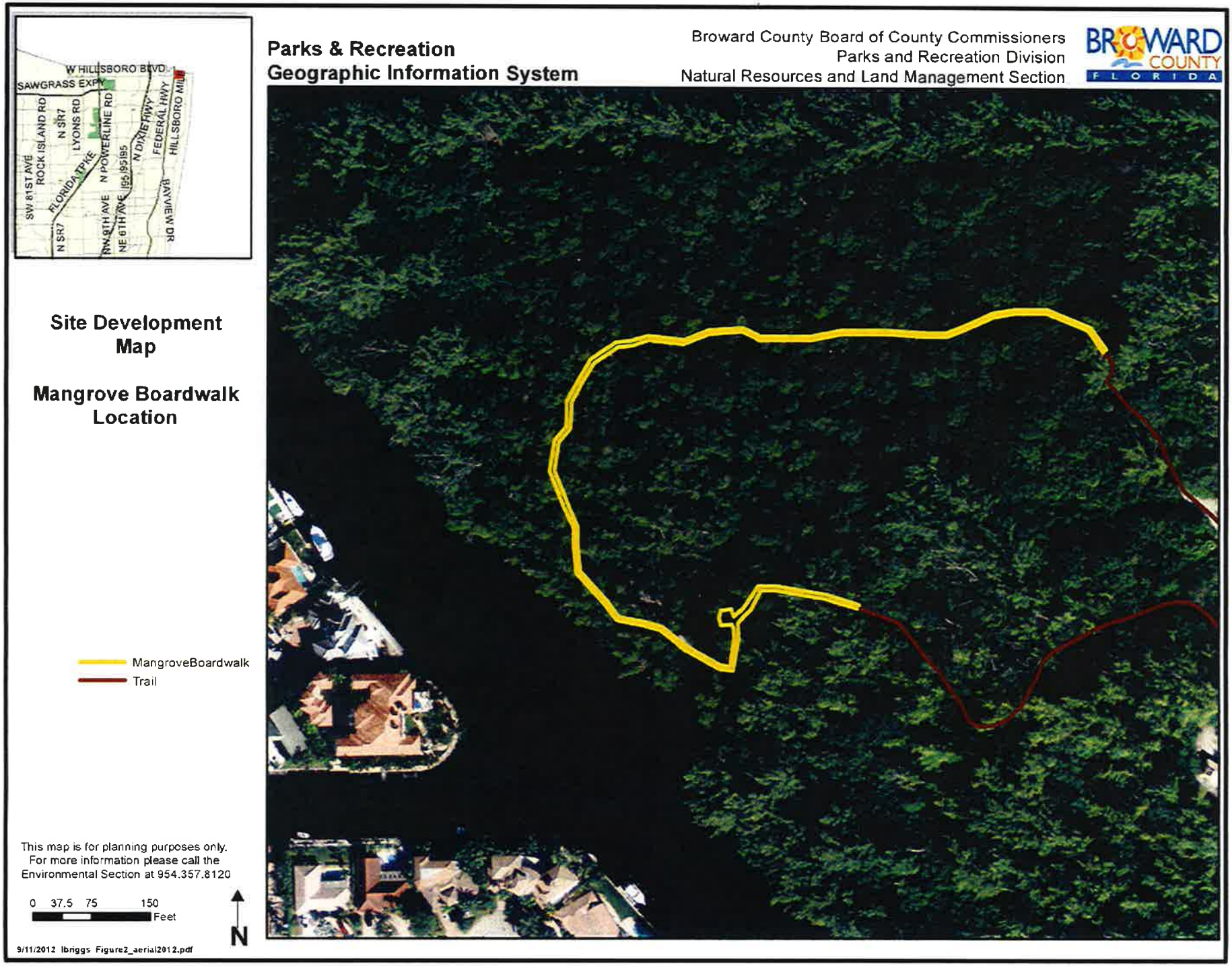
Parks & Recreation
Geographic Information System
Broward County Board of County Commissioners
Parks and Recreation Division
Natural Resources and Land Management Section
BROWARD COUNTY FLORIDA
W HILLSBORO BLVD
SAWGRASS EXPY
SW 81ST AVE
ROCK ISLAND RD
N SR7
LYONS RD
FLORIDA TPKE
N POWERLINE RD
NW 6TH AVE
NE 6TH AVE
I95/95195
N DIXIE HWY
FEDERAL HWY
HILLSBORO MILL
RAVIEW DR
Site Development Map
Mangrove Boardwalk Location
MangroveBoardwalk
Trail
This map is for planning purposes only.
For more information please call the
Environmental Section at 954.357.8120
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9/11/2012 lbriggs Figure2_aerial2012.pdf

ATTACHMENT E-2

WATERWAYS ASSISTANCE PROGRAM FY 2016
PROJECT APPLICATION
APPLICANT INFORMATION – PROJECT SUMMARY

APPLICANT INFORMATION			
Applicant:	Broward County		
Department:	Parks and Recreation Division		
Project Title:	Hollywood North Beach Park Mooring Fields, Phase I		
Project Director:	John Fiore	**Title:**	Planner
Project Liaison: *(if different from Project Director)*		**Title:**	
Mailing Address:	950 NW 38th Street		
City:	Oakland Park	**Zip Code:**	33309
Email Address:	jfiore@broward.org	**Phone #:**	954-357-8133
Project Address:	3601 N. Ocean Dr. Hollywood, Fl. 33319		

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

SIGNATURE: _____ DATE: 2/28/16

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

This Phase I project will provide planning, design and permitting for the installation of two mooring fields and ancillary features at Broward County Hollywood North Beach Regional Park. The mooring fields will be located north and south of Sheridan Street between A1A and the ICW.

Upon completion of Phase II, the project will provide transient boaters a place to moor their vessel and visit the beach and the City of Hollywood. It is anticipated that the project will include 20 to 22 mooring balls. The actual number will be determined during the design portion of Phase I. In addition, the project will include the installation of a floating dingy dock and the expansion of an existing restroom facility to include exclusive shower facilities for the boaters using the mooring fields.

Form No. 90-22, Rule 66B-2, (New 12/17/90, Rev.07-30-02, 04-24-06)

ATTACHMENT E-3 - PROJECT INFORMATION 2016

Applicant:	Broward County	Project Title:	Hollywood North Beach Park Mooring Fie		
Total Project Cost: $	$150,000	FIND Funding Requested: $	$75,000	% of Total Cost:	50%
Amount and Source of Applicant's Matching Funds:	Matching funds of $75,000 will come from the Broward Boating Improvement Program. Funds for this program are derived from the County's retained vessel registration fees.				

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

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

This project location was purchased with funds from a Florida Save Our Coast grant site. The State of Florida has joint 5/6 ownership and Broward County has the remaining 1/6 joint ownership of the property and the bottom lands

3. Once completed, will this project be insured against damage? Explain

Broward County is self insured

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

5. If yes, please list:

FIND provided funds to construct ICW boardwalks and overview areas in 1988

6. 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 1,550 lineal feet of boardwalk along the east side of the ICW. There are no boat ramps, trailer parking spaces and boat slips in Hollywood North Beach Park

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

The project proposes between 20 to 22 mooring balls to be placed in the mooring fields.

8. Are fees charged for the use of this project? No ☐ Yes ■

9. 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	Phase I Project	
DEP	Yes	Phase I Project	
ACOE	Yes	Phase I Project	
COUNTY / CITY	Yes	Phase I Project	

Form No. 90-22a (New 10-14-92, Rev. 04-24-06, 4-15-07)

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.

Project Title:	Hollywood North Beach Park Mooring Fields, Phase I
Applicant:	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.)

Priority Category 8 - development of public boat docking and mooring facilities;

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

This project will provide for the development of a mooring facility.

(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 directly relates to the ICW and the mission of the Navigation District.

This project is adjacent to the east side of the ICW and will provide recreational boaters a new mooring facility in Broward County. The project will provide assistance to a local government to develop a waterway access and improvement project.

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

The mooring fields will provide a navigational benefit to recreational boater by creating a new facility for transient boaters to safely moor their vessels while traveling 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.

It is anticipated that there will be between 20 to 22 mooring balls installed upon completion of Phase II. The only other mooring field in Broward County is operated by the city of Fort Lauderdale. During the winter months, their occupancy rate is between 90% to 100%. However, during the summer, the occupancy rate drops to between 40% to 50%.

b) Discuss the regional and local public benefits that will be provided by the project.

This mooring field will benefit the out of town transient boaters traveling the ICW as well as local boaters that want to tie up to a mooring ball overnight. This site, which will be the second one in Broward County, gives boaters an affordable alternative to tying up in one of the very expensive local marinas.

c) Can residents from other counties of the District reasonably access and use the project? Explain.

Yes. This project is is being developed to provide a mooring field for transient boaters from other counties along the east coast of Florida as well as boaters visiting from other states.

(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.**

This is a Phase I Project. Upon the award of this project and execution of the project agreement, Broward County will proceed with hiring a firm to design and engineer the project and submit the necessary permit applications to the various permitting agencies.

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

The only unique aspect that could possibly influence the aspect of this project is if endangered sea grasses are found.

(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 Broward County Commission, will approve the use of $75,000 in Broward Boating Improvement Program grant funds at their September 2016 budget hearings.

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

As this is a Phase I project, all project costs are for design, engineering, and permitting. No cost increases are expected.

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

During the design and engineering portion of this Phase I project, Broward County will investigate methods to increase the cost efficiency of the project, and included in Phase II.

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 daily and weekly fees for mooring in the mooring fields. Fort Lauderdale charges $20 per night, Miami charges 23.36 per night and Marathon charges $22 per night. These are the only three mooring fields in South Florida. Broward County's mooring fees will comparable.

(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?**

There is only one mooring field in Broward County. This project will provide a needed second field in the southern portion of the County. This project is included in the City of Hollywood's 2015 Marine Master Plan.

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

This project which is located in Broward County Hollywood North Beach Regional Park. Upon completion, it will be operated and maintained by the Broward County Parks and Recreation Division. The Broward County Parks and Recreation Division has 1,108 full and part time employees who operate and maintain 6,500 acres, consisting of 21 regional parks, six local parks and five natural areas. As this will be in one of the County's parks, it will be maintained as the other features in the County's National Gold Medal winning system.

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

This project, upon completion of Phase II, will provide recreational boaters a new location to moor their vessels, in an area where there currently there is no secure mooing, for many years to come.

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

Providing a place where recreational vessels can moor will protect the ecosystem located at the bottom of the two coves. Otherwise vessels drop their anchors anywhere they want. The anchors frequently drag across the bottom damaging seagrass and other bottom features. These kinds of environmental damages will cease upon the installation of the mooring field.

(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? If permits are NOT required, explain why not.

No environmental permits have been applied for as 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. Please provide a general cost estimate for the future Phase II work.

Broward County will go out to bid to hire a firm to design, engineer the project and to apply for the necessary permits. It is anticipated that the total Phase II constructions costs for the mooring fields, floating dingy dock and the expansion of the existing restroom to include shower facilities for the boaters will be $600,000. Actual costs will be determined during the Phase I process.

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

The only significant problem would be if there are endangered sea grasses located in the area of the mooring fields. Upon previous bottom inspections, no sea grasses were found at the site.

(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 been completed. This is a Phase I 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?**

This project will provide a new mooring facility for recreational boaters in an area were there currently are none. Broward County is strongly committed to using environmentally friendly design and construction materials which will minimize the environmental impact of this project.

(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.**

It is anticipate that a helix anchoring system will be used for the mooring balls to ensure maximum holding capacity. Design of the floating concrete dock and restroom expansion will use traditional construction methods.

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

The bottom of the two coves is silt and sand. A permanent helix anchoring system provides the greatest upward tension with its holding power not equaled by traditional mushroom anchors or dead weight blocks. Additionally, they maintain their higher holding power even with the shorter scooping necessary in congested mooring fields. They are also freindler to mooring field bottom environments.

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

The construction techniques proposed are traditional for this kind of project and will not either increase or decrease the costs of the project.

(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?

This is a Phase I project. Materials to be utilized for this project have not yet been determined. Broward County Parks and Recreation Division has a policy that construction materials have a very long design life. This project will be designed to conform to the Divisions construction policies.

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

Due to the type of project, it is not anticipated that there will be any unique construction materials used 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.)

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 2016

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

Project Title:	Hollywood North Beach Park Mooring Fields, Phase I
Applicant:	Broward County

Project Elements *(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)*	**Quantity or Total Estimated Cost** (Number and/or Footage etc.)	**Applicant's Cost**	**FIND Cost**
Design		$10,000	$10,000
Engineering		$30,000	$30,000
Permitting		$35,000	$35,000
****TOTALS =**	$ 150,000	$ 75,000	$ 75,000

Form No. 90-25 (New 10/14/92, Revised 04-24-06)

ATTACHMENT E-6
WATERWAYS ASSISTANCE PROGRAM 2016

PROJECT TIMELINE

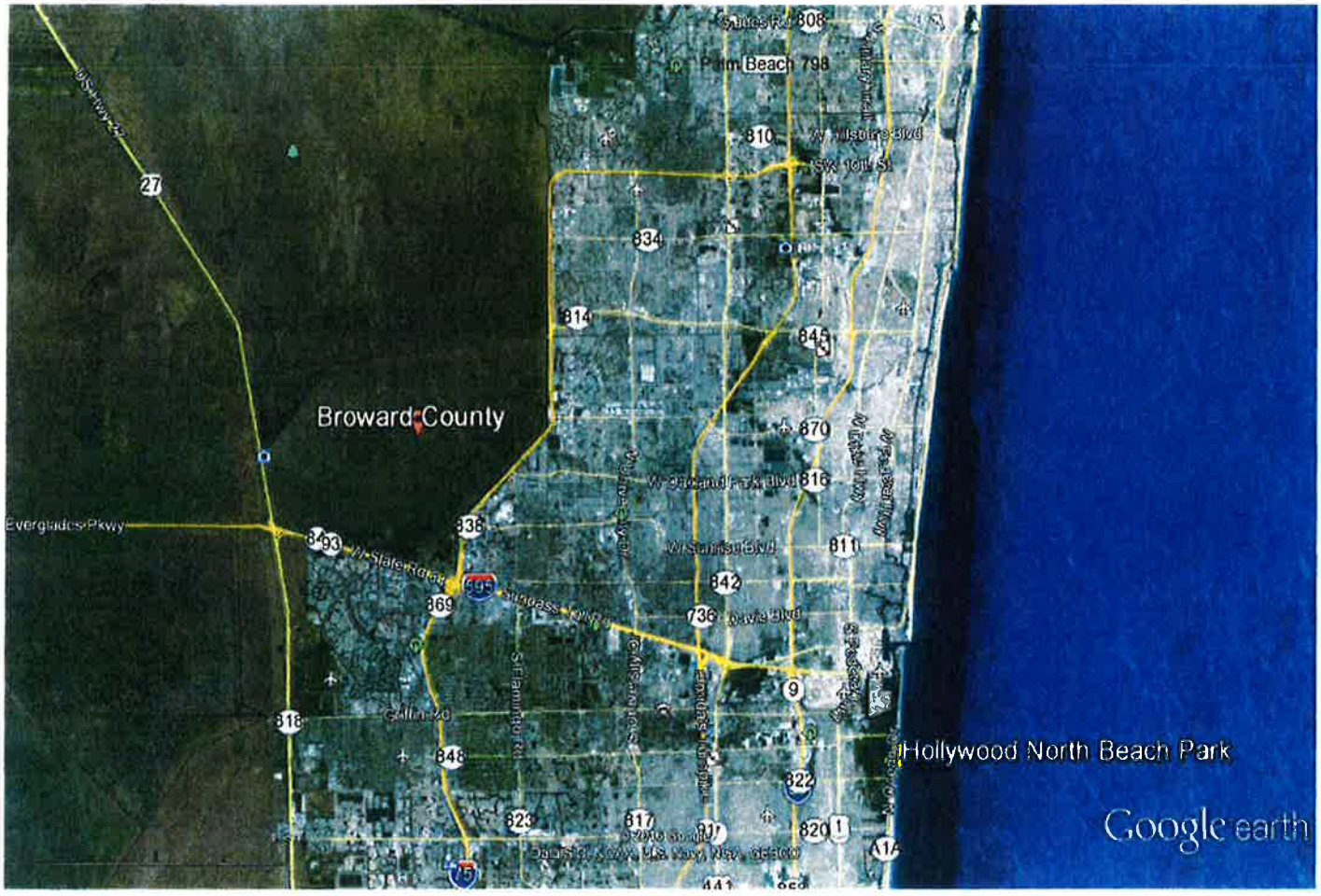
Project Title:	Hollywood North Beach Park Mooring Fields, Phase I
Applicant:	Broward County

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 1st
(or be consistent with Rule 668-2.005(3) - Pre-agreement expenses)

Phase I Project Agreement Executed by County and FIND	November 1, 2016
Project Inception	November 15, 2016
Initial County Approval by County Administrator of CCNA Process for Project	December 15, 2016
Selection Negotiation Committee Selected	December 31, 2016
Advertise "Request for Letters" of Interest for Project	February 1, 2017
Analyze Submission Qualifications and Short List Projects	February 21, 2017
Project Presentations to Selection Negotiation Committee	March 15, 2017
Contract Negotiation, Including Reconvening of Selection Negotiation Committee	May 15, 2017
Final Contract Approval by Selected Firm and Selection Negotiation Committee	June 25, 2017
Approval and Execution of Contract by Purchasing Director	July 5, 2017
Notice to Proceed Sent	July 10, 2017
Project (Design, Engineering and Permitting) Begins	July 15, 2017
Project (Design, Engineering and Permitting) Completion	August 30, 2018

BROWARD COUNTY LOCATION MAP

HOLLYWOOD NORTH BEACH PARK



BROWARD COUNTY HOLLYWOOD NORTH BEACH PARK

PROPOSED MOORING FIELDS

Location Map



Prepared by: John Fiore, Associate Planner, August

BROWARD COUNTY HOLLYWOOD NORTH BEACH PARK

PROPOSED MOORING FIELDS

Boundary Map



Prepared by: John Fiore, Associate Planner, August 13, 2015

ITEM 10.19

ATTACHMENT E-2

WATERWAYS ASSISTANCE PROGRAM FY 2016
PROJECT APPLICATION
APPLICANT INFORMATION – PROJECT SUMMARY

APPLICANT INFORMATION			
Applicant:	Broward County		
Department:	Port Everglades Department and Environmental Protection and Growth Management Department/ Environmental Planning and Community Resilience Division		
Project Title:	National Oceanic and Atmospheric Administration (NOAA) Physical Oceanographic Real Time System (PORTS®) Storm Wind/Surge Resistant Microwave Water Level Station		
Project Director:	Glenn Wiltshire	**Title:**	Deputy Port Director
Project Liaison: *(if different from Project Director)*	Peg Buchan	**Title:**	Assistant to the Port Director
Mailing Address:	1850 Eller Drive		
City:	Fort Lauderdale	**Zip Code:**	33316
Email Address:	pbuchan@broward.org	**Phone #:**	954-468-0139
Project Address:	Port Everglades		

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

SIGNATURE: Peg Buchan DATE: 3-22-2016

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

Broward County is interested in pursuing an agreement with the National Oceanic and Atmospheric Administration (NOAA) to establish a Physical Oceanographic Real Time System (PORTS®) Water Level Monitoring Station at Port Everglades. This new microwave radar technology observatory station would contribute data to the National Water Level Observation Network (NWLON). Per current NOAA policy Broward County would be responsible for the cost of any equipment, installation and the annual operations and maintenance of PORTS hardware.

NOAA's National Ocean Service (NOS) Center for Operational Oceanographic Products and Services (CO-OPS) supports those who depend upon water level measurements via maintaining the NWLON. NWLON provides long-term water level monitoring of coastal locations that are affected by varying combinations of meteorological and oceanographic conditions using data collected by over 200 observatories throughout the U.S. coastal regions, including the Great Lakes and Pacific and Caribbean island territories. NWLON data also supports real-time decisions by port pilots and other commercial mariners which improves navigation safety. Data will also be used for climate change documentation and related decisions and emergency management.

Form No. 90-22, Rule 66B-2, (New 12/17/90, Rev.07-30-02, 04-24-06)

ATTACHMENT E-3 - PROJECT INFORMATION 2016

Applicant:	Broward County		**Project Title:** National Oceanic and Atmospheric Administration (NOAA) Physical Oceanographic Real Time System (PORTS®) Storm Wind/Surge Resistant Microwave Water Level Station		
Total Project Cost: $	$116,858	**FIND Funding Requested: $**	$58,429	**% of Total Cost:**	50%
Amount and Source of Applicant's Matching Funds:	Capital Accounts: Broward County's Port Everglades Department $29,214.50 and Environmental Protection and Growth Management Department/Environmental Planning and Community Resilience Division -$29,214.50				

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

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

3. Once completed, will this project be insured against damage? Explain
Replacing/repairing the steel frame and/or the underwater monitoring tool that measures and disseminates the oceanographic and meteorological data would not exceed our insurance deductible. If the frame or the tool is damaged it will be repaired or replaced by NOAA, paid for by Broward County. FYI: The related information system is maintained off-site by NOAA. Of note: The construction and installation methodology is specifically designed for coastal structures subjected to the combined effects of hurricane wind speed and storm surge and utilizes an integrative, interdisciplinary approach that incorporates state-of-the-art knowledge in hurricane science, hydrology, probabilistic methods, and structural engineering needs.

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

5. If yes, please list:

6. 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

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

8. Are fees charged for the use of this project? No ☒ Yes ☐

9. 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	Yes / No / N/A	Date Applied For	Date Received
WMD	N/A	Click here to enter text.	Click here to enter text.
DEP	N/A	Click here to enter text.	Click here to enter text.
ACOE	N/A	Click here to enter text.	Click here to enter text.
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.

Project Title:	National Oceanic and Atmospheric Administration (NOAA) Physical Oceanographic Real Time System (PORTS®)Storm Wind/Surge Resistant Microwave Water Level Station
Applicant:	Broward County

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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.)

~~#2. Public navigation aids & markers.~~ #6. Waterway signs & buoys for safety, regulation or information

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

PORTS® is an environmental and navigation aid; a decision support tool that improves the safety and efficiency of maritime commerce and coastal resource management through the integration of real-time environmental observations. Foremost it meets the critical need to accurately and reliably capture water level measurements. In addition to water levels, the new system has the capability of handling up to 11 different ancillary oceanographic and meteorological sensors and environmental parameters such as, wind speed, direction and gust, water current speed and direction, air and water temperature, barometric pressure, water conductivity, dew point, rain fall and solar radiation which may be used for emergency management and for mariners to assist safe navigation.

(For reviewer only)
Max. Available Score for application 48

Question 1. Range of Score (1 to 6 *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 Florida Inland Navigation District is dedicated to providing assistance to other governments to help them to develop high, uniform and effective levels of navigation aids which result in maritime safety. This project will provide safer public and commercial navigation and safer waterway access in the ICW.

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

Improved Safety of Shipping and Boating -Avoided groundings, commercial vessels; avoided distress cases recreational vessels. Improved Efficiency of Marine Operations
Increased cargo carried per ship call (greater loaded draft); reduced delays (less allowance for error/margin in piloting decisions); Improved Search and Rescue (SAR) performance (surface currents). Improved Environmental Protection and Planning - Improved hazardous material spill response; Improved environmental restoration/conservation activities; Climate change documentation.

(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.

PORTS® will promote navigation safety, improve the efficiency of U.S. ports and harbors, and ensure the protection of coastal marine resources. Maritime use will be 100%.

b) Discuss the regional and local public benefits that will be provided by the project.

The real-time tide and real-time tide, tide prediction and meteorological data provided through PORTS® water level system promotes regional and local safe navigation. PORTS® data, when combined with up-to-date nautical charts and precise positioning information, can provide the mariner with a clearer picture of the potential dangers that may threaten navigation safety.

c) Can residents from other counties of the District reasonably access and use the project? Explain.

Residents from other counties in the District, other U.S. port authorities and Florida maritime shippers can use a variety of user friendly formats, including Internet to reach centralized data dissemination systems and convenient telephone voice access to accurate real-time water level information.

(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.**

Broward County has advised the Center for Operational Oceanographic Products and Services of their interest in pursuing an agreement with the National Oceanic and Atmospheric Administration (NOAA) to establish a Physical Oceanographic Real Time System (PORTS) Water Level Monitoring Station at Port Everglades. If Broward County is successful in securing a WAP Grant (available October 1, 2016) we anticipate that on May 1, 2018 we would declare the station operational.

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

National Oceanic and Atmospheric Administration (NOAA) may have project backlog issues. However, this is not anticipated.

(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.**

Capital funding will be appropriated in the Broward County Fiscal Year 2017 Budget in the amount of $58,429 (50% of the project cost).

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

Increases are not anticipated.

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

NOAA has efficiently and effectively sourced project components for many similar projects.

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?

Safety is the specific need this project fills. Port Everglades had 3,768 commercial vessel calls in 2015 where the knowledge of tides and currents was particularly critical because today's commercial vessels are much larger than tankers, cruise and cargo ships were in the recent past. The depths and widths of the channels in which they maneuver, and the increased marine traffic leaves very little room for error. This system will be part of a national PORTS system, which is a maritime management program.

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

PORTS uses engineered microwave and pressure systems to automatically detect and record changes in water levels. All data are recorded electronically, transmitted via satellite every six minutes, and made available online 365 days a year 24/7. NOAA will maintain and repair, and replace all equipment associated with these activities. Total Annual Estimated Maintenance of $26,724 for this service will be paid by Port Everglades operations budget, with the potential for other local contributors.

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

Mariner safety is the significant and lasting benefit. Per NOAA economic benefit studies have shown up to a 60% reduction in groundings for locations that have a PORTS system.

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

Ecologists may focus on the tidal mixing of near-shore waters, where pollutants are removed and nutrients are recirculated and tidal currents move floating animals and plants to and from breeding areas in estuaries to deeper waters. Oceanographers or atmospheric scientists may study tidal fluctuations to better understand the circulation of the ocean and its relationship to world climatic changes, these studies may offer regional and local environmental benefits. Also, this gauge can be used to study sea level rise and is valuable for determining inundation during storm surge events.

(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? If permits are NOT required, explain why not.

No environmental permits are needed as the system will not be installed in an environmentally sensitive area.

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.

	Crew daily (# of people)	Crew daily rate (1 person)	total labor cost per day	Equipment Daily Rental	# of days	Total Cost
Reconnaissance	2	$1,600	$3,200	$100	3	$9,900
Design & Stage	3	$1,600	$4,800	$100	3	$14,700
						$24,600

A general cost estimate for the future work includes: Surveying (benchmark establishment or confirmation) Site Preparation Foundation Installation Station (Construction) Installation System Testing & Evaluation Final Inspection & Report Govt Notification- $35,020

a) 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?

No. PORTS® systems come in a variety of sizes and configurations, each tailored to meet local user requirements. The installation design will be engineered for the host site. After the contract for the PORTS® systems is signed in late 2016, NOAA will schedule and conduct (in the spring of 2017) sight location recon to take photographs and specific measurements for the installation.

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?

Public access to accurate real-time water-level information allows U.S. port authorities and maritime shippers to make sound decisions regarding loading of tonnage (based on available bottom clearance), maximizing loads, and limiting passage times without compromising safety.

(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 Observing Systems Manager, NOAA NOS Center for Operational Oceanographic Products and Services (CO-OPS) has recommended construction techniques which take into consideration County Building Code Design Wind Speed (150 mph in Broward County) and storm surge updates. An elevated (20' above the water) frame will be constructed on an existing coastal foundation/structure and the monitoring tools are affixed to the frame.

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

As stated earlier, (attachment 3) the construction and installation methodology is specifically designed for coastal structures subjected to the combined effects of hurricane wind speed and storm surge and utilizes an integrative, interdisciplinary approach that incorporates state-of-the-art knowledge in hurricane science, hydrology, probabilistic methods, and structural engineering needs.

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

N/A

(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?

$57,238 is the estimated costs for materials to be used for the project. Design life is standard for materials used. Materials include (not inclusive): batteries, transmitter, gauges, surge protectors, current regulators, transducer, sensors, probes, barometers, antennas, modem, solar panels, clables, brackets, springs, connectors, grate, ladder, conduits, bolts, weight anchors, rods, clamps.

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

Construction materials are not unique-

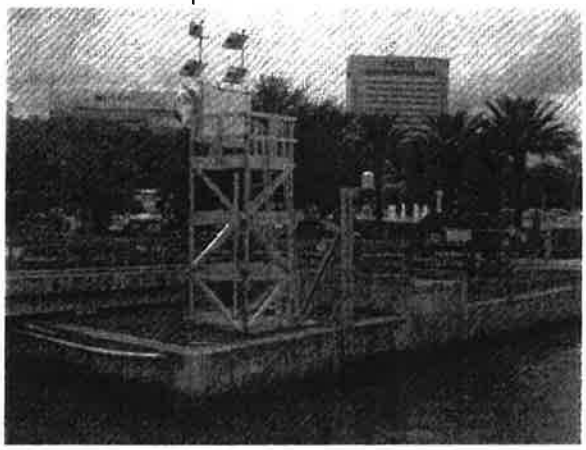


Photo of installed system

(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, revise

ATTACHMENT E-5

FLORIDA INLAND NAVIGATION DISTRICT
ASSISTANCE PROGRAM 2016

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

Project Title:	National Oceanic and Atmospheric Administration (NOAA) Physical Oceanographic Real Time System (PORTS®) Storm Wind/Surge Resistant Microwave Water Level Station
Applicant:	Broward County

Project Elements *(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)*	**Quantity or Total Estimated Cost** (Number and/or Footage etc.)	**Applicant's Cost**	**FIND Cost**
Equipment Costs (MWWL Standard Configuration on elevated frame)	$57,238	$28,619	$28,619
Contractor Recon, Design, Prep, & Installation Cost	$59,620	$29,810	$29,810
****TOTALS =**	**$ 116,858**	**$ 58,429**	**$ 58,429**

$58,429 will be split between the Broward County's Port Everglades Department and Environmental Protection and Growth Management Department/ Environmental Planning and Community Resilience Division

Form No. 90-25 (New 10/14/92, Revised 04-24-06)

ATTACHMENT E-6
WATERWAYS ASSISTANCE PROGRAM 2016

PROJECT TIMELINE

Project Title:	National Oceanic and Atmospheric Administration (NOAA) Physical Oceanographic Real Time System (PORTS®) Storm Wind/Surge Resistant Microwave Water Level Station
Applicant:	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 1st

(or be consistent with Rule 66B-2.005(3) - Pre-agreement expenses)

October 1, 2016

Enter into agreement with National Oceanic and Atmospheric Administration (NOAA) to establish a Physical Oceanographic Real Time System (PORTS) Water Level Monitoring Station at Port Everglades.

