

**INDIAN RIVER COUNTY, FLORIDA
BOARD MEMORANDUM**

CONSENT

TO: Jason E. Brown
County Administrator

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

FROM: Kendra Cope, M.S.
Coastal Resources Coordinator

SUBJECT: **Work Order No. 2018006–6, APTIM
Sector 3 Beach and Dune Re-nourishment – Reconnaissance Survey**

DATE: August 2, 2019

BACKGROUND

On January 9, 2018, the Board approved a contract with Aptim Environmental & Infrastructure, Inc. (Aptim) for professional coastal engineering and biological support services related to the management and renourishment of the Sector 3 (Wabasso Beach) beach project area. 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) and Irma (2017) creating the need for repair.

On February 12, 2019 and March 4, 2019 respectively, Aptim submitted permit applications to the USACOE and FDEP. On April 4, 2019 Indian River County received a Request for Additional Information (RAI) from FDEP related to the Sector 3 Project application. The RAI required additional hardbottom delineation through a reconnaissance survey with diver verified transects for the purpose of providing current conditions and the landward limit of the nearshore hardbottom prior issuing a permit. To minimize costs to the County, Staff and Aptim have submitted multiple draft scopes to FDEP for review, requesting feedback on how to provide the minimum amount of information that will adequately identify the current conditions of the nearshore hardbottom resources. Information gathered from this survey will allow Aptim to maximize fill placement while avoiding adverse impacts to the nearshore hardbottom habitat.

DESCRIPTION AND CONDITIONS

The proposed Work Order No. 2018006-6 provides professional services, required for permitting, to complete a reconnaissance survey and habitat characterization report for the Sector 3 Renourishment project. Data collected and analyzed through these services will provide a current status update of the nearshore hardbottom within the project area and will allow Aptim to maximize fill placement in their revised beach fill template while avoiding adverse impacts to the nearshore hardbottom habitat. Work Order No, 2018006-6 is for a lump sum amount of \$96,629.15. Services provided include:

- Side-Scan Sonar
- Diver Verified Hardbottom Survey
- Analysis and Reporting

BCC Agenda Item
Sector 3 Reconnaissance Survey
BCC Agenda Item for August 13, 2019

FUNDING

Local funding of Beach Restoration includes a portion of Local Option Tourist Tax Revenue. Funding for the required reconnaissance survey in the amount of \$96,629.15 is budgeted and available for the Sector 3 Beach Restoration Project in the Beach Restoration Fund, Hurricane Matthew Account - Sector 3, No. 12814472-066514-17001.

State and Federal Cost-Share:

The County entered into grant Agreement No. 17IR2 with Florida Department of Environmental Protection on February 26, 2018, amended by the State on June 22, 2018, which committed up to \$893,102.60 at a 50% cost share ratio for the Sector 3 project area damaged by Hurricane Matthew (2016) and Irma (2017).

The County currently has two Project Worksheets (PW) issued by FEMA for Sector 3 Beach and Dune Re-nourishment. Both the Hurricane Matthew PW #605 and the Hurricane Irma PW #3025 are under FEMA/Environmental Planning & Historic Preservation (EHP) review. Once awarded, this FEMA funding, in the amount of approximately \$6.8 Million, will aid the County in repairing associated storm losses within the project area.

RECOMMENDATION

The recommendation of staff is for the Board to approve Work Order No. 2018006-6 to the contract with Coastal Technology Corporation and authorize the Chairman to sign on behalf of the County.

ATTACHMENT

APTIM Work Order No. 2018006-6

APPROVED AGENDA ITEM FOR: AUGUST 13, 2019