

**STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
GRANT WORK PLAN
DEP AGREEMENT NO.: R2117**

ATTACHMENT 3

I. TITLE PAGE

1. PROJECT TITLE: Floridatown Coastal Resiliency Project Phase II

2. GRANTEE Contact Information:

Organization Name: Santa Rosa County Board of County Commissioners

Name of Authorized Signer: Commissioner Don Salter

Title: Chairman of the Board

Address: 6495 Caroline Street, Suite G

City: Milton, Florida

Zip Code: 32570

Area Code and Telephone Number: 850-981-2018

E-mail Address: @santarosa.fl.gov

3. GRANT MANAGER Contact Information:

Organization Name: Santa Rosa County Board of County Commissioners

Name: Shelley Alexander

Title: Environmental Projects Coordinator

Address: 6495 Caroline Street, Suite G

City: Milton, Florida

Zip Code: 32570

Area Code and Telephone Number: 850-981-2018

E-mail Address: shelleya@santarosa.fl.gov

4. FISCAL AGENT Contact Information:

Organization Name: Santa Rosa County Board of County Commissioners

Name: Jared Lowe

Title: Grants & Special Programs Coordinator

Address: 6495 Caroline Street, Suite G

City: Milton, Florida

Zip Code: 32570

Area Code and Telephone Number: 850-981-2017

E-mail Address: jaredl@santarosa.fl.gov

5. FEID No. (a.k.a. Tax ID#): 59-6000842

Seq No. 005

6. WORK PERFORMED BY: (Select only one)

 Grantee ONLY
 X Subcontractor ONLY
 BOTH the Grantee & Sub-Contractor
 To Be Determined

7. SUBCONTRACTORS CONTACT INFORMATION: *(If applicable & known)*

Organization Name: Jacobs Engineering Group

Name: Daniel L. Broxson, P.E.

Title: Project Manager

Address: 25 W. Cedar St. Suite 350

City: Pensacola

Zip Code: 32502

Area Code and Telephone Number: (850) 396-4927

E-mail Address: Daniel.Broxson@jacobs.com

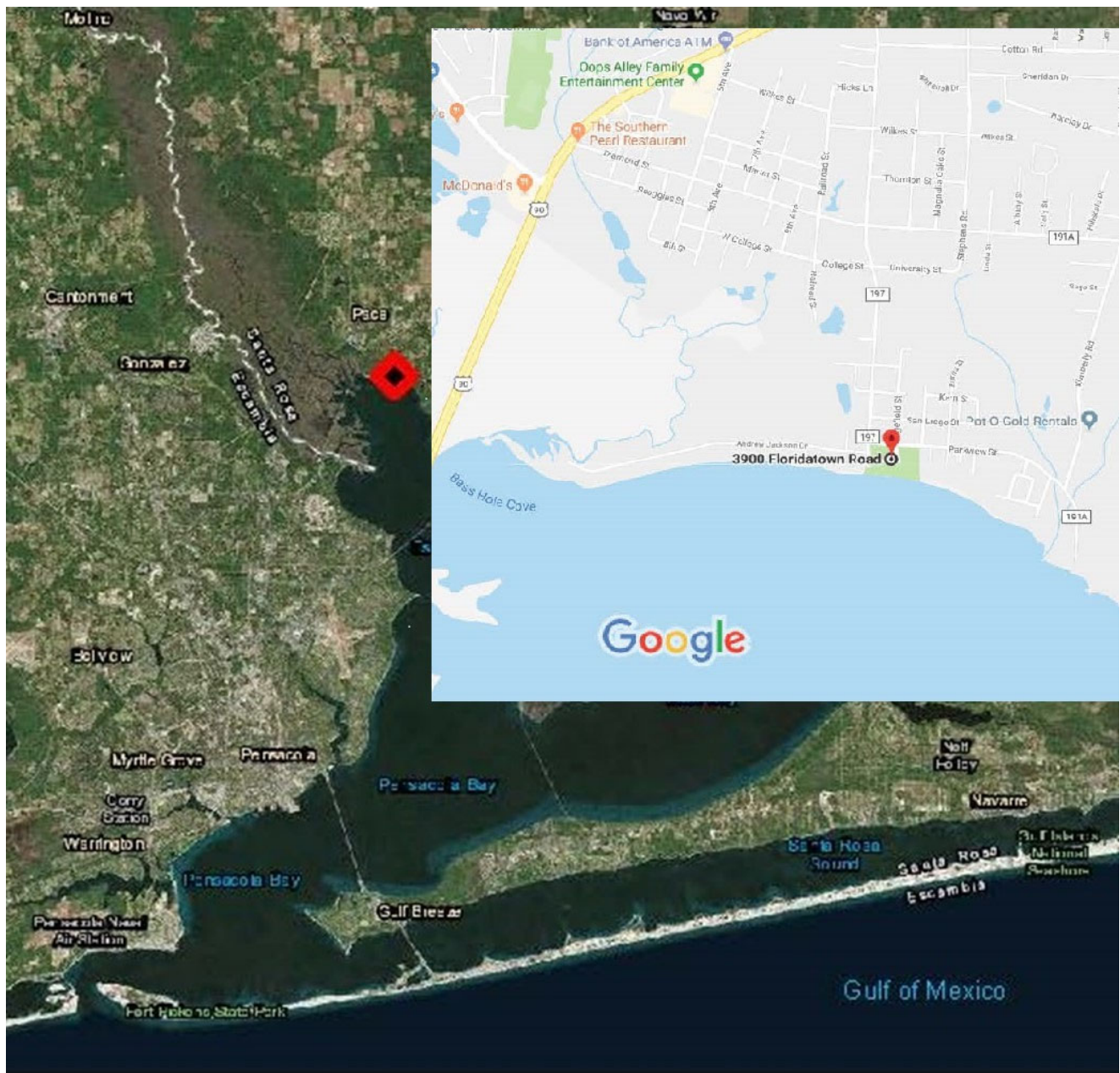
8. PROJECT LOCATION: Site Coordinates: N 30 34' 52.08621" W 87 9' 38.1418"

