

PALM BEACH COUNTY
BOARD OF COUNTY COMMISSIONERS

AGENDA ITEM SUMMARY

Meeting Date: October 3, 2023 Consent [X] Regular []
Public Hearing []

Department: Water Utilities Department

I. EXECUTIVE BRIEF

Motion and Title: Staff recommends motion to: **A) ratify** the Mayor's signature on the Florida Department of Environmental Protection (FDEP) Resilient Florida Program grant application on August 30, 2023, requesting \$3,407,500 to fund the hardening and adaptation of 16 lift stations to address the risk of flooding in Palm Beach County, in neighborhoods already experiencing significant flooding impacts which would begin upon grant contract execution and end after four (4) years and **B) Delegate** the County Administrator, or designee, the signatory authority on additional forms, certifications, contracts/agreements and amendments thereto, and any other necessary documents related to the FDEP Resilient Florida Program grant that do not substantially change the scope of work, terms or conditions of the agreement.

Summary: FDEP Resilient Florida Program aims to effectively address the impacts of flooding and sea level rise that the state faces. The Palm Beach County Water Utilities Department (PBCWUD) has applied for the FDEP Resilient Florida Program grant to fund the hardening and adaptation of 16 lift stations to address the risk of flooding in Palm Beach County, in neighborhoods already experiencing significant flooding impacts. To meet the grant application deadline, the emergency signature process was utilized because there was insufficient time to submit this application through the regular agenda process. In addition, the County Administrator delegated signing authority to the Deputy Director of PBCWUD. Due to future grant-related items requiring timely execution by the County, staff is requesting Board of County Commissioners approval for the County Administrator or designee to approve grant documents and to act as the designee and liaison for this project. **There is a 50% match required for this grant in the amount of \$3,407,500 which will be funded from a one-time expenditure from Water Utilities user fees, connection fees and balance brought forward. Countywide (MWJ)**

Background and Justification: Continued on Page 3

Attachments:

- 1. Emergency Memo with Application and Notice of Funding Opportunity
- 2. Delegation of Authority
- 3. FDEP Resilient Florida Program Grant Application

Recommended By:

Ali Bayat

9/11/23

Department Director

Date

Approved By:

Wolfgang

9/19/23

Assistant County Administrator

Date

II. FISCAL IMPACT ANALYSIS

A. Five Year Summary of Fiscal Impact:

Fiscal Years	2024	2025	2026	2027	2028
Capital Expenditures	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Operating Costs	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
External Revenues	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Program Income (County)	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
In-Kind Match County	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
NET FISCAL IMPACT	0	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
# ADDITIONAL FTE POSITIONS (Cumulative)	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>

Budget Account No.: Fund Dept Unit Object

Is Item Included in Current Budget? Yes No *

Does this item include the use of federal funds? Yes No

Reporting Category N/A

B. Recommended Sources of Funds/Summary of Fiscal Impact:

*There is no fiscal impact associated with this item. If awarded, an agenda item will be prepared with the grant contract received from FDEP and the budget will be adjusted to reflect the actual award.

C. Department Fiscal Review: *[Signature]* For LRB

III. REVIEW COMMENTS

A. OFMB Fiscal and/or Contract Development and Control Comments:

[Signature] 9/12/23
 MB 9/19
 OFMB 9/14/23
 MB 9/18

[Signature] 9/13/23
 Contract Development and Control
 MB 9/13/23

B. Legal Sufficiency:

[Signature] 9/19/23
 Assistant County Attorney

C. Other Department Review:

 Department Director

This summary is not to be used as a basis for payment.

Continued from Page 1

Background and Justification:

Governor Ron DeSantis signed Senate Bill 1954, now 380.093, Florida Statutes (F.S.). This targeted funding developed a coordinated approach to Florida's coastal and inland resilience and created the Resilient Florida Program which helps prepare communities for the impact of flooding and storm surge. Through this legislation, the Resilient Florida Program Grant Program was created to enhance the department's efforts to protect our inland areas, coastlines and shores. The Resilient Florida Program includes a selection of grants that are available to counties, municipalities, water management districts, flood control districts and regional resilience entities. To effectively address the impacts of flooding and sea level rise that the state faces, eligible applicants may receive funding assistance to analyze and plan for vulnerabilities, as well as implement projects for adaptation and mitigation. This project has been identified in a local vulnerability assessment as a lift station adaptation and hardening project designed to address the risk of flooding in Palm Beach County, in neighborhoods already experiencing significant flooding impacts. This project meets the project types because it: 1) mitigates the threat of flooding by adaptation through adaptation and hardening of lift stations; 2) adapts a critical asset, the lift stations, to mitigate the effects of flooding by elevation of facilities and operating components; and 3) protects operations of wastewater infrastructure.

