



Agenda Report

2725 Judge Fran Jamieson
Way
Viera, FL 32940

New Business - Development and Environmental Services Group

J.2.

12/6/2022

Subject:

Restoration of Engineered Dunes in South Beaches post Hurricane Nicole

Fiscal Impact:

Approximately \$22,400,000 cost prior to reimbursement of up to 87.5% to be sought through FEMA and state reimbursement

Dept/Office:

Natural Resources Management Department

Requested Action:

It is requested that the Board authorize the following: 1) Execution of a change order not to exceed 25%, with the newly selected sand placement contractor for repair of a portion of Hurricane Ian damage to the South Beaches engineered dune restoration project to also complete a portion of the repair of damage associated with Nicole; 2) Authorize the allocation of ARPA Funding up to \$8.4M, which is currently available in contingency funds and other available ARPA funds resulting from alternative grant awards and/or any necessary General Fund Reserves, 3) the County Manager to execute all contracts and task orders in excess of \$200,000 including construction & maintenance, engineering, and environmental services necessary to complete the projects associated with both Ian and Nicole; 4) staff to seek FEMA and State reimbursement ~~and~~ 5) the County Manager to approve the associated budget change requests; 6) advertisement of a bid for South Beaches engineered dune Hurricane Ian and Nicole restoration and award of contracts to the lowest qualified responsive bidders.

Summary Explanation and Background:

On October 25, 2022 the Board approved an \$8.5 million project to repair damage caused by Hurricane Ian to the South Beaches dune project. On November 10, 2022 Hurricane Nicole caused significant additional damage to the Brevard County Shoreline, including the South Beaches project. Initial inspections of all Brevard County beach projects were completed immediately after Hurricane Nicole. The beach projects performed as designed and protected most upland structures from direct damage by the ocean. However, erosion damage by the storm was significant, approximately three times the erosion observed after Ian. Any necessary maintenance of the federal shore protection project (North, Mid and South Reaches) will be arranged through our Project Cooperative Agreements with the United States Army Corps of Engineers. Repair of damage to the engineered dunes within the South Beaches are being coordinated by the Natural Resources Management Department, and are expected to be eligible for FEMA assistance as a Category G project.

In the South Beaches, approximately 293,000 cubic yards (CY) of material was eroded from the engineered dune during Hurricane Nicole. The dunes were most recently maintained in January-March 2021. The cost estimate to repair damage from Nicole, including sand, dune vegetation, permit compliance and engineering

services is \$22.4M. Pending the potential FEMA category G Declaration, the local share may be 12.5%, after FEMA and FDEM participation. Maintenance of the project is required for FEMA eligibility, and Brevard has completed such maintenance in recent years. After Ian, a construction project for South Beaches restoration was bid, and is structured to allow additional maintenance work to be added under the contract. A change order to that contract will allow repairs to a portion of the damage from Ian and part of the additional damage caused by Nicole to the South Beaches dune system to be repaired begin most promptly. However, because of the much larger scale of repair associated with Nicole, a new bid for the larger Nicole project is also recommended to comply with FEMA procurement requirements. A change order to the hurricane Ian contractor, adding up to 25% to the initial contract quantity, will be sought to begin Nicole repairs and the remainder of Nicole repairs together with the remainder of the Ian repairs will be addressed through the new bid.

A preliminary damage assessment for Hurricane Nicole was submitted to FEMA to pursue a Category G Project Worksheet for funding eligibility. This funding assistance mechanism has been used successfully in the past. If the BOCC would like to pursue repair of the engineered dunes in the South Beaches to the greatest extent possible prior to the 2023 hurricane season, action must begin immediately. Therefore, staff respectfully requests Board authorization for the County Manager to execute a change order with the selected sand placement contractor to repair losses associated with Hurricane Nicole. Authorization is also needed for the County Manager to execute all contracts and task orders including construction & maintenance, engineering, and environmental services necessary to complete the project, and associated budget change requests. The bulk of funding for this work will initially come from the Tourism Development Office Beach Improvement Fund, that portion of the "bed tax" dedicated to beaches, before any state or FEMA reimbursement is received. Because of the combined expense of Hurricanes Ian and Nicole, the beach restoration budget and associated reserves will not be sufficient to fund the immediate expenses incurred by the county. Therefore, authorization is requested for the allocation of ARPA Funding and/or any necessary General Fund Reserve until future tourism beach revenue is available or reimbursement through the FEMA process is received.

Clerk to the Board Instructions:

Work associated with this agenda report is very time sensitive. Once the clerk's memo is complete, please contact Mike McGarry (321-537-1779 or Mike.McGarry@brevardfl.gov) for pickup or email a copy if possible. Thank you.



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December 7, 2022

MEMORANDUM

TO: Virginia Barker, Natural Resources Management Director Attn: Mike McGarry

RE: Item J.2., Restoration of Engineered Dunes in South Beaches Post Hurricane Nicole

The Board of County Commissioners, in regular session on December 6, 2022, authorized execution of a change order, not-to-exceed 25 percent, with the newly selected sand placement contractor for repair of a portion of Hurricane Ian damage to the South Beaches engineered dune restoration project, to also complete a portion of the repair of damage associated with Nicole; authorized the allocation of American Rescue Plan Act (ARPA) funding up to \$8.4 million, which is currently available in contingency funds and other available ARPA funds resulting from alternative grant awards and/or any necessary General Fund Reserves; authorized the County Manager to execute all contracts and task orders in excess of \$200,000 including construction and maintenance, engineering, and environmental services necessary to complete the projects associated with both Ian and Nicole; authorized staff to seek Federal Emergency Management Association (FEMA) and State reimbursement; authorized the County Manager to approve any associated Budget Change Requests; and authorized advertisement of a bid for South Beaches engineered dune Hurricane Ian and Nicole restoration and award contracts to the lowest qualified responsive bidders.

Your continued cooperation is always appreciated.

Sincerely,

BOARD OF COUNTY COMMISSIONERS
RACHEL M. SADOFF, CLERK

Kimberly Powell
Kimberly Powell, Clerk to the Board

cc: County Manager
Finance
Budget