

COMMISSION FILE NO: 19-018-2 **DATE INTRODUCED:** February 11, 2019

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

REFERRED BY COMMISSION CHAIRPERSON TO: Operations Committee

RELATING TO: Contract J01013D01, Engineering Services – Preliminary Treatment Electrical Upgrade at Jones Island Water Reclamation Facility

SUMMARY:

The Commission is requested to authorize the Executive Director to execute on behalf of the District Contract J01013D01, Engineering Services – Preliminary Treatment Electrical Upgrade at Jones Island Water Reclamation Facility (JIWRF), with Donohue & Associates, Inc., in an amount not to exceed \$392,996. Donohue & Associates, Inc., was the highest scoring proposer based on a qualifications-based selection method among five proposals received.

The Preliminary Treatment Building at JIWRF contains the following equipment:

- Influent screens
- High and low level screw pumps
- Grit processing equipment
- Heating and ventilation equipment
- Electrical equipment to distribute and control power
- Lighting
- Ancillary support equipment

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

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COMMITTEE ACTION: _____ **DATE:** _____

COMMISSION ACTION: _____ **DATE:** _____

SUMMARY (Cont'd)

Contract J01013D01, Engineering Services – Preliminary Treatment Electrical Upgrade at Jones Island Water Reclamation Facility

The Preliminary Treatment Building was designed and constructed in the early 1980's, prior to the first edition of National Fire Protection Association (NFPA) 820 "Standard for Fire Protection in Wastewater Treatment and Collection Facilities" in 1990. NFPA 820 establishes standards for "construction, ventilation, and electrical installation in wastewater...facilities for protection against fire and explosion hazards". Although the Wisconsin Administrative Code has not adopted NFPA 820 as a reference standard, NFPA 820 is widely accepted by engineering professionals as a guide for the design and construction of wastewater facilities. There are several areas in the Preliminary Treatment Building that do not presently meet the standard, as they were designed and constructed prior to the standard being in place.

In addition, some of the electrical equipment within the facility is over 30 years old and is nearing the end of its useful services life. To reduce safety risks and to replace aging equipment, staff recommends updating and replacing various electrical equipment within the Preliminary Treatment Facility. Equipment recommended to be upgraded includes the following: alternating current induction motors, electrical distribution panels, control stations, lighting equipment, bridge crane equipment, and associated seal off fittings and other ancillary equipment.

In addition to the work related to NFPA 820, staff proposes to replace all building lighting with light emitting diode technology to save energy and to replace five motor control centers due to age and lack of spare parts availability.

Under Contract J01013D01, the consultant will:

- Provide engineering services for design of electrical upgrades and replacements.
- Prepare plans and specifications.
- Perform construction bid and award services.
- Provide engineering services during construction.

After the design work is complete, the District will publicly bid the construction contract.

The duration for this contract is approximately 46 months.

RESOLUTION

Contract J01013D01, Engineering Services – Preliminary Treatment Electrical Upgrade
at Jones Island Water Reclamation Facility

RESOLVED, by the Milwaukee Metropolitan Sewerage Commission, that the Executive Director is authorized to execute Contract J01013D01, Engineering Services – Preliminary Treatment Electrical Upgrade at Jones Island Water Reclamation Facility, with Donohue & Associates, Inc., in an amount not to exceed \$392,996.