

Request for Decision



To: Regular Meeting
From: **Development & Engineering**
Date: July 19, 2018
Subject: 22nd Street Budget Amendment
Recommendation: **THAT Council approves \$50,000 for additional works and engineering services required to complete the 22nd Street Multi-utility project and directs staff to include the additional expenditure amount in the 2018-2022 Financial Plan Amendment, to be funded from borrowing.**

Background

There have been a significant number of changes to the scope of construction work on this project, the majority of which have resulted from issues with underground infrastructure. These changes, along with the related delays in project schedule, have required additional labour, materials, contract administration and engineering design work, which has subsequently increased the overall budget.

Additional works have included but are not limited to:

- 1) An existing, buried storm manhole was exposed which needed riser rings installed to raise the manhole to the asphalt elevation.
- 2) An old manhole was exposed beneath the existing asphalt which had a custom manhole lid with a grate constructed from old grader blades. The contractor flooded a nearby catch basin and confirmed that water flows into this manhole and then flows east down 76th Avenue. To allow construction to continue, the contractor will need to install a proper manhole lid, riser rings, frame and cover.
- 3) An old CSP catch basin (ties into the manhole discussed above) was observed to be corroded and in poor condition and needs to be replaced. Since the catch basin is very close to an existing natural gas line, a hydrovac will be needed during the excavation.
- 4) Relocation of an existing catch basin to a low point in an intersection was included in the contract drawings. When investigating the existing catch basin, it was discovered that the existing catch basin was actually a drywell. Properly relocating a drywell requires more work than relocating a catch basin, due to the drain rock and larger excavation that is required. In addition, it has been confirmed that the drywell will also require installation of a sump and base.
- 5) While removing asphalt near Highway 3, it was discovered that a large portion of asphalt between the limit of construction and the shoulder of Highway 3 was approximately 25mm (1 inch) thick. The limit of construction needs to be extended to Highway 3 and all the asphalt replaced.

- 6) It was determined that some of the old valve boxes on 22nd Street had AC risers which could not be adjusted. There are a total of 5 old valve boxes that will need to be replaced using a hydrovac so that they can be adjusted to the new asphalt elevation.
- 7) An additional water service was required.
- 8) Crews were unable to shut off water and isolate the water main because of numerous faulty valves, resulting in a failed attempt at a water main tie-in. Three insertion valves were installed to replace/bypass the faulty valves to allow for the required tie-ins for this project.
- 9) The existing material under one section of road base was found to be a coarse granular black substance necessitating additional fill material and vibratory roller passes for required levels of compaction.

Up until the flood event in May, City staff were participating in project management, contract administration, site inspections and other activities related to the project which resulted in savings in consultant fees. Following the flood event, staff worked almost exclusively on flood emergency and recovery operations for six weeks, and one member left the department to assume a full-time position in recovery operations as of June 25th. The department has required additional support from the project engineers to manage this project in the past two months and will require this support until completion.

Benefits or Impacts

General

Ensuring that deficiencies in infrastructure are addressed now for the long term viability of the upgrades.

Strategic Impact

Policy/Legislation

2018-2022 Financial Plan Bylaw and the proposed amendment thereto
Loan Authorization Bylaw 1923

Attachments

N/A

Recommendation

THAT Council approves \$50,000 for additional works and engineering services required to complete the 22nd Street Multi-utility project and directs staff to include the additional expenditure amount in the 2018-2022 Financial Plan Amendment, to be funded from borrowing.

Options

1. THAT Council accepts the recommendation.
2. THAT Council does not accept the recommendation.
3. THAT Council refers the matter back to staff for further information.

Report Approval Details

Document Title:	2018-07-19 RFD 22nd Street Budget Amendment.docx
Attachments:	
Final Approval Date:	Jul 12, 2018

This report and all of its attachments were approved and signed as outlined below:

No Signature - Task assigned to Diane Heinrich was completed by assistant Daniel Drexler

Diane Heinrich - Jul 12, 2018 - 4:33 PM