October 1, 2016 – January 31, 2017 – Agreement process between Port Everglades and NOAA for the installation of the water level gauge and the exchange of funding.

February 1 – March 31, 2017 – schedule and conduct sight location recon to take photographs and specific measurements for the installation.

April 1– June 30, 2017 – Designed and develop engineer drawings for the new installation.

July 1 – October 30, 2017 – Purchase equipment, have new mounting hardware fabricated and develop statement of work for contracting installation.

November 1 – December 31, 2017 – Select contractor, assemble system and conduct throughput testing.

January 1 – February 28, 2018 – Schedule and complete installation.

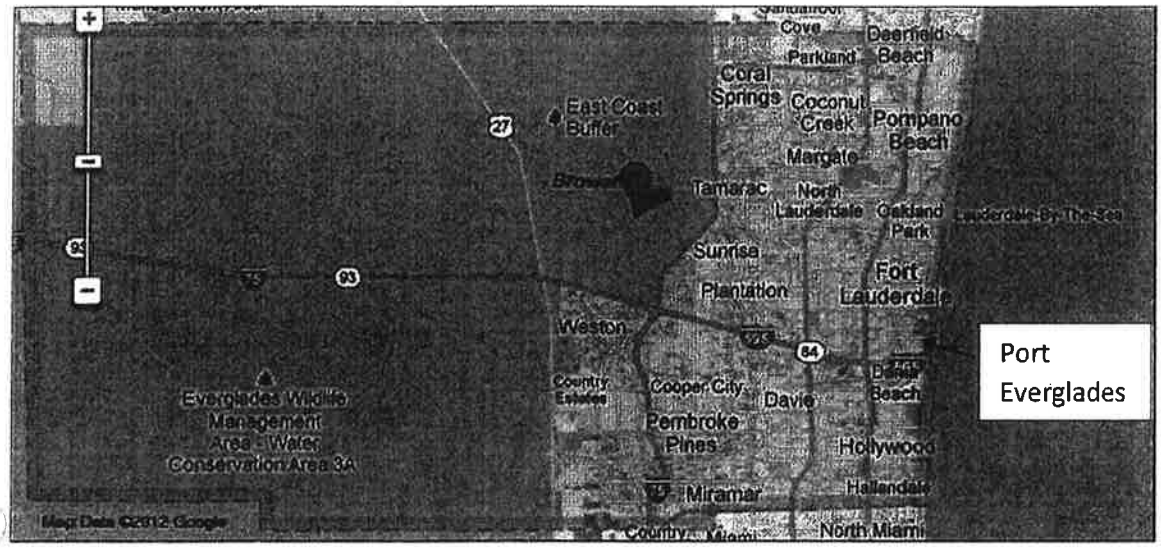
March 1 – April 30, 2018 – Conduct data quality assurance assessment, derive harmonic constituents for tide predictions, develop PORTS web products and setup phone voice system.

May 1, 2018 – Declare station operational.

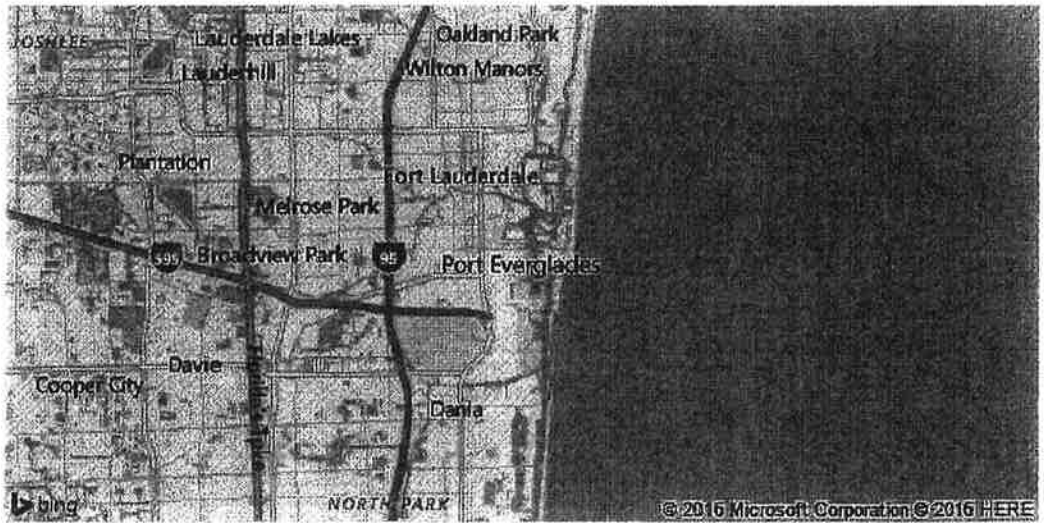


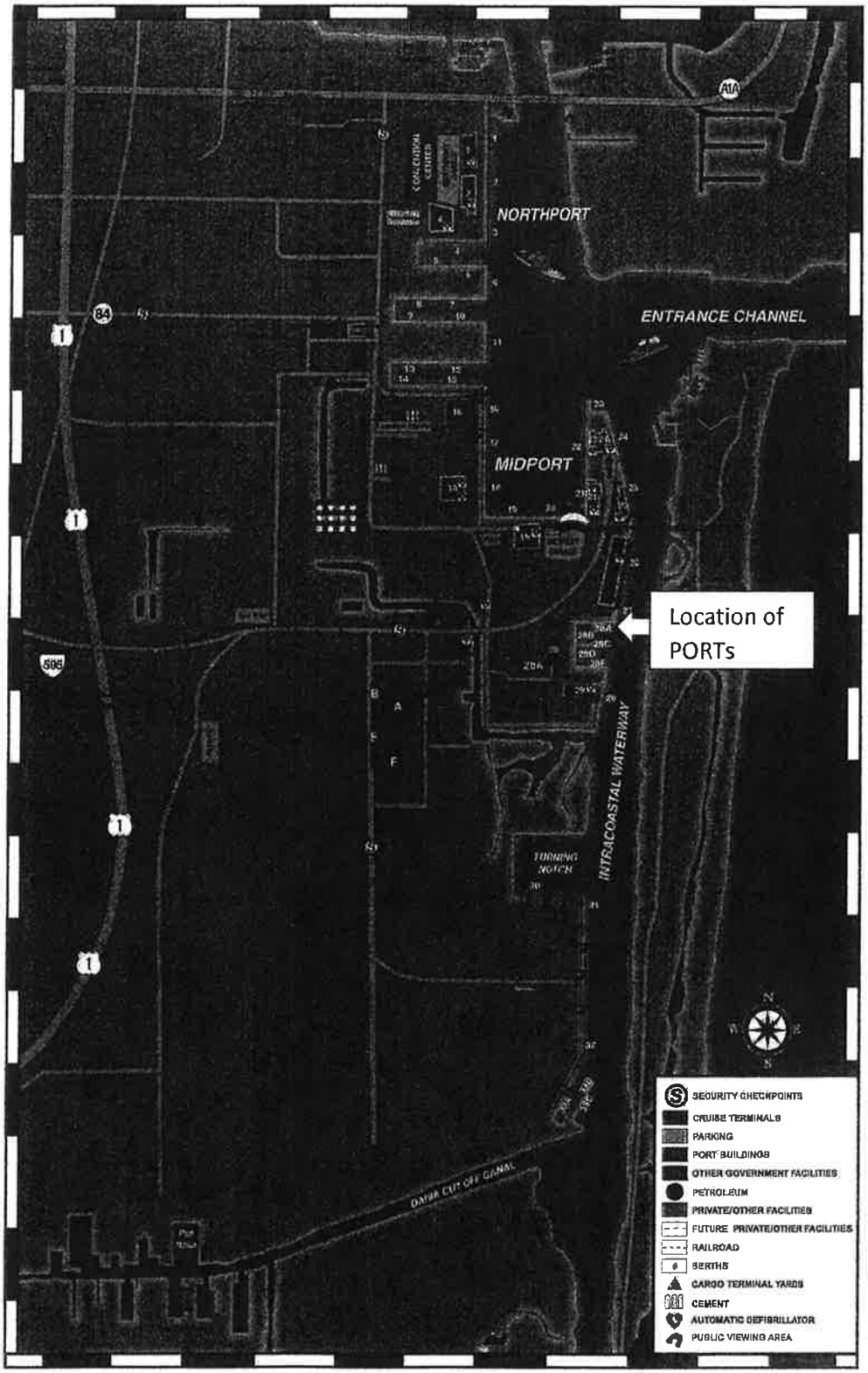
Broward County, FL

Broward County, FL



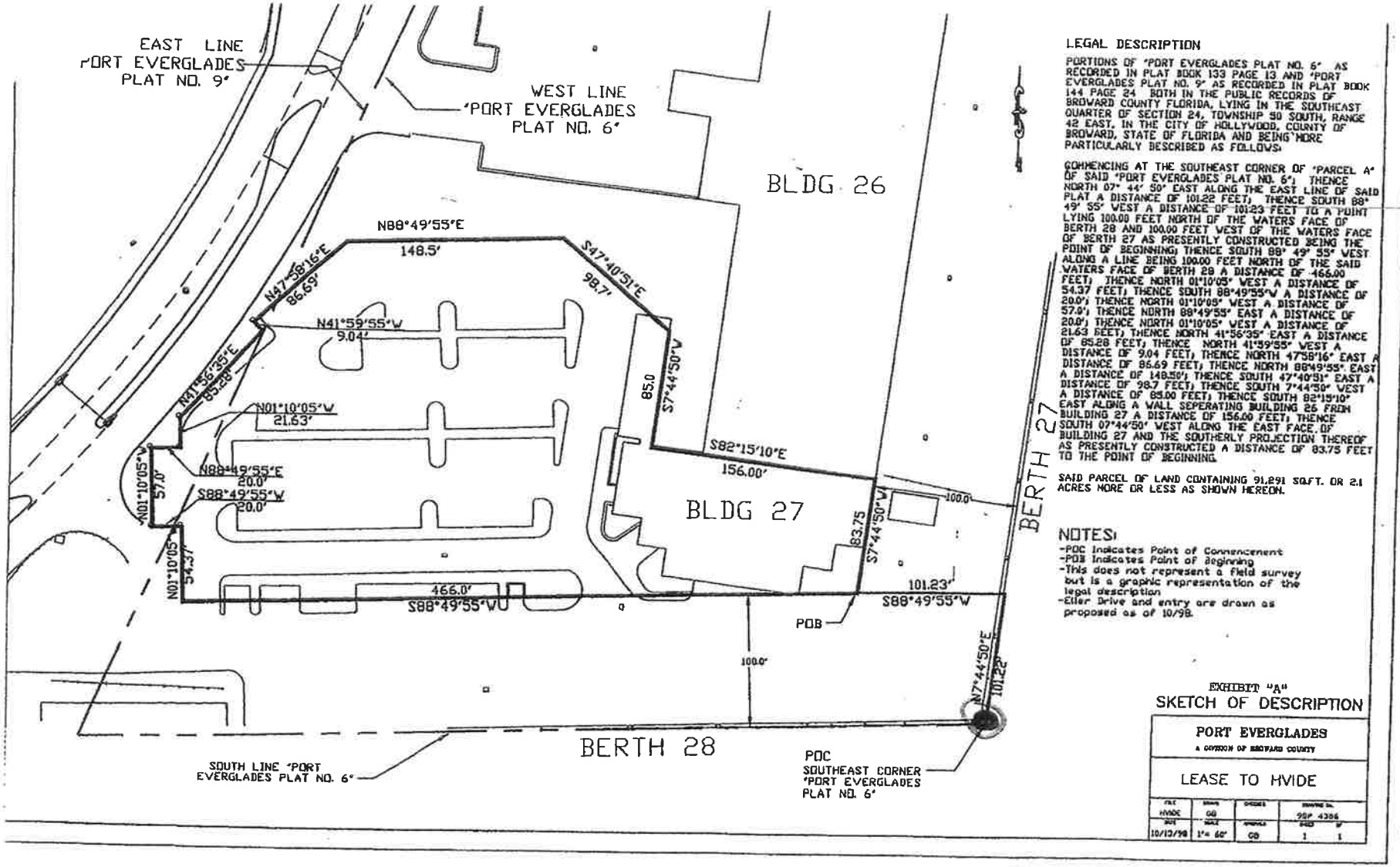
Port Everglades





PORT EVERGLADES
BROWARD COUNTY, FLORIDA

www.broward.org/port
1850 Eller Drive • Fort Lauderdale, FL 33316 • 954.523.3404



LEGAL DESCRIPTION

PORTIONS OF "PORT EVERGLADES PLAT NO. 6" AS RECORDED IN PLAT BOOK 133 PAGE 13 AND "PORT EVERGLADES PLAT NO. 9" AS RECORDED IN PLAT BOOK 144 PAGE 24 BOTH IN THE PUBLIC RECORDS OF BROWARD COUNTY FLORIDA, LYING IN THE SOUTHEAST QUARTER OF SECTION 24, TOWNSHIP 50 SOUTH, RANGE 42 EAST, IN THE CITY OF HOLLYWOOD, COUNTY OF BROWARD, STATE OF FLORIDA AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE SOUTHEAST CORNER OF "PARCEL A" OF SAID "PORT EVERGLADES PLAT NO. 6"; THENCE NORTH 07° 44' 50" EAST ALONG THE EAST LINE OF SAID PLAT A DISTANCE OF 101.22 FEET; THENCE SOUTH 88° 49' 55" WEST A DISTANCE OF 101.23 FEET TO A POINT LYING 100.00 FEET NORTH OF THE WATERS FACE OF BERTH 28 AND 100.00 FEET WEST OF THE WATERS FACE OF BERTH 27 AS PRESENTLY CONSTRUCTED BEING THE POINT OF BEGINNING; THENCE SOUTH 88° 49' 55" WEST ALONG A LINE BEING 100.00 FEET NORTH OF THE SAID WATERS FACE OF BERTH 28 A DISTANCE OF 466.00 FEET; THENCE NORTH 01°10'05" WEST A DISTANCE OF 54.37 FEET; THENCE SOUTH 88°49'55"W A DISTANCE OF 20.0'; THENCE NORTH 01°10'05" WEST A DISTANCE OF 57.0'; THENCE NORTH 88°49'55" EAST A DISTANCE OF 20.0'; THENCE NORTH 01°10'05" WEST A DISTANCE OF 21.63 FEET; THENCE NORTH 41°56'35" EAST A DISTANCE OF 85.28 FEET; THENCE NORTH 41°59'55" WEST A DISTANCE OF 9.04 FEET; THENCE NORTH 47°58'16" EAST A DISTANCE OF 86.69 FEET; THENCE NORTH 88°49'55" EAST A DISTANCE OF 148.50'; THENCE SOUTH 47°40'51" EAST A DISTANCE OF 98.7 FEET; THENCE SOUTH 7°44'50" WEST A DISTANCE OF 85.00 FEET; THENCE SOUTH 82°15'10" EAST ALONG A WALL SEPERATING BUILDING 26 FROM BUILDING 27 A DISTANCE OF 156.00 FEET; THENCE SOUTH 07°44'50" WEST ALONG THE EAST FACE OF BUILDING 27 AND THE SOUTHERLY PROJECTION THEREOF AS PRESENTLY CONSTRUCTED A DISTANCE OF 83.75 FEET TO THE POINT OF BEGINNING.

SAID PARCEL OF LAND CONTAINING 91,291 SQ.FT. OR 2.1 ACRES MORE OR LESS AS SHOWN HEREON.

NOTES:
-POC Indicates Point of Commencement
-POB Indicates Point of Beginning
-This does not represent a field survey but is a graphic representation of the legal description
-Eller Drive and entry are drawn as proposed as of 10/98.

EXHIBIT "A"
SKETCH OF DESCRIPTION

PORT EVERGLADES A DIVISION OF BROWARD COUNTY			
LEASE TO HVIDE			
FILE HVIDE	DRAWN GB	CHECKED	DRAWING No. 98P 4386
DATE 10/13/98	SCALE 1" = 60'	APPROVED GB	SHEET 1 OF 1

ATTACHMENT E-2

WATERWAYS ASSISTANCE PROGRAM FY 2016
PROJECT APPLICATION
APPLICANT INFORMATION – PROJECT SUMMARY

APPLICANT INFORMATION			
Applicant:	City of Fort Lauderdale		
Department:	Fort Lauderdale Police Department		
Project Title:	Fort Lauderdale Police Dive Team Search and Rescue Equipment		
Project Director:	Thomas Capano	**Title:**	Sergeant
Project Liaison: *(if different from Project Director)*	Dayna Bhaggan	**Title:**	Public Safety Grants Manager
Mailing Address:	1300 West Broward Boulevard		
City:	Fort Lauderdale	**Zip Code:**	33312
Email Address:	dbhaggan@fortlauderdale.go	**Phone #:**	954-828-5284
Project Address:	1300 West Broward Boulevard, Fort Lauderdale, FL 33312		

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

SIGNATURE: _____ DATE: 3-28-16

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

This project seeks to acquire one remote operated vehicle (ROV) to enhance the capabilities and efficiency of the Fort Lauderdale Police Dive Team. This device, which is just over 1 foot long, can be utilized across a vast scope of applications within law enforcement, to include search and rescue/recovery, forensic and evidence gathering, and border security. In the last 18 months, the Dive Team has been deployed to search the Intracostal Waterway to search for two missing persons and to search and recover evidence (e.g. vehicles, firearms, etc). Utilizing this device can assist the Police divers in accomplishing missions more safely, quickly and cost-effectively, as it negates the need to always deploy divers in hazardous water conditions or contamined water (e.g. fuel spill). By first deploying the device, the divers can do a preliminary search and use the video footage relayed by the ROVto determine if it is still necessary to use police divers. It also reduces the amount of time required for divers to be in the water, as the ROV can do an initial search of the area in order to pinpoint where the item to be recovered is located. We anticipate that this project will cost $42,000. We are requesting $21,000 in FIND funding and our agency will meet the required 50% match by using $21,000 in city funds from the Fort Lauerdale General Funds.

Form No. 90-22, Rule 66B-2, (New 12/17/90, Rev.07-30-02, 04-24-06)

ATTACHMENT E-3 - PROJECT INFORMATION 2016

Applicant:	City of Fort Lauderdale	**Project Title:**	Fort Lauderdale Police Dive Team Search & Rescue Equipment		
Total Project Cost: $	$42,000	**FIND Funding Requested: $**	$21,000	**% of Total Cost:**	50%
Amount and Source of Applicant's Matching Funds:	The City of Fort Lauderdale will provide the required match of $21,000 via City General Fund.				

1. Ownership of Project Site (check one): N/A Own: ☐ Leased: ☐ Other: ☐

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

3. Once completed, will this project be insured against damage? Explain

Yes. The City of Fort Lauderdale is self insured.

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

5. If yes, please list:

City of Fort Lauderdale has received FY2013 WAP funds to purchase 1 set of outboard motors; FY2014 WAP funds which partially funded 1 set of outboard motors; and FY2015 WAP funds which again partially funded 1 set of outboard motors.

6. 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

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

8. Are fees charged for the use of this project? No ☒ Yes ☐

9. 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	Click here to enter text.	Click here to enter text.
DEP	N/A	Click here to enter text.	Click here to enter text.
ACOE	N/A	Click here to enter text.	Click here to enter text.
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.

Project Title:	Fort Lauderdale Police Dive Team Search & Rescue Equipment
Applicant:	City of Fort Lauderdale Police Department

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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 List Category #14: Waterway boating safety programs & equipment

b) Explain how the project fits this priority category.

This project seeks funding to assist the Fort Lauderdale Police Department in the purchase of one remote operated vehicle for underwater missions.

(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 directly relates to the ICW and the mission of the Navigation District.

This project directly relates to FIND's mission by supporting the Fort Lauderdale Police Department's ability to provide search and rescue/recovery and border security thereby creating 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?

This project supports the ability of the Dive Team to respond to emergency situations where there is possibly a risk to person or property in the ICW and adjoining waterways. Additionally, this project will aid in investigating events that cause harm to the waterways to include oil spills, sunken objects or vessels. Overall, this project contributes the maintenance of a safe and navigable ICW and 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 mission of the Police Dive Team is to provide underwater services for crime scene investigations, recovery operations, emergency rescue operations, and operational support within our jurisdiction as well as at the request of other law enforcement agencies/municipalities. The team can be activated 365 days a year, 24 hours per day. The team keeps detailed logs to document emergency and investigative call outs and training activities. Moreover, the Dive Team is called upon to provide security at major events such as the Winterfest Boat Parade, Annual Fleet Week and July 4th events, wherein divers conduct security 'sweeps' along the piers, docks and seawalls to ensure the safety of the tens of thousands of people that visit the waterways during these events as well as year round.

b) Discuss the regional and local public benefits that will be provided by the project.

This project will realize several benefits to the public that will result in enhanced public safety and reduced time that the waterway may be inaccessible due to police activity. The project will facilitate enhanced security at events to increase the safety and enjoyment of ICW, as well as a more efficient follow-up investigation in cases of missing persons or criminal offenses and thus possibly the apprehension of criminals. Furthermore, there are benefits to law enforcement such as quicker response time when conditions are not safe to deploy a diver and reduced risk to divers that do have to put themselves in harmful situations due to bad weather, strong currents or narrow/unsafe locations e.g. between a dock and a yacht.

c) **Can residents from other counties of the District reasonably access and use the project? Explain.**

Yes. This equipment is shareable and deployable. Due to most agencies not having this technology, the FLPD Dive Team would be available to assist other jurisdictions pursuant to a request. Furthermore, the Team has a mutual aid agreement with the City of Wilton Manors, and team members are part of the South Florida Regional Domestic Terrorism Task Force and partner regularly with law enforcement from many neighboring municipalities.

(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.**

2016 November – December:	City Commission approves FIND grant agreement.
2017 January – February:	FIND grant agreement is fully executed by all parties.
2017 March - May:	City Procurement prepares and issues purchase order for the device.
2017 May - July:	The device is delivered and vendor-provided training is conducted.
2017 August:	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)

---

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 a remote operated vehicle (ROV). The City of Fort Lauderdale will match the balance of the cost thru the use of the City's General Fund. Fort Lauderdale City Commission approved allocation of matching funds during the March 15, 2016 Commission Meeting.

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 a quote that was obtained in January 2016. It is not anticipated that the cost of the ROV 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.

City Procurement will determine if the ROV can be acquired under a government contract or via an invitation to bid, and will ensure that appropriate procurement policies are followed.

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 residents and visitors utilizing the ICW and its adjoining waterways. This is in alignment with the City's strategic plan, *Press Play Fort Lauderdale 2018*, included within the Public Safety Cylinders of Excellence, specifically advancing:

- 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.
- Goal 9: Be the safest urban coastal City in South Florida through preventative and responsive police and fire protection.

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

The ROV has relatively little recurring costs. Any routine maintenance that is required will be funded by the Police Department's operating budget.

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

Yes. It is anticipated that the ROV will be used for several years. Thus, this project will contribute to the immediate and long-term safety of persons that visit the ICW and surrounding waterways through the Dive Team's increased response capabilities.

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

The acquisition of the ROV will decrease the frequency to deploy the 28' police boat during Dive Team operations as the device permits the team to deploy the device first and then, after utilizing its sonar and video relay features, determine if the boat needs to be used. Additionally, the ROV has an arm tether that is capable of manipulating suspect items which allows the divers on land to view via an onboard video system. Overall, deploying the ROV can lower impacts on the air and water quality due to less need to use the police boat.

(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-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 ROV will augment overall public safety due to the increased accessibility of areas to be evaluated for security precautions, less lag time to begin investigations due to environmental factors, and quicker resolution of any impairments to the ICW and related waterways. The compact size of the ROV can access areas that the average person cannot. The video relay system transmits images to allow the team to begin a preliminary search and zero in on a targeted area, so less time needs to be spent in the waterway. The video relay also allows the team to evaluate if a device is volatile (e.g. explosive) and requires additional precautions. The arm tether permits the team to manipulate an object from a distance to determine if it is indeed the item in question and the status of said item.

d) How does the project provide significant benefits or enhancements to the District's Waterways?

Without the device, the Dive Team is restricted by waterway accessibility and weather and waterway conditions. This causes significant delays in the divers' deployment in the water to begin their assigned tasks. The ROV allows the Dive Team to better assess a situation and the most appropriate response, thereby resulting in increased public safety. The quicker the dive team can respond, the quicker the situation can be resolved and the less the ICW and the public will be negatively impacted.

(For reviewer only)
(1-3 points)

---

8) EXPERIENCE & QUALIFICATIONS:

a) List the personnel tasked with the implementation of this project, their qualifications, previous training and experience.

The following staff members will be directly involved in this project:
Dive Team: *Sergeant Tom Capano* (the Dive Team Commander and Project Director for the FIND grant), *Officer Tom Stenger, Officer Dan Gowans, Officer Kim Shushman, and Officer Will Phillips*. These officers will undergo training in the use of the ROV and will be tasked with its utilization and maintenance. Officer Stenger has had experience with this device as a result of a prior assignment with the U.S. Coast Guard.

Grant Administration: *Ms. Dayna 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 Capano has been a member of the FLPD Dive Team for the past 13 years and the Commander of the unit for the past 3 years. He is certified as a PADI Instructor for the past 22 years. He is also the primary instructor of the Dive Team and holds a PADI Public Safety Diver Instructor rating.

Officers Gowans, Phillips, Shushman and Stenger have been team members for the past 18 months and all are certified as Rescue Divers and Public Safety Divers. Officer Phillips is also a member of the FLPD Marine Unit, has completed the 40-hour Marine Law Enforcement Tactics Class and participates in the South Florida Regional Domestic Terrorism Task Force.

(For reviewer only)
(1-2 points)

9) DELIVERABLES:

a) Describe the anticipated, long-term measurable results of implementing this project.

The ROV permits the Dive Team to utilize prevention, intervention and investigative strategies more efficiently (i.e. allowing for a quicker response time and less overall time in the water), as well as in circumstances, where it might not have been feasible to use a diver in the past (e.g. under bridges or between mega yachts and docks, where it is not safe for a diver due to risk of currents). The anticipated results from this project are faster recoveries (of evidence/missing persons), quicker identification of suspect items, reduced negative impacts to the waterways, shorter diver team call out times, fewer divers required on scene and in the water, and lower risk for divers (i.e. fewer accidents and injuries to divers).

b) What is the range or area of coverage for this project? Please provide a map of the coverage area.

The City of Fort Lauderdale encompasses 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?

The dive team is called upon approximately two dozen times a year to perform rescue and investigative support functions. Without the ROV, the dive team would be limited to deploying divers only when weather, environmental and accessibility conditions are feasible. This is a significant disadvantage in emergency situations. Through the administration of this project, the public will benefit from the Dive Team's ability to more efficiently facilitate rescue and investigative tasks on the ICW, which enhances the safety of all persons that utilize the waterways.

For reviewer only)
(1-4 points)

---

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?

As a result of the acquisition of the ROV, the safety of all persons that access the waterways will be improved. The ability to deploy the ROV allows for enhanced rescue and security precautions and for a quicker resolution to sunken vessels when permissible.

