



Cover Memorandum/Staff Report

File #: 23-1130

Agenda Date: 9/18/2023

Item #: 6.J.

TO: Mayor and Commissioners
FROM: Missie Barletto, Director Public Works
THROUGH: Terrence R. Moore, ICMA-CM
DATE: September 18, 2023

APPROVAL OF RESOLUTION 174-23 AND A GRANT AGREEMENT WITH THE STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP GRANT 22FRP134), FOR SUPPLEMENTARY FUNDING UNDER THE RESILIENT FLORIDA PROGRAM FOR THE THOMAS STREET PUMP STATION IMPROVEMENT PROJECT IN THE AMOUNT OF \$2,500,000.

Recommended Action:

Motion to Approve Resolution 173-23 and execute a grant agreement with the State of Florida Department of Environmental Protection (FDEP GRANT 22FRP134), Division of Resilient Florida Program, for supplementary funding for the Thomas Street Pump Station Improvement Project in the amount of \$2,500,000; Project No. 18-017.

Background:

The City of Delray Beach (City) owns and operates the Thomas Street Pump Station located at 1101 Thomas Street in Delray Beach, Florida. This pump station currently provides stormwater pumping for the 50-acre drainage basin including Thomas Street, Vista Del Mar Drive, and part of Andrews Avenue and Lowry Street. The City of Delray Beach Stormwater Master Plan, completed by ADA Engineering in February 2019, proposed capacity increases and other major infrastructure improvements to meet South Florida Water Management District and Level of Service criteria for both current and 30-year Sea Level Rise tidal conditions.

The Thomas Street Pump Station is a vital lifeline for approximately 800 residents living in the 50-acre drainage basin. The original pump station was built in the 1970's and has reached the end of its designed useful life (about 50-years). The original pump capacity was designed for a 25-year, 3-day storm event at the time it was designed, which is 18,000 gallons per minute (GPM). In addition, higher pump capacity is required to meet South Florida Water Management District's (SFWMD) Level of Service (LOS) criteria for both current and 30-year Sea Level Rise (SLR) and tidal conditions. The existing pump station has no backup generator, and its sole power source comes from overhead powerlines, which can render the pump station out of service during frequent outages in peak hurricane season. Finally, the existing pump station does not provide any water quality improvements to the stormwater prior to discharge to the Intracoastal Waterway.

A new 85,000 GPM stormwater pump station will be constructed with an upgraded drainage network, backup generator, diesel fuel tank, buried underground powerlines and onsite water treatment facility. The project is expected to be completed by September 2026. The Public Works Department will be responsible for operating and maintaining the proposed project.

Per the City's Administrative Policies and Procedures Manual, Policy BF-24, Grant Administration Policy and Procedure, all grant applications must be approved by the City Commission. Therefore, Public Works requests the Commission accept the FDEP Grant 22FRP134 and authorize the Mayor to execute the agreement for the City and the City Manager to execute any amendments and/or renewals to effectuate this agreement.

City Attorney Review:

Approved as to form and legal sufficiency.

Funding Source/Financial Impact:

This FDEP Grant is a 50% Matching Grant (\$2,500,000 FDEP and \$2,500,000 City Funds). The FY24 requested funding is \$2,200,000 from the Stormwater Fund, with an estimated \$1,100,000 in grant funds.

Timing of Request:

This request is time sensitive as it keeps the project on schedule.