

DEP AGREEMENT NO. R1921
CHANGE ORDER NO. # 1

GRANTEE

City of Fernandina Beach
204 Ash Street
Fernandina Beach, FL 32034

DEP Agreement No. R1921 as entered into on the 15th day of July 2019, is hereby revised as follows:

1. **Attachment 3, Grant Work Plan, Task 2**, Deliverable Due Date, is hereby changed to 4/15/20.
2. **Attachment 3, Grant Work Plan, Task 3**, Deliverable Due date, is hereby changed to 4/30/20.

All other terms and conditions of the Agreement shall remain unchanged.

The parties agree to the terms and conditions of this Change Order and have duly authorized their respective representatives to sign it on the dates indicated below.

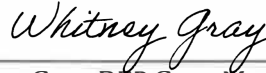
CITY OF FERNANDINA BEACH

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION



Dale L. Martin, City Manager

Date: 1 / 1 0 / 2 0



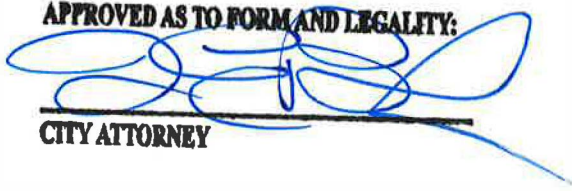
Whitney Gray, DEP Grant Manager

Date: 01/24/2020

ATTEST:

By: Caroline Best
Printed Name: Caroline Best
Title: City Clerk

APPROVED AS TO FORM AND LEGALITY:


CITY ATTORNEY

**STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
GRANT WORK PLAN
DEP AGREEMENT NO.: R1921**

ATTACHMENT 3

Project Title: Increasing Access, Stewardship and Resiliency of Fernandina Beach Coastal Resources

Grantee Contact Information:

Organization Name: City of Fernandina Beach
Authorized Signer for the Organization: Dale L. Martin
Title: City Manager
Address: 204 Ash Street
City: Fernandina Beach
Zip Code: 32034
Area Code and Telephone Number: (904) 310-3101
E-mail Address: dmartin@fbfl.org

Grant Manager Contact Information:

Organization Name: City of Fernandina Beach
Name: Lorelei Jacobs
Title: Grants Administrator
Address: 204 Ash Street
City: Fernandina Beach
Zip Code: 32034
Area Code and Telephone Number: (904) 310-3014
E-mail Address: ljacobs@fbfl.org

Fiscal Agent Contact Information:

Organization Name: City of Fernandina Beach
Name: Pauline Testagrose
Title: Comptroller
Address: 204 Ash Street
City: Fernandina Beach
Zip Code: 32034
Area Code and Telephone Number: (904) 310-3334
E-mail Address: ptestagrose@fbfl.org

FEID No.: 59-6000317

PROJECT LOCATION:



WORK PLAN

- 1. Project Summary:** The “Increasing Access, Stewardship and Resiliency of Fernandina Beach Coastal Resources” project will construct a new 6 X 100 beach dune walkover at City of Fernandina Beach Access Point 5 and place sand fences, pedestrian control lanes, and sea oats at four beach dune areas to increase protective dune accumulations.
- 2. Project Description:** This project will help restore and stabilize four deteriorating dune areas of significant environmental value, which will increase the protective resiliency of the Fernandina Beach dunes against sea water encroachment related to hurricanes and sea level rise. There are three

primary tasks to the “Increasing Access, Stewardship and Resiliency of Fernandina Beach Coastal Resources” project. Task 1, which will commence immediately upon completion of the grant award processes will consist of obtaining the land survey and engineering design plans necessary for the construction of a new large dune walkover at Fernandina Beach Public Beach Access 5. Tasks 2 and 3 will commence immediately after sea turtle nesting season which occurs May 1 – October 31, 2019. Task 2, which will be completed between November 1, 2019 and January 30, 2020, will be the physical construction of a new approximately 6 X 100 foot dune walkover at Beach Access 5. Task 3, which will be completed between February 1, 2020 and April 1, 2020 will be the installation of a minimum of 300 lineal feet of sand fencing in accordance with FDEP guidelines, the planting and continued watering of a minimum of 300 shoots of Sea Oats, and the installation of pedestrian control lanes at Beach Accesses 5, 6, 9, and 10 to support the restoration and new accumulation of dunes in areas proximate to these public beach access points.

