MEMORANDUM

To: Kurt Triplett, City Manager

From: Aaron McDonald, Senior Project Engineer
       Rod Steitzer, Capital Projects Manager
       Julie Underwood, Interim Director of Public Works

Date: March 5, 2020

Subject: GOAT HILL STORM DRAINAGE REPAIR—ACCEPT WORK

RECOMMENDATION:

It is recommended that City Council accept the work performed on the Goat Hill Storm Drainage Repair Project (Project) as constructed by Grade Inc. of Monroe Washington, thereby establishing the statutory lien period.

By acting on this item under the consent calendar, the City Council is accepting the work on the construction contract for the subject Project.

BACKGROUND DISCUSSION:

This Project addresses Council Goal: Dependable Infrastructure – To maintain levels of service commensurate with growing community requirements at optimum life-cycle costs.

Goat Hill storm drainage repair work consists of two separate projects. Both projects correct deficiencies, increase capacity, and reduce maintenance of the storm water infrastructure on Goat Hill. The Project that is the subject of this agenda item (SDC 0077) constructed a new storm water outfall from a ditch on Goat Hill to Juanita Creek. A second project (SDC 0090) is planned to begin in 2021 (see Attachment A, “Vicinity Map,” and Attachment B, “Project Map”).

The Council received an update about this Project on October 1, 2019. The underground conditions encountered by the contractor were more challenging than expected because there were:

- Unmarked and mis-marked non-City, third-party utilities;
- Unmarked, concrete-encased utilities;
- Unusually large concrete thrust-blocks used to stabilize pressurized utilities; and
- Large-diameter logs and wood waste used to construct the original roadway sub-grade.

Working with the contractor and the design firm, the construction team identified an alternative course of action that mitigated, to the extent possible, the unexpected conditions. With the Council-
approved Project budget increase of $242,628.70 detailed in the October 1, 2019 staff report, the team successfully completed construction within the revised budget. Construction was completed in November of 2019.

**Project Funding and Expenses**
The original construction contract amount was $567,363. One change order was executed in the amount of $242,629 to address the aforementioned underground conditions, and there were additional soft costs associated with addressing those conditions and other aspects of the Project. The Project required less of certain materials than estimated, however, which resulted in a saving of $8,867.

The total amount paid to the contractor was $801,124.63.

<table>
<thead>
<tr>
<th>Table 1: Budget to Expenses</th>
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<tbody>
<tr>
<td><strong>Budget</strong></td>
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<tr>
<td>Permitting/Design/Inspection/In-house Costs*</td>
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<tr>
<td>Construction contract at time of award</td>
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<td>Contingency</td>
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<td>Budget Increase on October 1, 2019</td>
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<tr>
<td><strong>Total Funds</strong></td>
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<td><strong>Expenses</strong></td>
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<td>Permitting/Design/Inspection/In-house Costs</td>
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<td>Additional Soft Costs</td>
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<td>Original Contract Amount</td>
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<td>Contract Change Order</td>
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<td>Quantity Under-run</td>
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<td><strong>Total Expenses</strong></td>
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<td>Remaining Funds</td>
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(*) This line item includes the costs of an area study of the surface water issues in this portion of Goat Hill, and preliminary design for both this Project and the project now labeled SDC 0090.

**SUMMARY AND NEXT STEP:**

With completion of this first phase of the Goat Hill Storm Drainage Repair, storm flows have been re-routed to a more appropriate location, infrastructure size has been increased to reduce roadway flooding, critical stream habitat has been protected, and the groundwork has been completed to support future stormwater improvements to the Goat Hill drainage system.

The next project, SDC 0090, will begin in 2021. The timeline for that project will be better known once 2021 workload assignments are made and a project manager assigned.

Attachment A: Vicinity Map—Goat Hill Projects
Attachment B: Project Map—Goat Hill CIP Projects
Attachment C: Project Budget Report
ATTACHMENT B

PROJECT MAP - GOAT HILL CIP PROJECTS

JUANITA BEACH PARK

COMBINED INTO NEW PROJECT - SDC-090000 (scheduled start 2021)

THIS CONTRACT

SDC0077

T
Goat Hill Storm Drainage Repair
(SD 0077 000)
PROJECT BUDGET REPORT

Approved Budget
(2017 - 2022 CIP)

- Engineering: $468,700
- Construction: $525,000
- Contingency: $993,700

Award Contract
(June 2019)

- Engineering: $592,405
- Construction: $567,363
- Contingency: $1,203,700

Accept Work
(This Memo)

- Engineering: $592,405
- Construction: $905,795
- Contingency: $1,203,700

Funding

- Total: $1,498,200

ESTIMATED COST

Attachment C