Attachment 1



Office of Resilience
2300 North Jog Road, 4th Floor
West Palm Beach, FL 33411-2743
(561) 233-2400
FAX: (561) 233-2414
www.pbcgov.com/resilience


■
**Palm Beach County
Board of County
Commissioners**

Gregg K. Weiss, Mayor
Maria Sachs, Vice Mayor
Maria G. Marino
Michael A. Barnett
Marcie Woodward
Sara Baxter
Mack Bernard

County Administrator
Verdenia C. Baker

"An Equal Opportunity
Affirmative Action Employer"

Official Electronic Letterhead

DATE: August 30, 2023
TO: Gregg K. Weiss, Mayor, Board of County Commissioners
THRU: Todd Bonlarron, Assistant County Administrator 
FROM: Ali Bayat, Director, Water Utilities Department
SUBJECT: Authorization to Submit FDEP Resilient Florida Program Implementation Grant Application- WUD Lift Stations

Pursuant to Section 309 of the Administrative Code, Water Utilities Department staff request your approval to delegate authority to the County Administrator or designee to act as an Authorized Organization Representative on behalf of the Board of County Commissioners (BCC) for the online submittal of, and electronic signature on, a grant application for the Florida Department of Environmental Protection (FDEP) Resilient Florida Program implementation grant, which will begin at grant execution and end three (3) years after grant execution.

FDEP Resilient Florida Program aims to effectively address the impacts of flooding and sea level rise that the state faces. WUD aims to apply for \$3,407,500.00 to fund the hardening and adaptation of 16 lift stations to address the risk of flooding in Palm Beach County, in neighborhoods already experiencing significant flooding impacts.



There is a 50% match required for this grant in the amount of \$3,407,500.00. Funding for this match is available from the Water Utilities Department as part of the Integrated Utility Master Plan. The grant application must be submitted through the Resilient Florida Grant Portal no later than September 1, 2023. The emergency signature process is being used due to insufficient time to submit this item through the BCC agenda process. Staff will submit this item at the next available BCC meeting.

Please contact me at (561) 493-6128 with any questions.

Attachments:

1. Grant Application
2. Resilient Florida Program Guidance for Applicants

Reviewed By:


OFMB

County Administration


Assistant County Attorney

Approved By:


Gregg K. Weiss, Mayor

Attachment 2



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
*"An Equal Opportunity
Affirmative Action Employer"*

Official Electronic Letterhead

DATE: August 29, 2023

TO: Verdenia Baker, County Administrator

THROUGH: Todd Bonlarron, Assistant County Administrator

FROM:  Ali Bayat, Director, Water Utilities Department

SUBJECT: Designee Authority for the FDEP Resilient Florida Grant Program Implementation Application- WUD Lift Stations

Through the emergency memo process, the County Administrator or designee was given the authority to submit the application due to time constraints. The County Administrator is assigning the designee as the Deputy Director of the Water Utilities Department to submit the Florida Department of Environmental Protection's Resilient Florida planning grant application.

Approved By:


Verdenia Baker, County Administrator

Attachment 3

Resilient Florida Grant Program- WUD Lift Station Hardening and Adaptation Project

Grant Manager: Jade Greene

Authorized signee: Krystin Berntsen

Fiscal Agent: Ebony Bruton

Eligible Applicant: Palm Beach County

Project Type:

- Coastal flood control
- Cultural or community resource
- **Domestic wastewater infrastructure**
- Drinking water supply
- Emergency facilities
- Land acquisition and conservation
- Living shoreline
- Natural system restoration
- Stormwater infrastructure
- Transportation and evacuation
- **Utilities Infrastructure**
- Preconstruction activities

Metric Assigned: Number of pumps/lift stations replaced and/or added

Metric value: 16

Metric value units: acres, square feet, linear feet, gallons per day, million gallons per day, **NONE**

Project Title: Lift Station Hardening and Adaptation

Cities/Towns/Villages: Palm Beach County

Project Location Lat/Long: Lat / Long: 26.694, -80.167

Project Location Narrative: 16 lift stations located in Palm Beach County.

