

**INDIAN RIVER COUNTY, FLORIDA
MEMORANDUM**

TO: Board of County Commissioners

THROUGH: John Titkanich, Jr. County Administrator

FROM: Eric Charest, Interim Natural Resources Director

SUBJECT: **Sector 3, Hurricanes Ian and Nicole Dune Renourishment Construction Administration, APTIM Work Order No. 2018006-17**

DATE: October 26, 2023

DESCRIPTION AND CONDITIONS

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 Sector 3 (Wabasso Beach). The Sector 3 project area is a critically eroded 6.6-mile section of engineered shoreline that extends from the Seaview Subdivision south past the Turtle Trail beach park.

The Sector 3 coastline suffered significant storm related losses to the beach and dune system from the impacts of Hurricane Ian on September 28, 2022, followed closely by Hurricane Nicole on November 10, 2022. The impacts of these storms lasted well beyond the initial day of the storm, with the increased wave activity and high surf created by the Hurricanes in the Atlantic Ocean further contributing to beach and dune erosion throughout Sector 3 beaches for several days resulting in extensive areas in Sector 3 experiencing significant dune retreat and beach berm lowering, creating the need for repair.

Staff has recommended on today's BCC meeting (November 7, 2023) that the BCC award Bid No. 2024004 to Dickerson Infrastructure, Inc., dba Dickerson Florida, Inc. for the Sector 3 Hurricanes Ian and Nicole Dune Renourishment project. Should that recommendation be approved by the BCC, Sector 3 beaches would undergo a dune restoration project that would place approximately 274,368 cubic yards of beach compatible sand fill and install approximately 728,633 native dune plants along the shoreline in Indian River County from FDEP range monuments R20 to R55.

As construction activities would be performed in accordance with strict permit requirements, the proposed Work Order No. 2018006-17 from Aptim Environmental and Infrastructure LLC (APTIM) provides professional services in support of construction administration and monitoring during construction of the Sector 3 Hurricanes Ian and Nicole Dune Renourishment Project.

Work Order #2018006-17 includes eight (8) separate tasks pertaining to construction administration services for the Sector 3 Hurricanes Ian and Nicole Dune Renourishment Project. Task one (1) covers APTIM's efforts associated with weekly construction progress meetings throughout Project construction. Task 1 is to be billed at a lump sum cost of \$34,106.80. Task two (2) is for daily construction site observations and technical assistance. Task 2 is a lump sum cost of \$259,605.10. Task three (3) covers construction administration at a cost of \$38,168.00. Task four (4) covers payment review and recommendation for \$11,530.00. Task five (5) covers project close-out for \$7,843.60. Task six (6) covers

the generation of a project report and required certification of construction. Task 6 is a lump sum cost of \$18,144.00. Task seven (7) covers independent check surveys at a lump sum cost of \$6,050.00. Task eight (8) covers construction phase sea turtle and shorebird monitoring at a lump sum cost of \$129,238.46. Work Order No. 2018006-17 for construction administration and oversight services associated with the Sector 3 Hurricanes Ian and Nicole Dune Renourishment project is for a lump sum amount of \$504,685.96.

FUNDING

Although finalized Project Worksheets from FEMA have yet to be received by the County, it is anticipated that partial funding for the Sector 3 Hurricanes Ian and Nicole Dune Renourishment Project will be made available through FEMA, the FDEM, the FDEP Local Government Funding Request Grants, and local funding for beach restoration provided by a portion of Local Option Tourist Tax.

Work Order 2018006-17 is budgeted and available in Coastal Engineering Fund/CIP/Hurricane Ian - Sector 3, Account # 12814472-066514-22601 (22%) and from the Coastal Engineering Fund/CIP/Storm Nicole – Sector 3 account number 12814472-066514-23007 (78%).

Account Name	Account No.	Amount
Coastal Engineering Fund/CIP/Hurricane Ian – Sector 3	12814472-066514-22601	\$111,030.91
Coastal Engineering Fund/CIP/Hurricane Nicole – Sector 3	12814472-066514-23007	\$393,655.05
Total		\$504,685.96

RECOMMENDATION

Staff recommends the BCC authorize Work Order No. 2018006-17 in the total lump sum amount of \$504,685.96. Additionally, staff recommends the BCC authorize the Chairman to execute Work Order No. 2018006-17.

ATTACHEMENT

APTIM Work Order No. 2018006-17
Work Order No. 2018006-17 execution agreement

APPROVED AGENDA ITEM FOR: NOVEMBER 7, 2023