A. List of County(ies): Santa Rosa County

B. List of City(ies)/Town(s)/Village(s): Pace (Unincorporated)

C. State Lands Lease Agreement Number(s): Not Available at this time because permitting has not been applied for-will be provided with permitting information.
Provide lease agreement number(s) for any work that will be performed on State Lands. If work will not be on any state lands, please indicate N/A.

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II. WORK PLAN

- 9. PROJECT SUMMARY:** As an alternative to armoring the shoreline with traditional methods, Santa Rosa County desires to design and construct a Natural and Nature Based Features (NNBF) shoreline at Floridatown Park on Escambia Bay to prevent and reduce the impacts of large storm surge events on estuarine processes and improve the environmental value of the shoreline. Phase I, funded by a FY 20 RPG grant, includes data collection, analysis and development of a preferred NNBF shoreline concept. This phase proposes to advance the NNBF shoreline design from concept through design to permit application submittal.
- 10. PROJECT DESCRIPTION:** Floridatown Park is located a few miles east of the mouth of the Escambia River and just south of the unincorporated area of Pace, Florida. According the US Census Bureau, from 2000 to 2010 the Pace CDP population growth percentage was 171.1% (from 7,393 people to 20,039 people). The fast-paced growth of this community puts tremendous pressure on its natural resources. Due to historical recurrences of massive storm surge and flooding, this coastal property in Santa Rosa County is being washed away. The traditional response has been construction of fixed structures such as bulkheads, seawalls, and revetments. Hardening a shoreline can interrupt natural shoreline processes, eliminate nursery habitat for marine species and foraging habitat for wading birds, and degrade water quality. The Floridatown Park parcel also contains an important archaeological site that is in jeopardy of being impacted by coastal erosion.

Floridatown Park, owned by Santa Rosa County, provides public boating access facilities and recreational park amenities on Escambia Bay in the Pensacola Bay Estuary Watershed. The parcel of land has approximately 780 feet of linear shoreline that has suffered extensive shoreline erosion from historical hurricane and flood events. As an alternative to armoring the shoreline with traditional methods, this project proposes to design a natural resource-based shoreline protection system.

Phase I of the project will conclude by April 2020. A professional consulting firm with green infrastructure experience is currently conducting planning and analysis activities to assess the specific site conditions and to identify appropriate NNBF shoreline alternatives at this park. Following the planning phase and with public input, the county will select a preferred NNBF shoreline alternative, and a conceptual design and planning level sketch will be developed. This grant application requests funds to advance the project from concept to 90% design. The 90% plans will be used to develop and submit permit applications. These activities are fundamental to establishing a plan for both construction and long-term monitoring.

