

**INDIAN RIVER COUNTY, FLORIDA
MEMORANDUM**

TO: Board of County Commissioners

THROUGH: John A. Titkanich, Jr., County Administrator

THROUGH: Eric Charest, Interim Natural Resources Director

FROM: Quintin Bergman, Coastal Resources Manager

SUBJECT: **Work Order No. 2018006-18 – APTIM,
2024 Environmental Monitoring - Sector 3 Hurricanes Ian and Nicole
Dune Renourishment**

DATE: February 2, 2024

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 Hurricanes Ian (2022) and Nicole (2022) creating the need for repair.

On November 7, 2023, the BCC awarded Bid No. 2024004 to Dickerson Infrastructure, Inc. dba Dickerson Florida, Inc. for the Sector 3 Hurricanes Ian and Nicole Dune Renourishment Project. The project started construction on December 1, 2023, and is currently still being constructed with an estimated completion date of April 30, 2024. The project consists of a dune restoration project that is placing approximately 274,368 cubic yards of beach compatible sand fill and installing approximately 728,633 native dune plants along the shoreline in Indian River County from FDEP range monuments R20 to R55.

Regulatory permits issued for the beach restoration activities identify post-construction related environmental monitoring to be performed on a set schedule for several years following completion of construction. These environmental monitoring activities are evaluated to demonstrate compliance with permit conditions. In the case of the Sector 3 Hurricanes Ian and Nicole Dune Renourishment Project, post-construction nearshore hardbottom, escarpment monitoring, sea turtle, and shorebird nest monitoring is required.

The proposed Work Order No. 2018006-18, in the amount of \$443,787.09 includes two (2) separate tasks, providing professional services for permit required construction related environmental monitoring for the Sector 3 Hurricanes Ian and Nicole Dune Renourishment Project which includes:

- Task 1: 2024 Nearshore Hardbottom Biological Monitoring (\$172,051.34)
- Task 2: 2024 Escarpment, Sea Turtle, and Shorebird Monitoring (\$271,735.75)

All subsequent annual post construction environmental monitoring of the Sector 3 Hurricanes Ian and Nicole Dune Renourishment Project will be addressed through future work orders.

FUNDING

Although finalized Project Worksheets from FEMA have yet to be received by the County, it is anticipated that partial funding for the post-construction environmental monitoring associated with 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. Funding for post-construction related environmental monitoring (Tasks 1 and 2) is budgeted and available in the Coastal Engineering Fund/Hurricane Ian Emergency Dune Repair account, no. 12814472-033490-22601, in the amount of \$97,633.16, and the Coastal Engineering Fund/Hurricane Nicole Emergency Dune Repair account, no. 12814472-033490-23007, in the amount of \$346,153.93, for a total Work Order No. 2018006-18 cost \$443,787.09.

Account Name	Account No.	Amount
Coastal Engineering Fund/Hurricane Ian Emergency Dune Repair	12814472-033490-22601	\$97,633.16
Coastal Engineering Fund/Hurricane Nicole Emergency Dune Repair	12814472-033490-23007	\$346,153.93
Total Work Order No. 2018006-18:		\$443,787.09

RECOMMENDATION

Staff recommends the BCC to authorize Work Order No. 2018006-18 in the total lump sum amount of \$443,787.09. Additionally, staff recommends the BCC authorize the Chairman to execute Work Order No. 2018006-18.

ATTACHMENTS

1. APTIM Work Order No. 2018006-18
2. Work Order No. 2018006-18 Agreement