



## Legislation Details (With Text)

**File #:** 2020-100      **Version:** 1      **Name:**  
**Type:** Resolution      **Status:** New Business  
**File created:** 3/6/2020      **In control:** Board of Directors  
**On agenda:** 4/22/2020      **Final action:**  
**Title:** Proposed Change Order 2  
GLWA-CON-250 (2000451)  
Pumping Station No.1 Rack & Grit and MPI 1 & Jefferson Sampling Stations Improvements  
CIP #211004  
**Sponsors:** Navid Mehran  
**Indexes:** Wastewater Operations  
**Code sections:**  
**Attachments:**

Date	Ver.	Action By	Action	Result
4/8/2020	1	Operations and Resources Committee	Recommended for Approval	Pass

**Proposed Change Order 2**  
**GLWA-CON-250 (2000451)**  
**Pumping Station No.1 Rack & Grit and MPI 1 & Jefferson Sampling Stations Improvements**  
**CIP #211004**

**Agenda of:** April 22, 2020  
**Item No.:** **2020-100**  
**Amount:** Original Contract: \$6,193,801.41  
Change Order No.1: \$0.00  
Proposed Change Order No. 2: \$0.00  
Total Revised Contract: \$6,193,801.41  
  
**Time:** Original Contract Final Completion: September 22, 2019  
Revised Contract Final Completion: March 20, 2020  
(Change Order No.1)  
Proposed Contract Final Completion: October 30, 2020  
(Proposed Change Order No. 2)  
  
**TO:** The Honorable  
Board of Directors  
Great Lakes Water Authority  
  
**FROM:** Sue F. McCormick  
Chief Executive Officer

Great Lakes Water Authority

**DATE:** April 22, 2020

**RE: Proposed Change Order No. 2**  
**Contract No: GLWA-CON-250**  
**Pumping Station No.1 Rack & Grit and MPI 1 & Jefferson Sampling Stations Improvements**  
**Vendor: Weiss Construction Company, LLC**  
**Designer: Alfred Benesch & Company**

**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 224 calendar days to the final completion date for Contract GLWA-CON-250, “Pumping Station No.1 Rack & Grit and MPI 1 & Jefferson Sampling Stations Improvements”, with Weiss Construction Company, LLC for a total contract duration of 1004 days**, 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 certain lease agreements, 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.

Many separate substantial completions were declared for major equipment/systems for the beneficial use by GLWA. Eventually, the project substantial completion was achieved on June 10, 2019.

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 require documentation be sent to the City of Detroit Fire Department for their review and approval. The fire protection system modifications required a time extension to the Contract.

On August 28, 2019, GLWA Board of Directors approved CON-250 Change Order No. 1 extending the CON-250 final completion date from September 22, 2019 to March 20, 2020 for addressing the fire protection system modification.

### **JUSTIFICATION**

The time it has taken to develop the design documents and finalize the construction costs of CON-250 Change Order No. 2 (fire protection system modification) will not allow for construction activity to be completed before the current March 20, 2020 final completion date.

The Contractor's Change Proposal requested an amount of \$204,805.36 for performing the fire protection system modification work including the general conditions' cost for the extended time. The total cost has been negotiated to an amount of \$160,939.00 (direct cost \$105,939.00 and general condition cost \$55,000.00). To date, the available/unused provisionary allowance amount for CON-250 contract is \$170,310.00. Hence, the additional amount of \$160,939.00 will be funded from the available provisionary allowance and therefore no additional money is requested in this change order.

### **PROJECT MANAGEMENT STATUS**

CON-250 Start Work Date:	January 30, 2018
CON-250 Original Contract Time:	600 days
CON-250 Original Required Substantial Completion Date:	March 22, 2019
CON-250 Original Required Final Completion Date:	September 22, 2019
CON-250 Revised/Actual Substantial Completion Date:	June 10, 2019
CON-250 Revised Final Completion Date:	March 20, 2020
CON-250 Proposed Final Completion date:	October 30, 2020
CON-250 New Contract Time:	1004 days

### **PROJECT ESTIMATE**

CON-250 Original Contract Price:	\$6,193,801.41
Change Order No. 1:	\$0.00
Proposed Change Order No. 2:	<u>\$0.00</u>
New Contract Total:	\$6,193,801.41

**FINANCIAL PLAN IMPACT**

This proposed change order is for an extension of time only. Although the change order extends the final completion date further into FY 2021, there is no substantive financial impact. The amount of planned spend moving from FY2020 into FY2021 is undeterminable at this time.

**COMMITTEE REVIEW**

This item was presented to the Operations and Resources Committee at its April 8, 2020 meeting. The Operations and Resources Committee unanimously recommended that the CEO take appropriate action to implement the resolution consistent with the provisions of GLWA Board Resolution 2020-114.

**SHARED SERVICES IMPACT**

This item does not impact the shared services agreement between GLWA and DWSD.