

Orange County Sanitation District



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Agenda Report Details (With Text)

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Title: 480 VOLT CABLE REPLACEMENT AT PLANT NO. 2 HEADWORKS, PROJECT NO. MP-509
Sponsors: Kathy Millea
Indexes:
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Attachments: 1. Agenda Report, 2. MP-509 Contract Agreement, 3. File Summary

Date	Ver.	Action By	Action	Result
12/18/2019	1	BOARD OF DIRECTORS		
12/4/2019	1	OPERATIONS COMMITTEE	Recommended for Approval	

FROM: James D. Herberg, General Manager
Originator: Kathy Millea, Director of Engineering

SUBJECT:

480 VOLT CABLE REPLACEMENT AT PLANT NO. 2 HEADWORKS, PROJECT NO. MP-509

GENERAL MANAGER'S RECOMMENDATION

RECOMMENDATION:

- A. Receive and file Bid Tabulation and Recommendation for 480 Volt Cable Replacement at Plant No. 2 Headworks, Project No. MP-509;
- B. Award a Construction Contract to Mass. Electric Construction Co. for 480 Volt Cable Replacement at Plant No. 2, Project No. MP-509, for a total amount not to exceed \$434,327; and
- C. Approve a contingency of \$86,865 (20%).

BACKGROUND

The Orange County Sanitation District (Sanitation District) Headworks lifts sewage from the collections system into the Treatment Plant and provides vital preliminary treatment to all incoming wastewater by removing trash and debris that would otherwise damage downstream treatment equipment.

Electrical cables provide the energy to pumps, fans, augers, meters, and other equipment to make this process function correctly. These cables are routed through underground ducts to connect the

motor control centers to devices. These cables are subject to wet conditions. Any deterioration of the cable insulation can result in short circuit or ground fault conditions, which puts the associated equipment out of service.

RELEVANT STANDARDS

- Comply with California Public Contract Code Section 20103.8, award construction contract to lowest responsive, responsible bidder
- 24/7/365 treatment plant reliability

PROBLEM

Recently, electrical cables to some critical Headworks process equipment have failed which resulted in equipment being out of service.

PROPOSED SOLUTION

Award a construction contract for 480 Volt Cable Replacement at Plant No. 2 Headworks, Project No. MP-509, to install new power and control cables in existing spare conduits to repower 13 affected pieces of equipment. Staff is requesting a contingency of 20% for this project to accommodate additional work that may arise if additional cables are found to be defective. The bid prices included unit prices for additional work that might be needed.

TIMING CONCERNS

Critical Headworks equipment, currently out of service, needs to be in operation for reliable wastewater treatment.

RAMIFICATIONS OF NOT TAKING ACTION

The failed equipment would remain out of service which would greatly reduce treatment reliability.

PRIOR COMMITTEE/BOARD ACTIONS

N/A

ADDITIONAL INFORMATION

The Sanitation District advertised Project No. MP-509 for bids on September 12, 2019 and September 19, 2019, and five sealed bids were received on October 15, 2019. A summary of the bid opening follows:

Engineer's Estimate \$ 700,000

Bidder Amount of Bid

Mass. Electric Construction Co.	\$ 528,838
Inter-Pacific, Inc.	\$ 548,394
GA Technical Services, Inc.	\$ 686,946
Leed Electric, Inc.	\$ 829,732
CSI Electrical Contractors, Inc.	\$ 850,600

The bid prices listed above include additive bid items with unit prices. The intent of the additive bid items is to provide competitive prices upfront for potential required changes. The actual award value does not include the additive bid items.

The bids were evaluated in accordance with the Sanitation District's policies and procedures. A notice was sent to all bidders on November 13, 2019, informing them of the intent of the Sanitation District to recommend award of the Construction Contract to Mass. Electric Construction Co.

Staff recommends awarding a Construction Contract to the lowest responsive bidder, Mass. Electric Construction Co., for a total amount not to exceed \$434,327.

CEQA

The project is exempt from CEQA under the Class 1 categorical exemptions set forth in California Code of Regulations sections 15301 because the project involves minor replacement of existing facilities involving no expansion of use or capacity. A Notice of Exemption will be filed with the OC Clerk-Recorder after the Sanitation District's Board of Directors approval of the construction contract.

FINANCIAL CONSIDERATIONS

This request complies with authority levels of the Sanitation District's Purchasing Ordinance. This recommendation will be funded under the Repairs and Maintenance line item for the Operations and Maintenance Department (Budget Update, Fiscal Year 2019-20, Page 47). The budget is sufficient for the recommended action.

ATTACHMENT

The following attachment(s) may be viewed on-line at the OCSD website (www.ocsd.com) with the complete agenda package:

- Construction Contract

SP:dm:sa:gc