(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 2016

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

Project Title:	Fort Lauderdale Police Dive Team Search & Rescue Equipment
Applicant:	City of Fort Lauderdale Police Department

Project Elements *(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)*	**Quantity or Total Estimated Cost** **(Number and/or Footage etc.)**	**Applicant's Cost**	**FIND Cost**
Remotely Operated Vehicle (ROV) to include video relay system, arm tether and device training	**1 ROV @ $42,000 each**	**$21,000**	**$21,000**

****TOTALS =**	**$42,000**	**$21,000**	**$21,000**

Form No. 90-25 (New 10/14/92, Revised 04-24-06)

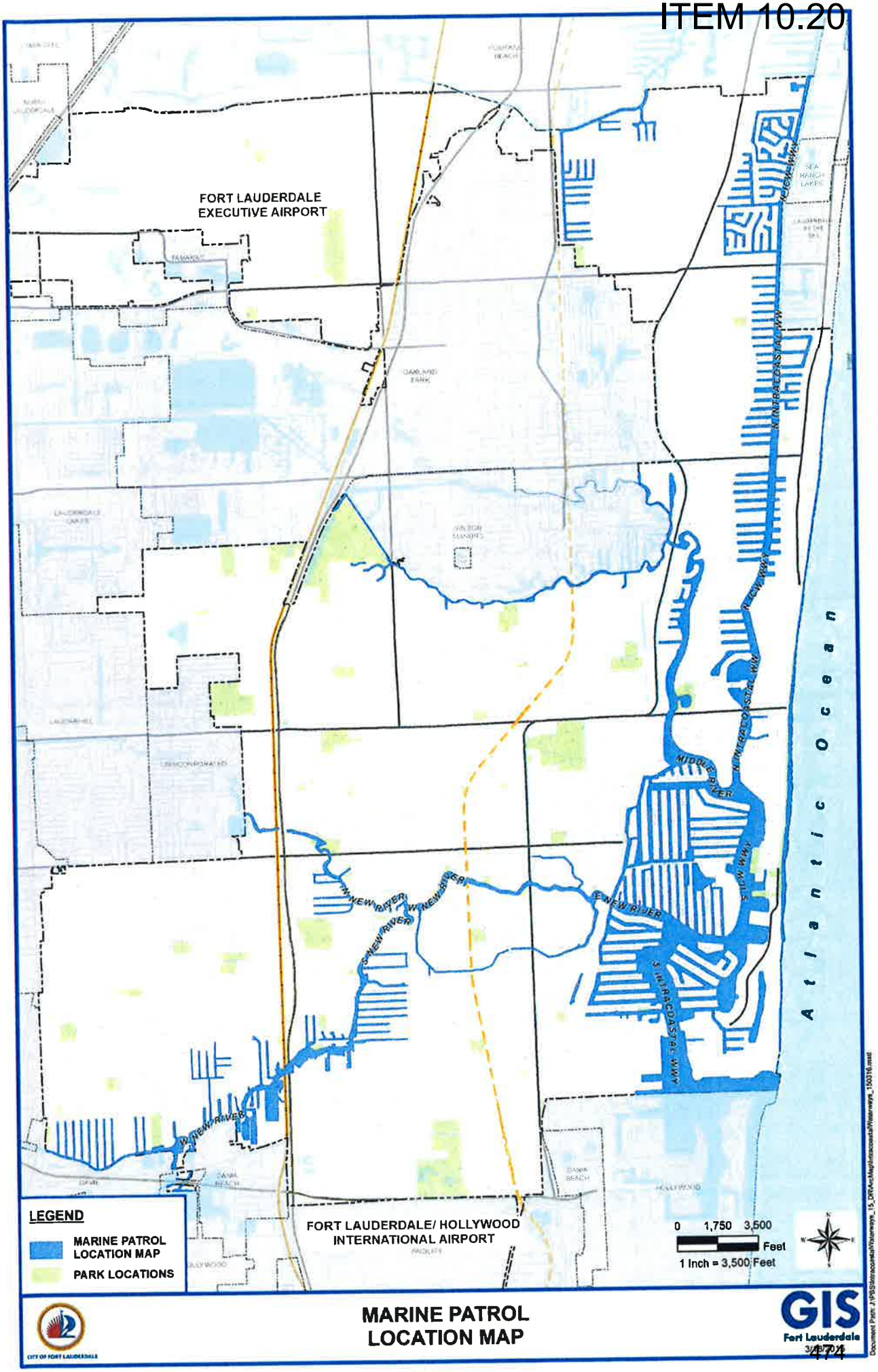
ATTACHMENT E-6
WATERWAYS ASSISTANCE PROGRAM 2016

PROJECT TIMELINE

Project Title:	Fort Lauderdale Police Dive Team Search and Rescue Equipment
Applicant:	City of Fort Lauderdale Police Department

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 1st
(or be consistent with Rule 66B-2.005(3) - Pre-agreement expenses)

DATE	ACTIVITY
2016 Nov - Dec	City Commission approves FIND grant agreement
2017 Jan - Feb	FIND grant agreement is fully executed by all parties
2017 Mar – May	Procurement determines the most appropriate means to acquire the device and after completing this process issues the Purchase Order to the vendor.
2017 May – July	The device is delivered and vendor-provided training commences
2017 August	Project is completed and closeout documents are submitted to FIND



MARINE PATROL LOCATION MAP

GIS Fort Lauderdale

ATTACHMENT E-2

WATERWAYS ASSISTANCE PROGRAM FY 2016
PROJECT APPLICATION
APPLICANT INFORMATION – PROJECT SUMMARY

APPLICANT INFORMATION			
Applicant:	City of Lighthouse Point		
Department:	Lighthouse Point Police Department		
Project Title:	Lighthouse Point Police Department Outboard Motors Replacement Project		
Project Director:	Ross Licata	**Title:**	Chief of Police
Project Liaison: *(if different from Project Director)*		**Title:**	
Mailing Address:	3701 N.E. 22nd Avenue		
City:	Lighthouse Point	**Zip Code:**	33064
Email Address:	rlicata@lighthousepoint.com	**Phone #:**	954-942-8080
Project Address:	3701 N.E. 22nd Avenue Lighthouse Point, Florida 33064		

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

SIGNATURE: Ross Licata DATE: 1-13-16

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

The Lighthouse Point Police Department has one marine patrol vessel. The current set of outboard motors on the vessel are over 6 years old, and are out of warranty. Our vessel has logged 4163 hours on the port engine and 4175 hours on the starboard engine. This past year the motors have been breaking down more frequently and require significant repairs. I anticipate the engine hours will be significantly higher by October 2016. When out of service, the cost of repair to the engines is expensive, and most importantly, decreases our presence on local waterways. As the only boat in our fleet, it gets daily use and must be functional and reliable to provide the highest level of public and boating safety on our waterways. Given the city's current budget restraints, I am requesting financial assistance utilizing the 2016 FIND Waterway Assistance Program Grant coupled with the City's required cash match to obtain two new outboard motors. The Lighthouse Point Police Department is requesting $18,719.25 in the FY 2016 Waterways Assistance Program grant funds to purchase one motor. The City of Lighthouse Point (Police Department) will meet the grants required 50% cash match by purchasing the second outboard motor. The funding under this grant will ensure our ability to provide reliable marine law enforcement patrols and increased public safety of the ICW and its adjoining waterways.

Form No. 90-22, Rule 66B-2, (New 12/17/90, Rev.07-30-02, 04-24-06)

ATTACHMENT E-3 - PROJECT INFORMATION 2016

Applicant:	City of Lighthouse Point	**Project Title:**	Lighthouse Point Police Department Outb		
Total Project Cost: $	37,438.50	**FIND Funding Requested: $**	18,719.25	**% of Total Cost:**	50%
Amount and Source of Applicant's Matching Funds:	$18,719.25 City of Lighthouse Point 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. Once completed, will this project be insured against damage? Explain

Yes. City of Lighthouse Point (liability coverage)

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

5. If yes, please list:

6. 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

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

N/A

8. Are fees charged for the use of this project? No ■ Yes ☐

9. 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

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.

Project Title:	Lighthouse Point Police Department Outboard Motors Replacement Projec
Applicant:	City of Lighthouse Point

---

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 Lighthouse Point Police Department in the purchase of 1 outboard motor (waterway equipment).

1 outboard motor will be purchased by the City as match

(For reviewer only)
Max. Available Score for application 44

Question 1. Range of Score (1 to 2 *points)*

---

2) WATERWAY RELATIONSHIP:

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

The project supports FIND's mission by supporting the City of Lighthouse Point 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 waterway.

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)

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 motor will ensure LHPPD's ability to provide reliable marine patrol/law enforcement 365 days of the year along our jurisdictional waterways. Our Marine Unit patrols our waterways, makes public contacts, conducts safety inspections, handles waterway accidents, enforces wake violations and other public safety services to the boating community.

b) Discuss the regional and local public benefits that will be provided by the project.

The requested outboard motor will ensure LHPPD's ability to provide reliable marine patrol/law enforcement on a daily basis. The daily patrols will benefit both LHP residents and others who navigate our waterways. Our Marine Unit patrol officers will be making public contacts, conduct safety inspections, handle waterway accidents, enforces wake violations and other public safety services to the local and transient boating community.

c) Can residents from other counties of the District reasonably access and use the project? Explain.

Yes. Our Marine Patrol Officers provide enforcement and a level of safety and education for everyone who travels through the ICW and local waterways. Our agency also provides mutual aid to other surrounding law enforcement and governmental agencies when requested.

(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.

2016 Oct-Nov: City Commission approves FIND grant agreement and it is fully executed.
2016 Dec: City will process purchase order for the purchase of the outboard motor.
2017 Feb: City takes possession of the new boat motor.
2017 April: 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 Lighthouse Point 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 2 outboard boat motors. The City of Lighthouse Point will match the balance of the cost through the use of the City'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 City of Lighthouse Point will absorb any cost increases.

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

The City will ensure that government pricing is obtained from a certified State of Florida vendor.

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 to ensure a safe and secure environment for citizens and visitors utilizing the ICW and its adjoining waterways. Lighthouse Point is adjacent to the Hillsboro Inlet. We are in one of the busiest (high traffic) boating areas in Broward County. Our police presence will provide a safe environment and sense of security for everyone who passes through the Lighthouse Point and Hillsboro Inlet area.

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

Our agency has a certified Evinrude marine mechanic employed with the police department. He has the responsibility of providing routine maintenance and conducts the appropriate repairs on the boat/motors/equipment when needed. We also budget for routine maintenance and unanticipated repairs.

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

Yes. The new motors are expected to be used over the next 5-6 year period. Thus, the project will contribute to the immediate and long-term safety of the ICW and surrounding waterways through the provision of routine and reliable law enforcement patrols for years to come.

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

The deployment of these newer and more efficient motors will have a lesser impact on air and water quality, as well as reduced noise impact than that of the existing 6+ year old outboard motors currently in use.

(For reviewer only)
(1-7 points)

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

---

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 motors will enable the Lighthouse Point Police Department Marine Patrol Unit the equipment needed to continue providing a safe environment for boaters using the Navigation District's waterways. They will do this while conducting routine law enforcement activities such as detection and citing of boaters who violate waterway and navigation/wake laws and regulations; thereby protecting the health, safety and welfare of the boating public. Officers will also educate the boating public of boating safety issues and vessel inspections.

d) How does the project provide significant benefits or enhancements to the District's Waterways?

The project will provide a significant benefit to the District's waterways by helping to ensure a safe boating experience for those who utilize the ICW and surrounding waterways through daily law enforcement presence and safety initiatives. This presence will not only help to insure adherence to marine laws, but will also assist boaters who are in peril and provide basic boating information to others as necessary.

(For reviewer only)
(1-3 points)

---

8) EXPERIENCE & QUALIFICATIONS:

a) List the personnel tasked with the implementation of this project, their qualifications, previous training and experience.

Chief Ross Licata will be implementing this project. He has been serving in the law enforcement profession for 39 years with thousands of hours in management and operations experience. He ensures that his marine patrol officers receive advanced marine patrol safety and operations training to adequately deal with waterway and boating problems that occur.

b) Have the personnel participated in or received state marine law enforcement training?

Yes. Our marine patrol officers have received advanced marine patrol tactical training (including training on boating stops/safety, tactical boarding and vessel accident investigations), from a variety of sources, including University of North Florida (IPTM), Center for Environmental Education and Research, Inc., and by the Tactical Advantage Consultants. In addition, Officer Anthony Santomarco, our lead Marine Patrol Officer has nearly 25 years of marine unit experience, is a certified Evinrude technician and possesses outstanding boating operational experience.

(For reviewer only)
(1-2 points)

9) DELIVERABLES:

a) Describe the anticipated, long-term measurable results of implementing this project.

By implementing this project, the Lighthouse Point Police Department will be able to perform enforcement and safety initiatives 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.

The Lighthouse Point Police Department patrols the ICW and surrounding local waterways from the Lighthouse Point north boundary (5400 block) to the Hillsboro Inlet. We also provide mutual aid in the surrounding area when requested.

c) Does the project fulfill a particular community need?

Yes. Through the implementation of this project, the boating 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)

10) EDUCATION:

a) What are the educational benefits (if any) of this proposed project?

By providing members of our local boating community with safety and education materials and advice on navigation and wake regulations, improves the boating experience of everyone that utilizes our public waterways and lives 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 in boating safety, as it will allow our marine patrol officers to perform daily marine patrols throughout the year, educate the boating public on navigation and wake regulations, conduct vessel safety inspections, and distribute boating safety literature to the boating public.

(For reviewer only)
(1 -3 points)

RATING POINT TOTAL _____ (max 44 points)

(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 2016

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

Project Title:	Lighthouse Point Police Department Outboard Motors Replacement Project
Applicant:	City of Lighthouse Point

Project Elements *(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)*	**Quantity or Total Estimated Cost** (Number and/or Footage etc.)	**Applicant's Cost**	**FIND Cost**
Purchase two marine outboard motors. Note: the City will pay for one outboard motor and the FIND grant will pay for one outboard motor.	Two outboard motors. $37,438.50	$18,719.25	$18,719.25

****TOTALS =**	$ 37,438.50	$ 18,719.25	$ 18,719.25

ATTACHMENT E-6
WATERWAYS ASSISTANCE PROGRAM 2016

PROJECT TIMELINE

Project Title:	Lighthouse Point Police Department Outboard Motors Replacement Proje
Applicant:	City of Lighthouse Point

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 1st
(or be consistent with Rule 66B-2.005(3) - Pre-agreement expenses)

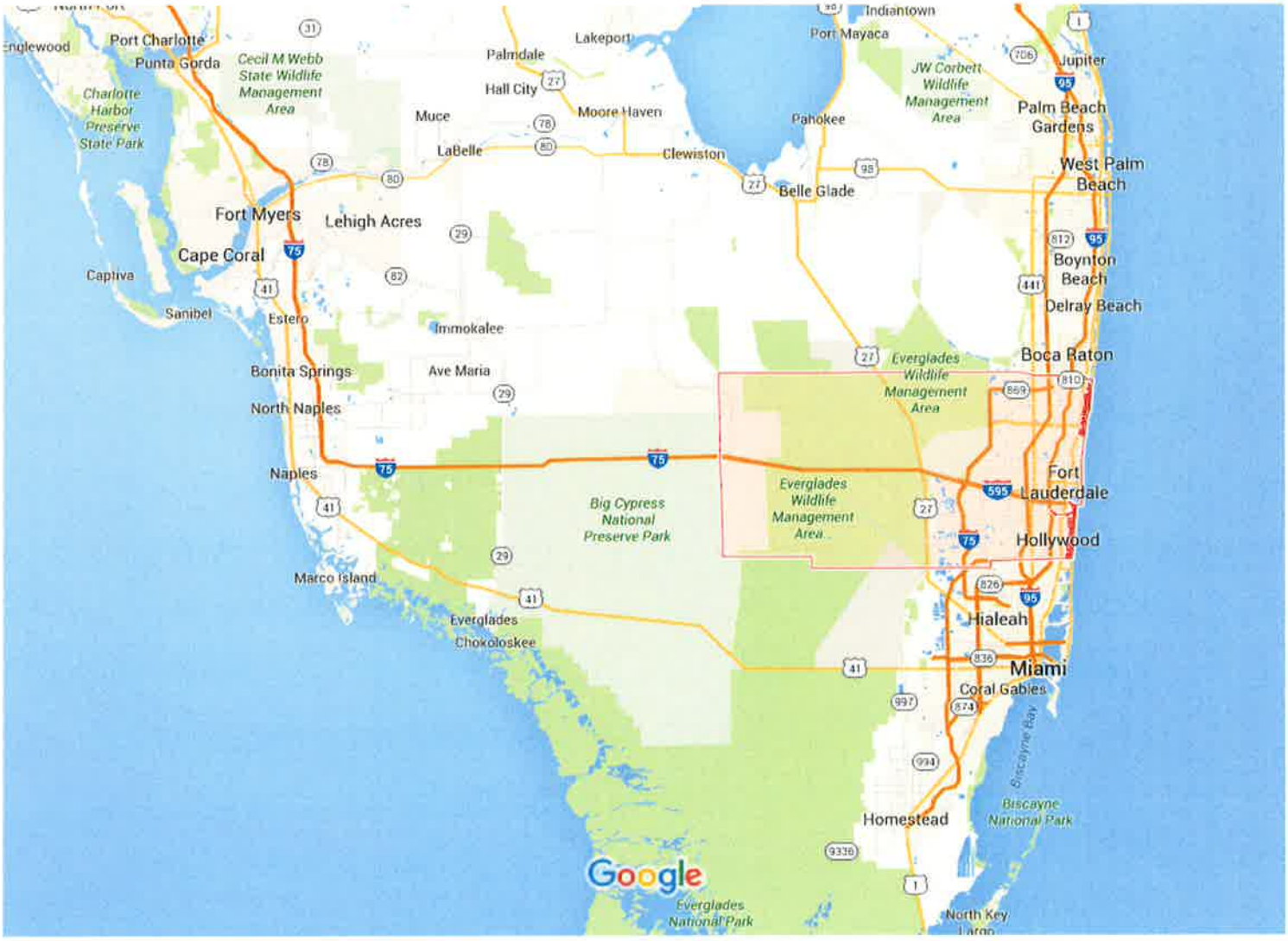
2016 Oct-Nov: City Commission approves FIND grant agreement and it is fully executed.
2016 Dec: City will process purchase order for the outboard motor (utilizing State contract pricing).
2017 Feb: City takes possession of/installs the new outboard boat motor.
2017 April: Project is completed and closeout documents are submitted to FIND.

ITEM 10.21

Google Maps

Broward County

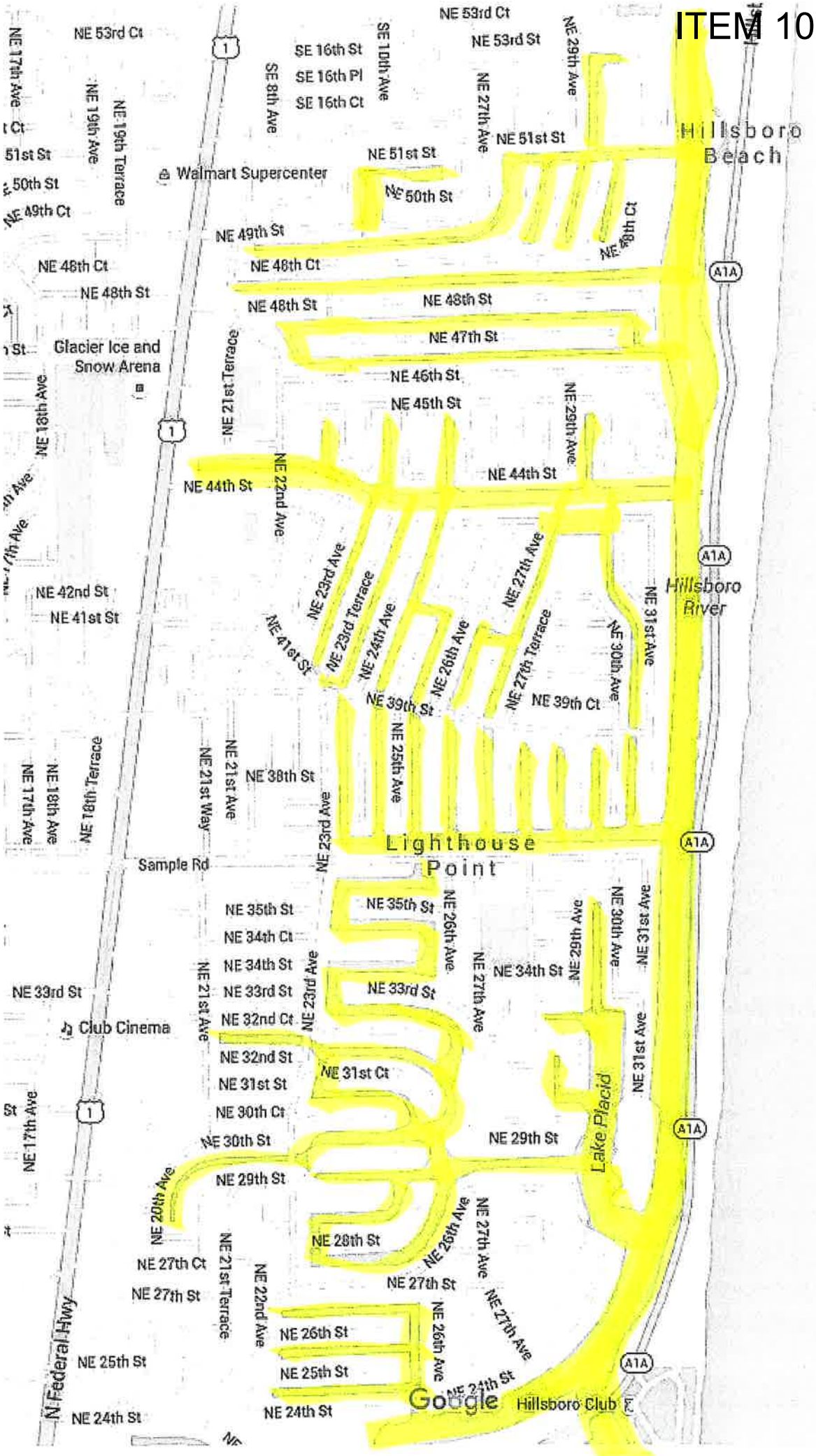
Lighthouse Point



Broward County



CITY OF LIGHTHOUSE POINT
CITY LOCATION MAP



CITY OF LIGHTHOUSE POINT
PROJECT BOUNDARY MAP

ATTACHMENT E-2

WATERWAYS ASSISTANCE PROGRAM FY 2016
PROJECT APPLICATION
APPLICANT INFORMATION – PROJECT SUMMARY

APPLICANT INFORMATION			
Applicant:	City of Pompano Beach		
Department:	Engineering		
Project Title:	ICW Taxi Station Phase II		
Project Director:	John Sfiropoulos	**Title:**	City Engineer
Project Liaison: *(if different from Project Director)*	Horacio Danovich	**Title:**	CIP Manager
Mailing Address:	100 West Atlantic Blvd.		
City:	Pompano Beach	**Zip Code:**	33060
Email Address:	Horacio.danovich@copbfl.com	**Phone #:**	954-786-7834
Project Address:	Riverside Drive and NE 2nd Street on the Intracoastal Waterway		

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

SIGNATURE: _____ DATE: 3/4/2016

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

The City of Pompano Beach is requesting funding for the construction of boat dockage to be located on Riverside Drive and NE 2nd Street on the Intracoastal Waterway. It will provide public and commercial access for large and small vessels in accordance with Waterways Assistance Program Application Package, Attachment D Program Rules, Chapter 66B-2, Item 66B-2.008 Project Eligibility, priority list item number five.

This dockage site is an essential part of the City's plan to introduce the Water Taxi to Pompano Beach. As a scenic mode of transportation and easy access to popular attractions in the east CRA district and other city sites, the Water Taxi will provide on and off stops to several major area locations. These include new and existing restaurants just south of the Atlantic Blvd. Bridge to the Hillsboro Inlet Marina, the Pier Parking Lot and the Beach Library. Alsdorf Park, a project formerly funded by F.I.N.D, will become more accessible, increasing its potential for visitors and water sports enthusiasts.

Form No. 90-22, Rule 66B-2, (New 12/17/90, Rev.07-30-02, 04-24-06)

ATTACHMENT E-3 - PROJECT INFORMATION 2016

Applicant:	City of Pompano Beach	Project Title:	ICW Taxi Station Phase II		
Total Project Cost: $	197,000	FIND Funding Requested: $	98,500	% of Total Cost:	50%
Amount and Source of Applicant's Matching Funds:	$98,000 from City/CRA 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. Once completed, will this project be insured against damage? Explain

The City of Pompano Beach is self-insured.

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

5. If yes, please list:

The District previously awarded the City of Pompano Beach $17,500 for Phase I (planning and design) of this project. The City received an award in 2015 for Phase II (construction), but due to slow response on getting plans approved,

6. 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):

NA

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

At least four small boat dockage and one large boat dockage.

8. Are fees charged for the use of this project? No ■ Yes ☐

9. 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	NA		
DEP	NA		
ACOE	NA		
COUNTY / CITY	NA		

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.

Project Title:	ICW Taxi Station Phase II
Applicant:	City of Pompano 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 #5, Acquisition and development of publicly owned spoil disposal site and public commercial/industrial waterway access.

b) Explain how the project fits this priority category.

This project will provide commercial and industrial waterway access to the Intracoastal Waterway.

(For reviewer only) **48**
Max. Available Score for application _____

Question 1. Range of Score (1 to **6** *points)*

---

2) WATERWAY RELATIONSHIP:

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

The project is located directly on the ICW and provides boat and non-boat access to the waterway. The project will increase the usage of the ICW and assist FIND in its mission to "work with other governmental agencies to provide waterway access".

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

The new dockage and Water Taxi service will increase public access to the ICW. The intent is for the new Pompano Beach line to connect the current Fort Lauderdale and Hollywood Water Taxi lines and eventually connect to Deerfield Beach's service heading north.

(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.

As many as 12 vessels operare on peak days, with boat size varying between 19 to 149 passengers. With 2-3 rides per hour and peak times being on Saturday and Sunday, an estimated 50,000 - 100,000 people will use it during the first 2-3 years.

b) Discuss the regional and local public benefits that will be provided by the project.

The Water Taxi station will provide a new means of public transportation with the potential of easing the demand for current forms of public and private transportation. A safe and natural way to view South Florida's scenic coast, the Water Taxi route will improve the city's connectivity, expand residential and tourist traffic and boost patronage of destinations and businesses bordering the ICW.

c) Can residents from other counties of the District reasonably access and use the project? Explain.

The dockage area is intended to be open and available to anyone who wishes to come to Pompano Beach via the Intracoastal Waterway.

(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.

Current Status: Design is 95% complete. FDOT approved conceptual design. Design team is awaiting to receive final permits (1st quarter 2016).

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

The project time line might be affected by unforeseen delays such as extended review times and unanticipated environmental issues.

(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 Pompano Beach/CRA has dedicated 50% of the project coast from its General Fund.

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

The proposed materials used for the project are not expected to increase the cost of the project.

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

Standard pre-cast concrete wall will be used instead of sheet pile wall in order to increase the cost efficiency of 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 City is evaluating whether fees in support of future maintenance costs are warranted.

(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 fulfills public need for increased boating access to the ICW as identified by the City of Pompano Beach City Commission. With additional Water Taxis in operation, boats will arrive every 15-30 minutes in alternating directions, benefiting the community by lowering maximum wait times to between 15-30 minutes.

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

The maintenance and improvement of the site are the responsibility of the City Pompano Beach Public Works Department and are programmed in the City's Capital Improvement Plan.

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

Located in the heart of the East CRA redevelopment district, an area that was the subject of $15 million in recent upgrades, the project will be beneficial to the community as the Water Taxi will bring added business to merchants surrounding the ICW. in addition, it will increase tourist traffic tjo the beach and local restaurants. Providing a link to the existing Water Taxi route will create lasting benefits for not only Pompano Beach, but for other cities along the southeast section of the ICW.

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

There are no environmental benefits associated with this project but there are no anticip[ated negative environmental impacts either.

(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? If permits are NOT required, explain why not.**

All environmental permits will be applied for and received following the design stage.

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.**

The project was originally not divided into phases, but was later divided into Phase I and II. The project is currently in Phase I consisting of design, permitting and bidding of the project. The estimate for Phase I is $35,000. Phase II will consist of construction and is estimated to cost approximately $197,000. Please see Attachment E-5 for a more detailed cost estimate.

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

Other than delays associated with permit review itself by the various agencies, there are no other impediments anticipated that could delay issuance of 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?**

The project is currently in the preliminary design stage of Phase I. Funding will support Phase II 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, by initiating a new stop that creates a connection to existing Water Taxi routes, the project will increase public usage of the ICW and enhance access to the City of Pompano Beach and other cities' major attractions.

(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 will result in a a 83' seawall composed of concrete slab with concrete beams. Eight concrete mooring piles will secure two 40' long concrete decking piers and a floating dock comprised of an 8' wide/28' long concrete pedestrian slab/ sidewalk. The approximate design life is 75 years.

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

The construction techniques utilized are all industry standard procedures approved for and appropriate to Marine projects of this nature.

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

There are no unusual construction techniques that may increase or decrease the cost of the project.

(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?**

A concrete slab and concrete beams will be used for the design of the project. The design life is 75 years.

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

There are no anticipated construction materials that may alter the project cost.

