

**INDIAN RIVER COUNTY, FLORIDA  
BOARD MEMORANDUM**

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**TO:** Jason E. Brown, County Administrator

**THROUGH:** Richard B. Szpyrka, P.E., Public Works Director

**FROM:** Eric Charest, Natural Resources Manager

**SUBJECT:** Phase 2 of the Sector 3 Beach and Dune Restoration Project (IRC-2109)  
APTIM, Work Order No. 2018006-12 Construction Administration

**DATE:** September 13, 2021

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**BACKGROUND AND DESCRIPTION**

On January 9, 2018, the Board of County Commissioners (BCC) approved a contract with Aptim Environmental & Infrastructure, LLC (APTIM) for professional coastal engineering and biological support services related to the management and nourishment of the Sector 3 (Wabasso Beach) Beach and Dune Restoration Project. The Sector 3 project area is a critically eroded 6.6-mile section of shoreline that extends from the Seaview Subdivision in the north to just south of the Turtle Trail beach park. The Sector 3 project area sustained erosional damage from Hurricane Matthew (2016), Irma (2017), and Dorian (2019) creating the need for repair.

The Sector 3 Beach and Dune Restoration project was split into two (2) separate projects based on the size and complexity of the project coupled with a limited construction timeline due to sea turtle nesting season restrictions and a start delay caused by an initial bid withdrawal after award. Phase 1 of the project was then competitively bid and awarded, with construction taking place during the 2020/2021 construction time period. Phase 2 of the Sector 3 Beach and Dune Restoration project is anticipated to be constructed during the 2021/2022 construction season. The Engineer's estimate for Phase 2 of the Sector 3 Beach and Dune Restoration project calls for the placement of approximately 280,000 cubic yards of beach compatible sand and the installation of 302,820 native dune plants over the southern 2.9 mile stretch of Sector 3.

The proposed Work Order No. 2018006-12, in the amount of \$419,544.97, provides professional services in support of construction administration and monitoring during construction of Phase 2 of the Sector 3 Beach and Dune Restoration Project.

Task No. 8 of Workorder No. 2018006-12 covers sea turtle monitoring should construction continue into the early part of sea turtle nesting season. Sea turtle nesting season begins March 1<sup>st</sup> in Indian River County. The amount of this task is \$98,636.82 and covers not only sea turtle nest monitoring and protection efforts required under the permit, but also includes nighttime sea turtle monitoring should a nesting Leatherback sea turtle come ashore and nest in the project

area, or within close proximity to the construction area, while construction efforts remain underway. The inclusion of this task in Workorder No. 12 provides these services, but may not be necessary depending on construction schedules and nesting occurrences.

### **FUNDING**

Local funding of Beach Restoration includes a portion of Local Option Tourist Tax Revenue, FEMA project worksheets and FDEP grants. Funding for construction administration services in the amount of \$419,544.97 is budgeted and available for the Sector 3 Beach Nourishment Project in the Beach Restoration Fund/Sector 3 Beach Renourishment/Hurricane Matthew, Hurricane Irma and Hurricane Dorian, Account No. 12814472-066514-17001.

### **RECOMMENDATION**

Staff recommends the BCC authorize Work Order No. 2018006-12 in the total lump sum amount of \$419,544.97. Additionally, staff recommends the BCC authorize the Chairman to execute Work Order No. 2018006-12.

### **ATTACHMENT**

1. APTIM Work Order No. 2018006-12
2. APTIM WO#2018006-12 Execution Agreement

### **APPROVED AGENDA ITEM FOR: SEPTEMBER 21, 2021**