



## BUSINESS OF THE CITY COUNCIL CITY OF MERCER ISLAND

AB 6055  
April 5, 2022  
Consent Agenda

### AGENDA BILL INFORMATION

|                            |   |   |
|----------------------------|---|---|
| <b>TITLE:</b>              | AB 6055: 2021 East Mercer Way Landslide Repair Project Closeout             | <input type="checkbox"/> Discussion Only<br><input checked="" type="checkbox"/> Action Needed:<br><input checked="" type="checkbox"/> Motion<br><input type="checkbox"/> Ordinance<br><input type="checkbox"/> Resolution |
| <b>RECOMMENDED ACTION:</b> | Accept the completed project and authorize staff to close out the contract. |   |

|                               |   |  |  |
|-------------------------------|---|--|--|
| <b>DEPARTMENT:</b>            | Public Works  |  |  |
| <b>STAFF:</b>                 | Jason Kintner, Chief of Operations<br>Patrick Yamashita, Deputy Public Works Director<br>Clint Morris, Capital Division Manager |  |  |
| <b>COUNCIL LIAISON:</b>       | n/a   |  |  |
| <b>EXHIBITS:</b>              | 1. Project Location Map   |  |  |
| <b>CITY COUNCIL PRIORITY:</b> | n/a   |  |  |

|                               |            |
|-------------------------------|------------|
| <b>AMOUNT OF EXPENDITURE</b>  | \$ 289,229 |
| <b>AMOUNT BUDGETED</b>        | \$ 337,872 |
| <b>APPROPRIATION REQUIRED</b> | \$ n/a     |

### EXECUTIVE SUMMARY

The purpose of this agenda bill is to accept the completed 2021 East Mercer Way Landslide Repair construction project and authorize staff to close out the construction contract.

- This project was an emergency repair of a landslide that occurred in December 2020.
- A soldier pile retaining wall was constructed in the 5600 block in June 2021.
- The total project cost was \$289,229, which came in \$48,643 under budget; unspent funds remain in the Street Fund.

### BACKGROUND & DISCUSSION

The 2021 East Mercer Way Landslide Repair project constructed a soldier pile retaining wall to stabilize a steep slope in the 5600 block. The landslide occurred in early December 2020, within the public right-of-way, threatening the stability of the northbound travel lane. Slide debris was carried downslope onto two private properties. The northbound lane was temporarily closed after the slide until repairs could be constructed.

Engineering work began in early February 2021 with soil borings and site surveying. The preferred repair solution was determined to be a soldier pile retaining wall. Design work continued into late March and a

construction bid package was advertised in early April. Five contractor bids were received on April 27, 2021. On May 18, The City Council awarded a construction contract to Neptune General Contractors in the amount of \$233,267 and set the project's total budget to \$337,872 ([AB 5871](#)). Funding for this emergency repair was appropriated from the existing Street Fund balance.

Timing of the repair was critical, as repaving of East Mercer Way from SE 53<sup>rd</sup> Street to the 6600 block was already planned for summer of 2021. Construction activities at the site began on June 2, and by the end of June the wall was complete, which allowed the repaving work to proceed on its original timeline.

The slide repair consisted of building a 75-foot-long soldier pile retaining wall, which involved installing nine vertical steel H-beams into drilled shafts which were then filled with lean concrete. Timber lagging was placed between the H-beams, and the void behind them was backfilled with free draining gravel. In addition, a partially damaged roadside guardrail was removed and replaced.

The total cost of the completed project was \$289,229, which is 14% less than the estimated project cost at the time of contract award. No contingency funds were needed during construction. Final design costs were \$4,426 higher than estimated, but this was more than offset by the combined inspection and project management costs being \$7,094 lower than estimated. Actual expenses for the project compared to budget amounts are shown in the following table. The \$48,643 of unspent budget from the project will remain in the Street Fund.

| <b>2021 EAST MERCER WAY LANDSLIDE REPAIR<br/>PROJECT BUDGET AND ACTUAL EXPENDITURES</b> |                       |                            |
|---|-----------------------|----------------------------|
| <b>Description</b>  | <b>Project Budget</b> | <b>Actual Expenditures</b> |
| <b>Construction Contract</b>  | <b>\$ 233,266</b>     | <b>\$ 222,281</b>          |
| Construction Contingency @ 15%  | \$ 34,990             | \$ -                       |
| Project Design - general engineering consultant   | \$ 18,690             | \$ 20,020                  |
| Project Design - surveying  | \$ 3,045              | \$ 3,045                   |
| Project Design - geotechnical engineering   | \$ 17,218             | \$ 19,803                  |
| Project Design - structural engineering   | \$ 7,663              | \$ 8,174                   |
| <b>Total Project Design</b>   | <b>\$ 46,616</b>      | <b>\$ 51,042</b>           |
| Inspection Services   | \$ 15,000             | \$ 10,157                  |
| Contract Administration/Project Management  | \$ 8,000              | \$ 5,749                   |
| <b>Total Project Budget and Expenditures</b>  | <b>\$ 337,872</b>     | <b>\$ 289,229</b>          |

## RECOMMENDED ACTION

Accept the completed 2021 East Mercer Way Landslide Repair project and authorize staff to close out the contract.