



**BUSINESS OF THE CITY COUNCIL
CITY OF MERCER ISLAND**

**AB 6372
November 21, 2023
Consent Agenda**

AGENDA BILL INFORMATION

TITLE:	AB 6372: Basin 40 Cured-In-Place-Pipe (CIPP) Sewer Lining Project Phase 1 Closeout	<input type="checkbox"/> Discussion Only <input checked="" type="checkbox"/> Action Needed: <input checked="" type="checkbox"/> Motion <input type="checkbox"/> Ordinance <input type="checkbox"/> Resolution
RECOMMENDED ACTION:	Accept the completed project and authorize staff to close out the contract.	

DEPARTMENT:	Public Works
STAFF:	Jason Kintner, Public Works Director Clint Morris, Capital Division Manager Christopher Marks, Utilities Engineer
COUNCIL LIAISON:	n/a
EXHIBITS:	1. Project Location Map
CITY COUNCIL PRIORITY:	3. Make once-in-a-generation investments to update and modernize aging infrastructure, capital facilities, and parks.

AMOUNT OF EXPENDITURE	\$ 837,338
AMOUNT BUDGETED	\$ 1,764,588
APPROPRIATION REQUIRED	\$ 0

EXECUTIVE SUMMARY

The purpose of this agenda bill is to accept Phase 1 completion of the Basin 40 Cured-In-Place-Pipe (CIPP) Sewer Lining project (SU0108) and authorize staff to close out the completed construction contract.

- Work consisted of installing 4,262 feet of CIPP liner and 59 service connection seals (SCS) into existing 8-inch diameter sewer mains as part of an ongoing program to improve the sewer collection system by reducing inflow and infiltration (I/I) of sewer main pipes.
- Design of Phase 1 (100%) and Phase 2 (90%) occurred between October of 2021 and October of 2022. Construction associated with Phase 1 occurred from February through May of 2023.
- The \$1,764,588 project budget for fiscal year 2023 includes \$764,588 in carryover from fiscal year 2022 to complete Phase 1 and the \$1,000,000 allocation for Phase 2 construction.
- The total project cost was \$837,338 and came in \$162,180 below the total project budget at the time of contract award. Unspent funds will remain in the Sewer Fund.

BACKGROUND

Sewer Basin 40 is located in the Mercerwood neighborhood and is one of the oldest portions of Mercer Island’s sewer collection system, with construction dating back to the 1950’s. Pipes in this area were inspected in 2018 using closed circuit television equipment and were identified as having a high presence of

infiltration and inflow (I/I) as well as some minor structural pipe defects. Once I/I enters the sewer, this water must be transported and treated. Reducing I/I improves the capacity of the City's sewer system and reduces sewage treatment costs.

In October 2021 the City entered into agreement with Staheli Trenchless Consultants (STC) to prepare design documents addressing the I/I in Basin 40. After evaluating more than 27,000 feet of sewer main in the basin, STC delivered Phase 1 and Phase 2 project packages – with Phase 1 prioritizing sewer mains with the highest levels of I/I (See Exhibit 1) and Phase 2 capturing the remaining segments with evidence of I/I.

In October 2022, the Phase 1 project package was advertised for bids and five contractor bid proposals were received. At the December 6, 2022 regular City Council meeting, a construction contract was awarded to Insta-Pipe, Inc. for \$547,681 and the total project budget was set at \$999,518 ([AB 6191](#)). Effective May 8, 2023, \$764,588 was carried over from 2022 and incorporated into the 2023-2024 budget to complete the project ([Ordinance No. 23-05](#)). The Phase 2 project is currently under construction (awarded under [AB 6295](#)).

ISSUE/DISCUSSION

Construction activities began in February 2023 and the project was substantially complete in April 2023. A total of 4,262 linear feet (0.8 miles) of 8-inch diameter CIPP liner and 59 service connection seals (SCS) were installed in the area bounded by SE 40th Street, 96th Avenue, and SE 41st Street. Upon substantial completion, a final inspection was performed by City and STC staff, and a list of corrective items was delivered to Insta-Pipe. These items were completed in May 2023.

The total project cost was \$837,338, which was \$162,180 less than the total amount budgeted at the time of the contract bid award. No contingency funds were needed during construction. Unspent funds from the project will remain in the Sewer Utility Fund. The following table summarizes actual project expenditures compared to budgeted costs.

BASIN 40 CIPP SEWER LINING PROJECT PHASE 1 PROJECT BUDGET (AWARD AMOUNT) & EXPENDITURES		
Description	Approved Project Budget (Award Amount)	Actual Expenditures
Construction Contract		
Schedule A - Bid Amount (w/out tax)	\$497,440	\$452,708
Schedule B - 10.1% sales tax of bid amount	\$50,241	\$45,724
Total Construction Contract	\$547,681	\$498,432
Construction Contingency - 20%	\$109,536	\$0
Project Design (2021-2022)	\$234,100	\$233,531
Inspection Services / Construction Support	\$75,200	\$72,935
Contract Administration / Project Management	\$33,000	\$32,440
Project Budget (Award Amount) & Expenditures	\$999,518	\$837,338
Budget Remaining		\$162,180

RECOMMENDED ACTION

Accept the completed Basin 40 Cured-In-Place-Pipe (CIPP) Sewer Lining Project Phase 1 and authorize staff to close out the contract.