



**Navid H. Mehram**  
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## Memorandum

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**To: The Honorable  
Board of Directors  
Great Lakes Water Authority**

**From: Navid H. Mehram, P.E.  
Chief Operating Officer – Wastewater Operating Services  
Great Lakes Water Authority**

**CC: GLWA Executive Leadership**

**Date: November 6, 2023**

**RE: Purchase Order Line-Item Shift for Arcadis, GLWA Contract “GLWA-CS-120”  
For the Conner Creek Pump Station**

Although Board approval is not required for this action, I’m writing to advise you of a Line-Item Shift for the GLWA-CS-120 Freud and Conner Creek Pump Station Improvements Study & Design contract, the basis for the shift, and to ensure alignment with the Board regarding the shift. The total amount of the contract is \$24,410,947.48 out of which \$9,699,258.37 has been spent as of September 30<sup>th</sup>. The incurred expenses include design work for Freud new sanitary pump station and storm station rehabilitation (currently in solicitation for construction), and the basis of design development for Conner Sanitary and Storm. An amount of \$2,625,998.33 will be reallocated from Line 7 – Resident Project Representative to Line 4 – Task 4 – Final Design. This amount will allow for the design of a new Conner sanitary station with a connection to Jefferson Relief Sewer, isolation structures for the storm station wet well, and replacement of 2 existing storm pumps with vertical pumps.

In November of 2020, the preliminary design of a new combined sanitary and storm station to replace the existing Conner Creek Pump Station began. In September of 2022, review of the basis of design commenced proceeding the results of The Assessment of Extreme Rainfall Events in 2021 identified by AECOM. Following this review, it was determined that further development and analysis of the design options was warranted. In March of 2023, Construction Change Directive (CCD) CCD-007 was issued for a series of workshops, titled Present Worth Analysis of Additional Alternatives, to perform the supplemental development and analysis of the design options.

After completion of the workshops, which were attended by many area subject matter experts, a consensus was reached that revising the design to a stand-alone sanitary station and rehabilitation of the existing storm station would provide significant cost savings while allowing earlier pump operations for improved stormwater management capabilities to better serve our member partners and residents of Southeast Michigan. The change in design will increase the cost of the final design of the project, but the Present Worth Analysis determined that the increase in design costs will be far outweighed by the savings generated during the construction, operation, and maintenance of the proposed design.