Santa Rosa County will utilize professional services from the Phase I consulting firm to undertake the activities proposed within this application. Initial project activities will include consultations with regulatory agencies, additional analyses for the most critical design parameters, and determination of final design conditions. Design activities will begin with a schematic design and will advance to 90% design plans sufficient for permit application submission. To the extent practical, some elements of construction may be suitable for implementation by volunteers. Prior to final design, a public meeting will be held to share the design plans with the public and to solicit feedback. An estimate of probable construction cost will be developed, and the permit applications will be submitted for regulatory review. Permit authorizations are expected from the Florida Department of Environmental Protection and United States Army Corps of Engineers. Design plans, at least at the 90% design level, a copy of permit applications, and estimate of probable construction cost will be the final deliverables of this proposed project.

Following permit approval, which may occur beyond the period of performance for this grant, comments received through the regulatory process will be incorporated into the 100% design. The final signed and sealed construction plans will be included in a bid package to solicit to contractors once funds are secured (which is not included in this proposed project).

11. PROJECT NEED AND BENEFIT:

- A. Explain the demonstrated need, which the project addresses.** Innovative approaches such as NNBF shoreline are necessary as our coastal communities and shorelines are facing escalating risks from more powerful storms, accelerated sea-level rise, and changing precipitation patterns that can result in dramatic economic losses. While the threats of these events may be inevitable, understanding how to adapt to the impact is important as we explore how NNBF shoreline solutions will ensure the resilience of our coastal communities and shorelines.

The Floridatown coastal system has both natural and man-made structural features. Wave energy, natural habitat types, geological setting, history of erosion and public use will be assessed prior to determining the conceptual design. The relationships and interactions among these features are important variables in understanding Floridatown's coastal vulnerability, reliability, risk and resilience. This coastal risk reduction of Floridatown can be achieved through engineering a conceptual design that relies on stabilizing the shoreline and reducing current rates of shoreline erosion and storm damage, providing ecosystem services (such as habitat for fish and other aquatic species), increasing flood storage capacity and maintaining connections between land and water ecosystems. In order to determine the most appropriate shoreline protection technique the engineering will consider a geomorphic assessment - completed one year prior - of the Floridatown shoreline to increase its ability to avoid, minimize, withstand, and recover from the effects of powerful storms, accelerated sea-level rise and stormwater runoff. This engineering will incorporate the best available regional and local shoreline science and practices into the siting, design, construction, evaluation and adaptive management of this project.

- B. Explain how the proposed project meets the purpose of one or more of the Goals and Priorities for FRCP.** This project meets the purpose of grant funding priority number four – regional collaboration – as Santa Rosa County is trying to build public support for coastal resiliency planning using a natural resource-based shoreline management and erosion control approach. The projection of Floridatown Park's shoreline is ranked high on the initiative list for the Santa Rosa County Local Mitigation Strategy Task Force – a multi-jurisdictional effort. The project will provide the county a framework process using public input and professional coastal assessment services for the planning of natural resource-based shoreline management and erosion control for individual sites along all its storm surge vulnerable sheltered shoreline properties, natural resources, and amenities used by the public.
- C. Discuss how the project is feasible and can be completed by the grant period deadline.** The analysis necessary for and the development of a conceptual design (Phase I) will be completed in the year prior to this proposed grant project. During this project (Phase II), the engineering of a NNBF shoreline at Floridatown Park using geomorphic trends and stakeholder input will result in a 90% engineered design and the submittal of permit applications by the grant period deadline of April 30, 2021.
- D. Explain how this project is addressing social vulnerability or vulnerability of historic resources or stormwater management systems.** This project will have a long-term, continuous and positive impact on North Escambia Bay - one of the most stressed areas of the entire Pensacola Bay System - by restoring the long-term resiliency of its coastal shoreline natural resources, ecosystems, fisheries, marine and wildlife habitats, recreational, historical, and cultural resources.

- 12. DESCRIPTION OF PROJECT OUTCOMES:** The project will result in a 90% engineered design of the Floridatown Park Coastal Resilient Shoreline Protection System, which can be used for permitting, construction, and as a successful pilot project for other Santa Rosa County shoreline protection projects.