Area served: Palm Beach County

Sponsor County: Palm Beach County

Total Project Cost: \$6,815,000.00

Total Grant Funding Amount Requested: \$3,407,500.00

Total Grant Match Amount: \$3,407,500.00

2A. **Statement of demonstrated need and how project addresses that need.**

In recent years, flooding at lift stations throughout Palm Beach County has increased jeopardizing their operation with the potential to cause grave environmental and health consequences. Lift stations wet wells and vaults will be elevated to meet Base Flood Elevation (BFE) plus three (3) feet and critical components, such as access hatches, power supply, and instrumentation system will be raised higher relative to the wet well to improve reliability of operation during projected periods of groundwater inundation, storm surge and rainfall-induced flooding. Lift stations will have backup generators which will also be located at elevations above BFE+3ft. The project will

also enhance stormwater management onsite at two of the lift stations through the installation of plantings to create habitat and provide onsite water management benefits.

Explain how the proposed project fits into the Project Types chosen above.

This project has been identified in a local vulnerability assessment, as more fully described in this application, that addresses risks of flooding and sea level rise to coastal and inland communities in the state. This is a lift station adaptation and hardening project designed to address the risk of flooding in Palm Beach County, in neighborhoods already experiencing significant flooding impacts. This project meets the project types because it 1) mitigates the threat of flooding by adaptation through adaptation and hardening of lift stations; 2) adapts a critical asset, the lift stations, to mitigate the effects of flooding by elevation of facilities and operating components; and 3) protects operations of wastewater infrastructure.

Does the project reduce the risk of flooding or sea level rise identified in a comprehensive vulnerability assessment or the comprehensive statewide flood vulnerability and sea level rise assessment? Yes. This project reduces the risk of flooding or sea level rise identified in the PSVA by hardening the identified lift stations. This PSVA models all requirements in Section 380.093(3)(d)2.a-d for the project impact areas including sea level rise, tidal, surge, rainfall, and compound flooding for 2040 and 2070. This is a comprehensive vulnerability assessment per Rule 62-S-8.002(4), F.A.C. that identifies flooding and sea level rise and meets all the required elements in Section 380.093(3)(c) through (d), F.S. The 2023 modeling demonstrates the flood risk this project reduces.

Does the project reduce the risk of compound flooding identified in a vulnerability assessment or the comprehensive statewide flood vulnerability and sea level rise assessment? Yes. This project reduces the risk of compound flooding identified in this PSVA by hardening the lift stations and their components. Compound flood modeling is included in the Vulnerability Assessment and map series. The compound flooding scenarios included (2x) NOAA Intermediate Low & Intermediate High 2040 SLR + adjusted 100 yr & 500 yr storm surge; (2x) NOAA Intermediate Low & Intermediate High 2070 SLR + adjusted 100 yr & 500 yr storm surge; (2x) NOAA Intermediate High 2040 SLR + adjusted rainfall for the 25 yr and 100 yr storm events; (2x) NOAA Intermediate High 2070 SLR + adjusted rainfall for the 25 yr and 100 yr storm events; (4x) Present Day 100 yr and 500 yr storm surge + 25 yr and 100 yr rainfall events; (4x) NOAA Intermediate High 2040 SLR + 100 yr and 500 yr storm surge + 25 yr and 100 yr rainfall events; (4x) NOAA Intermediate High 2070 SLR + 100 yr and 500 yr storm surge + 25 yr and 100 yr rainfall events.

Does the project reduce risk to or adapt a regionally significant asset? Yes. This project reduces risk to several major roadways serving as evacuation routes, various utility infrastructure, health, child and elderly care facilities, emergency management sites, several parks, libraries, and affordable/public housing communities which are all regionally significant assets.

What percent of critical assets in the project impact area are considered to be vulnerable? 100% of the critical assets within the project impact area were impacted by sea level adjusted (NIH) storm surge. Flood scenarios, including sea level rise (NIH and NIL), high tide flooding, rainfall, storm surge, and combination flooding, for present-day and 2040 and 2070 were compared to determine their flooding risk. Maps are attached for the project impact areas and flooding scenarios to show risk based on modeling approaches and assumptions. At-risk critical assets include: bus stops and routes, bridges, evacuation routes, gas stations, aviation facilities, electric facilities, emergency management facilities, water/wastewater treatment facilities, military facilities, mail communications facilities, natural gas and electric utilities, formerly used defense sites, health care facilities, child care centers, schools, government buildings, law and fire services, public housing projects and affordable housing communities, parks and libraries, several surface waters and connected wetland systems and places of worship. Of these assets identified within the project impact area, 100% are considered vulnerable to flooding from a present-day 100 yr (1%) storm surge.