(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 2016

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

Project Title:	ICW Taxi Station Phase II
Applicant:	City of Pompano Beach

Project Elements *(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)*	**Quantity or Total Estimated Cost** (Number and/or Footage etc.)	**Applicant's Cost**	**FIND Cost**
PHASE II			
1. 83' Seawall	1. $75,000	1. $37,500	1. $37,500
2. 8 Mooring Piles (Concrete)	2. $30,000	2. $15,000	2. $15,000
3. 8'- wide pedestrian slab/ sidewalk	3. $20,000	3. $10,000	3. $10,000
4. 2 Piers 40' long concrete decking	4. $35,000	4. $17,500	4. $17,500
5. Ladders, cleats	5. $10,000	5. $5,000	5. $5,000
6. Fire Line	6. $15,000	6. $7,500	6. $7,500
7. Electric/ Plumbing	7. $12,000	7. $6,000	7. $6,000
****TOTALS =**	$ $197,000	$ $98,500	$ $98,500

Form No. 90-25 (New 10/14/92, Revised 04-24-06)

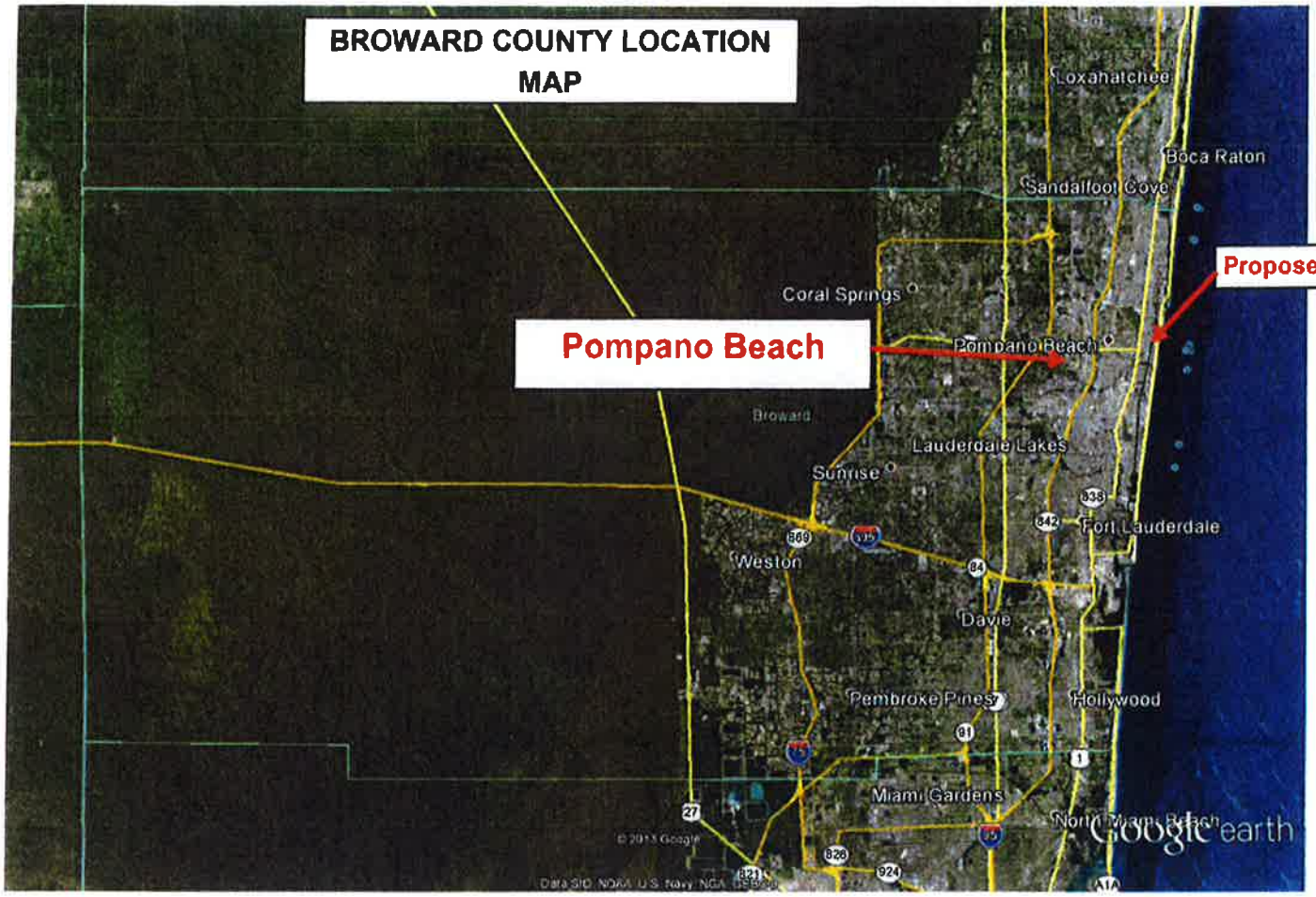
ATTACHMENT E-6
WATERWAYS ASSISTANCE PROGRAM 2016

PROJECT TIMELINE

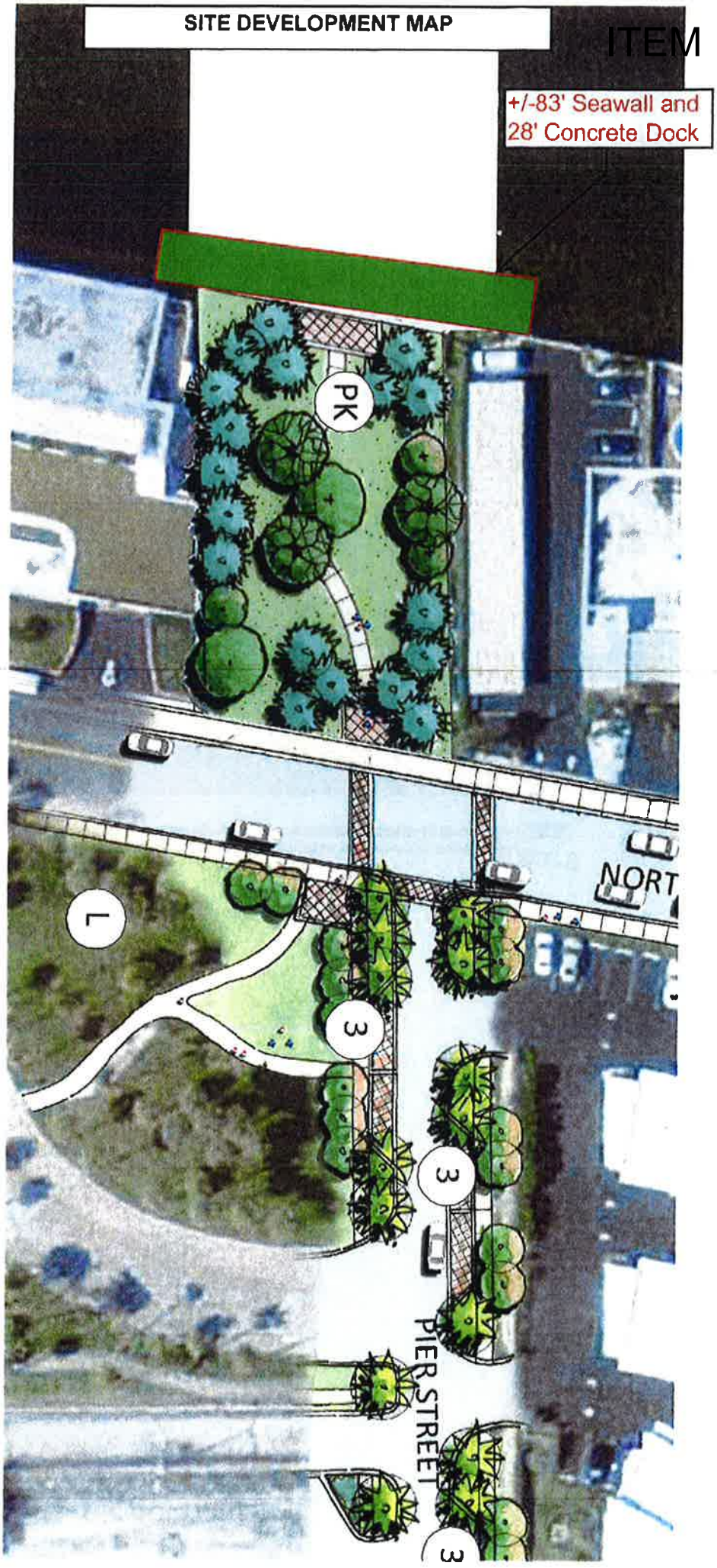
Project Title:	ICW Taxi Station Phase II
Applicant:	City of Pompano Beach

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 1st
(or be consistent with Rule 66B-2.005(3) - Pre-agreement expenses)

Finalize Permit (U.S. Corps) – April 30, 2016
City Permit – June 2016
Construction Bid/Construction Agreement – October 31, 2016
Begin Construction – November 14, 2016
End Construction – January 31, 2017
Final Inspections and Certificate of Completion – February 28, 2017


BROWARD COUNTY LOCATION MAP
Pompano Beach
Proposed Site
Loxahatchee
Boca Raton
Sandalfoot Cove
Coral Springs
Pompano Beach
Broward
Lauderdale Lakes
Sunrise
Fort Lauderdale
Weston
Davie
Pembroke Pines
Hollywood
Miami Gardens
Google earth
Google earth
miles
km
30
40

SITE DEVELOPMENT MAP



ATTACHMENT E-2

WATERWAYS ASSISTANCE PROGRAM FY 2016
PROJECT APPLICATION
APPLICANT INFORMATION – PROJECT SUMMARY

APPLICANT INFORMATION			
Applicant:	City of Fort Pierce		
Department:	City Marina		
Project Title:	Improve Boat Access at Fisherman's Wharf and Moore's Creek in Fort Pierce		
Project Director:	Dean Kubitschek	**Title:**	Manager, Fort Pierce City Marina
Project Liaison: *(if different from Project Director)*	Libby Woodruff	**Title:**	Urban Redevelopment Manager
Mailing Address:	100 North U.S. Hwy. 1		
City:	Fort Pierce	**Zip Code:**	34950
Email Address:	ewoodruff@city-ftpierce.com	**Phone #:**	772-467-3169
Project Address:	125 Fisherman's Wharf and 480 N. Indian River Drive, Fort Pierce, FL 34950		

***** **I hereby certify that the information provided in this application is true and accurate.**** SIGNATURE: LBWoodruff DATE: 4-1-16

Most all trailerable boating activities share one common requirement – getting passengers and boats safely into and out of the water. Unsafe finger piers at boat ramps cause a variety of problems, ranging from congestion at the ramp and parking lot to an increased danger of injury to boaters and towing vehicles.

Fisherman's Wharf is a unique City-owned and operated marina located on the west side of the ICW and north of the North Bridge. The Fisherman's Wharf boat ramp is located directly next to the facility.

The Moore's Creek Boat Ramp is also located on the west side of the ICW, directly east of Veteran's Memorial Park and provides three double-wide ramps with finger piers. The ramps are located less than a mile of the South Causeway Bridge (Seaway Drive).

The finger piers at the Fisherman's Wharf and Moore's Creek Boat Ramps have degraded to the point where they are almost unusable. Many private boaters, commercial fishermen and charter boat operators have repeatedly expressed concerns for their pasengers, boats and trailers due to the dangerous condition of the finger piers.

These boat ramps/finger piers are vital to local jobs and tourism in Fort Pierce. Many local commercial fishing and wildlife tour providers rely on the ramps for their livelihood. The Lake Okeechobee discharge's degradation of the waterways south of Fort Pierce have provided a significant increase in visitors from across the region launching from these ramps to explore our area's incredible aquaculture. Fort Pierce is now home to several national fishing events, such as the Southern Kingfish Association tournament, which will encourage 700+ additional trailerable vessels to launch from these ramps, during the tournament.

This grant request is for funding to help cover the costs to construct new finger piers at the Fisherman's Wharf and Moore's Creek boat ramps, fixed trailerable vessel staging area docks, lighting, decorative safety railing and a canoe, kayak, paddle board launch site and staging/tie up area at the Moore's Creek ramp.

ATTACHMENT E-3 - PROJECT INFORMATION 2016

Applicant:	City of Fort Pierce	**Project Title:**	Improve Boat Access at Fisherman's Wharf and Moore's Creek in Fort Pierce		
Total Project Cost: $	$157,000	**FIND Funding Requested: $**	$78,500	**% of Total Cost:**	50%
Amount and Source of Applicant's Matching Funds:	The City will apply to through Florida Fish and Wildlife's Boating Infrastructure Grant (BIG) Tier II program for the matching funds required for this project.				

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. Once completed, will this project be insured against damage? Explain
Yes. All of the boat ramps, docks, etc. are insured through the City of Fort Pierce.

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

5. If yes, please list: N/A

6. 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):

Fisherman's Wharf – Boat Ramps: 1; Boat Slips: 41; Parking Spaces: 60; Linear Ft Boardwalk: 600
Moore's Creek – Boat Ramps: 1; Boat Slips: 0; Parking Spaces: 30; Linear Ft Boardwalk:0

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

8. Are fees charged for the use of this project? No ☒ Yes ☐

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

Please list all Environmental Resource Permits required for this project:

AGENCY	Yes / No / N/A	Date Applied For	Date Recieved
WMD	N/A	Click here to enter text.	Click here to enter text.
DEP	Fisherman's Wharf; Moore's Creek	May 1, 2016	Click here to enter text.
ACOE	Moore's Creek	May 1, 2016	Click here to enter text.
COUNTY / CITY	Fisherman's Wharf; Moore's Creek	May 1, 2016	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.

Project Title:	Improve Boat Access at Fisherman's Wharf and Moore's Creek in Fort Pierce
Applicant:	City of Fort Pierce

---

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.

This project fits this category as it will develop improved public boat ramps and launching and staging abilities at Fisherman's Wharf and Moore's Creek in Fort Pierce for trailerable vessels, canoes, kayaks and paddleboards.

(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 directly relates to the ICW and the mission of the Navigation District.

This project directly relates to the ICW since the Fisherman's Wharf boat ramp is located on the west side of the ICW and north of the North Bridge. The Moore's Creek boat ramp is also located on the west side of the ICW, north of the North Bridge and south of Fisherman's Wharf. These are both popular launching sites for small tourism providers and visitors to the area who explore and enjoy the ICW and the Indian River Lagoon.

This project directly relates to the mission of the Navigation District as it will significantly improve safe access to the ICW.

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

Replacing the derelict finger piers and providing a staging area for loading and unloading vessels, canoes, kayaks and standup paddleboards at Fisherman's Wharf and Moore's Creek will increase public access to the ICW since both Fisherman's Wharf and Moore's Creek are located on the west side of the ICW in Fort Pierce.

(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.

Both Fisherman's Wharf and the Moore's Creek boat ramps are very popular FREE 24-hour launching areas in Fort Pierce. We estimate these improvements will result in more than 10,000 trailerable vessels being launched from these sites annually. This estimate does not include the number of canoes, kayaks, and paddleboards that will use the new launch site. This will be the only canoe, kayak and paddleboard launch site on the west side of the ICW in Fort Pierce.

b) Discuss the regional and local public benefits that will be provided by the project.

Fort Pierce is quickly becoming *the* prime aquaculture destination on the Treasure Coast. Both of these boat ramps are continuously used by local citizens and visitors from throughout the region, who travel here frequently to enjoy fishing, diving, sightseeing and various water sports. This project will increase public safety, decrease the possibility of damage to vessels and equipment and enhance everyone's overall experience, which will increase participation and subsequently strengthen the economic viability of the entire area.

c) Can residents from other counties of the District reasonably access and use the project? Explain.

Both of these sites are FREE and open, 24-hours a day, 7 days a week, to everyone, regardless of where they are from.

(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 preliminary designs for this project are complete.

August, 2016 – Receive approval of all required permits for this project
September, 2016 – Receive grant award notice from the Florida Inland Navigation District
September, 2016 – Apply for grant funds from the Florida Boating Infrastructure Grant (BIG) Tier II Program
March, 2017 – Receive notice of grant award from the BIG program
May, 2017 – RFP for Design/Build project opens
July, 2017 – Contract for Design/Build project is awarded
January, 2018 – Project is completed

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

At this time, we do not see any unique aspects of this project that could influence the project's 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 Fort Pierce City Marina will cover all of the costs associated with permitting for this project.

The City will apply through FWC's Boating Infrastructure Grant (BIG) Tier II in September for the remaining 'matching' funds needed to complete this project.

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

At this time, we do not see any project costs that may increase because of the materials utilitized or specific site conditions.

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

We will follow the City's procurement process and publish a 'Request for Proposals' (RFP) for this design/build project, which will help 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.

There will be no fees associated with the use of this project. We are not aware of any fees charged by similar facilities, public or private, in our project area.

(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 listed in the City's 2016-2026 Strategic Plan: 'Funding' is listed as a 'Key Issue' to improving Fisherman's Wharf and Moore's Creek amenities, which include safe, usable access to boat ramps.

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

Contiuous Maintenance oversight will be provided by the City's Public Works Department. Funding for maintenance will be provided by the Fort Pierce City Marina.

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

This project will definitely result in significant and lasting benefits as it will enhance the entire boating experience for local citizens and visitors as they launch their boats, kayaks, canoes and paddle boards from these areas.

Failure to repair the finger piers will lead to the continued degradation and eventual failure of the launching structures at Fisherman's Wharf and Moore's Creek which will subsequently increase the costs to repair/replace the structures and significantly decrease the amount of visitors to the area - creating a dynamic negative economic impact to the entire area.

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

This project will include signage promoting the "Clean Boater Pledge" at both project sites and include dispensers of "In Water Clean-Up Bags' and trash bins.

(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? If permits are NOT required, explain why not.**

All required environmental permits will be applied for by May 1, 2016.

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 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.**

We have not identified any significant impediments that could 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?**

The Concept/Preliminary Design for this project is complete. Since this is a 'Design/Build' project, the contractor that is awarded following the release of the Request for Proposals will attend to the engineering designs 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?**
No.

(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 finger piers at Fisherman's Wharf and Moore's Creek will be constructed from marine-grade aluminum.

Floating docks, which will be used as the staging area for canoes, kayaks and paddle boards at Moore's Creek, will be constructed from polyethylene pipe and composite decking (recycled plastic).

Fixed docks will be constructed from marine-grade wood and be used as a staging area for boats at the Moore's Creek boat ramp area.

Both the floating and fixed docks will be ADA accessible.

Decorative Railing from heavy aluminum will be installed along the perimeter around the fixed dock area at Moore's Creek to enhance safety.

LED lighting will be installed in the fixed dock area at Moore's Creek to enhance safety.

b) **How are the utilized construction techniques appropriate for the project site?**
All of the construction techniques will follow standard marine construction techniques.

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

We do not foresee any unusual construction techniques that may increase or decrease the costs of the project.

(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?

Fisherman's Wharf Boat Ramp:

- One (1) new Finger Pier, which will be constructed of marine-grade aluminum.

Moore's Creek Boat Ramp:

- Three (3) new Finger Piers, constructed of marine-grade aluminum.
- Fixed dock – 8'x95', to be used as staging area for trailerable vessels. The fixed docks will be constructed of marine-grade wood piling and decking.
- Canoe/Kayak/Paddle Board Launching area – this will be constructed from geo-tubes made from recycled plastic, filled with sand, which will create a berm, with the inside of the berm filled with sand.
- Floating dock – 8'x30', to be used as staging area for canoes, kayaks and paddleboards.
- Decorative safety railing
- Enhanced lighting

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

No unique construction materials will be used for this project.

(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 2016

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

Project Title:	Improve Boat Access at Fisherman's Wharf and Moore's Creek in Fort Pierce
Applicant:	City of Fort Pierce

Project Elements *(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)*	**Quantity or Total Estimated Cost** **(Number and/or Footage etc.)**	**Applicant's Cost**	**FIND Cost**
Fisherman's Wharf: Finger Pier	1	$9,500	$9,500
Moore's Creek:			
Finger Piers	3	$28,500	$28,500
Fixed Staging Dock (Vessels)	1 – 8'x95'	$16,000	$16,000
Floating Dock (Kayaks, Canoes, Paddle Boards)	1 – 8'x30'	$9,750	$9,750
Launch (Kayaks, Canoes, Paddle Boards)	1	$6,000	$6,000
Safety, Decorative Railing	400 ft	$2,750	$2,750
Lighting (fixtures, wiring, etc.)	2	$6,000	$6,000

****TOTALS =**	**$**	**$ 78,500**	**$ 78,500**

Form No. 90-25 (New 10/14/92, Revised 04-24-06)

ATTACHMENT E-6
WATERWAYS ASSISTANCE PROGRAM 2016

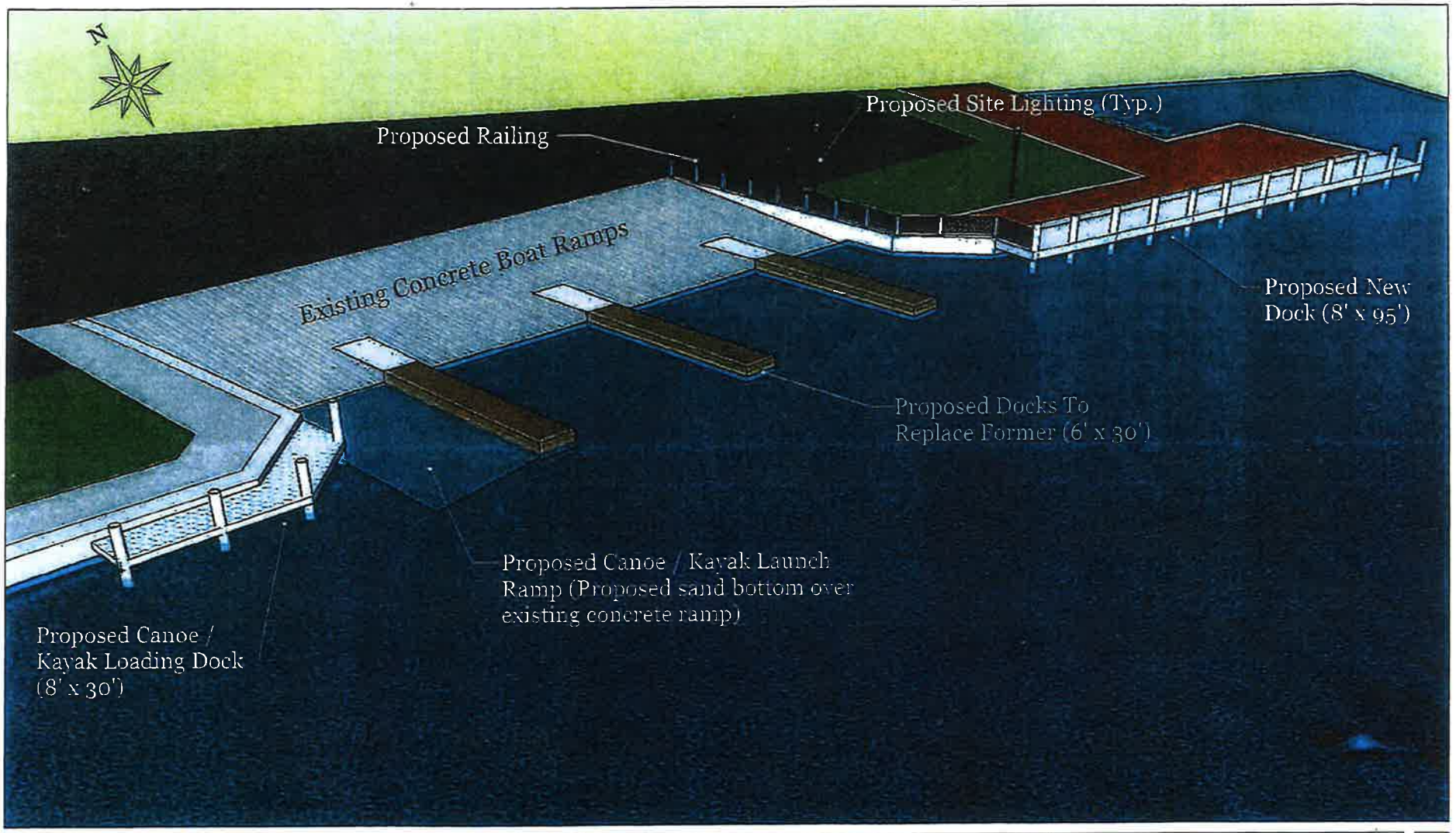
PROJECT TIMELINE

Project Title:	Improve Boat Access at Fisherman's Wharf and Moore's Creek in Fort Pierce
Applicant:	City of Fort Pierce

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 1st
(or be consistent with Rule 66B-2.005(3) - Pre-agreement expenses)

The preliminary designs for this project are complete.

August, 2016 – Receive approval of all required permits for this project
September, 2016 – Receive grant award notice from the Florida Inland Navigation District
September, 2016 – Apply for grant funds from the Florida Boating Infrastructure Grant (BIG) Tier II Program
March, 2017 – Receive notice of grant award from the BIG program
May, 2017 – RFP for Design/Build project opens
July, 2017 – Contract for Design/Build project is awarded
January, 2018 – Project is completed



Reconstruction of Docking Facilities at Existing Boat Ramp

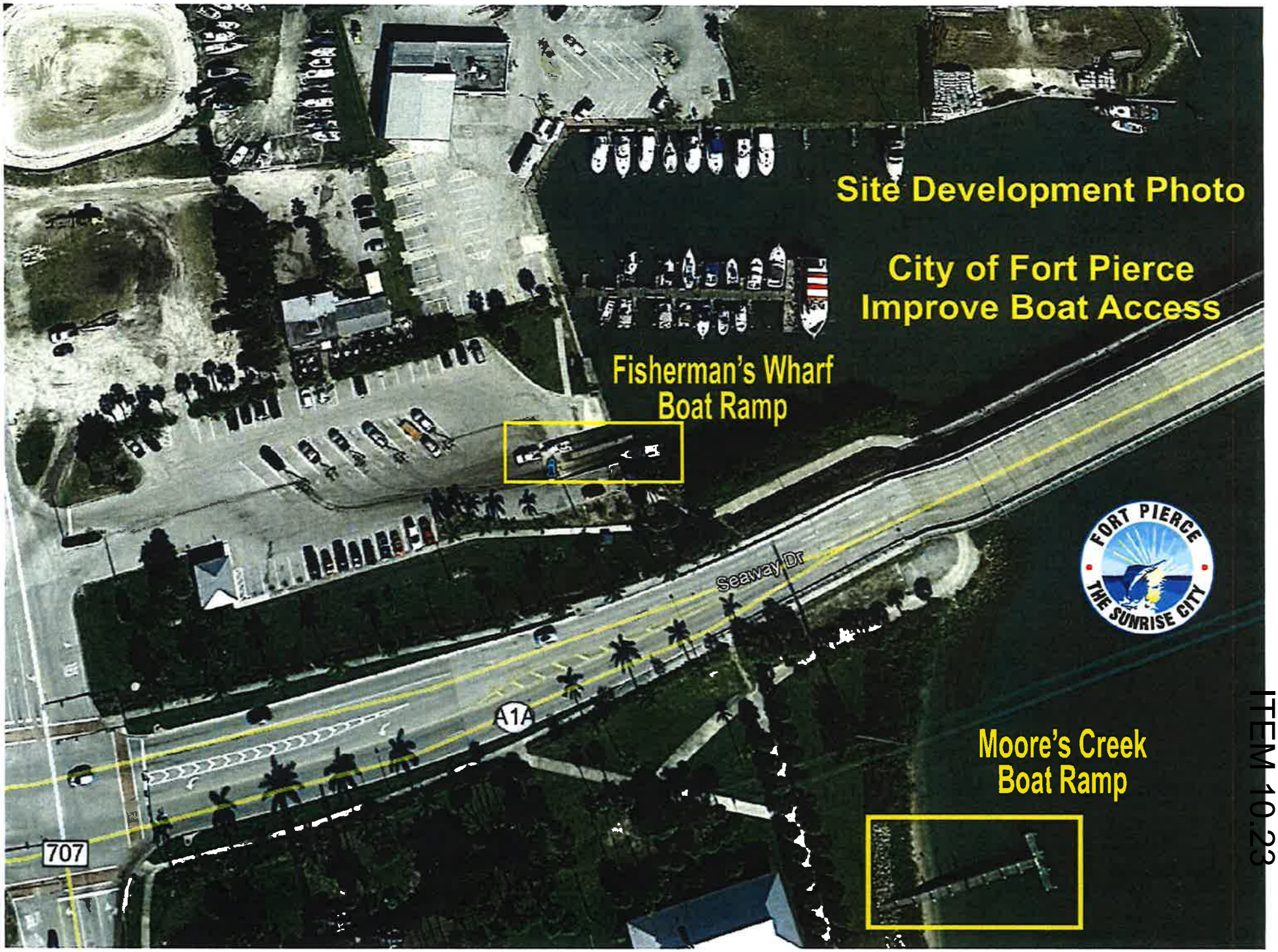
Fort Pierce Engineering Department
100 N. US 1 Fort Pierce, FL 34950
(772) 467 - 3773

Moore's Creek Boat Ramp

REVISIONS		
	MM/DD/YY	REMARKS
1	03/21/16	Conceptual Drawing
2	__/__/__	--
3	__/__/__	--
4	__/__/__	--
5	__/__/__	--

01
A


Florida A1A
Ave H
Fishermans Wharf
PROJECT LOCATION
Fisherman's Wharf Boat Ramp
Ave G
Seaway Dr
Ave F
Avenue E
Cedar Pl
PROJECT LOCATION
Ave D
Moore's Creek Boat Ramp
Dundas Ct
N 6th St
A E Backus Ave
Ave C
N 10th St
N 9th St
N 8th St
Ave B
Ave A
Melody Ln
Orange Ave
Atlantic Ave
1
5
68
707


Site Development Photo
City of Fort Pierce
Improve Boat Access
Fisherman's Wharf
Boat Ramp
Seaway Dr
A1A
707
FORT PIERCE
THE SUNRISE CITY
Moore's Creek
Boat Ramp


Fishermans Wharf
Fisherman's Wharf Boat Ramp
Site Development Photo
City of Fort Pierce
Improve Boat Access
A1A
707
Moore's Creek Boat Ramp
FORT PIERCE
THE SUNRISE CITY
Avenue E
Indian River Dr
Cedar Pl
S 2nd St
A E Backus Ave
City Marina
N Indian River Dr
© 2016 Google

ATTACHMENT E-2

WATERWAYS ASSISTANCE PROGRAM FY 2016
PROJECT APPLICATION
APPLICANT INFORMATION – PROJECT SUMMARY

APPLICANT INFORMATION			
Applicant:	St Lucie County Board of County Commissioners		
Department:	Administration		
Project Title:	Port of Fort Pierce – Fisherman's Wharf Design and Permitting Phase 1		
Project Director:	Don West	**Title:**	Public Works Director
Project Liaison: *(if different from Project Director)*	Mark Satterlee	**Title:**	Deputy County Administrator
Mailing Address:	2300 Virginia Avenue		
City:	Fort Pierce, Florida	**Zip Code:**	34982
Email Address:	satterleem@stlucieco.org	**Phone #:**	772-462-1452
Project Address:	Port of Fort Pierce, Fort Pierce, Florida		

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

SIGNATURE: _____ DATE: 31 March 2016

PROJECT NARRATIVE (Please summarize the project in space provided below in 2 paragraphs or less.)St Lucie County seeks FIND assistance for the design and permitting of infrastructure improvements at Fisherman's Wharf at the Port of Fort Pierce. The project will include the design and permitting of Fisherman's Wharf bulkhead replacement and potential shipping berth for a small passenger ship or Bahamas Ferry, Fisherman's Wharf basin dredging, boat ramp improvements, parking area and trailer parking area improvements, Fisherman's Wharf roadway improvements, new boat slips and land purchase.

This project is part of a planning effort that has occurred between St. Lucie County, the City of Fort Pierce and FDOT District IV. 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 improvements are aging or in disrepair. The intent of the project is to replace the aging infrastructure and increase and improve public access to the ICW.

Form No. 90-22, Rule 66B-2, (New 12/17/90, Rev.07-30-02, 04-24-06)

ATTACHMENT E-3 - PROJECT INFORMATION 2016

Applicant:	St. Lucie County	**Project Title:**	Port of Fort Pierce – Fisherman's Wharf Phase 1		
Total Project Cost: $	$696,000	**FIND Funding Requested: $**	$316,000	**% of Total Cost:**	45%
Amount and Source of Applicant's Matching Funds:	$125,000 - FDOT District IV – Fisherman's Wharf Road Design $380,000 – St. Lucie County				

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

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

3. Once completed, will this project be insured against damage? Explain

Improvements will be insured by City of Fort Pierce or St. Lucie County depending on ownership.

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

5. If yes, please list:

Fisherman's Wharf Fishing & Viewing Piers (SL-FP-98-25) $54,448

6. 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 550 linear feet of bulkhead, 1 boat ramp, 11 paved truck & trailer parking spaces, 32 car parking spaces, 1.9 acres of unimproved trailer parking area and a 37 boat slip marina. All is 100% public access.

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

The boat ramp will be widened for ease of use and unimproved parking areas will be converted into paved and striped parking of an estimated 70 truck and trailer spaces. It is the intent of this project to maximiaze the available property while making it more user friendly.