The success of this project will be integrated into revisions of the Santa Rosa County Land Development Code and Comprehensive Plan Coastal Management Element for future coastal resiliency planning and development.

- 13. BUDGET SUMMARY:** Allowable budget categories and form of payment with the costs for this project are listed in the table below.

BUDGET SUMMARY BREAKDOWN

Budget Categories	Payment	Task 1	Task 2	Task 3	Task 4	Task 5	Grant Amount Awarded
Salaries & Fringe	Fixed Price	\$0	\$0	\$0	\$0	\$0	\$0
Contractual Services*	Fixed Price	\$47,000	\$3,000	\$70,000	\$500	\$4,500	\$125,000
GRANT AGREEMENT TOTAL		\$47,000	\$3,000	\$70,000	\$500	\$4,500	\$125,000

- A. Describe how the project costs was determined:** Costs were determined based on Engineering service estimates and cost comparisons for similar projects.

- B. Contractual Services Selection*:** Upon a selected Sub-Contractor(s) (if applicable), the Grantee will Provide a signed certification statement giving a description of the procurement process that was utilized for the selection of the sub-contractors. The description must include:

- a. What procurement process was utilized
- b. Justification as to how & why you made your final selection.
- c. For competitively obtained Sub-Contractor also include:
 - i. A list of all entities that you received bids/quotes from,
 - ii. Names and addresses of those entities that provided bids/quotes,
 - iii. Actual amounts of the bids/quotes that were submitted.

- 14. PROJECT TIMELINE:** All tasks are to be completed and submitted no later than the task/deliverable due date listed in the table below. Requests for any change must be submitted prior to the current task/deliverable due date listed in the project timeline. Requests are to be sent via separate email to the Department's Grant Manager, with the details of the request being made and the reason for the request.

PROJECT TIMELINE

Task No.	Task Title	Deliverable Due Date	Task Amount
1	Decision matrix, technical memorandum, planning level sketches and visualizations for each alternative	09/30/20	\$47,000
2	Presentation of three shoreline protection concepts to the public	10/30/2020	\$3,000
3	Engineering and Design for the preferred alternative	02/01/2021	\$70,000
4	Public meetings on the design plans	02/28/2021	\$500
5	Permit application preparation and submission	04/30/2021	\$4,500
Total			\$125,000

- 15. PERFORMANCE MEASURES:** The Grantee will submit all deliverables for each task via **one pdf document** to the Department's Grant Manager on or before the Task/Deliverable Due Date listed in the Project Timeline. The Department's Grant Manager will review the task/deliverables to verify that they

meet the specifications in the Grant Work Plan and this task description, to include any work being performed by any sub-contractor(s). Upon review and written acceptance by the Department's Grant Manager of all deliverables under this task, the Grantee may proceed with payment request submittal.

- 16. CONSEQUENCES FOR NON-PERFORMANCE:** The Department will reduce each Task Funding Amount by 5% for every day that the task/deliverable(s) is not received on the specified due date in the most recent Project Timeline, for the Agreement. Should a Change Order or Amendment be requested on the date of or after the most current task/deliverable due date, the 5% reduction of that Task Funding Amount will be imposed until the date of the requested change is received, via email by the Department.
- 17. PAYMENT REQUEST SCHEUDLE:** Grantee may submit a request for the Task Funding Amount to be paid using the Exhibit C, after all deliverables for that task have been approved by the Department. Request(s) for payment must include the Exhibit A showing 100% completion of that task and must be submitted within 45 days of the task/deliverable due date. Please refer to the [website Grants page](#) for "How to Request Payment", and "Checklist for Requesting Payment".

Or

Grantee may submit one request for the Grant Amount Awarded, by using the Exhibit C, after the project is 100% completed. The request for the Grant Amount Awarded, must include an Exhibit A showing 100% completion for all tasks, and must be submitted within 45 days of the last task/deliverable due date.

- 18. FUNDING SOURCE:** Grantee agrees to include on all publications, printed reports, audiovisuals (including videos, slides, and websites except that unless required under special terms of this Agreement, this requirement does not apply to audiovisuals produced as research instruments or for documenting experimentation or findings and which are not intended for presentation to the general public) or similar materials must include the DEP logo (which can be found on the Department's website at <https://floridadep.gov/resilience> or by contacting the Department's Grant Manager for a copy) and the following statement on, the following language.

