



Legislation Details (With Text)

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Title: Contract No. GLWA-CON-250
Pumping Station No. 1 Rack & Grit and MPI 1 and Jefferson Sampling Stations Improvements
Vendor: Weiss Construction Company, LLC
Designer: Benesch

Sponsors: Navid Mehram

Indexes: Wastewater Operations

Code sections:

Attachments:

Date	Ver.	Action By	Action	Result
8/28/2019	1	Board of Directors	Approved	Pass
8/14/2019	1	Operations and Resources Committee	Recommended for Approval	Pass

Contract No. GLWA-CON-250
Pumping Station No. 1 Rack & Grit and MPI 1 and Jefferson Sampling Stations Improvements
Vendor: Weiss Construction Company, LLC
Designer: Benesch

Agenda of: August 28, 2019
Item No.: **2019-296**
Amount: \$0.00
Time: 80 calendar days extension to Substantial Completion
180 calendar days extension to Final Completion

TO: The Honorable
Board of Directors
Great Lakes Water Authority

FROM: Sue F. McCormick
Chief Executive Officer
Great Lakes Water Authority

DATE: August 28, 2019

RE: **Contract No. GLWA-CON-250**
Pumping Station No. 1 Rack & Grit and MPI 1 and Jefferson Sampling Stations Improvements
Vendor: Weiss Construction Company, LLC

Designer: Benesch

MOTION

Upon recommendation of Navid Mehram, Chief Operating Officer - Wastewater Operating Services, The Board of Directors (Board) of the Great Lakes Water Authority (GLWA), authorizes the Chief Executive Officer (CEO) to **grant an extension of 80 calendar days to the Substantial Completion and 180 calendar days to the Final Completion date for Contract No. CON-250, 'Pumping Station No. 1 Rack & Grit and MPI 1 & Jefferson Sampling Stations Improvements' with Weiss Construction Company, LLC**, and authorizes the CEO to take such other action as may be necessary to accomplish the intent of this vote.

BACKGROUND

On November 13, 2013, the Detroit Water and Sewerage Department (DWSD) entered into Contract No. PC-789 (Pumping Station No.1 Rack and Grit and Main Plant Influent (MPI) 1 and Jefferson Sampling Stations Improvements) with Weiss Construction Company, LLC in the amount of \$20,335,000.00. It was an open competitive lowest bid contract.

Major elements of work of PC-789 Contract includes (but not limited to) the following:

PS -1 Rack & Grit (R&G) Building and New Building Additions:

- Replacement of the existing eight bar racks, sixteen grit collection units, screenings and grit belt conveyors.
- Replacement of existing grit cross conveyors #1 and #2, grit flight conveyors #1 and #2 and screenings cross conveyor #2.
- Construction of new south off-load and north conveyor buildings including electrical, lighting, HVAC and plumbing work.

MPI 1 Sampling Station:

- Replacement of two existing sample pumps and all related plumbing, electrical, I&C and HVAC work to ensure a functional sampling system.

Jefferson Sampling Station:

- Replacement of two existing sample pumps and all related plumbing, electrical, I&C and HVAC work to ensure a functional sampling system.

On May 27, 2015, the Board of Water Commissioners approved Change Order No. 1, increasing the PC-789 contract amount by \$580,000.00 to bring the total contract amount to \$20,915,000.00.

On June 12, 2015, the City of Detroit and the GLWA entered into a lease agreement which, in relevant part, assigned certain contracts to the GLWA including this contract effective January 1, 2016.

On August 21, 2017, GLWA approved a second change order to the contract increasing the time duration by 183 calendar days with no additional funds to allow time for a third-party investigation. Because of the challenges with quantifying grit removal and the complex hydraulics of the grit channels, the third-party expert's results were inconclusive regarding pre and post construction grit collection efficacy. However, the expert opinions were invaluable in increasing GLWA's ability to understand the complex properties of the grit removal system and identify and implement low cost, minor modifications to the bucket design which has shown to have significantly improved grit removal efficacy.

On January 30, 2018, the DWSD PC-789 Contract was transitioned to GLWA CON-250 Contract. The required substantial and final completion dates of the CON-250 Contract were March 22, 2019 and September 22, 2019, respectively.

JUSTIFICATION

Many separate substantial completions were declared for major equipment/systems for the beneficial use by GLWA. Of these, only the Jefferson Sampling Station and Screening Conveyor No. 3 required additional time to complete the work. The project substantial completion was achieved on June 10, 2019, 80-days later than scheduled.

During construction, changes were made to the proposed conveyor system installation. Screening conveyors 1 & 2 were eliminated. As a result of the elimination, changes were required to be made to the fire protection system. These changes required additional coordination with the City of Detroit Fire Department for their review and approval.

In order to incorporate the fire protection modifications, a time extension and additional cost for said services is required. The GLWA in working with the contractor agreed 180-day time extension to the final completion of the contract in order to complete the preparation of the revised documents, procurement of the materials, and the time required by the City of Detroit Fire Department to conduct their review.

The Contractor requested \$20,915.00 for the cost associated with the time extension which was reviewed by GLWA Construction Engineering and found to be fair and reasonable. This amount will be paid from the CON-250 allowance via Construction Change Directive-U. Therefore, this change order no.1 is not requesting any additional money to the total contract amount.

PROJECT TASKS/COSTS

Projected changes to the Contract as a result of this proposed Change Order are:

- A Time: Add 80 calendar days to the date of Substantial Completion
Add 180 calendar days to the date of Final Completion

PROJECT MANAGEMENT STATUS

- A. CON-250 Original Contract Amount: \$6,193,801.41
- B. Change Order No. 1 Amount: \$0.00
- C. CON-250 Start Work Date: January 30, 2018
- D. CON-250 Original Required Substantial Completion Date: March 22, 2019
- E. CON-250 Original Required Final Completion Date: September 22, 2019
- F. Revised/Actual Substantial Completion Date: June 10, 2019
- G. Proposed Final Completion date: March 20, 2020

BUDGET IMPACT

Capital Improvement Plan: The CIP budget for CON-250 is \$6,193,801.41. This no cost proposed Change Order has no budget impact to the capital improvement plan.

RETURN ON INVESTMENT

This contract is necessary to allow all assets of the rack & grit system to be placed in service and to provide GLWA with maximum treatment capacity and therefore maintain continuing compliance with the NPDES permit requirements.

COMMITTEE REVIEW

This item was presented to the Operations and Resources Committee at its meeting on August 14, 2019. The Operations and Resources Committee unanimously recommended that the GLWA Board adopt the resolution as presented.

SHARED SERVICES IMPACT

The proposed changes do not have a shared services element.