Data Layer	380.093 Asset Group	Vulnerable (Y/N)	Regionally Significant (Y/N)
Bus routes/stops	Transportation	Y	Y
Bridges	Transportation	Y	Y
Evacuation routes	Transportation	Y	Y
Gas stations	Transportation	Y	
Aviation facilities	Transportation	Y	Y
Electric facilities	Critical Infrastructure	Y	Y
Mail communications	Critical Infrastructure	Y	Y
Tower communications	Critical Infrastructure	Y	Y
Natural gas facilities	Critical Infrastructure	Y	Y
Formerly used defense sites	Critical Infrastructure	Y	
Health care facilities	Critical Community	Y	Y
Child care centers	Critical Community	Y	
Schools	Critical Community	Y	Y
Government buildings	Critical Community	Y	Y
Law enforcement	Critical Community	Y	Y
Fire services	Critical Community	Y	Y
Affordable/Public housing	Critical Community	Y	Y
Parks	Critical Community	Y	Y
Libraries	Critical Community	Y	Y
Wetlands/surface waters	Natural, Cultural, and Historic	Y	Y

Does the project contribute to existing flood mitigation projects that reduce upland flood damage costs by incorporating new or enhanced structures or natural system restoration and revegetation? If yes, please explain.

- No
- Yes, by incorporating new or enhanced structure
- Yes, by incorporating natural system restoration and revegetation

- **Yes, by incorporating BOTH new or enhanced structure AND natural system restoration and revegetation**

The project includes new and adapted lift stations as well as planted retention areas at two of the lift stations totaling 0.02 acres). The planted areas will stabilize the soil around the lift stations and prevent stormwater-induced erosion around these critical assets.

Tier 2

What is the current frequency of flooding or erosion in the project impact area?

- No current flooding or erosion
- Has experienced flooding or erosion in the last 3 years.
- **Has been flooded at least 3 times in the last 5 years or is experiencing ongoing erosion. If area has been flooded 3 times in 5 years or is experiencing ongoing erosion, please explain and provide documentation.**

There were at least 5 named storm events that impacted the area over the last 5 years. These storms caused extensive regional flooding as documented in Appendix B; the provided news articles document at least 1 flooding event greater than 1 foot over the last 5 years. The project area also experiences some degree of ongoing erosion based on the USGS SSURGO database.

What is the current severity of flooding or erosion in the project impact area?

- No current flooding or erosion
- Flooding greater than 3 inches in the last 3 years or has ever experienced unmitigated erosion.
- **Flooded greater than 1 foot in the current and each of the previous three calendar years, has been flooded for 7 consecutive days, or erosion is critical for the asset class**

There were at least 5 named storm events that impacted the area over the last 5 years. These storms caused extensive regional flooding as documented in Appendix B; the provided news articles document at least 1 flooding event greater than 1 foot over the last 5 years. Appendix B for more information. The area has experienced widespread loss of 1-25% of the original topsoil.

What is the status of the project design?

- Not designed
- **Partially designed or site-specific environmental or geotechnical reports have been completed**
- Design is complete. To receive points for a completed design, plans properly certified by a professional in the relevant field must be submitted with the application.

Design is completed for 4 of the 16 lift station adaption projects. The remaining 12 lift stations are at 60% design completion with drawings, specifications, and opinion of probable construction cost estimates. Please attached Integrated Utility Master Plan Collection and Distribution Systems excerpt attached.

Permitting and easement acquisition status. If applicable, please provide a list of necessary permits/easements and application statuses.

- **Necessary permits and easements have been identified**
- All permits have been applied for or at least one permit has been approved.
- All necessary permit(s) and easement(s) have been authorized/obtained.
- No permits or easements are required for the project

Permit applications have been submitted for the four (4) 100% design lift stations and the following permits approved but are to be pulled by the Contractor at construction: Palm Beach County Building Department (PR-2022-028295-0000 and PR-2022-028296-0000) and Palm Beach County Land Development (UT62322-0523). Exemption from permitting have been granted to the four (4) 100% design lift stations by the Palm Beach County Health Department, exemption letters are uploaded. The following agencies have been identified to which permit applications will be submitted for the remaining 12 lift stations at the 100% Design Phase: Palm Beach County Health Department, Palm Beach County Building Department, Village of Royal Palm Beach Building Department, and Village of Royal Palm Beach Right-of-Way. Please see the attached upload document on the permitting status for each lift station (16 total).

