

**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 2 (IRC2109)
APTIM, Work Order No. 2018006-11, 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 was 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%. This increase resulted 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. When complete, Phase 1 of the Sector 3 Beach and Dune Restoration Project is expected to place approximately 384,000 cubic yards of beach compatible sand within the permit templates.

Phase 2 of the Sector 3 Beach and Dune Restoration project is anticipated to begin construction in the 2021/2022 construction season after a competitive bid and award process. 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 at an estimated cost of \$12,241,216.00.

F:\Public Works\ENGINEERING DIVISION PROJECTS\2109 Sector 3 Beach and Dune Restoration Project - Phase 2\1-Admin\2_Agenda Items\2021.07.09_Sector 3 Phase 2_Pre Con Services

The proposed Work Order No. 2018006-11 includes four (4) separate tasks pertaining to the pre-construction services for Phase 2 of the Sector 3 Beach and Dune Restoration 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 \$8,410.00. Task 2 covers bidding assistance, including a pre-bid meeting, response to bidder questions, and review/recommendation for award of bid for \$4,430.00. Task 3 covers pre-construction submittals and meetings for \$4,210.00. Task 4 covers late season sea turtle monitoring for \$13,556.55. Work Order No. 2018006-11 is for a lump sum amount of \$30,606.55.

FUNDING

Local funding of Beach Restoration includes a portion of Local Option Tourist Tax Revenue. Funding for the pre-construction bid and monitoring services in the amount of \$30,606.55 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	\$30,606.55

RECOMMENDATION

Staff recommends the BCC authorize Work Order No. 2018006-11 in the total lump sum amount of \$30,606.55. Additionally, staff recommends the BCC authorize the Chairman to execute Work Order No. 2018006-11.

ATTACHEMENT

APTIM Work Order No. 2018006-11
Work Order No. 2018006-11 execution agreement

APPROVED AGENDA ITEM FOR: August 17th, 2021