3. Project Need and Benefit:

- a. Explain the demonstrated need, which the project addresses.

The City of Fernandina Beach has approximately 4 miles of pristine beaches with 48 public access points. Nineteen of these public beach access points have pedestrian trails through the sand, i.e. dune walkthroughs, and twenty-nine beach access points have constructed dune walkovers.



Access Point 5 Walkthrough



Fernandina Beach Walkover

According to a recent draft *Engineering Documentation Report on Dune Resiliency at the Nassau County Shore Protection Project (SPP)*, the U.S. Army Corp (USACE) of Engineers Jacksonville District:

“The USACE typically recommends placing dune walkovers at all pedestrian access in order to keep people out of the dunes.... The advantage of dune walkovers compared to walkthroughs is that the walkovers allow people to access the berm without impacting the dune and associated vegetation. Dune walkthroughs (especially when they are unmarked) lack controlling features to prevent degradation to the dune and vegetation. This degradation can become significant if the access is heavily trafficked and if the elevation of the walkthrough is eroded enough, it can become a vulnerability to inundation from elevated water levels. Other potential impacts to direct access through the dune include damage to habitat and damage to vegetation. These impacts can be exacerbated if the walkthroughs are not well defined and people are not careful to stay within them.... “This Engineering Documentation Report (EDR) demonstrates that modifying the existing Nassau County SPP to incorporate dune features for increased resilience is consistent with the project purposes and meet the requirements of the Hurricanes Harvey, Irma and Maria Supplemental (HIM Sup) authorization for construction.”

In 1989, during Hurricane Hugo, Fernandina City streets on the northern side of the City suffered extreme flooding from stormwater that encroached through low pedestrian paths of the dune systems. The storm surge caused water to breach the dune systems in the low-lying areas, enter the existing stormwater system, and contaminate the Egans Creek nature area. Flooding in this area prevented the movement of citizens and emergency response operations.

Today, the dune system in this area is much longer and higher. City of Fernandina Beach Maintenance Director Rex A. Lester who has been with the City thirty-three years, estimates that the sand dunes are three-to-ten feet higher than when Hurricane Hugo came by the island. One strategy that has been utilized by the City to support higher sand dunes since 1989 is the installation of 29 beach dune walkovers at public access points to keep beachgoers from creating low-lying walking trails that serve as channels through which sea water can flow during storm surges. Replacing dune walkthroughs with dune walkovers and installing new sand fencing to channel people on planned walking areas away from dunes and sea oats and installing new shoots of sea oats helps eradicate low-lying footpaths which create vulnerability to flooding. Additionally, dune walkovers at public access helps protect the several species of endangered sea turtles which nest each year on local beaches. However, many of the City of Fernandina’s beach walkovers are nearing the end of their functional lives. In fact, three beach walkovers have been recently removed due to safety concerns after an engineering study found them to be unsafe and many others require improvements. Another issue facing City dunes are that at some beach access points with beach walkthroughs, foot traffic is causing ongoing erosion. The costs to repair or replace old dune walkovers, to construct new dune walkovers, and to make modifications to existing dune walkthroughs has become prohibitively high cost for the small population of approximately 12,000 residents of Fernandina Beach. As a result, the City of Fernandina Beach seeks State of Florida Department of Environmental funding assistance for these structures.

- b. Explain how the proposed project meets the purpose of one or more of the Goals and/or Priority Areas.

The Access to Coastal Resources: The installation of a new dune walkover at beach Access 5 and the provision of sand fencing, and sea oat shoots at Access Points 5, 6, 9 and 10 will meet this priority by accomplishing the stated small-scale capital dune walkover priority to accommodate public access to coastal and marine resources.