8. Are fees charged for the use of this project? No Yes X

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

Fees are $9 per foot per month.

Please list all Environmental Resource Permits required for this project:

AGENCY	Yes / No / N/A	Date Applied For	Date Recieved
WMD	Yes	To be determined	
DEP	Yes	To be determined	
ACOE	Yes	To be determined	
COUNTY / CITY	Yes	To be determined	

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.

Project Title:	Port of Fort Pierce - Fisherman's Wharf Design/Permit
Applicant:	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.**

The project proposes to replace the existing bulkheads, boat ramps, accessory docks and boat slip docks, as well as, dredge the basin, improve parking, and repair public roadway; in an effort to increase public access to the ICW, Indian River Lagoon and Fort Pierce Inlet.

(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 directly relates to the ICW and the mission of the Navigation District.

Fisherman's Wharf provides the public direct recreational and fishing 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 will improve public recreational and fishing access to the ICW along by providing major improvements to existing infrastructure. 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)
(1-6 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 to the public.

b) Discuss the regional and local public benefits that will be provided by the project.

Regionally, the improvments will enhance the publics access to the ICW, locally, the improvements will create a more user friendly and safer boat launching facility which will in turn attract more boaters. This increase in usage will trickle down to local marinas, bait shops, gas stations and restaurants and generate income to local businesses.

c) Can residents from other counties of the District reasonably access and use the project? Explain.

Yes, access is completely open to the public, including those utilizing the ICW.

(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 is scheduled to start June/July 2016 and is anticipated to be completed in one year.
The design of the Fisherman's Wharf Bulkhead, Dredging, Boat Ramp and Slips, Trailer Parking is scheduled for December 1, 2016, and is anticipated to be completed by June 30, 2018.

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

We do not expect any aspects to affect the project timeline, except if there are major utility conflicts at the site or contamination discovered in the soils or sediment.

(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

Project – Fisherman's Wharf Roadway Improvements Design
Source – St. Lucie County, Status – budgeted, Amount – $380,000

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

We anticipate utilizing pile wraps and will consider use of synthetic decking material that is costly compared to traditional marine grade timber, but these products are expected to also last longer thus prolonging the life of the project. If soil or dredge sediment contamination is discovered, disposal of this material may add to the overall project cost.

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 markup. However, we will evaluate efficieny for one construction firm.

For dredging, we will utilize the existing dredge material management area (DMMA) that is available.

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. There are boat docking charges, $9/foot/month for the boat slips managed by the City.

(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 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, fishing, commercial restaurant/hotel, and tourism. The project is referenced in the Port of Fort Pierce Master Plan 2013, and the Fisherman's Wharf Development Study 2015. The project is also being 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 and dredging will prepare the area for increased light industrial and commercial businesses.

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 bulhead 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? If permits are NOT required, explain why not.**

This is a Phase 1 request and permits will be secured once funded and project is in design phase.

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.**

The project is a Phase I design and permitting project. We anticipate local, state and federal environmental/stormwater permits will be sought in collaboration with the City of Ft. Pierce, South Florida Water Management District or Florida Department of Environemental Protection and the U.S. Army Corps of Engineers. Permitting tasks will include environmental resource assessment, sediment testing, stormwater design, dredge template and dredge quantity determination, surveying, geotechnical investigation and structural assessment/ design.

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.**

Contaminants were found in the soil and ground water in isolated locations, during the construction of the North 2nd Street Roadway Improvements project, which caused a 10-month delay in the water use permit being issued by FDEP & SFWMD. If constituents are found during the investigation and design phase of this project, it could significantly impede scheduled issuance of 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?

This is a Phase I project. We are requesting grant funding for the design of the Fisherman's Wharf Transition Zone, for the Port of Fort Pierce. A preliminary conceptual design is provided in Exhibit 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?

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 and associated safer launching and parking will benefit the public. The bulkhead, associated docks 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.

The project is a Phase I, typical construction techniques for in-water and upland construction will be utilized. The proximity of an existing dredge material management area (DMMA) makes hydraulic dredging a viable option.

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 Phase 1 stage of the project.

(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?

Pile wraps and synthetic decking materials will be considered to prolong the life of the piles and dock surfaces. 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 to 40-50years.

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

The use of the County's exisiting Dredge Material Management Area that was previously constructed and was utilized during the previous dredging project at Taylor Creek is available and should significantly reduce the cost for disposal. Other materials and additives identified in Question 10 a above will be considered and will increase the cost, but 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.)

ATTACHMENT E-5

FLORIDA INLAND NAVIGATION DISTRICT
ASSISTANCE PROGRAM 2016

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

Project Title:	**Port of Fort Pierce, Fisherman's Wharf Design & Permitting**
Applicant:	**St. Lucie County Board of Commissioners**

Project Elements *(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)*	**Quantity or Total Estimated Cost** (Number and/or Footage etc.)	**Applicant's Cost**	**FIND Cost**
Design & Permitting			
Roadway, Drainage and Utilites (pre-agreement)	**$190,000**	**$127,000**	**$63,000**
In-water Features (bulkhead, dredging, boat ramp and docks)	**$356,000**	**$178,000**	**$178,000**
Parking Improvments	**$150,000**	**$75,000**	**$75,000**
****TOTALS =**	**$696,000**	**$380,000**	**$316,000**

Form No. 90-25 (New 10/14/92, Revised 04-24-06)

ATTACHMENT E-6
WATERWAYS ASSISTANCE PROGRAM 2016

PROJECT TIMELINE

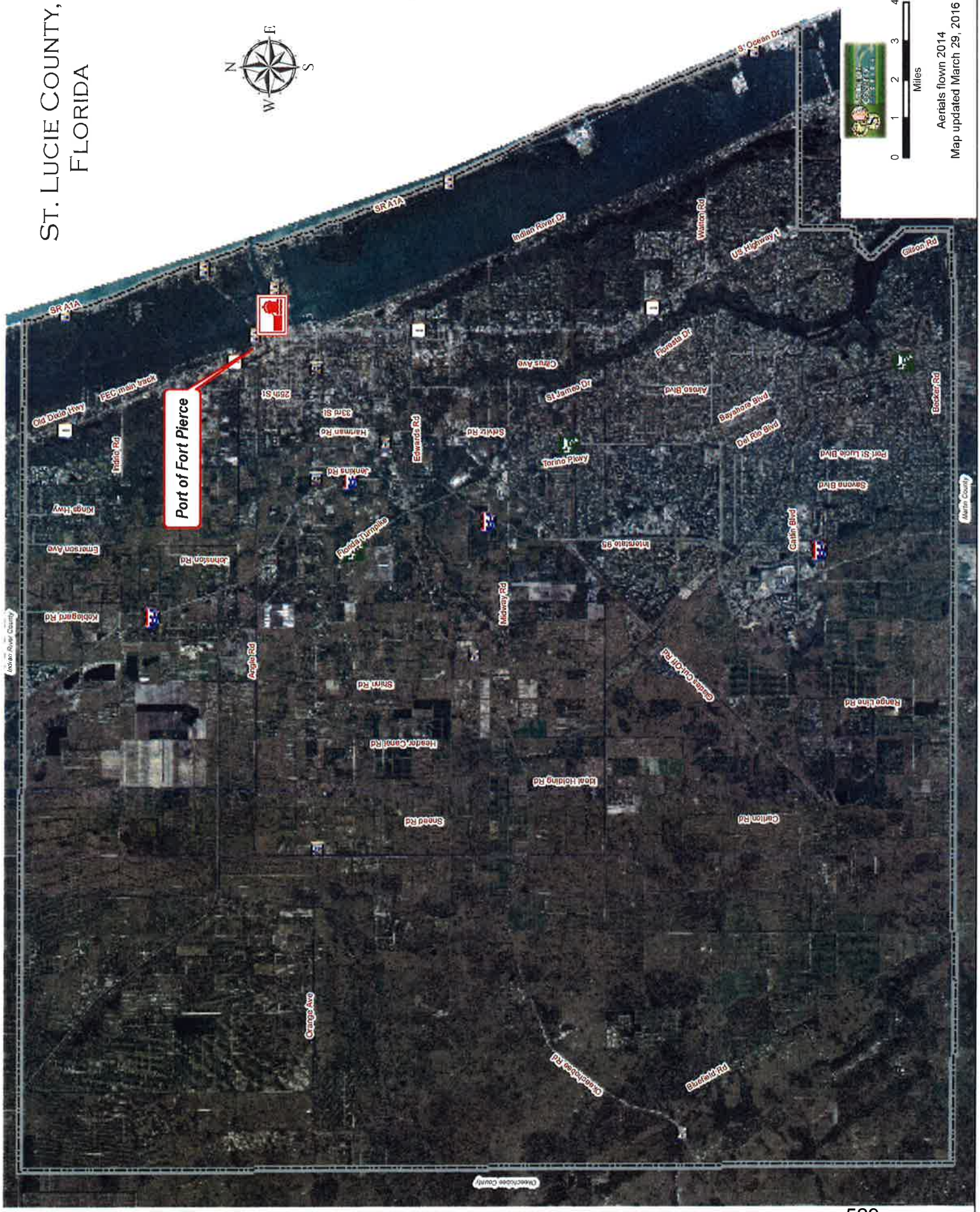
Project Title:	Port of Fort Pierce – Fisherman's Wharf Design & Permitting
Applicant:	St. Lucie County Board of County Commissioners

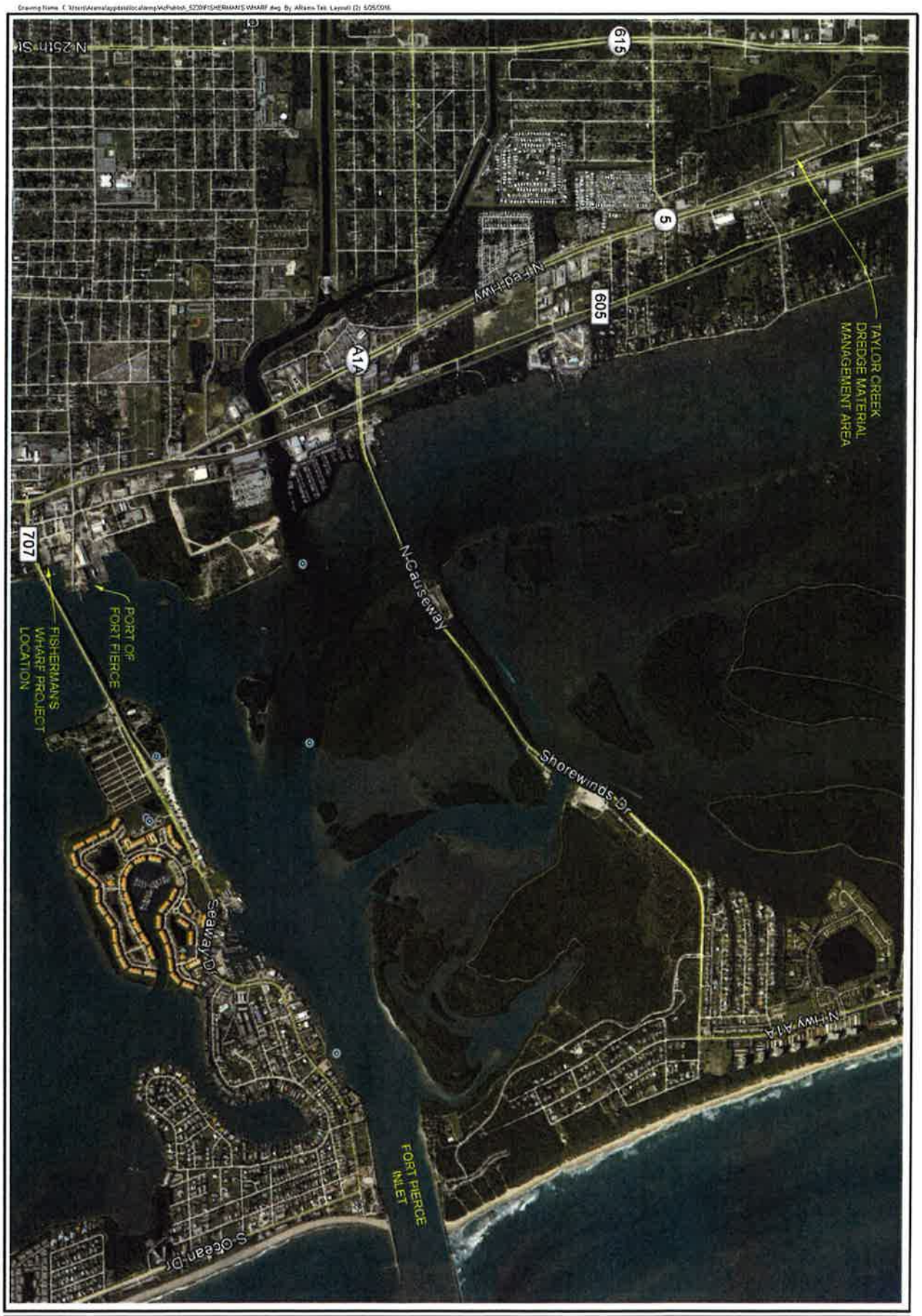
The applicant is to present a detailed timeline on the accomplishment of the components of the proposed project including, as applicable, completion dates for: permitting, design, bidding, applicant approvals, initiation of construction and completion of construction.
NOTE: All funded activities must begin AFTER October 1st
(or be consistent with Rule 66B-2.005(3) - Pre-agreement expenses)

Design and permitting of the various project elements will be on the following approximate schedule:

- Roadway and utilities design will begin October 1, 2016 and take approximately 1.5 to 2 years.
- Bulkhead and dredging design and permitting will begin in the October-December 2016 timeframe and also take 1.5 to years.
- Design of the other project upland elements will begin in the spring of 2017 as the lead time of the other improvements isn't as long or as complex as the others.

St. Lucie County, Florida





ST. LUCIE COUNTY BOCC
2300 VIRGINIA AVENUE
FORT PIERCE, FL 32982

Dredging & Marine Consultants
DMC
ENGINEERS • SCIENTISTS
4643 S. Clyde Morris Blvd
Unit 302
Port Orange, FL 32129
Phone (386) 304-6505
Fax:(386) 304-6506
www.dmces.com

Stephen J. Kuhn, P.E.
FLORIDA LICENSE No. 67486

PROJECT NAME: FISHERMAN'S WHARF PROJECT LOCATION

CLIENT: ST. LUCIE COUNTY

DRAWING: EXHIBIT A

DMC JOB NO.

DRAWN: AR	CAD: C3D	SHEET NO.	
CHECKED: NC	SCALE: AS SHOWN		
APPROVED: SHS	DATE: 6-24-2016		

ITEM 10.24



EXHIBIT B

DRAWING

DWG JOB NO

DRAWN AR CAD C30 SHEET NO

CHECKED NLC SCALE AS SHOWN

APPROVED SKF DATE 5-24-2016

PROJECT NAME FISHERMAN'S WHARF CONCEPTUAL

CLIENT ST. LUCIE COUNTY

Stephen J Hulse, P.E. FLORIDA LICENSE No. 67484

Dredging & Marine Consultants

DMC ENGINEERS • SCIENTISTS

4843 S. Clyde Morris Blvd
Unit 302
Port Orange, FL 32129
Phone (386) 304-6505
Fax:(386) 304-6506
www.dmcos.com

ST. LUCIE COUNTY BOCC
2300 VIRGINIA AVENUE
FORT PIERCE, FL 34982

ST. LUCIE COUNTY

ITEM 10-24

ATTACHMENT E-2

WATERWAYS ASSISTANCE PROGRAM FY 2016
PROJECT APPLICATION
APPLICANT INFORMATION – PROJECT SUMMARY

APPLICANT INFORMATION			
Applicant:	City of Jacksonville		
Department:	Parks, Recreation and Community Services		
Project Title:	Charles Reese Fishing Pier, Phase 2		
Project Director:	Daryl Joseph	**Title:**	Director
Project Liaison: *(if different from Project Director)*	Brian Burket	**Title:**	Natural Resource Rec. Spec.
Mailing Address:	214 N. Hogan Street, 4th Floor, Room 439		
City:	Jacksonville	**Zip Code:**	32202
Email Address:	BBurket@coj.net	**Phone #:**	904-255-7935
Project Address:	1200 Ken Knight Drive, Jacksonville, FL 32208		

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

SIGNATURE: B. P. Burket DATE: 3-25-16

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

This grant application is for construction of a fishing pier and kayak launch at Charles Reese Memorial Park. There is an old, unusable single lane boat ramp at this park which has silted in and is now blocked by marsh grasses due to lack of use. The ramp would need to be dredged in order for motorized boats to use the facility. Since the park is located in a low socio-economic area in Northwest Jacksonville, the Councilmember for this district suggested a fishing pier to provide water access would be a much greater benefit to the community at this location. This project would also convert the boat ramp into a kayak launch. With these water access improvements it is hoped that use of the park increases and appropriate uses of the park occur on a more regular basis.

Form No. 90-22, Rule 66B-2, (New 12/17/90, Rev.07-30-02, 04-24-06)

ATTACHMENT E-3 - PROJECT INFORMATION 2016

Applicant:	City of Jacksonville	**Project Title:**	Charles Reese Fishing Pier, Phase 2		
Total Project Cost: $	$277,470	**FIND Funding Requested: $**	$138,735	**% of Total Cost:**	50%
Amount and Source of Applicant's Matching Funds:	2016-2017 City of Jacksonville Capital Improvement				

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

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

3. Once completed, will this project be insured against damage? Explain

Yes, the City is self-insured.

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

5. If yes, please list:

Yes, 2013 award for design phase of this project.

6. 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 unusable single-lane boat ramp

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

100 feet fishing pier and an improved kayak launch and 7 parking spaces

8. Are fees charged for the use of this project? No ■ Yes ☐

9. 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	Yes	11/4/14	3/10/15
ACOE	Yes	11/4/14	TBD
COUNTY / CITY	No		

Form No. 90-22a (New 10-14-92, Rev. 04-24-06, 4-15-07)

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.

Project Title:	Charles Reese Fishing Pier, Phase 2
Applicant:	City of Jacksonville

---

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 # 11 Public fishing & viewing piers

b) Explain how the project fits this priority category.

The project will provide a public fishing pier and access to the Ribault River for local residents

(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.

This project will provide fishing and paddling access to the Ribault River which is a tributary of the St. Johns River. The pier will provide a local fishing destination for residents in the Northwest area of Jacksonville.

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

The project benefits public access for residents who live in an area with very few public waterfront amenities.

(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 request for this project came from the District Councilmember after talking with local residents. The project also received support from Jacksonville's Waterways Commissioners. The future use of the project amenities is estimated at 5000-10,000 people/year.

b) Discuss the regional and local public benefits that will be provided by the project.

The park is located in a neighborhood which borders the Ribault River. The adjacent neighborhood is composed of mainly low-income residential including townhomes and a large apartment complex. There will be usage from the neighborhood but most likely will not draw residents regional.

c) Can residents from other counties of the District reasonably access and use the project? Explain.

Yes. The pier will provide a fishing access to an area on the Ribault River that currently has no quality fishing access. This park is located in a lower socio-economic area of Jacksonville. The City expects most of the usage to be from the local residents.

(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 is at 60% and DEP permit has been received. Expect to receive the USACE permit in April 2016, then will proceed with completing the design. Once the construction phase agreement is executed, the project will go out for bid and then take 3 to 6 months to complete.

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

As long as the USACE permit is received soon, no delays are expected for construction 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.

2016-2017 COJ Capital Improvement Budget

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

No increases are expected.

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

No unique methods have been identified that will increase cost efficiency.

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?

The local community has requested enhanced fishing access to the Ribault River. This type of amenity should attract more park visitors which should also result in a decrease in inappropriate uses of the park.

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

The City of Jacksonville's Department of Parks, Recreation and Community Services is already responsible for management of this property and will continue to be responsible for the maintenance of the facilities included in this project upon completion.

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

Yes, the fishing pier and kayak launch is expected to bring additional people to this park which it is hoped will deter inappropriate activities that are currently occurring there.

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

The trash that has been dumped along the shoreline will be removed and provide an environmental benefit.

(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? If permits are NOT required, explain why not.**

Yes, the DEP permit has been received and we expect to receive the USACE permit in April 2016.

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 2 project.

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

The National Marine Fisheries review has delayed the USACE up to this point but we expect to receive the permit in April 2016.

(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 is currently at 60%. Once the USACE permit is received, we will complete the design.

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?

Accessible routes will be established from the new parking space to the fishing pier and kayak launch. The shoreline will be cleaned up and revetment will be added to stabilize the shoreline.

(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 project has been designed to COJ park standards for the marine environment. Pressure treated lumber and posts will be used, planks will be screwed in with galvanized hardware.

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

Materials to be used are appropriate for the marine environment. Construction techniques will be used that minimize adverse impacts to the shoreline.

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

Re-purposing an existing boat ramp to a hand launch kayak-canoe launch is unique. The existing failing wooden bulkhead of the ramp will be replaced with rip-rap.

(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 has been designed to COJ park standards for the marine environment. Pressure treated lumber and posts will be used, planks will be screwed in with galvanized hardware. The life span of the project is expected to be 20-25 years.

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

None proposed 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.)

ATTACHMENT E-5

FLORIDA INLAND NAVIGATION DISTRICT
ASSISTANCE PROGRAM 2016

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

Project Title:	Charles Reese Fishing Pier, Phase 2
Applicant:	City of Jacksonville

Project Elements *(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)*	**Quantity or Total Estimated Cost** (Number and/or Footage etc.)	**Applicant's Cost**	**FIND Cost**
Demolition, Grading & Drainage	$45,000	$22,500	$22,500
Parking, Curbs & Sidewalk	$65,000	$32,500	$32,500
Kayak Launch & Revetment	$47,470	$23,735	$23,735
Fishing Pier, 8'x100' with ramp	$120,000	$60,000	$60,000
****TOTALS =**	$ 277,470	$ 0 $138,735	$ 138,735

Form No. 90-25 (New 10/14/92, Revised 04-24-06)

ATTACHMENT E-6
WATERWAYS ASSISTANCE PROGRAM 2016

PROJECT TIMELINE

Project Title:	Charles Reese Fishing Pier, Phase 2
Applicant:	City of Jacksonville

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 1st

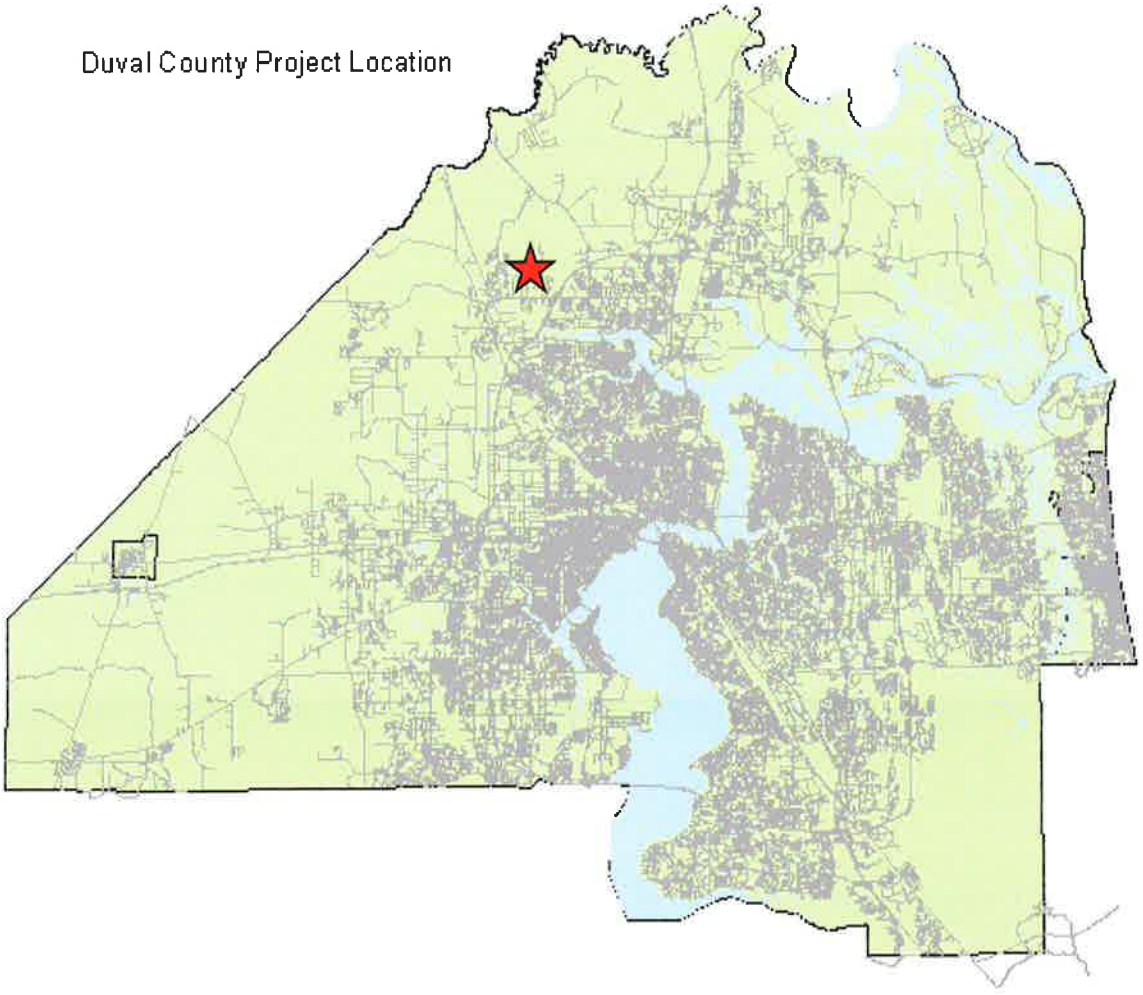
(or be consistent with Rule 66B-2.005(3) - Pre-agreement expenses)

Grants received	October 2016
Grants executed	January 2017
Advertise construction project	March 2017
Construction contract	May 2017
Construction begin	June 2017
Construction complete	December 2017
Grant Close out	February 2018

EXHIBIT 1: COUNTY LOCATION MAP



EXHIBIT 2: CITY LOCATION MAP



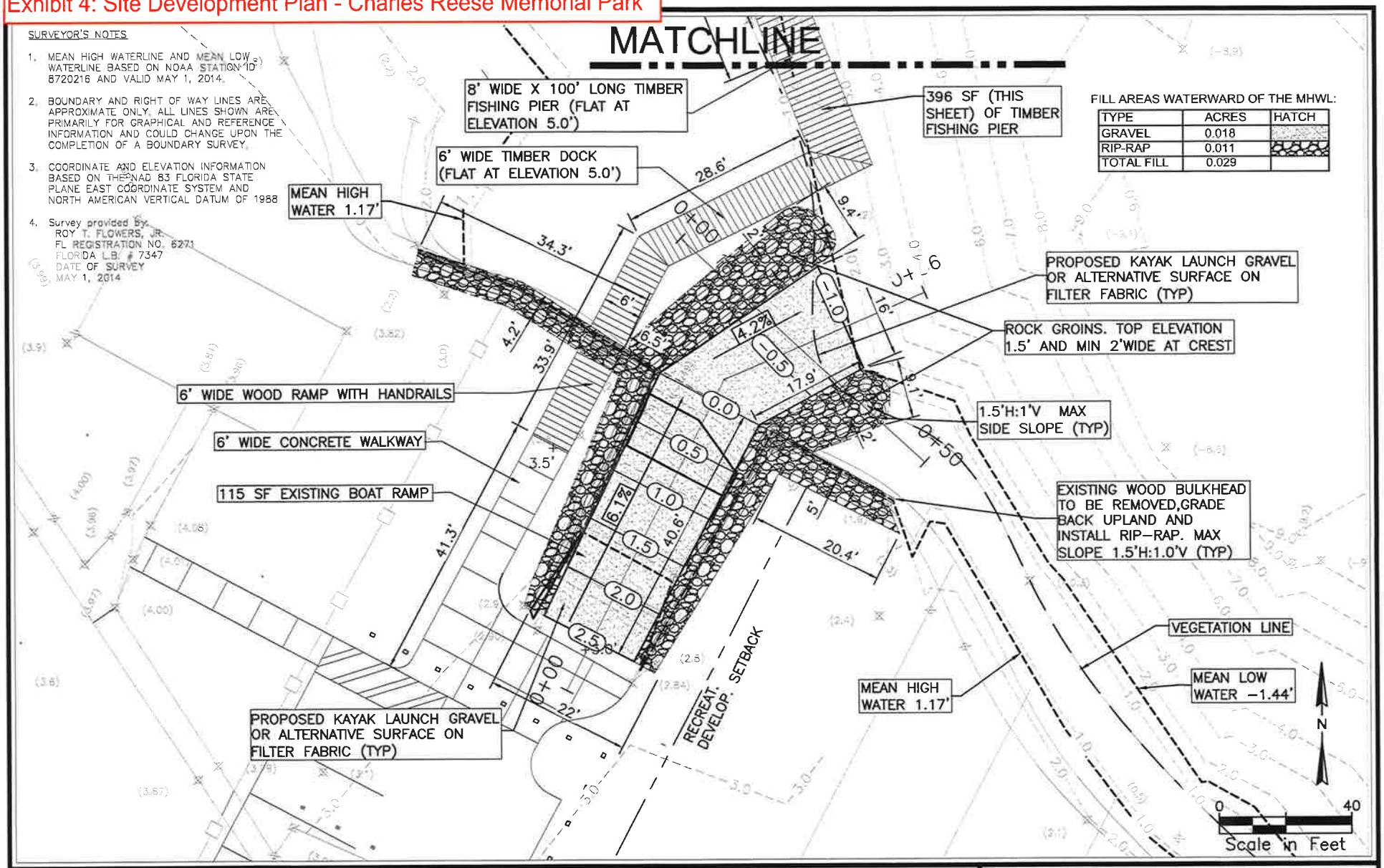
CHARLES REESE FISHING PIER

EXHIBIT 3: PROJECT BOUNDARY MAP

Charles Reese Park Boundary Map



Exhibit 4: Site Development Plan - Charles Reese Memorial Park



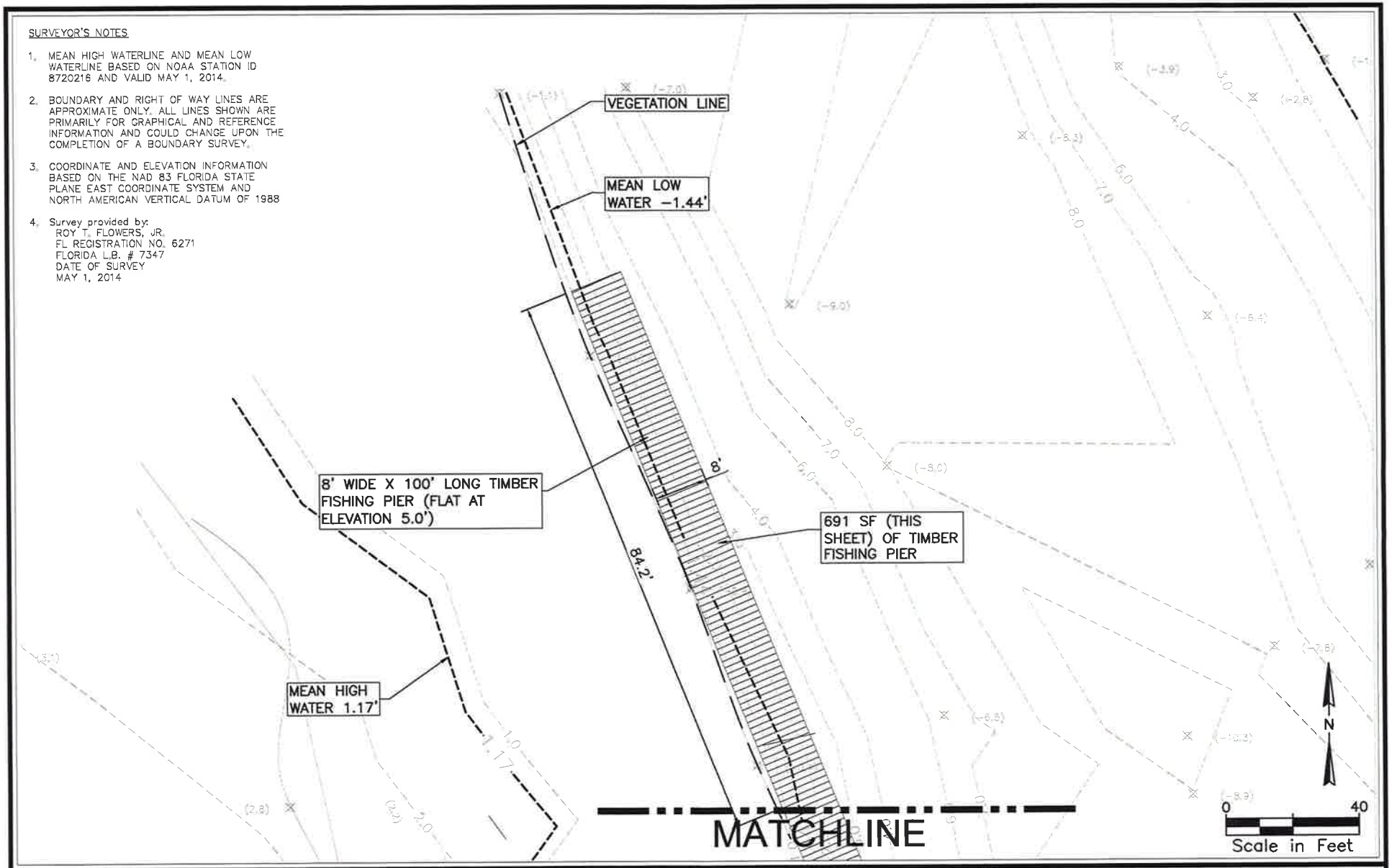
CITY OF JACKSONVILLE - CHARLES REESE PARK IMPROVEMENTS
PROPOSED SITE PLAN
SHEET 1

