



COMMISSION FILE NO: 25-024-2 **DATE INTRODUCED:** February 10, 2025

INTRODUCED BY: Executive Director (Signature on File in the Office of the Commission)

REFERRED BY COMMISSION CHAIRPERSON TO: Operations Committee

RELATING TO: Change Order Request, Contract C03014D01, Engineering Services – Greenfield Park and Underwood Creek Pump Stations Upgrades, and Restore Executive Director’s Original Delegated Authority

SUMMARY:

The Commission is requested to authorize the Executive Director to execute a change order to Contract C03014D01, Engineering Services – Greenfield Park and Underwood Creek Pump Stations Upgrades, with Applied Technologies, Inc., (ATI) in an amount not to exceed \$34,571 and to restore the Executive Director’s original delegated authority.

The Greenfield Park and Underwood Creek Pump Stations were constructed in 1981 and 1984 to provide wet weather protection to the local communities of Wauwatosa, Elm Grove, Brookfield, and New Berlin. The Greenfield Park Pump Station is in Greenfield Park, east of South 124th Street, south of West Greenfield Avenue. The Underwood Creek Pump Station is located on West Underwood Parkway, north of West Bluemound Road. These pump stations operate during wet weather events by pumping sanitary sewer flow through a force main to a large diameter District sewer to prevent upstream sanitary sewer overflows (SSO’s) and basement backups. Failure of these pump stations during a wet weather event would increase the risk of SSO’s and basement backups.

ATTACHMENTS: BACKGROUND KEY ISSUES RESOLUTION
FISCAL NOTE S/W/MBE OTHER _____

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01-17-25*

COMMITTEE ACTION: _____ **DATE:** _____

COMMISSION ACTION: _____ **DATE:** _____

SUMMARY (Cont'd)

Change Order Request, Contract C03014D01, Engineering Services – Greenfield Park and Underwood Creek Pump Stations Upgrades, and Restore Executive Director's Original Delegated Authority

In 2021, District and Veolia Water Milwaukee staff performed condition assessments of the pump stations and identified various equipment in need of rehabilitation or replacement. The Greenfield Park Pump Station is equipped with four 3,700-gallon-per-minute (GPM) pumps, while the Underwood Creek Pump Station is equipped with five 5,900-GPM pumps. All pumps are original to the pump stations and over 30 years old. These assessments determined that the pumps and associated valves have three to five years of remaining service life, and other mechanical, electrical, and instrumentation and control equipment has reached the end of its service life.

Staff developed Project C03014 to rehabilitate or replace equipment within the pump stations to ensure continued reliable operation of the pump stations, restore the service life of equipment, upgrade functionality, improve performance, decrease operation and maintenance costs, and increase energy efficiency.

In June 2022, the Commission authorized the Executive Director to enter into Contract C03014D01, Engineering Services – Greenfield Park and Underwood Creek Pump Stations Upgrades, with ATI in an amount not to exceed \$492,000. ATI's scope consists of:

- Project management.
- Performing preliminary and final design.
- Developing bid and contract documents.
- Providing bid and award services.
- Engineering services during construction.
- Preparing operations and maintenance manual updates.
- Providing training during startup.
- Performing applications engineering.

The scope is all relative to performing upgrades to these two pump stations as previously described.

The Greenfield Park Pump Station has two separate electrical power feeds from We Energies to provide backup power if power is temporarily lost on one of the feeds. The Underwood Creek Pump Station also has two We Energies power feeds plus a 25-year-old inoperable diesel generator. In October 2024, We Energies notified the District that they could no longer guarantee backup power feeds to District-owned pump stations unless the District agreed to pay a substantial cost for dedicated reserve power. As a result, District staff recommends updating the project scope to include backup power generators at both the Greenfield Park and Underwood Creek Pump Stations. District-owned generators would eliminate the need to rely on We Energies for backup power in the event of a power outage.

SUMMARY (Cont'd)

Change Order Request, Contract C03014D01, Engineering Services – Greenfield Park and Underwood Creek Pump Stations Upgrades, and Restore Executive Director's Original Delegated Authority

The proposed change order includes providing engineering services for all project phases related to adding backup power generators at both pumping stations, except for the preliminary design phase. The preliminary design work has already been added to the scope of services through a previously executed change order by staff.

As this contract progressed, several change orders have been executed to address additional scope items necessary to complete the project. Previously authorized change orders include:

- Additional effort to calibrate the District's conveyance system hydraulic model.
- Additional pump motor and vibration testing to confirm the condition of the existing pumps.
- Final design services for heating, ventilation, and air conditioning upgrades to improve National Fire Protection Association 820 compliance of the pump stations.
- Preliminary design services to install backup generators for emergency power at both pump stations.
- Services to investigate the ability to comply with Build America Buy America requirements and incorporate requirements into bid and construction contract documents.

SUMMARY (Cont'd)

Change Order Request, Contract C03014D01, Engineering Services – Greenfield Park and Underwood Creek Pump Stations Upgrades, and Restore Executive Director's Original Delegated Authority

CONTRACT COST CHANGES

	AMOUNT	PERCENTAGE INCREASE OVER ORIGINAL CONTRACT	AUTHORIZED BY	SWMBE
Original Contract	\$492,000	-	Commission	93.9%
Previous Change Orders	\$138,882	28.2%	Executive Director and Commission	106.6%
Requested Change Order	\$34,571	7.0%	Request of Commission	100.0%
Total Change Orders	\$173,453	35.3%		105.3%
TOTAL	\$665,453			96.9%

For engineering service contracts less than \$500,000, the Commission has delegated to the Executive Director the authority to make changes up to \$50,000. To date, the Executive Director has utilized \$48,626 of this authority (which was restored under prior Commission authorization), leaving a balance of \$1,374. The request to restore the Executive Director's authority is in case any additional changes beyond the remaining Executive Director's authority are necessary. Without this restored authority, work may need to stop while staff obtains necessary change order authority from the Commission.

RESOLUTION

Change Order Request, Contract C03014D01, Engineering Services – Greenfield Park and Underwood Creek Pump Stations Upgrades, and Restore Executive Director’s Original Delegated Authority

RESOLVED, by the Milwaukee Metropolitan Sewerage Commission, that the Executive Director is authorized to execute a change order to Contract C03014D01, Engineering Services – Greenfield Park and Underwood Creek Pump Stations Upgrades, with Applied Technologies, Inc., in an amount not to exceed \$34,571, and that the Executive Director’s original delegated authority is restored.