

EXECUTIVE SUMMARY

Recommendation to approve an expenditure of a not-to-exceed amount of \$250,000 for the design and permitting required for the construction of an emergency berm needed for the protection of upland structures left vulnerable by Hurricane Ian in September of 2022 and make a finding that this item promotes tourism (Fund 195, Project No. 50280).

OBJECTIVE: To design and construct an emergency berm for flood protection of upland structures along Collier County beaches.

CONSIDERATIONS: On September 28, 2022, Hurricane Ian passed offshore of Collier County beaches producing extreme waves and storm surge which heavily eroded County beaches and dunes. APTIM Environmental and Infrastructure, LLC, was immediately tasked with surveying the sand losses from the beaches and dunes to determine the necessary repairs needed to re-establish the protection provided to beachfront structures.

During October 2022, representatives from Florida Department of Environmental Protection (FDEP), Federal Emergency Management Agency (FEMA), and US Army Corps of Engineers (USACE) conducted on-site assessments of County Beaches with County staff. All three agencies expressed concern for the heavy dune losses and the vulnerability of upland structures from coastal storm flooding.

APTIM presented preliminary survey results to staff on December 6, 2022, with a recommendation to construct an emergency berm to provide stabilization necessary to replace the destroyed dunes. Preliminary estimates of approximately 550,000 cubic yards of sand will be required to construct the emergency berm for all County beaches with developed properties.

APTIM Environmental and Infrastructure is headquartered in Boca Raton, Florida and was founded in 2002. They have provided professional services to Collier County for nearly twenty years.

GROWTH MANAGEMENT IMPACT: There is no impact to the Growth Management Plan related to this action.

ADVISORY COMMITTEE RECOMMENDATIONS: This item is intended to be presented to the Tourist Development Council at a special meeting to be called at a date yet to be determined in December 2022.

LEGAL CONSIDERATIONS: This item is approved as to form and legality and requires majority vote for approval. – CMG

FISCAL IMPACT: Funding for this work is available in the Tourist Development Tax Beach Renourishment Fund (195) project 50280.

RECOMMENDATION: To approve an expenditure of a not-to-exceed amount of \$250,000 for the design and permitting required for the construction of an emergency berm needed for the protection of upland structures left vulnerable by Hurricane Ian in September of 2022, and make a finding that this item promotes tourism (Fund 195, Project No. 50280).

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