

**INDIAN RIVER COUNTY, FLORIDA
MEMORANDUM**

TO: Michael C. Zito, Interim County Administrator

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

FROM: Laura Leigh Yonkers, P.E., Stormwater Division

SUBJECT: Jones Edmunds WO No. 3 for conceptual re-design of a Stormwater Treatment Facility's headworks at Egret Marsh Stormwater Park

DATE: February 10, 2023

DESCRIPTION AND CONDITIONS

On April 17, 2018, the Board of County Commissioners (BCC) approved the Continuing Contract Agreement for Continuing Engineering Services with Jones Edmunds & Associates, Inc. (JONES) for professional water resource engineering support services. The original contract was for three (3) years with an option for one (1) two-year extension at the County's discretion. This contract was renewed for the additional two (2) year period beginning on April 17, 2021. Staff has requested JONES provide a conceptual design proposal to re-design the headworks for the Egret Marsh Stormwater Park.

The Stormwater Park currently uses an Algal Turf Scrubber (ATS) to remove nitrogen and phosphorus from the Indian River Farms Water Control District (IRFWCD) drainage canals, increasing the County's ability in meeting the Total Maximum Daily Load (TMDL) reductions for nutrients discharged into the Indian River Lagoon as required in the Central Indian River Lagoon Basin Management Action Plan (BMAP). The headwork's distribution system is currently leaking and the current design requires extensive maintenance and repairs. This agenda item is to request the BCC consider JONES WO No. 3 to provide a conceptual re-design of this stormwater treatment facility's headworks to provide a simplified design that will eliminate leaks and reduce maintenance.

JONES WO No. 3 proposes the re-design of the headworks from an underground header pipe system with 114 valves and tees to an above ground trough overflow weir system or similar design. This will provide the ATS with an even distribution of the 10 million gallon per day flow from the Indian River Farms Water Control District Later D drainage canal, while limiting the number of mechanical parts and failure points.

WO No. 3 is billed as a lump sum cost not to exceed \$81,619.00

FUNDING

Funding for professional water resource engineering support services is budgeted and available in the following accounts.

Account Name	Account No.	Amount
Optional Sales Tax/Stormwater/Egret Marsh Manifold System	31524338-066510-21027	\$81,619.00

RECOMMENDATION

Staff recommends that the Board of County Commissioners approve WO No. 3 with JONES for the conceptual re-design of the headworks for the Egret Marsh Stormwater Facility.

ATTACHMENTS

JONES Egret Marsh Headworks Workorder No. 3
Workorder No. 3 Execution Agreement

APPROVED AGENDA ITEM FOR: February 21, 2023