Are local funding sources committed as cost share or is the project in a financially disadvantaged small community as defined in 380.093(5)(e), F.S.? If yes, please explain and provide documentation.

- Yes
- No

50% cost share is provided as evidenced by the Integrated Utility Master Plan Collection and Distribution Systems document excerpted and attached in the uploads section.

Does the project include environmental habitat enhancement or nature-based solutions? If yes, please explain.

- Yes
- No

Yes, 0.02 acres of stormwater retention plantings will occur at two of the lift stations. These areas will provide both habit enhancement and nature-based solutions for onsite water management benefits.

Does the project impact area include area that is identified as state or federal critical habitat for threatened and endangered species?

- Yes
- No

Yes. The project impact area includes state-designated strategic habitat conservation areas, a shorebird nesting site, and nearby red-cockaded woodpeckers.

Is the project cost-effective? If yes, please explain by marking which of the 5 criteria below applies, in most instances, this will be #1 and that's fine.

- Yes, if yes then by which one of the following
- No

1. **A comparison of contingencies and the estimated total project cost;**
2. Costs of alternative approaches or explanation of why there are no feasible alternative approaches;
3. Avoided economic loss due to failure or inability to operate due to flooding or sea level rise, the project costs compared to costs to repair damage from flooding or erosion, or other reasonably foreseeable losses using industry-standard economic models;
4. Future costs and benefits calculated using the relevant discount rate, net present value, or other metrics measuring future costs and benefits to support the proposal; or
5. The direct and indirect economic value of ecosystem services provided by natural or nature-based solutions.

The budget was developed by engineers and represents their opinion of the probable construction costs (OPCC) based on the current phase of design of each lift station, 60% or 100%.

Tier 3

Is 50% local, state, or federal cost share secured for the project? If 50% cost share has been secured, please provide documentation with the application. FD = City < 10,000 population + per capita income less than census for the state. County < 50,000 + per capita income less than census for the state.

- No (unless the project is in a financially disadvantaged small community)
- Cost share has been identified but not appropriated or released
- **Cost share has been secured**
- The project is in a financially disadvantaged small community and cost share is not required

Cost share is evidenced by the attached Draft Resolution.

Has state funding previously been awarded for the project? If so, for what? Please explain and provide documentation. (Choose all that apply.)

- **None**
- Preconstruction activities (defined in 380.093(2)(c), F.S.) other than design and permitting
- Design
- Permitting
- Construction (previous phases)

Will this project exceed Florida Building Code flood-resistant requirements and local floodplain management regulations? If yes, please outline the specific requirements and details relating to how the design exceeds the criteria.

- No
- Yes
- **These regulations do not apply**

Tier 4

Does this project include innovative technologies designed to reduce project costs and provide regional collaboration? If yes, please specify which technologies will be used and explain why they are innovative as well as how they will reduce cost and provide regional collaboration. For this criterion, "innovative" means an emerging technology or a proven technology used uniquely to adapt one or more critical assets to the effects of flooding or sea level rise.

- Yes
- **No**

Does the critical asset being adapted or the project impact area contain a financially disadvantaged community? If yes, please explain the metric used to determine financial disadvantage (e.g. Local income compared to state average).

- **Yes**
- No

Yes. According to the CDC's social vulnerability index, the following census tracts intersect with the project area and are indexed at greater 50% relative to the greater social vulnerability index: census tracts 78.41, 78.12, 78.13, 78.32, 31.01, 32.02, 32.01, 39.01, 39.02, 40.05, 40.08, 40.07, 38.02, 38.01, 30, 32.02, 31.02, 19.17 and several others. Higher percentages equate to more vulnerable populations considering socioeconomic status, household characteristics, racial and ethnic minority status, and housing type and transportation.

Additional Information

Will this project benefit a spring? No

Will this project protect water resources using alternative water supplies? No

Will this project construct, upgrade, or expand facilities to provide waste treatment? Yes. Lift stations wet wells and vaults will be elevated to meet Base Flood Elevation (BFE) plus three (3) feet and critical components, such as access hatches, power supply, and instrumentation system will be raised higher relative to the wet well to improve reliability of operation during projected periods of groundwater inundation, storm surge and rainfall-induced flooding.

Will this project convert septic to sewer? No

Does this project include green stormwater infrastructure? Yes, 0.02 acres of stormwater retention plantings will occur at two of the lift stations. These areas will provide both habit enhancement and nature-based solutions for onsite water management benefits.

Has this project been submitted to other programs for funding? No

What is the population of the community? 82,170. 2020 Census:
<https://www.census.gov/quickfacts/fact/table/> .

