



BUSINESS OF THE CITY COUNCIL CITY OF MERCER ISLAND

AB 5792
January 5, 2021
Consent Calendar

AGENDA BILL INFORMATION

TITLE:	AB 5792: Pump Station Generator and Pump Replacement Closeout	<input type="checkbox"/> Discussion Only
RECOMMENDED ACTION:	Accept the completed project and authorize staff to close out the contract.	<input checked="" type="checkbox"/> Action Needed: <input checked="" type="checkbox"/> Motion <input type="checkbox"/> Ordinance <input type="checkbox"/> Resolution

DEPARTMENT:	Public Works
STAFF:	Jason Kintner, PW Director & Allen Hunter, Utilities Operations Manager
COUNCIL LIAISON:	n/a
EXHIBITS:	n/a
CITY COUNCIL PRIORITY:	n/a

AMOUNT OF EXPENDITURE	\$ 643,207.18
AMOUNT BUDGETED	\$ 665,371.00
APPROPRIATION REQUIRED	\$ 0.00

SUMMARY

The purpose of the agenda bill is to accept the completed sewer utility project, Pump Station 18 Pump Replacement, Pump Stations 13, 17, and 24 Generator Replacement, and authorize staff to close out the construction contract.

BACKGROUND

In February 2019, the City Council authorized the award of the construction project for a Pump Replacement at Pump Station 18 and Generator Replacement at Pump Stations 13, 17, and 24 (See [AB5532](#)). Completed work included the replacement of three sewer pumps at Pump Station 18, as well as the replacement of emergency backup generators at Pump Stations 13, 17, and 24. Additional work included bringing the generator vaults into compliance with new standards and replacing outdated plumbing and electrical fixtures.

Construction began in September 2019 and was substantially completed on August 31, 2020. The release of lien from the contractor was submitted to the City in September 2020, at which time, the City requested the required releases from the State Agencies. The final release was received on November 19, 2020, and the project is now ready to close out.

Construction duration was expected to be significantly shorter. Due to project complexity, including limited access, back ordered supplies for the three pumps, implementation of a sewer bypass at Pump Station 18 due

to spatial restraints, as well as obtaining temporary power that served the sewer stations, this resulted in necessary change orders and additional project costs. The completed project had a total of seven change orders, resulting in an additional \$55,518.18 that was used from the 15% project construction contingency. Table 1 below summarizes these change orders.

Table 1 - Change Order Summary		
Pump Station 18 Pump Replacement; Pump Stations 13, 17, and 24 Generator Replacement Project		
CHANGE ORDER	DESCRIPTION	INCREASE (includes tax)
1	Oldcastle Infrastructure (installed two new solid vaults at PS #24 to accommodate traffic weight.	\$411.40
2	Temporary electrical service to PS #13, 17, and 24, to remain operational while emergency generators were being replaced.	\$6,555.29
3	Remove vault lid at PS #24 that was embedded into slab.	\$2,167.80
4	Power configuration at PS #24 including furnish and installation 300 ft of electrical cable.	\$6,804.74
5	Modify and adjust concrete grade in a small section (47 sq yds) at PS #13 near the generator vault to better fit the lid vault lid.	\$12,992.60
6	Fabricate, furnish, and install vent pipes generators at PS #13, #17, and #24.	\$3,926.11
7	Needed to implement a sewer bypass system at PS# 18 due to wet well size limitations. Work involved disassembling and reassembling each independent section of piping and pumps without interrupting pump station service.	\$22,660.24
Total Change Order Increases		\$55,518.18

The final construction cost for the entire project was \$643,207.18, coming in under budget by \$22,163.82. The unspent budget from the project will remain in the sewer fund. Table 2, at the top of page 3, summarizes the actual expenditures compared to the project budget.

Table 2 – Project Costs		
Pump Station 18 Pump Replacement; Pump Stations 13, 17, and 24 Generator Replacement Project		
DESCRIPTION	APPROVED PROJECT BUDGET	ACTUAL EXPENDITURES
Construction Contract with tax (Gary Harper Construction, Inc.)	\$517,880.00	\$517,880.00
Construction Contingency @ 15% (Used for Change Orders 1-7)	\$77,682.00	\$55,518.18
Design and Contract Management	\$45,980.00	\$45,980.00
Generator Purchase (completed in 2018)	\$23,829.00	\$23,829.00
Total Project Cost	\$665,371.00	\$643,207.18

RECOMMENDATION

Accept the completed Pump Station 18 Pump Replacement; Pump Stations 13, 17, and 24 Generator Replacement project and authorize staff to close out the contract.