OCTOBER 2014

ATM APPLIED TECHNOLOGY & MANAGEMENT
411 Pablo Avenue
Jacksonville, Fl 32250
904.249.8009
COA #4669

SURVEYOR'S NOTES

1. MEAN HIGH WATERLINE AND MEAN LOW WATERLINE BASED ON NOAA STATION ID 8720216 AND VALID MAY 1, 2014.
2. BOUNDARY AND RIGHT OF WAY LINES ARE APPROXIMATE ONLY. ALL LINES SHOWN ARE PRIMARILY FOR GRAPHICAL AND REFERENCE INFORMATION AND COULD CHANGE UPON THE COMPLETION OF A BOUNDARY SURVEY.
3. COORDINATE AND ELEVATION INFORMATION BASED ON THE NAD 83 FLORIDA STATE PLANE EAST COORDINATE SYSTEM AND NORTH AMERICAN VERTICAL DATUM OF 1988
4. Survey provided by:
   ROY T. FLOWERS, JR.
   FL REGISTRATION NO. 6271
   FLORIDA L.B. # 7347
   DATE OF SURVEY
   MAY 1, 2014



CITY OF JACKSONVILLE - CHARLES REESE PARK IMPROVEMENTS
PROPOSED SITE PLAN
SHEET 2

OCTOBER 2014

ATM℠ APPLIED TECHNOLOGY & MANAGEMENT
411 Pablo Avenue
Jacksonville, Fl 32250
904.249.8009
COA #4669

ATTACHMENT E-2

WATERWAYS ASSISTANCE PROGRAM FY 2016
PROJECT APPLICATION
APPLICANT INFORMATION – PROJECT SUMMARY

APPLICANT INFORMATION			
Applicant:	City of Jacksonville		
Department:	Parks, Recreation and Community Services		
Project Title:	Exchange Island Pavilions, Phase 2B		
Project Director:	Daryl Joseph	**Title:**	Director
Project Liaison: *(if different from Project Director)*	Brian Burket	**Title:**	Natural Resource Rec. Spec.
Mailing Address:	214 N. Hogan Street, 4th Floor, Room 439		
City:	Jacksonville	**Zip Code:**	32202
Email Address:	BBurket@coj.net	**Phone #:**	904-255-7935
Project Address:	Undeveloped Island under Mathews Bridge in Downtown Jacksonville		

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

SIGNATURE: B. P. Burket DATE: 3-25-16

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

Exchange Club Island Park is an undeveloped spoil island in the St. Johns River adjacent to downtown Jacksonville. Many residents consider this island the "hidden gem" of the downtown area and numerous ideas have been proposed over the years on the best use of this island but none were fully implemented. The island is already being used as a destination for passive recreation by people in small boats, canoes and kayaks. A 2013 Phase 1 project designed a small boat dock and shoreline kayak area, two pavilions with tables and grills, and a hiking trail to connect these amenities. A 2014 Phase 2 project will construct the boat dock. This Phase 2B project will construct the two pavilions with tables and grills as well as an accessible connection to the new boat dock. The shoreline kayak landing and hiking trail are already complete.

Form No. 90-22, Rule 66B-2, (New 12/17/90, Rev.07-30-02, 04-24-06)

ATTACHMENT E-3 - PROJECT INFORMATION 2016

Applicant:	City of Jacksonville		Project Title:	Exchange Island Pavilions, Phase 2B	
Total Project Cost: $	$160,720	FIND Funding Requested: $	$80,360	% of Total Cost:	50%
Amount and Source of Applicant's Matching Funds:	2016-2017 Capital Improvement Budget				

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

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

3. Once completed, will this project be insured against damage? Explain

Yes, the City of Jacksonville is self-insured

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

5. If yes, please list:

A 2013 Phase 1 project designed a small boat dock, kayak landing, two pavilions, and hiking trail. A 2014 Phase 2 project will construct the boat dock.

6. 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):

It is an undeveloped island with a short stretch of sandy shoreline where small boats, canoes and kayaks can currently beach themselves. A 60ft. boat dock is planned for construction in 2016.

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

Two picnic pavilions will be added by this project to provide an amenity and shelter for visiting boaters.

8. Are fees charged for the use of this project? No ■ Yes ☐

9. 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	Yes	April 2016	TBD

Form No. 90-22a (New 10-14-92, Rev. 04-24-06, 4-15-07)

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.

Project Title:	Exchange Island Pavilions, Phase 2B
Applicant:	City of Jacksonville

---

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 #5~~ Acquisition and development of publicly owned spoil disposal site and public commercial/industrial waterway access; #12 Public waterfront Park + associated improvements

b) Explain how the project fits this priority category.

The project consists of developing a spoil island into a public park. Phase 2B includes adding pavilions for picnicking and shelter for visiting boaters.

(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.

This project will enhance the quality of the boating experience in the area by creating a recreational boating destination for boaters using Duval County waterways.

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

This project will create a recreational boating destination for boaters in downtown Jacksonville on the St. Johns River. In addition, the proposed pavilions would provide shelter and safety from a storm for boaters in the area.

(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.

Request for this project was brought to the attention of the Duval County Waterways Commission by local boaters and kayakers. Collectively, the zip codes that surround the island have over 4,000 registered boats.

b) Discuss the regional and local public benefits that will be provided by the project.

The St. Johns River as well as the adjacent Arlington River and Pottsburg Creek are popular waters for boating and paddling. The development of this island as a public park will provide a needed boating destination and respite within downtown Jacksonville.

c) Can residents from other counties of the District reasonably access and use the project? Explain.

Yes, the island is located in the St. Johns River within downtown Jacksonville. It could be easily accessed by boaters navigating the St. Johns River or those that take a detour from the ICW into downtown Jacksonville.

(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 has been designed and building permits will applied for in April 2016. Once the grant agreement is executed, the project should take about one year to bid, contract and construct.

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

The worksite is an island that is only accessible by boat so weather and transportation issues 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.

2016-2017 Capital Improvement Budget. This will be 50% match of the project costs.

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

Since the site is an island, all construction materials and equipment will need to be brought the site by barge.

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

Concrete work will be minimal due to the high cost associated with getting it to the island.

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 island.

(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 greatly benefit the boating public in the Downtown and Arlington areas of the City. For many years, area boaters and paddlers have identified Exchange Club Island as an attractive destination that they would like to see enhanced for public access and recreational use. The amenities will also provide a safe shelter from storms.

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

The City of Jacksonville is already responsible for management of the island and will assume maintenance responsibilities for the amenities included in this project upon completion.

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

Yes, the pavilions will provide island visitors with an enhance recreational experience and provide safe refuge for those needing temporary shelter during storms.

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

The locations for each shelter were selected so minimal vegetation would need to be removed.

(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.

Environmental permits are not required for Phase 2B for pavilions and sidewalk.
Environmental permits were already received for Phase 2A for the boat dock.

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 2B project.

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, a design for the pavilions has been selected.

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 design was selected based on accessibility, ease of maintenance and durability.

(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.

All construction materials will be at or above industry standards for the project and considered appropriate for the project. The awarded contractor must comply with all State and Federal laws, regulations, and permit provisions applicable to the work as well as those of the City of Jacksonville. This includes, but is not limited to, the protection of all trees and placement of silt fences to prevent materials from dispensing into public waterways.

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

All materials used for this project will be selected for their durability, longevity, and ease of maintenance. In addition, all materials used will comply with local, state and federal guidelines. The construction techniques utilized will assist the project to be completed in the grant timeline.

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

A barge will be necessary to transport building materials and equipment to the project site which increases the projected cost of the project.

(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 frame pavilions with metal roof which should prove more resistant to vandalism and fire. Lifespan is expected to be 25+ years.

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

We are considering adding a green "living" roof to the design of the pavilions which will be dependent on expected installation and maintenance 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-5

FLORIDA INLAND NAVIGATION DISTRICT
ASSISTANCE PROGRAM 2016

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

Project Title:	Exchange Island Pavilions, Phase 2B
Applicant:	City of Jacksonville

Project Elements *(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)*	**Quantity or Total Estimated Cost** (Number and/or Footage etc.)	**Applicant's Cost**	**FIND Cost**
Site Prep & Mobilization	$25,000	$12,500	$12,500
2 Pavilions (16'x16' each)	$120,000	$60,000	$60,000
Pathway Connection to Boat Dock	$15,720	$7860	$7860
****TOTALS =**	$ 160,720	$ 0 $80,360	$ 80,360

Form No. 90-25 (New 10/14/92, Revised 04-24-06)

ATTACHMENT E-6
WATERWAYS ASSISTANCE PROGRAM 2016

PROJECT TIMELINE

Project Title:	Exchange Island Pavilions, Phase 2B
Applicant:	City of Jacksonville

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 1st

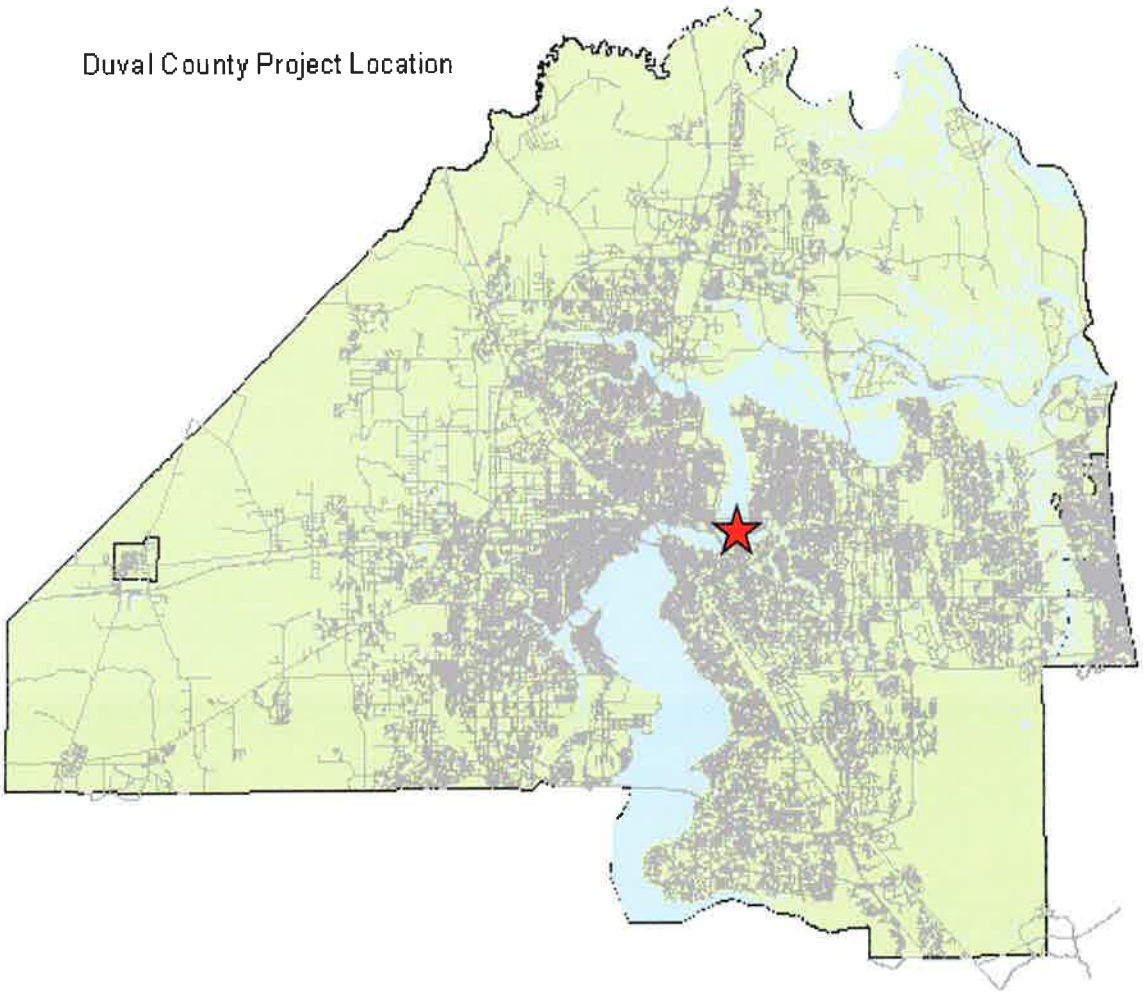
(or be consistent with Rule 66B-2.005(3) - Pre-agreement expenses)

Grants received	October 2016
Grants executed	January 2017
Advertise construction project	March 2017
Construction contract	May 2017
Construction begin	June 2017
Construction complete	December 2017
Grant Close out	February 2018

EXHIBIT 1: COUNTY LOCATION MAP

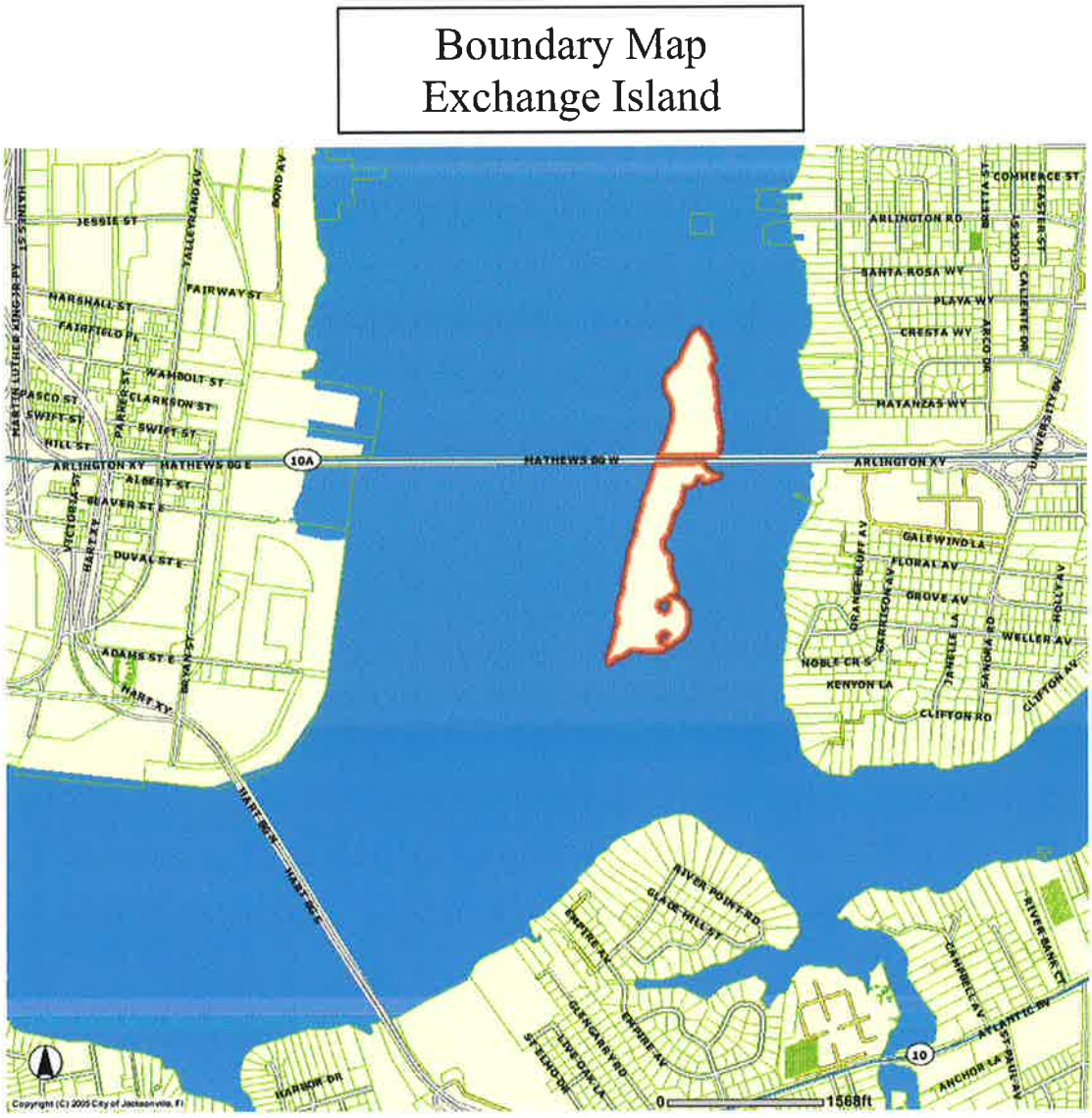


EXHIBIT 2: CITY LOCATION MAP



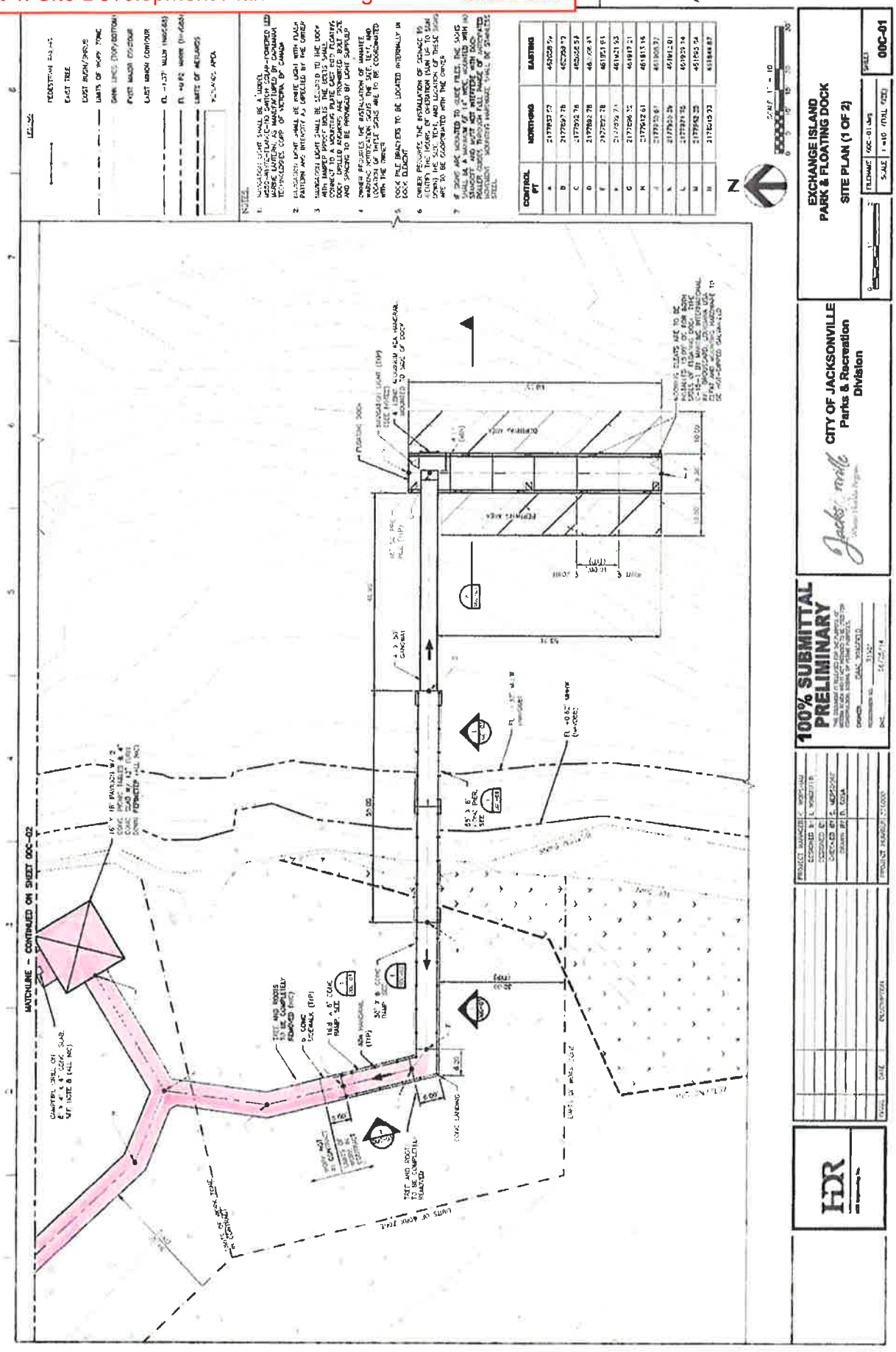
EXCHANGE ISLAND

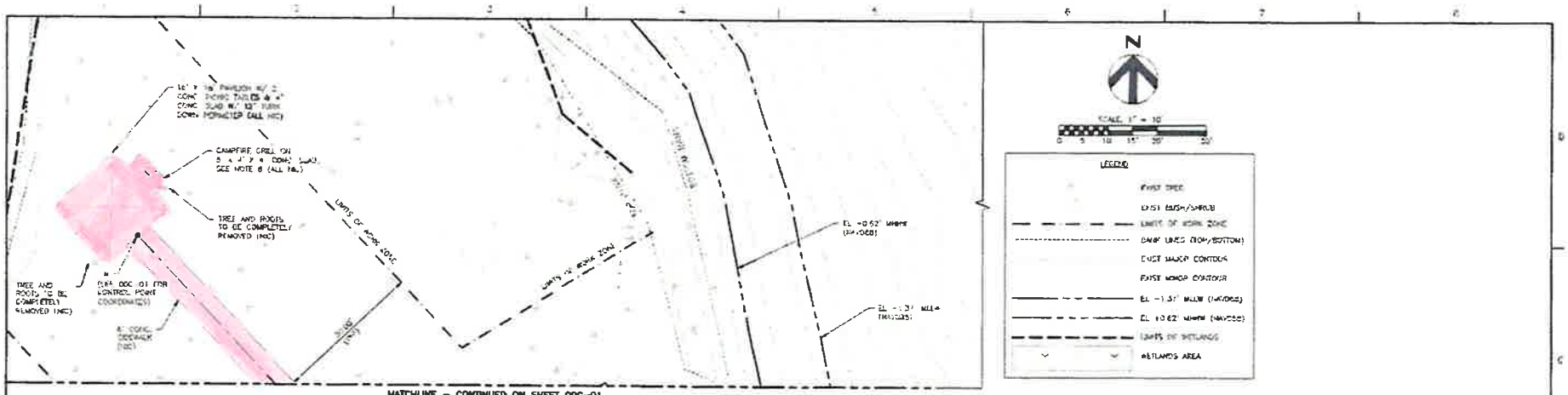
EXHIBIT 3: PROJECT BOUNDARY MAP



Boundary of Exchange Island Park

Exhibit 4: Site Development Plan - Exchange Club Island Park





MATCHLINE – CONTINUED ON SHEET 00C-01

PILE & COLUMN SCHEDULE

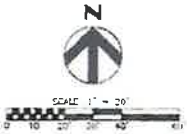
PILE/COLUMN NO.	PILE SIZE	CUTOFF ELEVATION	TIP ELEVATION	COORDINATES NORTHING	COORDINATES EASTING	ORIENTATION BEARING
P1	18"	+10	(-)85.0'	2177858.93	465055.81	0° 0' 0"
(AS-BUILT)						
P2	18"	+10	(-)85.0'	2177868.93	465055.81	0° 0' 0"
(AS-BUILT)						
P3	18"	+10	(-)85.0'	2177858.93	465055.81	0° 0' 0"
(AS-BUILT)						
P4	14"	+5.25	(-)360.0'	2177824.28	461975.18	0° 0' 0"
(AS-BUILT)						
P5	14"	+5.25	(-)360.0'	2177831.28	461975.18	0° 0' 0"
(AS-BUILT)						
P6	14"	+5.25	(-)360.0'	2177824.28	461979.43	0° 0' 0"
(AS-BUILT)						
P7	14"	+5.25	(-)360.0'	2177831.28	461979.43	0° 0' 0"
(AS-BUILT)						
P8	14"	+5.25	(-)360.0'	2177824.28	461953.68	0° 0' 0"
(AS-BUILT)						
P9	14"	+5.25	(-)360.0'	2177831.28	461953.68	0° 0' 0"
(AS-BUILT)						

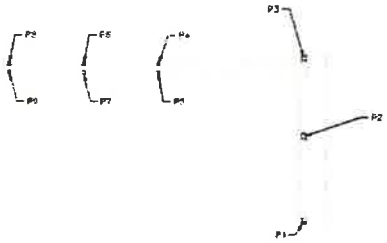
NOTES

1. SEE PAGE 00C-01 FOR ADDITIONAL PILING NOTES.
2. 18" SQUARE PRESTRESSED CONCRETE PILES SHALL CONFORM TO 2010 FDOT INDEX NO. 20018
3. PILE LOCATIONS ARE PROVIDED FOR PLANNING PURPOSES. CONTRACTOR TO COORDINATE ACTUAL PILE LOCATIONS WITH FLOATING DOCK MANUFACTURER
4. CONTRACTOR SHALL USE THE PROVIDED PILE SCHEDULE TO RECORD AS-BUILT INFORMATION FOR SUBMISSION TO OWNER. A LINE HAS BEEN PROVIDED FOR EACH INDIVIDUAL PILE RECORD INFORMATION.
5. CONTRACTOR SHALL FOLLOW LIFTING AND HANDLING DETAILS AS FOUND ON 2010 FDOT INDEX NO. 20600
6. IF FOR INSTALLATION PURPOSES (HAMMER, TEMPLATE, CLEARANCES, ETC.) A LONGER PILE LENGTH IS REQUIRED FROM WHAT IS SHOWN, THE CONTRACTOR SHALL ALLOW FOR IT IN HIS BID.

PILE INSTALLATION

1. PILES WILL BE DRIVEN IN ACCORDANCE WITH FDOT INSTALLATION PROCEDURES EXCEPT AS MODIFIED HEREIN
2. FOR ALL PILES REFUSAL SHALL BE 20 BLOWS/INCH
3. PILES SHALL BE CUT OFF FLUSH TO WITHIN 1" OF CUT OFF ELEVATION. CUT STRANDS NOT 1" BELOW PILE SURFACE AND GROUT HOLES FLUSH. PILE CUT-OFFS ARE THE CONTRACTORS PROPERTY AND ARE TO BE PROPERLY DISPOSED OF OFF-SITE.
4. GUIDE PILES SHALL BE CAPPED WITH A MINIMUM OF 1/8-INCH THICKNESS POLYETHYLENE OR FIBERGLASS WHITE CONICAL SQUARE PILE CAP (HARD CAP). THE PILE CAP SHALL BE HEAVY DUTY CONSTRUCTION AND PERMANENTLY SECURED TO THE PILE





HDR

PROJECT MANAGER	C. WOFFORD		
DESIGNED BY	I. WINCHELD		
DETAILED BY			
CHECKED BY	C. WOFFORD		
DRAWN BY	D. SOSA		
SCALE	DATE	DESCRIPTION	
PROJECT NUMBER	222000		

100% SUBMITTAL PRELIMINARY

THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF INTERIM REVIEW AND IS NOT INTENDED TO BE USED FOR CONSTRUCTION, BIDDING, OR PERMIT PURPOSES.