Coastal Resource Stewardship: The installation of a new dune walkover at beach Access 5 and the provision of sand fencing, and sea oat shoots at Access Points 5, 6, 9 and 10 will meet this priority by promoting stewardship and appreciation of fragile coastal resources through the use of volunteers and by facilitating dune restoration.

Resilient Communities: The installation of a new dune walkover at Public Access 5 and the provision of sand fencing, and sea oat shoots at Access Points 5, 6, 9 and 10 will meet this priority by improving Fernandina Beach's resiliency to coastal hazards through the further development of protective sea dunes by the provision of a newly constructed dune walkover, channels that divert foot traffic onto planned paths, and the planting of sea oats and sand fencing which will serve as anchors to new dune development.

- c. Discuss how the project is feasible and can be completed by the Deadline of May 30, 2019.

Commencement of the construction activities of the "Increasing Access, Stewardship and Resiliency of Fernandina Beach Coastal Resources" cannot take place until after the completion of sea turtle nesting season on October 31, 2019. However, the project Objectives and timelines which will take place from November 1, 2019 to March 1, 2020 (See Section 2: Project Description) will be completed by contracting with vendors committed to meeting the project timelines and by the supervision of the project deliverables by two full-time City supervisors.

4. **Budget Summary:** Allowable budget categories and costs for this project are listed in the table below.

FIXED PRICE	Grant Amount Requested
AGREEMENT TOTAL	\$75,000

- A. **Provide an explanation on what methods were used to determine the amount you are requesting:** Estimate of Project Cost was provided by local engineer who has experience constructing City of Fernandina Beach Walkovers.

5. **Project Timeline:** All tasks are to be completed and submitted no later than the Deliverable due date listed in the table below. Request for any change must be submitted prior to the current deliverable due date listed in the project timeline. Request 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	Survey and Design	10/30/2019	\$8,500
2	Construction of Dune Walkover 5	01/30/2020	\$59,500
3	Installation of Dune Fencing, Planting of Sea Oats and installation of pedestrian control lanes	04/01/2020	\$ 7,000

6. **Performance Measure:** The Department's Grant Manager will review the 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. All deliverable documents must be provided in an electronic downloadable format.

7. **Consequences for Non-Performance:** The Department will reduce each Task Funding Amount by 5% for every day that the 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 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.
8. **Payment Request Schedule:** 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 Deliverable Due Date.

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 Deliverable Due Date.

TASKS & DELIVERABLES

There are three primary tasks to the “Increasing Access, Stewardship and Resiliency of Fernandina Beach Coastal Resources” project.

Task # 1

- A. **Title:** Land Survey of Construction Site at Beach Access Point 5 and Design of Beach Walkover.
- B. **Description:** Task 1, which will be completed between June 30, 2019 and October 30, 2019 will consist of taking all actions necessary to allow construction of the new dune walkover at Beach Access Point 5 to begin immediately after the conclusion of sea turtle nesting season on November 1, 2019. Specific work completed through this task is the land survey of the construction site and engineering design of the new dune walkover.
- C. **Deliverable:** Submittal of the final land survey and walkover engineering design plans.

Task # 2

- A. **Title:** Construction of New Dune Walkover to Replace Beach Walkthrough.
- B. **Description:** Task 2, which will be completed between November 1, 2019 and January 30, 2020, will be comprised of the construction of new dune walkover at public access point 5.
- C. **Deliverable:** A minimum of 5 photos showing the new dune walkover measuring approximately 6 X 101 feet at Public Beach Access 5.

Task #3

- A. **Title:** Installation of Sand Fencing, Sea Oats and Pedestrian Control Lanes
- B. **Description:** Task 3, which will be completed between February 1, 2020 – April 1, 2020, will be the installation of a minimum of 300 lineal feet of sand fencing in accordance with FDEP

guidelines, the planting and continued watering of a minimum of 300 shoots of Sea Oats, and the installation of pedestrian control lanes at Beach Accesses 5, 6, 9, and 10 to support the restoration and new accumulation of dunes in areas proximate to these public access points.

- C. Deliverable:** A minimum of 5 Pictures of the installation new sand fencing, Sea Oats and pedestrian control lanes that increase the protective dune accumulation.