



COMMISSION MEMORANDUM

TO: Honorable Mayor and Members of the City Commission

FROM: Eric Carpenter, City Manager

DATE: February 3, 2025

TITLE: A RESOLUTION OF THE MAYOR AND CITY COMMISSION OF THE CITY OF MIAMI BEACH, FLORIDA, APPROVING ADDITIONAL ENGINEERING SERVICES FOR THE REHABILITATION OF SEWER PUMP STATION 28, LOCATED AT 300 WEST 28TH STREET, MIAMI BEACH, PURSUANT TO REQUEST FOR QUALIFICATIONS (RFQ) 2022-122-ND FOR ENGINEERING SERVICES FOR WATER AND WASTEWATER SYSTEM PROJECTS BETWEEN THE CITY AND HAZEN AND SAWYER P.C. AND AUTHORIZING A TASK ORDER TO COMPLETE THE ENGINEERING AND CONSULTING SERVICES, REQUIRED FOR THE COMPLETION OF THE PROJECT INCLUDING: (1) POST-DESIGN ENGINEERING SERVICES FOR THE REHABILITATION OF THE SEWER PUMP STATION 28 FOR A NOT TO EXCEED TOTAL PROJECT COST OF \$2,313,220.00, NECESSARY FOR THE COMPLETION OF THE PROJECT SCOPE.

RECOMMENDATION

The Administration recommends approving the Resolution.

BACKGROUND/HISTORY

In December 2021, the City retained Hazen and Sawyer, PC, a Prime Water and Sewer Consultant, to design the rehabilitation of Sewer Pump Station 28 (SPS 28) pursuant to Request For Qualifications (RFQ) 2017-129-KB. The design scope included the rehabilitation and hardening of the existing SPS 28, encompassing the replacement of all mechanical equipment with new components of the same or similar capacity, and a new electrical building that will house electrical equipment, an emergency generator, instrumentation, and controls serving the pump station. The design also included the demolition of the existing electrical building and construction of a new structure. The design was completed in September 2024. The construction bids for the project were received in October 17, 2024.

On March 18, 2020, the Mayor and City Commission (City Commission) approved the Five-Year Critical Needs Capital Plan for the City's water and wastewater system for the design and construction of critical utility infrastructure projects.

On December 1, 2021, the City and Hazen and Sawyer, P.C. entered into a consultant service agreement pursuant to Request For Qualifications (RFQ) 17-129-KB for the design and engineering efforts required for the development of construction plans and specifications for the complete rehabilitation of SPS 28.

On January 20, 2022 the City Commission authorized the issuance of RFQ No.2022-122-ND for Engineering Services for Water and Wastewater System Projects (the RFQ).

On June 22, 2022, the City Commission approved Resolution No. 2022-32175, authorizing the

City to enter into negotiations with Hazen and Sawyer, P.A., and, if successful, execute an agreement with the Consultant pursuant to the RFQ.

On February 8, 2023, the City and Hazen and Sawyer, P.C. entered into an Agreement pursuant to the RFQ, having an initial term of three (3) years, with two (2) one-year renewal terms.

On April 9, 2024 the City conducted an industry workshop to inform the City's contractors of the details and the complexities of the project with the purpose of providing as much information as possible prior to the Invitation To Bid (ITB), to engage a contractor for the construction of the SPS 28.

On August 9, 2024 the ITB was issued to approximately 73,445 companies utilizing the City's e-procurement system.

On October 18, 2024 the City received the bid responses. The lowest responsive and responsible bidder meeting all ITB terms, conditions and specifications was Poole & Kent Company of Florida, a State of Florida, certified as an Underground Utility and Excavation Contractor, with a bid contract cost of \$43,912,000.00 (including \$1,275,025.00 in allowances). A Request For Approval To Award A Contract to Poole & Kent Company of Florida is being submitted to the City Commission on February 3, 2025, as a separate item.