ENGINEER: CHAD WOFFORD
REGISTRATION No.: 71901
DATE: 06/28/19

CITY OF JACKSONVILLE
Parks & Recreation Division

EXCHANGE ISLAND PARK & FLOATING DOCK

SITE PLAN AND PILE PLAN (2 OF 2)

FILENAME	00C-02.dwg
SCALE	AS SHOWN
SHEET	00C-02

ATTACHMENT E-2

WATERWAYS ASSISTANCE PROGRAM FY 2016
PROJECT APPLICATION
APPLICANT INFORMATION – PROJECT SUMMARY

APPLICANT INFORMATION			
Applicant:	City of Jacksonville		
Department:	Parks, Recreation and Community Services		
Project Title:	Half Moon Island Park, Phase 2A		
Project Director:	Daryl Joseph	**Title:**	Director
Project Liaison: *(if different from Project Director)*	Brian Burket	**Title:**	Natural Resource Rec. Spec.
Mailing Address:	214 N. Hogan Street, 4th Floor, Room 439		
City:	Jacksonville	**Zip Code:**	32202
Email Address:	BBurket@coj.net	**Phone #:**	904-255-7935
Project Address:	17847 Main Street, Jacksonville, FL 32226		

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

SIGNATURE: B. P. Burket DATE: 3-25-16

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

This is a Phase 2 project to construct a new waterfront park with motorized boat ramp at Half Moon Island Preserve on the Nassau River located on U.S. 17/Main Street near the very northern border of Duval County. The property is currently undeveloped and this project has been requested by the Jacksonville Waterways Commissioners since there is no public access to the waterways in this area of the county. Phase 1 designed and permitted the access/entrance road, parking, boat ramp with access docks, fishing platform, pavilions and shoreline revetment. Due to the projected high cost of construction of the overall plans, Phase 2 will be pursued in two waves, namely Phase 2A (subject of this grant application) and 2B (future grant application). The facilities proposed for construction in Phase 2A include the access/entrance road, boat trailer parking, boat ramp with one access dock, and rip-rap revetment. The ramp will also be available for launching kayaks. Upon completion, this boat ramp is anticipated to be well used due to the lack of similar facilities in the vicinity. And, the view from this property overlooking the expansive marsh is impressive.

Form No. 90-22, Rule 66B-2, (New 12/17/90, Rev.07-30-02, 04-24-06)

ATTACHMENT E-3 - PROJECT INFORMATION 2016

Applicant:	City of Jacksonville	**Project Title:**	Half Moon Island Park, Phase 2A		
Total Project Cost: $	$1,848,398	**FIND Funding Requested: $**	$924,199	**% of Total Cost:**	50%
Amount and Source of Applicant's Matching Funds:	2016-2017City of Jacksonville Capital Improvement Budget				

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

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

3. Once completed, will this project be insured against damage? Explain

Yes, the City of Jacksonville is self-insured.

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

5. If yes, please list:

In 2013, FIND provided funding for Phase 1 of this project.

6. 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 property is currently undeveloped.

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

Single lane concrete boat ramp with access dock and 25 boat trailer parking spaces.

8. Are fees charged for the use of this project? No ■ Yes ☐

9. 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	Yes	4/23/15	6/5/15
ACOE	Yes	4/23/15	6/5/15
COUNTY / CITY	Yes	April 2016	TBD

Form No. 90-22a (New 10-14-92, Rev. 04-24-06, 4-15-07)

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.

Project Title:	Half Moon Island Park, Phase 2A
Applicant:	City of Jacksonville

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

b) Explain how the project fits this priority category.

This project consists of the development of a motorized boat ramp facility

(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 directly relates to the ICW and the mission of the Navigation District.

FIND lists one of its priorities to increase access to the Districts Waterways. The Nassau River connects to the ICW and there is currently an insufficient public access points in the project area.

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

The project provides access to the ICW from the Nassau River. This will be the second boat ramp constructed on the Nassau River in Duval County. The ramp will be located in a new city park within the boundaries of the Timucuan Ecological and Historic Preserve.

(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 was championed by members of Jacksonville Waterways Commission. Since there currently are no close public access points on the Nassau River to this area, it is expected to attract many boaters and fishermen. Anticipated 20,000+ visitors/year.

b) Discuss the regional and local public benefits that will be provided by the project.

The boat ramp will be located on U.S. 17 at the northern border of the county. COJ expects many Duval residents as well as Nassau County residents to use this facility. The boat ramp's location, easy access off a main roadway, will facilitate higher use than ramps in Nassau County. The location on a deep water river known for excellent fishing will also draw many boaters.

c) Can residents from other counties of the District reasonably access and use the project? Explain.

Yes, the boat ramp is on U.S. 17 (Main St.) just south of the Nassau County border.

(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.

Design is approaching 90% and permitting is complete. Design will be finalized in summer 2016. Estimated construction timeframe is about 9 months.

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

Coordinating the development of required turn lanes from US 17/Main Street into the park has potential to cause temporary project delays.

(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.

2016-2017 COJ Capital Improvement Budget

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

The development of required turn lanes from US 17/Main Street into the park has potential to result in unexpected or higher costs.

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

Only select trees will be cleared during site development and rip-rap was selected to stabilize the eroding shoreline instead of more expensive options.

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 use of this facility. There is a small, private fee-based ramp across the county line.

(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 boat ramp will be just the second motorized access point on the Nassau River in Duval County. This ramp is located approximately 17 miles from the mouth of the river. One of the goals of the city and National Parks is to provide more access to the Timucuan Preserve, this ramp will provide public access to this area of the preserve.

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

The City of Jacksonville's Park Maintenance Division will be responsible for the maintenance of the boat ramp.

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

This property was purchased in 1999 and has been undeveloped since then. This will be the first new boat ramp constructed in Duval County since 2006. Duval County currently has no ramps in this area of the county. This ramp will provide significant benefit because it is providing access to an area of the Timucuan Preserve that is currently difficult to access due to limited public launching locations.

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

Only select trees will be cleared during site development and rip-rap will be used to stabilize the eroding shoreline and protect the new park assets.

(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? If permits are NOT required, explain why not.**

Yes, all environmental permits have been received.

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 a Phase 2 project estimated at $1,848,398.

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

None, permits have been received.

(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 is approaching 90% and permitting is complete. Design will be finalized in summer 2016.

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?

Only select trees will be cleared during site development and rip-rap will be used to stabilize the eroding shoreline and protect the new park assets.

(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 project has been designed to COJ park standards for the marine environment. The project consists of a 1,632 square foot single-lane concrete boat ramp that is 20 feet by 81.6 feet, with an 8 feet by 81.6 feet ground out floating dock that leads to an 8 feet by 75 feet floating dock and installation of rip rap revetment along the shoreline within the Nassau River

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

Materials to be used are appropriate for the marine environment. Construction techniques will not adversely affect the conservation of fish and wildlife and no wetland impacts. Habitat will be improved via the stabilized rip-rap shoreline.

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

No unusual techniques are proposed that would significantly impact the project cost.

(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 has been designed to COJ park standards for the marine environment. Concrete ramp will be installed and rip-rap revetment to stablize the shoreline. The life span of the project is expected to be 20-25 years.

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

None of the selected materials is anticipated to significantly alter 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.)

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 2016

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

Project Title:	Half Moon Island Park, Phase 2A
Applicant:	City of Jacksonville

Project Elements *(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)*	**Quantity or Total Estimated Cost** **(Number and/or Footage etc.)**	**Applicant's Cost**	**FIND Cost**
Mobilization	$100,000	$50,000	$50,000
Grading & Drainage	$245,000	$122,500	$122,500
Access Road, Turn Lanes, Parking & Sidewalks	$703,398	$351,699	$351,699
Single-lane Boat Ramp w/ground out dock	$330,000	$165,000	$165,000
Floating Dock	$120,000	$60,000	$60,000
Shoreline Revetment	$350,000	$175,000	$175,000
****TOTALS =**	$ 1,848,398	$ 0 $924,199	$ 924,199

Form No. 90-25 (New 10/14/92, Revised 04-24-06)

ATTACHMENT E-6
WATERWAYS ASSISTANCE PROGRAM 2016

PROJECT TIMELINE

Project Title:	Half Moon Island Park, Phase 2A
Applicant:	City of Jacksonville

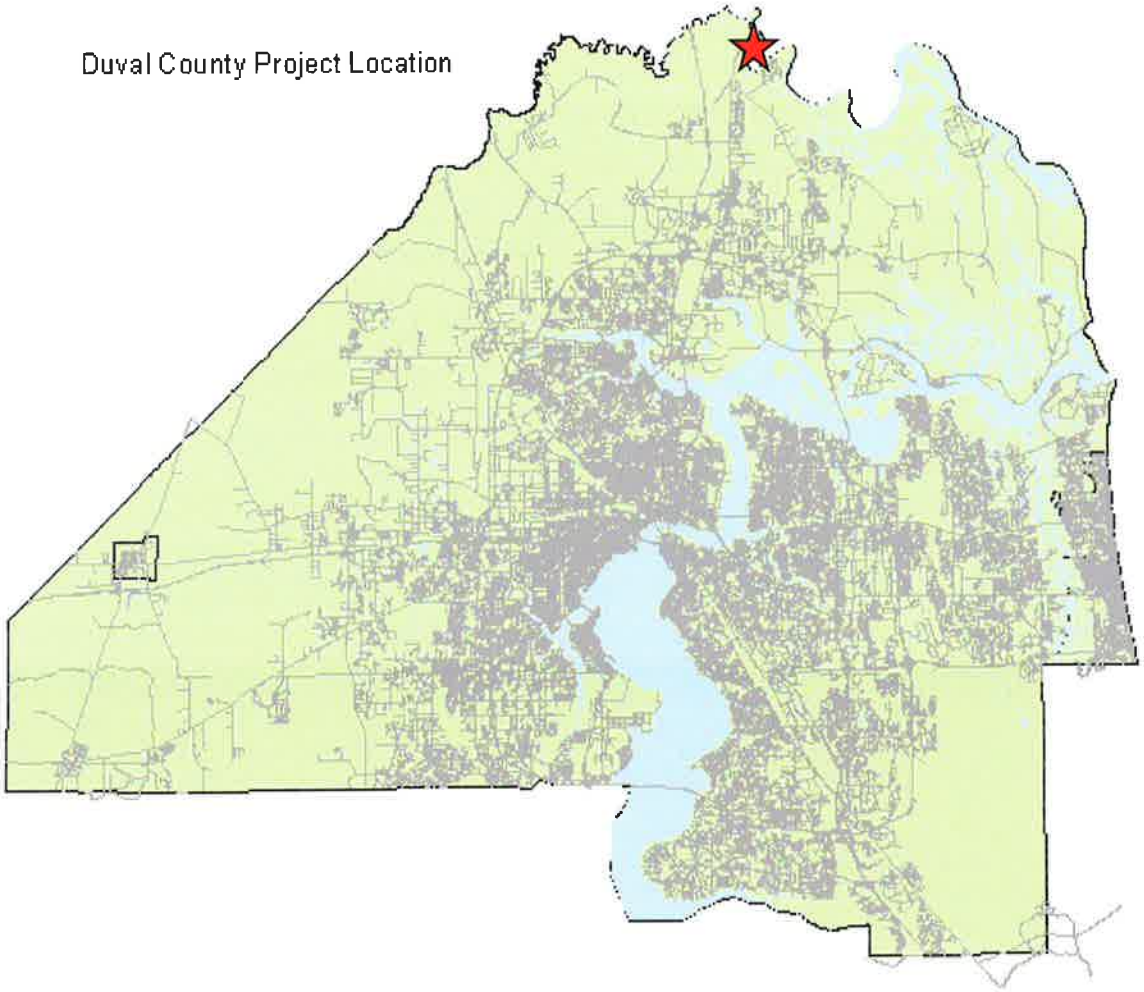
The applicant is to present a detailed timeline on the accomplishment of the components of the proposed project including, as applicable, completion dates for: permitting, design, bidding, applicant approvals, initiation of construction and completion of construction.
NOTE: All funded activities must begin AFTER October 1st
(or be consistent with Rule 66B-2.005(3) - Pre-agreement expenses)

Grants received	October 2016
Grants executed	January 2017
Advertise construction project	March 2017
Construction contract	May 2017
Construction begin	June 2017
Construction complete	June 2018
Grant Close out	July 2018

EXHIBIT 1: COUNTY LOCATION MAP



EXHIBIT 2: CITY LOCATION MAP



HALF MOON ISLAND BOAT RAMP

EXHIBIT 3: PROJECT BOUNDARY MAP

Boundary of Half Moon Island Park



Boundary of Half Moon Island Park

Exhibit 4: Site Development Plan

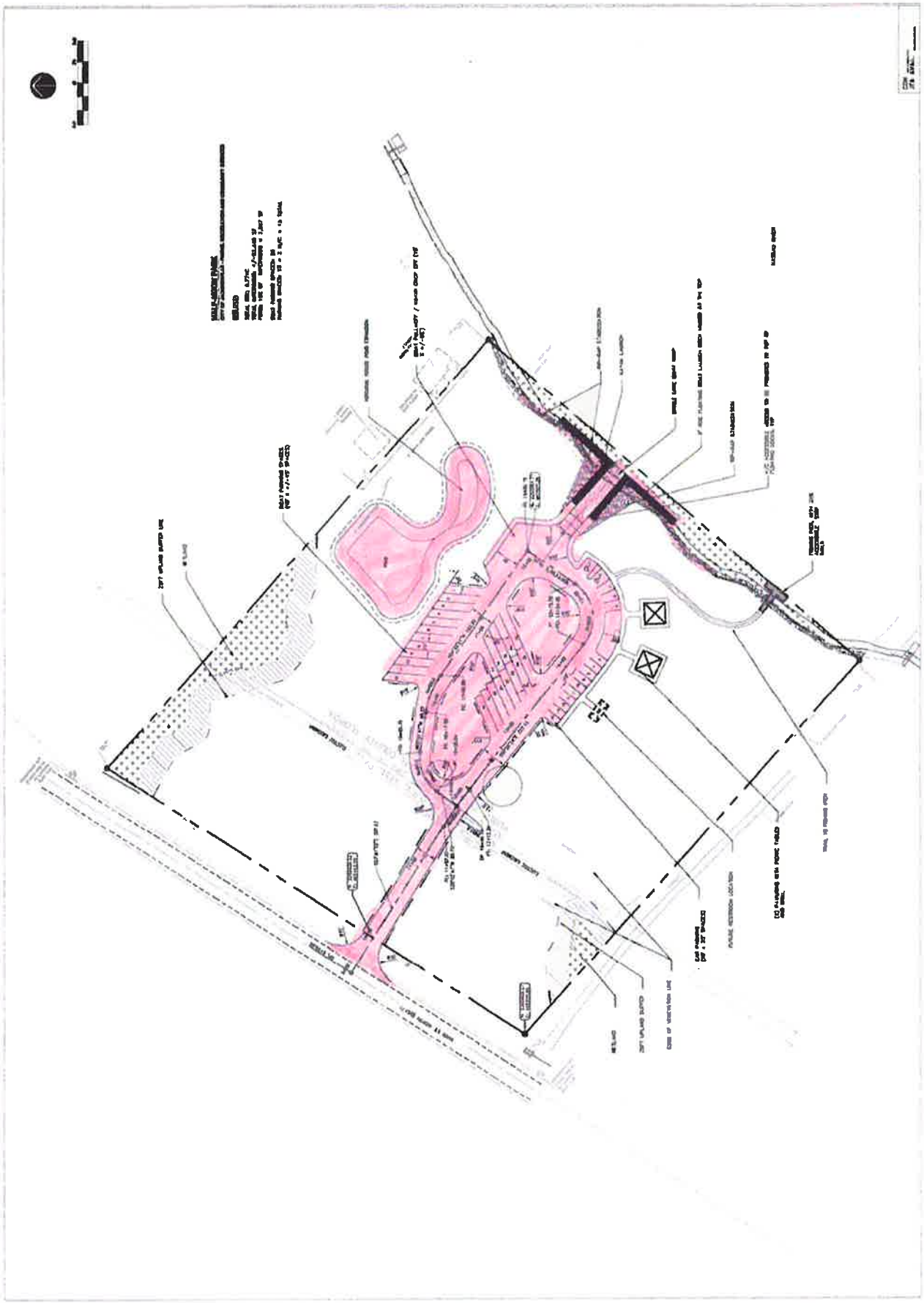


Exhibit 4: Development Site Plan – Half Moon Island Park

ATTACHMENT E-2

WATERWAYS ASSISTANCE PROGRAM FY 2016
PROJECT APPLICATION
APPLICANT INFORMATION – PROJECT SUMMARY

APPLICANT INFORMATION			
Applicant:	City of Jacksonville		
Department:	Parks, Recreation and Community Services		
Project Title:	Metro Park Marina Dredge, Phase 1		
Project Director:	Daryl Joseph	**Title:**	Director
Project Liaison: *(if different from Project Director)*	Brian Burket	**Title:**	Natural Resource Rec. Spec.
Mailing Address:	214 N. Hogan Street, 4th Floor, Room 439		
City:	Jacksonville	**Zip Code:**	32202
Email Address:	BBurket@coj.net	**Phone #:**	
Project Address:	1410 Gator Bowl Blvd, Jacksonville, FL 32202		

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

SIGNATURE: B. P. Burket DATE: 3-25-16

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

The Marina at Metropolitan Park in downtown Jacksonville is located directly across the street from EverBank Field which is home to the NFL Jaguars, Gator Bowl and FL/GA game. The marina is a popular destination for boaters during football games and other special events at the park and sports complex. This project is to design and permit a dredging project for the marina and adjacent cove area. The marina basin and cove area require dredging about every 10 years to maintain access and keep it functional for transient boaters. The last dredge was done in 2008. Currently, some of the slips are already too shallow for larger boats.

Form No. 90-22, Rule 66B-2, (New 12/17/90, Rev.07-30-02, 04-24-06)

ATTACHMENT E-3 - PROJECT INFORMATION 2016

Applicant:	City of Jacksonville	**Project Title:**	Metro Park Marina Dredge, Phase 1		
Total Project Cost: $	$200,000	**FIND Funding Requested: $**	$100,000	**% of Total Cost:**	$100,000
Amount and Source of Applicant's Matching Funds:	2016-2017 City of Jacksonville Capital Improvement				

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

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

3. Once completed, will this project be insured against damage? Explain

Yes, the City is self-insured.

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

5. If yes, please list:

2007 project to install electric and water for the boat slips in marina. 2002 project to dredge the marina basin.

6. 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):

78 boat slips and 1350 feet of floating docks can accommodate boats up to 80 feet LOA and a few very large yachts

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

None. This dredge project will ensure continued access and use of the existing boat slips.

8. Are fees charged for the use of this project? No ■ Yes ☐

9. 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	
DEP	Yes	TBD	
ACOE	Yes	TBD	
COUNTY / CITY	No		

Form No. 90-22a (New 10-14-92, Rev. 04-24-06, 4-15-07)

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.

Project Title:	Metro Park Marina Dredge, Phase 1
Applicant:	City of Jacksonville

---

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 7~~-- Acquisition, dredging, shoreline stabilization and development of public boat ramps and launching facilities Priority # 8 Dredging public boat docking & Mooring

b) Explain how the project fits this priority category.

The dredge project will enhance access and use of a popular public marina.

(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 directly relates to the ICW and the mission of the Navigation District.

Metropolitan Park Marina, located in Downtown Jacksonville is a heavily used public boat docking facility that attracts boaters from around the region that utilize the St. Johns River or ICW to get there.

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

Funding of this project will allow the boating public to access the docks at Metropolitan Park. Currently, the water is shallow in several places along the bulkhead and at the entrance to the marina.

(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.

Metropolitan Park Marina is most heavily used in the fall for Jaguar and college football games, but winter, spring and summer concerts and other park events make the site one of the most heavily used public parks in the City of Jacksonville. The marina and cove can accommodate up to 250 transient boats at one time.

b) Discuss the regional and local public benefits that will be provided by the project.

The proposed dredge project will allow continued access and use of this popular and important marina which supports the economic success of special events at the park and adjacent sports complex.

c) Can residents from other counties of the District reasonably access and use the project? Explain.

Yes, Metropolitan Park is a destination used by visitors from all over the Southeast during football games, for concerts and other activities. The Marina is free and open to the public for all activities on a first come first served basis, though reservations are used to assign dock spaces during the football season and large special events.

(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 City of Jacksonville has carried out similar dredging projects in past years, and has had no problems meeting the projected timelines.

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

Environmental permits always present an opportunity to influence project timelines.

(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.

2016-2017 City of Jacksonville Capital Improvement

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

Due to the tight spaces within the marina, the dredge operator will need equipment that can maneuver in these areas.

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

Since this marina has been dredged previously, some the survey work does not need to be repeated which will save some 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.

Fees are only charged for use of the power pedestals. The power cost is $8.56 per 24 hours. Users may pay for 24, 48 or 72 hours worth of power.

(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 proposed dredge project will allow continued access and use of this popular and important marina which supports the economic success of special events at the park and adjacent sports complex. This is the only public marina in Jacksonville.

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

The marina is already maintained by the City of Jacksonville's Department of Parks, Recreation and Community Services.

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

Yes, this dredge project is critical to the continued use of the marina by boaters and supporting the success of the special events it serves. The dredge is expected to last for another ten years.

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

The project will abide by any special restrictions or instructions outlined in the environmental permits.

(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-4D
INLET MANAGEMENT and PUBLIC NAVIGATION PROJECTS

WATERWAYS ASSISTANCE PROGRAM
APPLICATION AND EVALUATION WORKSHEET

THIS ATTACHMENT IS TO BE COMPLETED IF YOUR PROJECT IS AN INLET MANAGEMENT or PUBLIC NAVIGATION PROJECT

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7) WATERWAY RELATIONSHIP:

a) How does the project directly benefit the Atlantic Intracoastal Waterway (AICW)?

The dredge will improve the access to the popular public marina at Metropolitan Park which is heavily used by boaters during football games and other special events; many of the boaters arrive by way of the St. Johns River and the Intracoastal Waterway.

b) Identify any long-term sedimentation problems and briefly discuss any methods or activities that will address these issues.

The marina basin requires dredging about every 10 years to keep it fully functional. No long-term solutions have been identified to prevent sediment build-up in the marina; however, potential solutions will be explored during the design.

c) Will the project inhibit sediment inflow into, or reduce the dredging frequency of the AICW?

N/A

(For reviewer only)
(1-5 points)

---

8) PUBLIC ACCESS:

a) Will the project enhance public access to or from the waterways? Describe in brief detail.

The dredge will improve access to the popular public marina at Metropolitan Park which is heavily used by boaters during football games and other special events; many of these boaters arrive by way of the St. Johns River and the Intracoastal Waterway.

b) List the upstream publicly accessessible facilities with improved access as a result of this project.

None. The marina is the destination.

(For reviewer only)
(1 -3 points)

9) BENEFICIAL PROJECT ELEMENTS:

a) Are there additional economic benefits to be realized by implementing this project?

Yes, the marina is heavily used by local and transient boaters during special events in downtown Jacksonville, especially during Jaguars, FL/GA and Gator Bowl football games. The park and marina are a hub of activity during these games that support an important economic impact to the City of Jacksonville. This project is necessary to keep the marina accessible to boats of many sizes and all tide levels.

b) Briefly spell out any water quality, environmental or habitat benefits to be realized by this project.

None identified at this time.

(For reviewer only)
(1 -2 points)

10) PROJECT MAINTENANCE:

a) When was this area last dredged? What is the expected frequency of future dredging?

The last dredge was in 2008. Expected frequency is every 10 years.

b) Explain the funding mechanism for the long-term maintenance of the project.

It is expected that with this dredge, the marina will remain accessible for approximately 10 years. Future funding will continued to be pursued via FIND, FBIP, BIGP and other eligible grant programs.

c) Describe the long-range dredge material management plans.

The City has a long term agreement with JaxPort on the use and management of dredge disposal areas.

(For reviewer only)
(1 -2 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 2016

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

Project Title:	Metro Park Marina Dredge, Phase 1
Applicant:	City of Jacksonville

Project Elements *(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)*	**Quantity or Total Estimated Cost** **(Number and/or Footage etc.)**	**Applicant's Cost**	**FIND Cost**
Survey - boundary & geotech	$60,000	$30,000	$30,000
Testing	$30,000	$15,000	$15,000
Design Fees	$100,000	$50,000	$50,000
Permits	$10,000	$5000	$5000
****TOTALS =**	**$** 200,000	**$** 0 $100,000	**$** 100,000

Form No. 90-25 (New 10/14/92, Revised 04-24-06)

ATTACHMENT E-6
WATERWAYS ASSISTANCE PROGRAM 2016

PROJECT TIMELINE

Project Title:	Metro Park Marina Dredge, Phase 1
Applicant:	City of Jacksonville

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 1st

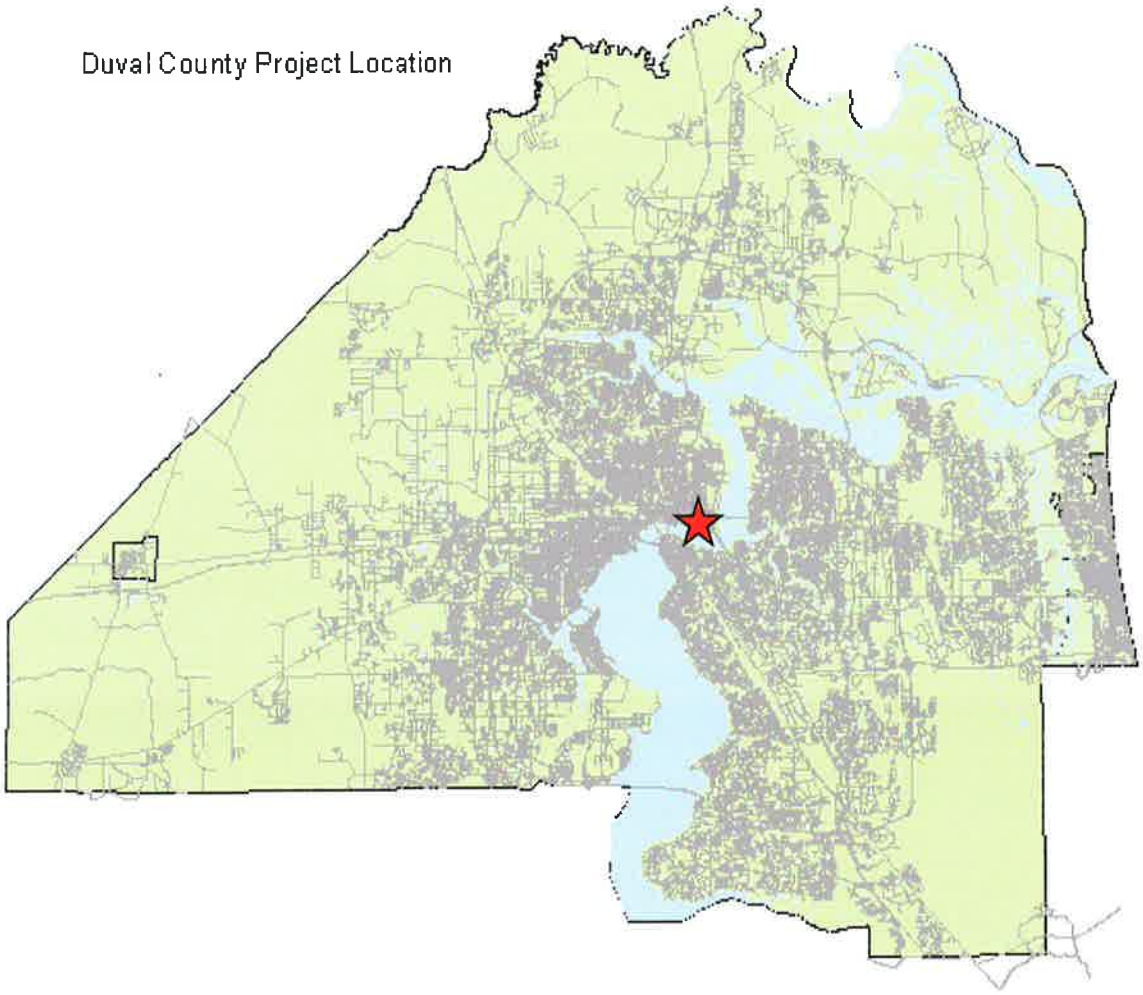
(or be consistent with Rule 66B-2.005(3) - Pre-agreement expenses)

Grants received	October 2016
Grants executed	January 2017
Award Design contract	March 2017
Design Start	April 2017
Permits received	April 2018
Final plans received	August 2018
Grant Close out	September 2018

EXHIBIT 1: COUNTY LOCATION MAP



EXHIBIT 2: CITY LOCATION MAP



Metropolitan Park Marina

Exhibit 3: Project Boundary Map
Metropolitan Park Marina



EXHIBIT 4: SITE DEVELOPMENT PLAN



Metropolitan Park Marina

ATTACHMENT E-2

WATERWAYS ASSISTANCE PROGRAM FY 2016
PROJECT APPLICATION
APPLICANT INFORMATION – PROJECT SUMMARY

APPLICANT INFORMATION			
Applicant:	City of Jacksonville		
Department:	Parks, Recreation and Community Services		
Project Title:	Northshore Kayak Launch, Phase 2		
Project Director:	Daryl Joseph	**Title:**	Director
Project Liaison: *(if different from Project Director)*	Brian Burket	**Title:**	Natural Resource Rec. Spec.
Mailing Address:	214 N. Hogan Street, 4th Floor, Room 439		
City:	Jacksonville	**Zip Code:**	32202
Email Address:	BBurket@coj.net	**Phone #:**	904-255-79-35
Project Address:	7901 Pearl Street, Jacksonville, FL 32208		

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

SIGNATURE: B. P. R [illegible] DATE: 3-25-16

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

This project consists of constructing a shoreline kayak launch at an existing neighborhood park located on the Trout River. This park is a popular fishing and family picnicking park. There is 500 ft. of shoreline along the Trout River. There are oyster shells and randomly placed rip-rap along the shoreline which makes the site very difficult to launch from. This Phase 2 project will construct a stabilized shoreline kayak/canoe launch with a rock groin to protect and shelter the launch area as well as provide an accessible route from the existing parking area. This project has been requested by the public.

