

**INDIAN RIVER COUNTY, FLORIDA
BOARD MEMORANDUM**

TO: Jason E. Brown, County Administrator

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

FROM: Eric Charest, Natural Resources Manager

SUBJECT: **Sector 3 Beach and Dune Nourishment Project – Phase 1 (IRC-1925)
APTIM, Work Order No. 2018006-10, Pre-Construction Services**

DATE: August 4, 2021

BACKGROUND AND DESCRIPTION

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

The Sector 3 Beach and Dune Restoration Project originally bid as one complete project and was scheduled to commence on November 1, 2020. The low bidder of the project at \$17,138,681.81 withdrew their bid from consideration and the second bidder was over \$29,000,000.00 After evaluating the second bid and the timing issue created by the bid withdrawal, Sector 3 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. Phase 1 of the project was competitively bid and awarded to Guettler Brothers Construction on December 1, 2020 for \$11,987,010.00. Due to significant additional erosion that occurred prior to construction starting on Phase 1, the volume of beach compatible sand needed to fill the permit templates was increased by approximately 25%, resulting in a contract amendment being approved by the Board of County Commissioners on February 2, 2021 increasing the cost of the project to \$14,474,110.00.

Due to the increased amount of sand and a hard stop date of April 30, 2021 for sea turtle nesting season, Phase 1 of the Sector 3 Beach and Dune Restoration project was not completed during the 2020/2021 construction season. In order to complete the project and avoid on-beach construction activities during sea turtle nesting season, the contractor will recommence Phase 1 construction during the 2021/2022 construction season beginning November 1, 2021. When complete, Phase 1 of the Sector 3 Beach and Dune Restoration project is estimated to place

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approximately 384,000 cubic yards of beach compatible sand within the northern 3.9 mile stretch of Sector 3. Phase 2 of the Sector 3 Beach and Dune Restoration Project, the southern 2.7 mile stretch, is anticipated to begin nourishment activities in the upcoming 2021/2022 construction season at an Engineer’s estimated cost of \$12,241,216.00.

The proposed Work Order No. 2018006-10 includes three (3) separate tasks pertaining to the pre-construction services required for the completion of Phase 1 of the Sector 3 Beach and Dune Nourishment Project. Task 1 covers a design update for the required volume of sand within the project area based on summer 2021 routine semi-annual beach surveys provided by the County for \$4,040.00. Task 2 covers recommencement coordination with the County and Contractor for \$2,490.00. Task 3 covers late season sea turtle monitoring for \$4,059.30. Work Order No. 2018006-10 is for a lump sum amount of \$10,589.30.

FUNDING

Local funding of Beach Restoration includes a portion of Local Option Tourist Tax Revenue. Funding for the pre-construction monitoring in the amount of \$10,589.30 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.

Account Name	Account No.	Amount
Sector 3 Beach Renourishment	12814472-066514-17001	\$10,589.30

RECOMMENDATION

Staff recommends the BCC authorize Work Order No. 2018006-10 in the total lump sum amount of \$10,589.30. Additionally, staff recommends the BCC authorize the Chairman to execute Work Order No. 2018006-10.

ATTACHEMENT

APTIM Work Order No. 2018006-10
Work Order No. 2018006-10 execution agreement

APPROVED AGENDA ITEM FOR: August 17th, 2021