MultiAgency Information

Estimated Project Duration 36 Months

Permitting Necessary permits include Palm Beach County Health Department, Palm Beach County Building Department, Village of Royal Palm Beach Building Department, and Village of Royal Palm Beach Right-of-Way. Some permits are exempt from certain permit requirements, and some have received permits. Please see the attached upload document on the permitting status for each lift station (16 total).

Lands, Easements, Rights of Way None

Critical Infrastructure (Confidential Infrastructure Info) No

Project located in a Coastal Zone? Yes

SLIP Study Required? Yes (Upload SLIP Study output)

Source of Match County funds

Funding Mechanism General Revenue

Local Project Phase Construction

Additional Project Information

Project Summary (75 words):

The project includes adaptation of 16 lift stations, elevating the stations themselves to a flood depth of Base Flood Elevation + 3 (ft) or the 500-year flood elevation, whichever is higher. Access hatches, power supply, and instrumentation systems will be raised relative to the wet well to improve the reliability of operation during periods of inundation, storm surge, and rainfall-induced flooding. Hardened lift stations will have backup generators also elevations above BFE+3ft.

Project Description (300 words):

Palm Beach County Zoning and Building Department under Unified Land Development Code (ULDC) Supplement 22 Article 18 Chapter B considers lift stations Critical Facilities. Lift stations within FEMA Special Flood Hazard Area (SFHA) Zone AE must be elevated to a flood depth of Base

Flood Elevation (BFE) plus three (3) ft or the 500 year flood elevation, whichever is higher. The lift stations in this grant application are slated for major rehabilitation, are located in the SFHA, and are below the required threshold to meet the Critical Facilities requirement. Lift stations, wet wells, and vaults will be elevated to meet BFE plus three (3) feet, and critical components, such as access hatches, power supply, and instrumentation systems will be raised higher relative to the wet well to improve the reliability of operation during projected periods of groundwater inundation, storm surge, and rainfall-induced flooding. Lift stations will have backup generators which will also be located at elevations above BFE+3ft. The failure of these critical facilities during these projected periods will result in serious health issues caused by wastewater overflows in homes and the streets.

Tasks

Task 1: Bidding and contractor selection (required to be included prior to construction if the project includes construction).

Title Other: Contractor Selection

Work performed by: Grantee

Task Description: Palm Beach County will prepare solicitation documents and procure a contractor

Goal: Successfully select a contractor to perform the pre-construction tasks

Time to completion: 1-6 months.

Deliverables:

- Public notice of advertisement for the bid, complete bid package, and written notice of selected contractor(s).

Task 2: Pre-Design or Feasibility Study

Title Other: Pre-construction Engineering and Design

Work performed by: Contractor

Task Description: Contractor will prepare all preconstruction activity, engineering specifications, conceptual and final drawings

Goal: Prepare all procurement documents necessary to begin construction

Time to completion: 2 years

Deliverables:

- Final pre-design documents, feasibility study, or comparable certificate of completion, signed by a Florida-registered Professional Engineer. If applicable, the Sea Level Impact Projection study report.
- Final design documents signed by a Florida-registered Professional Engineer. If applicable, Final permit documents from all appropriate state and federal regulatory agencies.

Task 3: Construction

Title Other: Project Construction

Work performed by: Contractor

Task Description: The construction activity will be commenced and the project constructed according to the final design.

Goal: Prepare all documents necessary to begin construction

Time to completion: 3 years

Deliverables:

- Purchase order(s) and vendor invoice(s) for delivery, installation, and other necessary costs, as applicable.
- Dated color photographs of ongoing work and a signed acceptance of the completed work to date, as provided in the Grantee's Certification of Payment Request.
- Copy of completed monitoring data, surveys, and final reports for the permit-required work, and documentation of submittal to the appropriate state or federal regulatory agencies.

Budget Per Task

Task 1: Bidding

Expense Budget Category: Miscellaneous / Other

Budget Amount: 00.00

Match Amount: 00.00

Task 2: Pre-Design or Feasibility Study

Expense Budget Category: Contractual

Budget Amount: \$ 720,000

Match Amount: \$ 360,000

Task 3: Construction

Expense Budget Category: Contractual

Budget Amount: \$6,095,000

Match Amount: \$3,047,500

Grantee Guarantee

1. Staff person/position- Senior Project Manager
2. Max hours of staff- 40
3. Max hourly rate- \$0

Fringe percentage- \$0