

THE CORPORATION OF THE
CITY OF WHITE ROCK
CORPORATE REPORT



DATE: September 23, 2024

TO: Mayor and Council

FROM: Corrine Haer, P.Eng., Manager, Engineering

SUBJECT: Watermain Upgrade – Cypress Street from Pacific Lane to Royal Avenue

RECOMMENDATIONS

THAT Council receive the corporate report dated September 23, 2024, from the Manager of Engineering, titled “Watermain Upgrade – Cypress Street from Pacific Lane to Royal Avenue” and

1. Approve a \$190,000 transfer from water capital contingency to support the Watermain Upgrade – Cypress Street from Pacific Lane to Royal Avenue project;
 2. Approve the award of Watermain Upgrade – Cypress Street from Pacific Lane to Royal Avenue to Blackline Site Works Ltd. in the amount of \$452,902 (excluding GST);
 3. Approve the award of engineering inspection and construction support for the work to GHD Limited in the amount of \$41,021 (excluding GST);
 4. Authorize the pre-approved contingency in the amount of \$100,000 (approximately 20%) to support the project; and
 5. Authorize the Director of Engineering and Municipal Operations to execute all contract documentation required for the project.
-

EXECUTIVE SUMMARY

The purpose of this corporate report is to obtain Council approval to award the Watermain Upgrade – Cypress Street from Pacific Lane to Royal Avenue project to Blackline Site Works Ltd. in the amount of \$452,902 (excluding GST).

INTRODUCTION/BACKGROUND

The Royal Avenue 100mm diameter cast iron pipe between Cypress Street and Balsam Street is in the City’s capital plan and Water Master Plan for replacement due to the number of breaks, premature corrosion, and limited access due to its current location in rear yards. A design was completed in 2018 by GHD Limited that recommended looping the system to improve access. This project was tendered in 2019 and abandoned due to limited budget available.

Staff have since split the project into three phases to distribute the costs over multiple years with the first phase of the loop to be constructed on Cypress Street from Pacific Lane to Royal Avenue. This is the project being recommended at this time to proceed.

The long-term project proposes to install a 200mm ductile iron watermain in the road around the residential block of Pacific/Cypress/Royal/Balsam so that the rear yard water services can optimally be transferred to the new watermain at their property frontage once all phases are complete. This will reduce exposure to extended interruptions in water supply in the event of a leak in the future and increases available fire flow.

ANALYSIS

GHD Limited was retained to design the project and to provide tendering support. A construction tender (WR24-008 Cypress Street Watermain Construction) was issued to the market on BC Bid with a tender submission closing date of August 26, 2024.

The City received seven (7) bids, and the results are summarized in the table below.

Table 1 - Bid Summary

Contractor	Price (excluding GST)
Blackline Site Works Ltd.	\$452,902
Matcon Underground Utilities Ltd.	\$478,527
HPA Construction Ltd.	\$488,804
Richco Contracting Ltd.	\$600,167
JS Ferguson Constructing Inc.	\$625,929
Graywood Construction Ltd.	\$669,695
Complete Utility Contractors Ltd.	\$753,000

Staff and GHD Limited reviewed the proposals and determined that Blackline Site Works Ltd. will provide best overall value to the City. Aside from being the lowest overall price, Blackline Site Works Ltd demonstrated a good understanding of the project scope in line with expectations. Their submission was of high quality with an extensive breakdown of activities compared to other proposals received. In addition, their proposal was reasonable and reflective of the level of effort and challenges expected for the work.

Staff recommend awarding this project to Blackline Site Works Ltd. for a total of \$452,902. If approved, staff will provide notification to the nearby residents and will aim to begin construction this Fall.

FINANCIAL IMPLICATIONS

This phase of the project is included in the 2024 Financial Plan in the amount of \$428,000.

Staff recommend Council approve an additional \$190,000 transfer from water capital contingency to support this phase. This would leave \$160,000 available in water capital contingency to support other projects between now and the end of the year.

A summary of the project budget is as follows:

Table 2 – Project Budget

	Total
Total approved funding (30053)	\$428,000
Additional funding request (water capital contingency)	\$190,000
Committed/spent to date to support the project	\$23,200
Construction support (GHD Consultants Ltd)	\$41,021
Construction (Blackline Site Work Ltd.)	\$452,902
Subtotal	\$517,123
Contingency (approx. 20% of construction costs)	\$100,000
Total project cost	\$617,123

LEGAL IMPLICATIONS

No legal implications are anticipated. Staff request authorization for the Director of Engineering and Municipal Operations to execute all contract documentation required for the project.

COMMUNICATION AND COMMUNITY ENGAGEMENT IMPLICATIONS

Engineering staff will work with Communications staff to deliver letters to the adjacent community regarding this project prior to construction.

CLIMATE CHANGE IMPLICATIONS

Watermain upgrades increase the system's capacity and reduces the likelihood of breaks and leaks. This minimizes water waste and energy consumption associated with repairs. This project supports climate change resilience by ensuring a more reliable water supply system.

ALIGNMENT WITH STRATEGIC PRIORITIES

This project is a Council Strategic Priority project and is in alignment with the Infrastructure Strategic Priority that identifies that the City plan, build and maintain infrastructure to enhance quality of life and civic service delivery while mitigating and adapting to environmental impacts. Specifically, this project ensures future infrastructure resiliency by making decisions through a long-term lens.

OPTIONS / RISKS / ALTERNATIVES

The following alternate option is available for Council's consideration:

1. Not approve the recommendation to award the work. This in turn increases the exposure to residents in the area to potential extended interruptions in their water supply in the event of a leak. In addition, the break history of this cast iron pipe indicate that further leaks are likely which has the potential for significant impact to properties in the area.

CONCLUSION

Staff recommend that the Watermain Upgrade – Cypress Street from Pacific Lane to Royal Avenue be awarded to Blackline Site Works Ltd. in the amount of \$452,902 (excluding GST) and that GHD Limited be awarded construction management and contract administration in the amount of \$41,021(excluding GST).

Staff also request a preauthorized contingency in the amount of \$100,000 (approximately 20% of remaining costs to complete this project) to support the project. Additionally, staff recommend that the Director of Engineering & Municipal Operations be authorized to execute all contract documentation required for the project to proceed.

To move forward with this, Staff recommend Council approve a transfer of \$190,000 from Water Capital Contingency to this project.

Respectfully submitted,

Approved by,

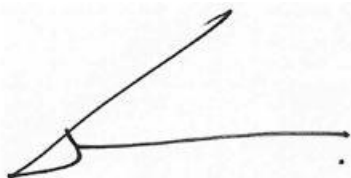


Corrine Haer, P.Eng
Manager, Engineering

Jim Gordon, P.Eng.
Director, Engineering & Municipal Operations

Comments from the Chief Administrative Officer

I concur with the recommendations of this corporate report.



Guillermo Ferrero
Chief Administrative Officer

Appendix A: Watermain Upgrade Scope - Pacific, Royal, Cypress, Balsam

Appendix A

Watermain Upgrade Scope
Pacific, Royal, Cypress, Balsam

Phase 1 circled in red