Form No. 90-22, Rule 66B-2, (New 12/17/90, Rev.07-30-02, 04-24-06)

ATTACHMENT E-3 - PROJECT INFORMATION 2016

Applicant:	City of Jacksonville		**Project Title:**	Northshore Kayak Launch, Phase 2	
Total Project Cost: $	$137,944	**FIND Funding Requested: $**	$68,972	**% of Total Cost:**	50%
Amount and Source of Applicant's Matching Funds:	2016-2017 Capital Improvement Budget				

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

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

3. Once completed, will this project be insured against damage? Explain

Yes, the City of Jacksonville is self-insured.

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

5. If yes, please list:

FIND provided funding assistance for the Phase 1 of this project in 2013.

6. 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 no water access amenities at this park. The park has 500 feet of shoreline along Trout River.

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

This project will add an accessible, stabilized shoreline kayak/canoe access point.

8. Are fees charged for the use of this project? No ■ Yes ☐

9. 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	Yes	Dec. 2014	2/2/15
ACOE	Yes	Dec. 2014	TBD
COUNTY / CITY	No		

Form No. 90-22a (New 10-14-92, Rev. 04-24-06, 4-15-07)

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.

Project Title:	Northshore Kayak Launch, Phase 2
Applicant:	City of Jacksonville

---

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 # 7- development of launching facilities

b) Explain how the project fits this priority category.

Increasing public access to District waterways is one of the priorities of the FIND Waterways Assistance Program.

(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 directly relates to the ICW and the mission of the Navigation District.

FIND lists one of its priorities to increase access to the Districts Waterways. The Trout River is a tributary of the St. Johns River and connects to the ICW.

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

The project is located on the Trout River which connects to the ICW by way of the St. Johns River. The park is a waterfront park but does not have a convenient, environmental safe access point due to oyster beds and some rip-rap along the shoreline.

(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 is a request from the kayak community. Currently there is no access for kayaks in this section of the river. Anticipated public use is 5000-10,000 people/year.

b) Discuss the regional and local public benefits that will be provided by the project.

Northshore Park is a well-used neighborhood park surrounded by residential. It is also conveniently located between I-95 and U.S. 17/Main Street with easy access from both of these major highways. The park is used now by families to picnic and by fisherman to fish along the shoreline. The addition of a water access point will increase usage of the park.

c) Can residents from other counties of the District reasonably access and use the project? Explain.

Yes, it is located just off of I-95 and U.S. 17 – two major highways that run north and south through Jacksonville.

(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.

Project design is at 60% and received DEP permit. Still waiting for USACE permit before completing design which is anticipated in April/May.

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

Currently waiting for National Marine Fisheries Review, but recently received word that it has worked its way to the top of the list.

(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 funding will come from the 2016-2017 City of Jacksonville Capital Improvement Program budget.

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

No specific aspects of the project have been identified that may increase the costs.

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

Some of the existing, on-site rip-rap will be utilized to create the rock groin to protect and shelter the launch area.

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 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?

Kayakers have attended Jacksonville Waterways Commission meetings requesting an improved launch site at this park.

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

The project will be maintained by the Parks Maintenance Division using budgeted maintenance funding.

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

Development of an appropriately designed kayak launch will help stop shoreline erosion associated with the use of the natural shoreline area.

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

As mitigation, Spartina alterniflora plugs are proposed to be installed along a 24 ft. stretch of the northern side of the relocated rip-rap to help stabilize the base of the rip-rap and create habitat.

(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.

Received DEP permit. Still waiting for USACE permit due to National Marine Fisheries Review, but recently received word that it has worked its way to the top of the list.

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 2 project estimated to cost $137,944.

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

National Marine Fisheries Review is still underway, but we fully expect to receive it by the grant deadline.

(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 is at 60% and holding until receive USACE permit. We expect to receive permit in April or May and then complete the design plans.

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?

A rock groin will be installed to protect and shelter the launching area to prevent erosion and provide a safe location for kayakers to launch without effects of strong river current.

(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 project consists of removing a minimal amount existing rip-rap to allow for construction of a stabilized gravel surface for kayak launching. The removed rip-rap, along with additional rip-rap as needed, will be relocated to create a rock groin to provide for erosion protection and protection from waves while launching a kayak. And, a paved path from the street parking area will provide ADA access to the launch area.

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

The construction techniques will utilize some of the existing, on-site rip-rap in order to keep the area as natural as possible but to protect the shoreline from erosion.

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

The amount of additional rip-rap needed has not yet been quantified and could impact the cost of the project.

(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?

Shoreline stabilization will be gravel on a Geotextile fabric which will be protected by a rock groin. With proper maintenance the design life in expected to be roughly 25 years.

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

No unique materials are proposed.

(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 2016

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

Project Title:	Northshore Kayak Launch, Phase 2
Applicant:	City of Jacksonville

Project Elements *(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)*	**Quantity or Total Estimated Cost** (Number and/or Footage etc.)	**Applicant's Cost**	**FIND Cost**
Mobilization	$20,000	$10,000	$10,000
Demolition, Grading & Drainage	$21,000	$10,500	$10,500
Sidewalk, ADA access	$7944	$3972	$3972
Rock Groin install	$41,000	$20,500	$20,500
Stablized launch (Geotextile fabric & gravel)	$28,000	$14,000	$14,000
Mitigation Plantings	$20,000	$10,000	$10,000
****TOTALS =**	$ 137,944	$ 0 $68,972	$ 68,972

Form No. 90-25 (New 10/14/92, Revised 04-24-06)

ATTACHMENT E-6
WATERWAYS ASSISTANCE PROGRAM 2016

PROJECT TIMELINE

Project Title:	Northshore Kayak Launch, Phase 2
Applicant:	City of Jacksonville

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

Grants received	October 2016
Grants executed	January 2017
Advertise construction project	March 2017
Construction contract	May 2017
Construction begin	June 2017
Construction complete	November 2017
Grant Close out	January 2018

EXHIBIT 1: COUNTY LOCATION MAP

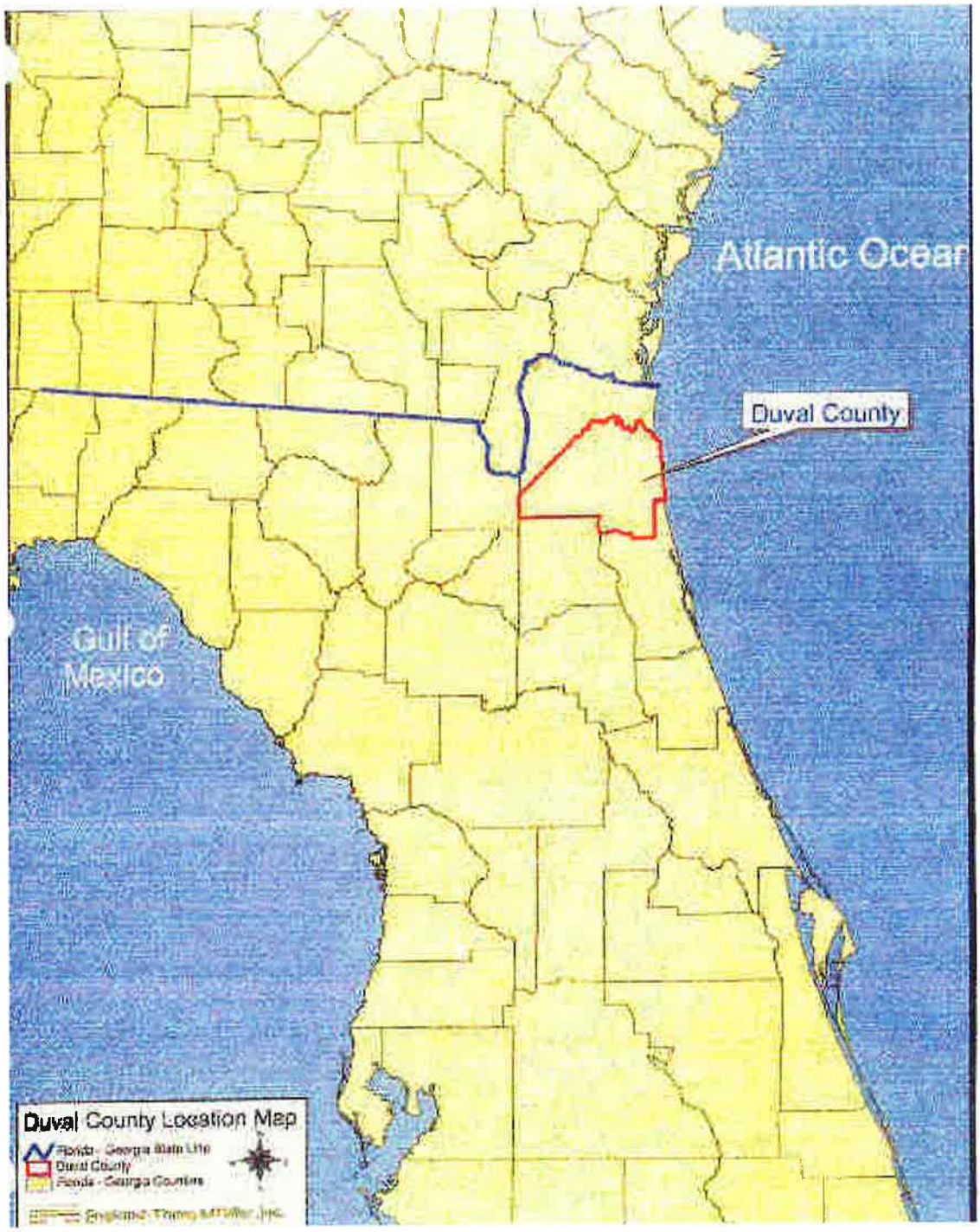
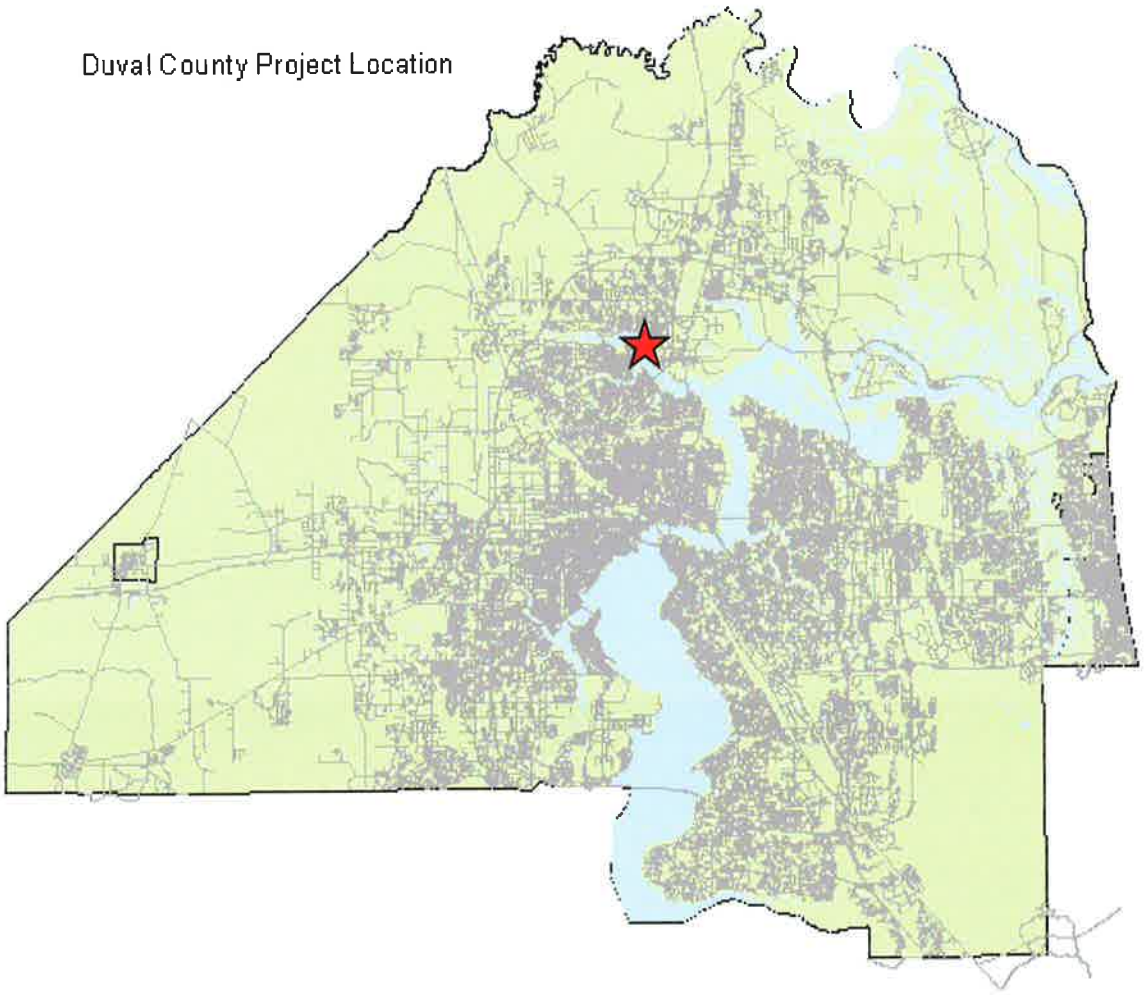


EXHIBIT 2: CITY LOCATION MAP



NORTHSHORE KAYAK LAUNCH

EXHIBIT 3: PROJECT BOUNDARY MAP

Northshore Park Boundary Map




REVETMENT BREAKWATER, RELOCATE EXISTING REVETMENT AND PROVIDE ADDITIONAL REVETMENT AS NEEDED - MAX. 1FT ABOVE MHWL
EXISTING REVETMENT
KAYAK LAUNCH - FILTER FABRIC W/ OYSTER SHELL SURFACE
MEAN LOW WATER-TBD
EXISTING PROTECTED GRASSES
PROPOSED WALKWAY EXTENSION
LOCATE KAYAK LAUNCH CENTERED ON EXISTING OPENING IN VEGETATION
EXISTING REVETMENT
EXISTING WALKWAY
SITE PLAN ENLARGEMENT
EXISTING WALKWAY SYSTEM-VERIFY ADA ACCESSIBILITY
PROPOSED FENCE OPENING W/ WALKWAY FOR KAYAK PARKING - NOT AN ACCESSIBLE ROUTE
PROPOSED KAYAK LAUNCH - SEE ENLARGEMENT
EXT. FENCE TO REMAIN
PEARL ST.
EXISTING ON-STREET HANDICAP PARKING SPACE TO REMAIN
OVERALL PARK SITE PLAN
PROPOSED LOCATION FOR KAYAK LAUNCH
EXISTING REVETMENT AT THE PROPOSED LOCATION FOR KAYAK LAUNCH
PROSSER
CITY OF JACKSONVILLE PARKS AND RECREATION
NORTH SHORE PARK
7901 PEARL STREET
JACKSONVILLE, FL 32208
KAYAK LAUNCH
THIS DRAWING NOT RELEASED FOR CONSTRUCTION UNLESS SO NOTED ABOVE
SHEET TITLE
PRELIMINARY SITE PLAN
SP1.0
SHEET

ATTACHMENT E-2

WATERWAYS ASSISTANCE PROGRAM FY 2016
PROJECT APPLICATION
APPLICANT INFORMATION – PROJECT SUMMARY

APPLICANT INFORMATION			
Applicant:	City of Jacksonville		
Department:	Parks, Recreation and Community Services		
Project Title:	School Board Property ADA Kayak Launch, Phase 1		
Project Director:	Daryl Joseph	**Title:**	Director
Project Liaison: *(if different from Project Director)*	Brian Burket	**Title:**	Natural Resource Rec. Spec.
Mailing Address:	214 N. Hogan Street, 4th Floor, Room 439		
City:	Jacksonville	**Zip Code:**	32202
Email Address:	BBurket@coj.net	**Phone #:**	
Project Address:	1701 Prudential Drive, Jacksonville, FL 32207		

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

SIGNATURE: B. P. Burket DATE: 3-25-16

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

Downtown Jacksonville is situated on the St. Johns River and offers the popular riverfront promenades along the Northbank and Southbank for the public to view and enjoy the river; however, there is a lack of locations along these Riverwalks to safely launch a kayak or paddle board. Launching of these types of non-motorized vessels is possible at Metro Park Marina and the St. Johns Marina Boat Ramp but they are not ideal due to the heavy use of motorized boats. An opportunity has been identified adjacent to the eastern terminus of the recently reconstructed Southbank Riverwalk on property owned and managed by the Duval County School Board. This proposed project would design and permit a kayak launch on School Board property which would require a management agreement with the landowner.

Form No. 90-22, Rule 66B-2, (New 12/17/90, Rev.07-30-02, 04-24-06)

ATTACHMENT E-3 - PROJECT INFORMATION 2016

Applicant:	City of Jacksonville		Project Title:	School Board Property ADA Kayak Launc	
Total Project Cost: $	$120,000	**FIND Funding Requested: $**	$60,000	**% of Total Cost:**	50%
Amount and Source of Applicant's Matching Funds:	2016-2017 City of Jacksonville Capital Improvement				

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

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

Working with landowner (Duval County School Board) to execute a management agreement.

3. Once completed, will this project be insured against damage? Explain

Yes, the City is self-insured.

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

5. If yes, please list:

6. 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 adjacent Southbank Riverwalk provides 0.75 miles of riverfront promenade.

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

A kayak launch with designated parking spaces.

8. Are fees charged for the use of this project? No ■ Yes ☐

9. 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	
DEP	Yes	TBD	
ACOE	Yes	TBD	
COUNTY / CITY	No		

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.

Project Title:	School Board Property ADA Kayak Launch, Phase 1
Applicant:	City of Jacksonville

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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 # 7- development of launching facilities

b) Explain how the project fits this priority category.

Increasing public access to District waterways is one of the priorities of the FIND Waterways Assistance Program.

(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 directly relates to the ICW and the mission of the Navigation District.

FIND lists one of its priorities to increase access to the Districts Waterways. The St. Johns River connects to the ICW.

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

The project would provide a location in downtown Jacksonville to safely launch non-motorized vessels into the St. Johns River.

(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 is a request from the kayak community and Jacksonville Waterways Commission. Currently, there is limited access for kayaks in downtown Jacksonville due to high boat traffic and strong currents. Anticipated public use of this proposed facility is 5000 people/year.

b) Discuss the regional and local public benefits that will be provided by the project.

The Southbank Riverwalk is a well-used riverfront promenade in downtown Jacksonville. A management agreement with the School Board would provide ability to develop the launch with designated parking spaces for people drawn downtown seeking a unique paddling experience in an urban environment.

c) Can residents from other counties of the District reasonably access and use the project? Explain.

Yes, I-95 and I-10 intersect in downtown Jacksonville providing easy access to the area.

(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 kayak launch has just been conceptualized at this point. This project will design and permit the launch which is feasible within the two-year timeframe provided by this grant program.

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

This project will require a management agreement with the landowner (School Board) which is currently being negotiated.

(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 funding will come from the 2016-2017 City of Jacksonville Capital Improvement Program budget.

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

No specific aspects of the project have been identified that may increase the costs.

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

This will be determined during the design phase of 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.

No fees will be 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?

Kayakers have requested a public launching facility at this location and their proposal has been supported by the Jacksonville Waterways Commission.

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

The project will be maintained by the Parks Maintenance Division using budgeted maintenance funding for the adjacent Southbank Riverwalk.

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

The project would result in a safe kayak launch in downtown Jacksonville which is desired by the community.

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

This project is not yet designed.

(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? If permits are NOT required, explain why not.**

This project has not been designed yet so no permits have been applied for.

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.**

Tasks include: Survey, geotech, and structural design in order to receive an approved permit. The estimated cost of construction is currently unknown but should not be more than $150,000.

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

National Marine Fisheries Review of the USACE permit is always a wild card and could cause a delay.

(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 has not started; only the location has been selected.

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?

Design has not begun. The Engineering firm will be encouraged to identify a design to provide unique beneficial aspects to decrease environmental impacts and reduce cost, if possible.

(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 current proposed concept is for a floating dock with accessible kayak launch. An accessible path from the parking area will provide ADA access to the launch area.

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

If a floating dock design is pursued for the kayak launch, minimal impacts and modifications would be necessary to the existing environment and infrastructure.

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

None identified at this time.

(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?

A gangway and concrete floating dock is envisioned with an adaptive design to accommodate access by those with varying physical abilities. The design life in expected to be roughly 20 years.

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

None identified at this time. Unique construction material may be identified during the design process.

(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 2016

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

Project Title:	School Board Property ADA Kayak Launch, Phase 1
Applicant:	City of Jacksonville

Project Elements *(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)*	**Quantity or Total Estimated Cost** (Number and/or Footage etc.)	**Applicant's Cost**	**FIND Cost**
Survey	$20,000	$10,000	$10,000
Geotech	$20,000	$10,000	$10,000
Structural	$20,000	$10,000	$10,000
Design	$50,000	$25,000	$25,000
Pemitting	$10,000	$5000	$5000
****TOTALS =**	$ 120,000	$ 0 $60,000	$ 60,000

Form No. 90-25 (New 10/14/92, Revised 04-24-06)

ATTACHMENT E-6
WATERWAYS ASSISTANCE PROGRAM 2016

PROJECT TIMELINE

Project Title:	School Board Property ADA Kayak Launch, Phase 1
Applicant:	City of Jacksonville

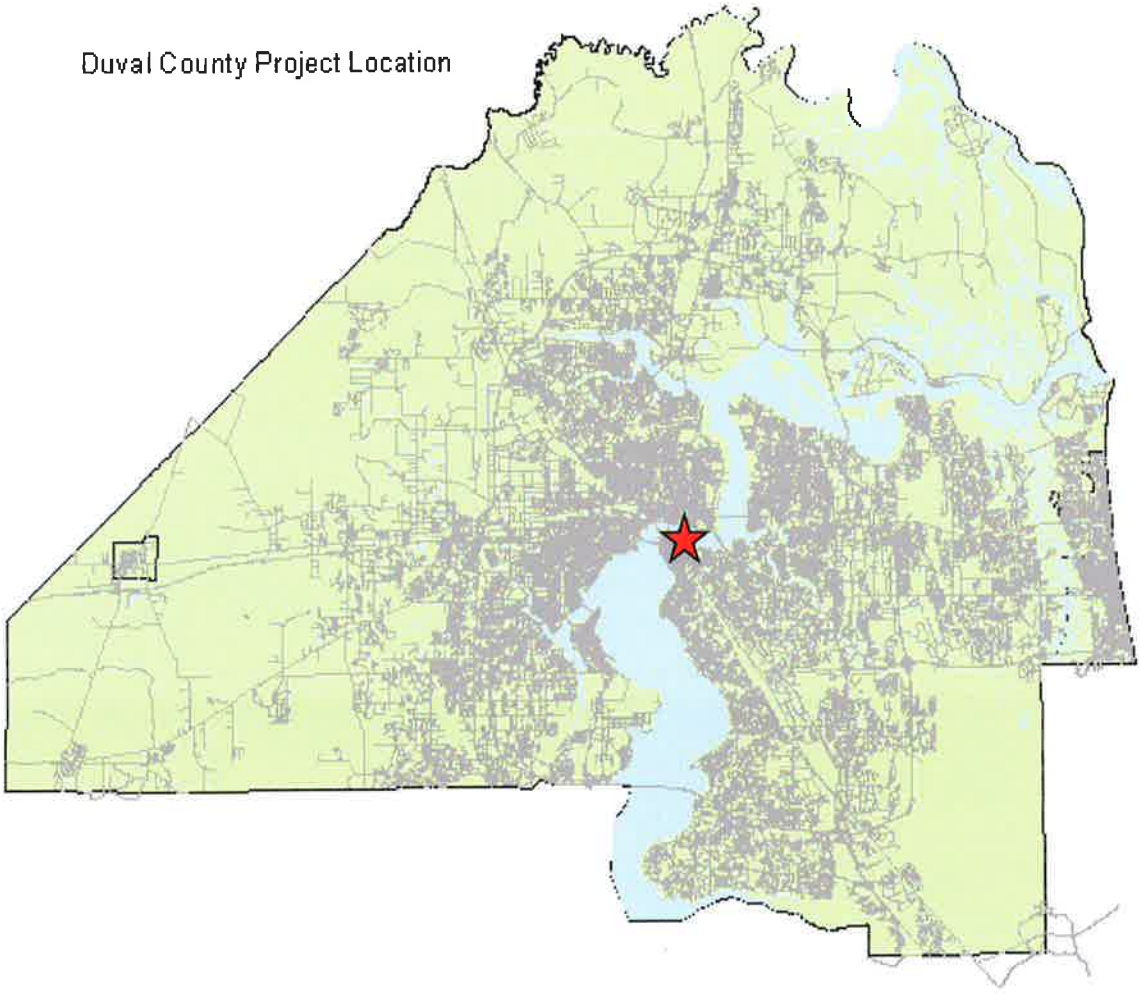
The applicant is to present a detailed timeline on the accomplishment of the components of the proposed project including, as applicable, completion dates for: permitting, design, bidding, applicant approvals, initiation of construction and completion of construction.
NOTE: All funded activities must begin AFTER October 1st
(or be consistent with Rule 66B-2.005(3) - Pre-agreement expenses)

Grants received	October 2016
Grants executed	January 2017
Award Design contract	March 2017
Design Start	April 2017
Permits received	April 2018
Final plans received	August 2018
Grant Close out	September 2018

EXHIBIT 1: COUNTY LOCATION MAP



EXHIBIT 2: CITY LOCATION MAP



Duval County School Board Kayak Launch

EXHIBIT 3: PROJECT BOUNDARY MAP

Duval County School Board Boundary Map



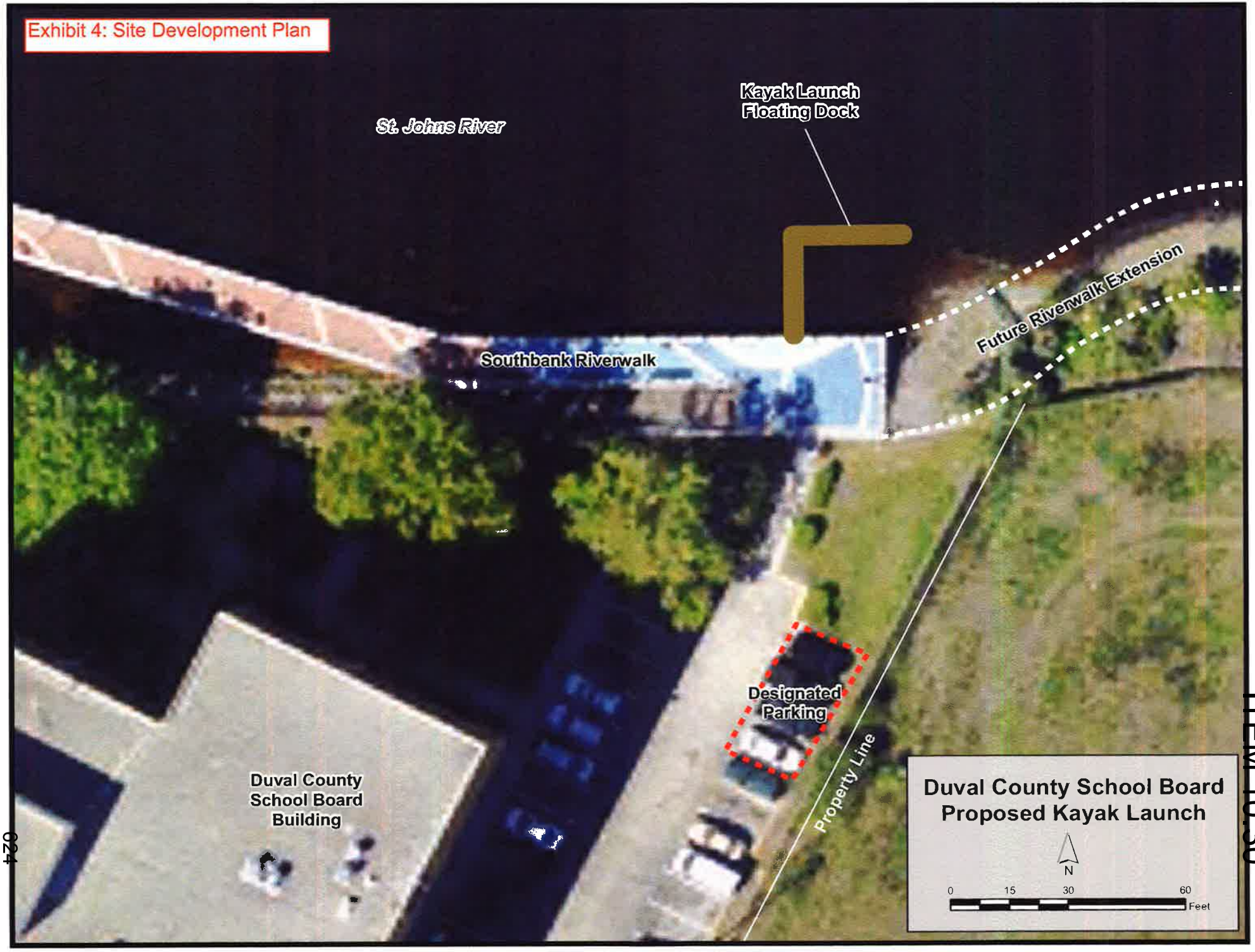


Exhibit 4: Site Development Plan
St. Johns River
Kayak Launch
Floating Dock
Future Riverwalk Extension
Southbank Riverwalk
Designated
Parking
Property Line
Duval County
School Board
Building
Duval County School Board
Proposed Kayak Launch
N
0
15
30
60
Feet