



Aptim Environmental & Infrastructure, LLC.
6401 Congress Avenue, Suite 140
Boca Raton, FL 33487
Tel: +1 561 391 8102
Fax: +1 561 391 9116
www.aptim.com

September 7, 2021

Mr. Eric Charest
Indian River County
Public Works - Coastal Division
1801 27th St.
Vero Beach, FL 32960

**Subject: Indian River County, FL
Sector 5 – 2018029 – Work Order #7
Dune Vegetation Services**

Dear Eric:

This proposal outlines a scope of work for Aptim Environmental & Infrastructure, LLC (APTIM) to provide professional services to Indian River County (the County) in support of dune vegetation services for the Sector 5 Beach and Dune Restoration Project (R-70 to R-86) in Indian River County, which was completed in February 2020.

The scope of work described herein is to support the County by developing a dune vegetation plan that will enhance the Sector 5 project by providing additional dune vegetation services. The tasks to perform this work are listed below and described on the following pages. A breakdown of the hours and expenses to develop the cost is attached. The scope and fee was developed following the provisions of the Professional Services Agreement between Indian River County and APTIM, dated April 3, 2018, to provide engineering and biological support services in support of the Sector 5 Beach and Dune Restoration Project (RFQ# 2018029).

Task 1. Dune Vegetation Design, Plans & Specifications Updates

Scope of Work

The County has requested that the density of the dune vegetation currently in place be doubled. APTIM engineers and biologists will develop a dune vegetation planting plan to maximize the number of plants that can fit in the recently constructed dune with a design that promotes growth and survivability. Dune vegetation is proposed for the entire length of the dune project. Dune vegetation will provide additional storm damage protection by stabilizing the constructed dune and enhance the aesthetic quality of the dune. Dune vegetation also traps windblown sand, which promotes natural dune growth. Vegetation will be planted on the slopes and crest of the new dunes. Plants used in the vegetation design will be native salt tolerant dune species common to the east coast of Florida. Dune vegetation will be designed using native plants that adheres the Florida Department of Environmental Protection (FDEP) guidelines to assist in maintaining the integrity of the dune and reduce erosion.

APTIM will update the construction plans and technical specifications that will provide the necessary details to the Contractor to construct the project, establish payment criteria, and adhere to the permit conditions. It is assumed that the front-end documents will remain the same and the technical



specifications will be incorporated without duplication or conflict in terms and conditions.

Deliverables

APTIM will provide the County an electronic version of the draft plans and specifications for the County's review and comments. Once finalized, we will submit one (1) hardcopy of the construction plans (11"X17") and technical specifications (8.5"x11") to the County. We will also submit an electronic copy of the final version of the construction plans and technical specifications to the County.

Schedule

This task will begin upon approval from the County to proceed with this work order. It is anticipated that 30 days will be required to complete the dune vegetation design. At such time, a draft design will be provided to the County for its review and comments. Once approved by the County, the Sector 5 Plans and Specifications will be updated within 10 days to address any County comments.

Task 2. Construction Administration and Certification

APTIM will provide project management of technical, environmental and administrative tasks necessary to administer the project dune vegetation planting. A representative will observe the dune planting and provide observation reports.

Deliverables

APTIM will provide observation reports following dune planting observations. After completion of vegetation planting, APTIM will prepare a project certification report.

Schedule

The schedule of task specific deliverables is provided in the Scope of Work for this task. An overall fixed schedule cannot be developed as the Contractor's schedule is unknown. APTIM will attempt to execute each phase of the work in as expeditious a manner as possible.

Summary

The total lump sum cost to perform the proposed work described herein for Sector 5 – 2018029 – Work Order #7 is \$48,021. Please refer to Exhibit A, attached to the end of this proposal, for a summary of the costs and labor hours of each Task. APTIM will proceed with the tasks upon receipt of a signed work order from the County (unless stated otherwise in the schedule). APTIM will strive to execute each phase of the work within budget and in as expeditious a manner as possible. We will coordinate with the County if deviations from the scope, schedule or budget arise due to unforeseen issues or circumstances.



Thank you for the opportunity to serve Indian River County. We look forward to continuing to provide expert professional services to the County. Please do not hesitate to call if you have any questions.

Sincerely,

A handwritten signature in blue ink, appearing to read 'N Sharp', written over the printed name.

Nicole S. Sharp, P.E.
Coastal Restoration & Modeling Program Manager
Aptim Environmental & Infrastructure, LLC

Client Authorized Signature

Printed Name

Title

EXHIBIT A
Exhibit A – Summary of Cost and Labor Hours

2020 - REV 20.1



Sector 5 - 2018029 - Work Order #7
Dune Vegetation Services
Indian River County, FL

Summary of Labor Hours and Cost

Labor Title	Labor Bill Rate	Design, Plans, and Specifications		Construction Administration and Certification		Totals	
		Task 1		Task		Labor Hours	Cost
		Labor Hours	Cost	Labor Hours	Cost		
Principal Engineer/Sr Proj Mngr	\$ 250.00		\$ -		\$ -	-	\$ -
Program Manager	\$ 190.00	40	\$ 7,600.00	60	\$ 11,400.00	100	\$ 19,000.00
Sr Coastal Engineer/Proj Mngr	\$ 165.00		\$ -		\$ -	-	\$ -
Coastal Engineer III	\$ 150.00		\$ -		\$ -	-	\$ -
Coastal Engineer II	\$ 125.00	15	\$ 1,875.00	8	\$ 1,000.00	23	\$ 2,875.00
Coastal Engineer I	\$ 105.00	48	\$ 5,040.00	120	\$ 12,600.00	168	\$ 17,640.00
Coastal Modeler II	\$ 130.00		\$ -		\$ -	-	\$ -
Geologist II	\$ 95.00		\$ -		\$ -	-	\$ -
Geologist I	\$ 80.00		\$ -		\$ -	-	\$ -
Senior CAD Operator	\$ 140.00		\$ -		\$ -	-	\$ -
CAD Operator	\$ 105.00	40	\$ 4,200.00	12	\$ 1,260.00	52	\$ 5,460.00
GIS Operator	\$ 105.00		\$ -		\$ -	-	\$ -
Bookkeeper	\$ 80.00		\$ -		\$ -	-	\$ -
Clerical	\$ 71.00		\$ -		\$ -	-	\$ -
Technician	\$ 60.00		\$ -		\$ -	-	\$ -
Mobilization/Travel			\$ 296.00		\$ 2,750.00		\$ 3,046.00
Sub-Contractors	-	-	\$ -	-	\$ -	-	\$ -
TOTAL	-	143	\$ 19,011.00	200	\$ 29,010.00	343	\$ 48,021.00

Submitted By: Nicole Sharp
 Submitted To: Indian River County, FL

EXHIBIT A

REV 20.1



**Sector 5 - 2018029 - Work Order #7
Dune Vegetation Services
Indian River County, FL**

Summary of Cost by Task

Task Number	Task Name	Labor	Sub-contractors	Mobilization/Travel	Totals
Task 1	Design, Plans, and Specifications	\$ 18,715.00	\$ -	\$ 296.00	\$ 19,011.00
Task 2	Construction Administration and Certification	\$ 26,260.00	\$ -	\$ 2,750.00	\$ 29,010.00
Totals =		\$ 44,975.00	\$ -	\$ 3,046.00	\$ 48,021.00

Submitted By: Nicole Sharp
Submitted To: Indian River County, FL