"This work was funded in part through a grant agreement from the Florida Department of Environmental Protection, Florida Resilient Coastlines Program, by a grant provided by the Office of Resilience and Coastal Protection. The views, statements, findings, conclusions and recommendations expressed herein are those of the author(s) and do not necessarily reflect the views of the State of Florida or any of its subagencies."

The next printed line shall identify the month and year of the publication.

III. TASKS & DELIVERABLES

Task #1

- A. Title:** Decision matrix, technical memorandum, planning level sketches and visualizations for each alternative
- B. Goal:** The purpose of this task is to evaluate a matrix of options for protection of the Floridatown Park Shoreline.
- C. Description:** The matrix will be narrowed down by a group of stakeholders to three potential alternatives. Sketches and visualizations of the three alternatives will be developed to use in a public

meeting, and a technical memorandum to document the selection and development of the different alternatives.

D. Deliverable(s): The Grantee will submit all deliverables for each task via **one pdf document** to the Department's Grant Manager on or before the Task/Deliverable Due Date listed in the Project Timeline.

- 1) Decision matrix, in pdf format.
- 2) Technical memorandum, in pdf format
- 3) Planning level sketches and visualization for each alternative, in pdf format.

Task #2

A. Title: Presentation of three shoreline protection concepts to the public

B. Goal: One design alternative

C. Description: A public meeting will be held to get feedback on the three alternatives to select a preferred alternative.

D. Deliverable: The Grantee will submit all deliverables for each task via **one pdf document** to the Department's Grant Manager on or before the Task/Deliverable Due Date listed in the Project Timeline.

- 1) Separate file for each shoreline protection concept to be presented to the public.
- 2) Copies of all workshop/meeting announcements/advertisements
- 3) Agendas and sign-in sheets from each workshop indicating location, date, and time of the meeting
- 4) Presentations and other meeting materials/handouts
- 5) Brief summary report from each workshop/meeting including attendee feedback and workshop outcomes
- 6) Any materials created at each workshop/meeting (as applicable)

Task #3

A. Title: Engineering and Design for the preferred alternative

B. Goal: The preferred alternative will be moved into the design phase.

C. Description: During this phase any additional site information such as additional geotechnical borings will be performed to inform design. Then a draft (90 percent) design will be completed for review with County staff with figures for a public meeting. Comments from the county and public will be incorporated into a final set of contract documents to be used for permitting of the improvements.

D. Deliverable(s): The Grantee will submit all deliverables for each task via **one pdf document** to the Department's Grant Manager on or before the Task/Deliverable Due Date listed in the Project Timeline.

- 1) Summary report of any additional site information performed.
- 2) 90% Engineering plans and designs for one preferred alternative.

Task#4

A. Title: Public meetings on the design plans

- B. Goal:** Present Engineered and Designed preferred alternative to stakeholders
- C. Description:** The draft design will be presented at a public meeting for feedback on the preferred alternative design.
- D. Deliverable(s):** The Grantee will submit all deliverables for each task via **one pdf document** to the Department's Grant Manager on or before the Task/Deliverable Due Date listed in the Project Timeline.
 - 1) Copies of all workshop/meeting announcements/advertisements
 - 2) Agendas and sign-in sheets from each workshop/meeting, indicating location, date, and time of workshop/meeting
 - 3) Presentation(s) and other meeting materials/handouts
 - 4) Brief summary report from each workshop/meeting including attendee feedback and workshop outcomes.
 - 5) Any materials created at each workshop/meeting (as applicable)

Task#5

- A. Title:** Permit application preparation and submission
- B. Goal:** Environmental Resource Permits
- C. Description:** An environmental resource permit will be prepared and submitted to the Florida Department of Environmental Protection to obtain approval for construction of the preferred alternative. Additional permitting through the United States Army Corp of Engineers will also be performed.
- D. Deliverable(s):** The Grantee will submit all deliverables for each task via **one pdf document** to the Department's Grant Manager on or before the Task/Deliverable Due Date listed in the Project Timeline.
 - 1) Permits submitted for approval, in pdf format.
 - 2) Sign-in sheet and notes from any pre-application meeting that is held to discuss the project.