The Administration would like to engage Hazen & Sawyer P.C, to complete the engineering and consulting services required for the completion of the SPS 28 Rehabilitation Project, including post-design engineering services for a not-to-exceed total project cost of \$2,313,220.00 as reflected in their proposal of scope of services (Attachment A).

ANALYSIS

The City owns and operates SPS 28, located at 300 West 28th Street, Miami Beach, considered the City's largest lift/booster sewer pump station in the City.

SPS 28 serves as a critical component of the overall sewer collection and transmission system, encompassing the sanitary sewer service areas for all Middle and North Beach, as well as surrounding municipalities, including Surfside, Bay Harbor Islands, and Bal Harbour.

SPS 28 conveys flow from the entire middle and northern portion of the City to the south, for treatment at the Miami-Dade County Central District Wastewater Treatment Plant, in Virginia Key.

SPS 28 consists of:

- A "booster station" (PS 28B), one of two regional booster stations in the City, with three pumps that repump sewage from upstream basins. PS 28B is an in-line booster station
- A "lift station" (PS 28L), with three pumps that pump sewage from a local gravity collection system. PS 28L has a wet/dry well configuration and discharge piping is manifolded to the discharge side of the 28B pumps.

SPS 28 also has an above-ground electrical building that houses controls, electrical equipment, and an indoor diesel emergency generator. An odor control system is also present at the site.

In 2019, the rehabilitation of SPS 28 was identified as a Critical Need. Recommendations included a complete rehabilitation to ensure reliability, upgrades to the mechanical, electrical, and instrumentation equipment that has reached the end of its useful life as well as a structural rehabilitation.

Over the last few years, SPS 28 has experienced the following malfunctions:

- In 2020: A force main break and malfunction
- In 2023: One of three pumps malfunctioned (with a corrective action plan submitted to Miami-Dade County)
- In 2024: The second of three pumps at SPS 28B malfunctioned (the Operations team was able to troubleshoot the pump and get the booster back online within days)

The malfunctions as stated above can and will trigger moratoriums if quick action for repair is not taken. In the event of a moratorium, all areas in Middle and North Beach as well as the Satellite Cities the City serves (Surfside, Bay Harbor Islands, and Bal Harbour) will be affected. Additionally, developers or residents proposing flow increases to the sewer system in their properties within these areas, will not be issued a Miami-Dade County Permit to connect to the system until the moratorium has been lifted. Further, complete failure of PS 28 could potentially result in significant raw sewage discharge into the City's environmental resources, causing severe public health impacts.

The City was awarded a Florida Commerce (formally known as the Department of Economic Opportunity) grant in December of 2021 in the amount of \$5,000,000 with the City matching \$1,500,000.00 to be used for the construction and hardening of SPS 28B and SPS 28L. This grant will fund improvements such as: the replacement of the SPS 28 generator, installation of new ventilation and HVAC systems, improvements to site accessibility, efforts to stormproof and harden the station with the installation of hurricane proof windows and doors, watertight hatches, soundproofing, etc., and assist in funding the demolition and construction of a new and elevated electrical building.

FISCAL IMPACT STATEMENT

This project is funded as part of Capital Project No. 20619 Wastewater Pump Stations Rehabilitation, as identified in the 2019 Water and Sewer Master Plan and Five-Year Critical Needs Projects.

The total project budget for the post design services is \$2,313,220.00. This project will include the post design and construction services related to the complete rehabilitation of the SPS 28 under RFQ 2022-122-ND.

FINANCIAL INFORMATION

Subject to approval from the Capital Budget Amendment: \$2,313,220.00

CONCLUSION

In order for the City to advance with the rehabilitation of the sewer Pump Station 28, the Administration recommends that the Mayor and City Commission adopt the Resolution approving the Task Order with Hazen & Sawyer P.C.

Applicable Area

South Beach

Is this a "Residents Right to Know" item, pursuant to City Code Section 2-17?

Yes

Is this item related to a G.O. Bond Project?

No

Department

Public Works

Condensed Title

Approve Additional Engineering Services for Rehabilitation of Sewer Pump Station 28. PW

Previous Action (For City Clerk Use Only)