

TO: CHAIR AND MEMBERS FINANCIAL MANAGEMENT COMMITTEE **DATE:** 2020 September 01

FROM: DIRECTOR ENGINEERING **FILE:** 32000-05

SUBJECT: 2020 SEPTEMBER ENGINEERING CAPITAL INFRASTRUCTURE BYLAW FUNDING REQUEST

PURPOSE: To request the use of Waterworks Utility Capital Reserves and to request a *Capital Reserve Fund Bylaw* to finance 2020 - 2024 Engineering capital infrastructure projects.

RECOMMENDATION:

1. **THAT** the Financial Management Committee recommend Council authorize the City Solicitor to bring forward a *Capital Reserve Fund Bylaw* in the amount of \$13,900,000, and the use of Waterworks Utility Capital Reserve in the amount of \$950,000 to finance Engineering capital infrastructure improvement projects, as outlined in this report.

REPORT**INTRODUCTION**

The 2020 – 2024 Financial Plan provides funding for various multi-year capital improvement projects. In order to proceed with design, contract administration and construction, funding approval is requested for the projects listed below.

POLICY SECTION

The following project is aligned with the City of Burnaby's Corporate Strategic Plan by supporting the following goals and sub-goals of the Plan.

Goal

- A Safe Community
 - Transportation safety –
Make City streets, pathways, trails and sidewalks safer.
- A Dynamic Community
 - City Facilities and infrastructure –

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Build and maintain infrastructure that meets the needs of our growing community.

- A Thriving Organization
 - Reliable services, technology and information –
Protect the integrity and security of City information, services and assets.

1.0 Infrastructure

1.1 Lougheed Highway Upgrade Boundary to Gilmore Avenue

Estimated \$7,200,000

This project includes coordination of road upgrades and twinned watermain along Lougheed Highway from Boundary Road to Gilmore Avenue and related road rehabilitation on Boundary Road from Lougheed Highway to Myrtle Street.

Lougheed Highway will be upgraded to include the Town Centre Standards and Boundary Road will undergo pavement rehabilitation. The watermain replacement includes a new railway crossing, north of Myrtle Street. A high level drainage review is also performed as part of the conceptual design to identify drainage upgrades that are required. Portions of this project is eligible for MRN reimbursement.

The existing 4 lanes are actually functioning as 3 lanes plus 1 dedicated right turn lane. A re-design to incorporate a proper separated cycle track and eliminate the dedicated right turn lane would be more optimal. As well, this re-design for 3 lanes is aligned with our new Town Centre Standards. No tree cutting is expected at this time. Forestry will verify during construction if any trees are inadvertently damaged as a result. The “Welcome to Burnaby” sign on the South side of Lougheed will remain as-is.

Scope of work in this project include:

- Installation of a new multiuse path on south side of Lougheed Highway (Boundary Road to Gilmore Avenue), including pedestrian lighting and also upgraded roadway lighting.
- Installation of sidewalk and pedestrian lighting on north side of Lougheed Highway (Boundary Road to Gilmore Avenue) to tie into the existing sidewalk and boulevard features in order to fill in the gaps and finish the connectivity on the north side.
- Road narrowing from 4 lanes to 3 lanes of traffic for eastbound Lougheed Highway, including new curb and gutters.
- New asphalt for the entire project area; Boundary Road (Central Valley Greenway to Lougheed Highway, Burnaby Side), Lougheed Highway (Boundary Road to Gilmore Avenue), on both sides of the road.

Funding is being requested to facilitate tender that will begin in October 2020 to start construction in January 2021, and completion of this project is expected by the end of 2022 and will be coordinated with other construction works on Gilmore Avenue to minimize disruptions.

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Project Mask(s)	<u>2021</u>	<u>2022</u>	<u>Total</u>
EMC.3038 – Roads	\$500,000	\$3,500,000	\$4,000,000
EJA.3038 – Water	\$200,000	-	\$200,000
EMA.3038 – MRN	\$2,000,000	\$1,000,000	\$3,000,000
Total	\$2,700,000	\$4,500,000	\$7,200,000

1.2 Metro Vancouver Douglas Road Main Coordinated Works

Estimated \$4,800,000

This project consists of utility upgrades and road rehabilitation in conjunction with a Metro Vancouver capital works program associated with their Douglas Road Main (DRM2) replacement project. The project will include provisions for sustainable initiatives, minimal environmental impacts (including noise, odour control and surrounding environmentally sensitive areas), an architecturally aesthetic control building and landscaping features relevant to an urban environment.

The first phase of the project which involved the installation of 2.4 kilometers of water main with Metro Vancouver is nearing completion, and the second phase of the project is underway. This phase includes construction of roadways, curb & gutter and sidewalks for the following neighbourhoods: Eton Street (North Madison Avenue to Willingdon Avenue), Rosser Avenue (Albert Street to Eton Street), and McGill Avenue (Gilmore Avenue to North Madison Avenue).

Funding is being requested to facilitate tender starting in November 2020 to begin construction at the beginning of 2021. This coordinated project began in 2018 and is expected to reach completion by the end of 2021. A portion of the sidewalk expansion program has been reallocated from the 2020 – 2024 Capital Plan to facilitate this funding request. Additionally, the City reached a cost sharing agreement with Metro Vancouver for \$2.8 million for both phases of the project.

Project Mask(s)	<u>2021</u>
EMC.3137 – Roads	\$4,800,000

1.3 Storm Extensions 2020 B Winter Package

Estimated \$2,100,000

This project involves development coordinated works related to storm sewer extensions (see *Storm Sewer Extension Contribution and Fee Bylaw*), and associated road repair and upgrades if applicable.

Construction is currently being planned for the following addresses:	
4990 Lorraine Avenue	4130 Irmin Street
4152 Parker Street	3676 Kalyk Avenue
6107 Dickens Street	6779 Bryant Street
5680 Ewart Street	

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\$500,000 of funding for this project has been previously approved by Council to facilitate contract administration and design award. Additional funding is being requested to begin the tender process expected to be awarded in March 2021 for construction. Construction activities will be managed to align to the cash flow presented in the table below in order to install services in a timely manner while maintaining even year-to-year capital spending. Work will be prioritized based on customer requirements.

Project Mask(s)	<u>2021</u>	<u>2022</u>	<u>Total</u>
EMC.3180 – Roads	\$500,000	-	\$500,000
ELA.3180 – Drainage	-	\$1,600,000	\$1,600,000
Total	\$500,000	\$1,600,000	\$2,100,000

1.4 North Burnaby Watermains and Road Rehabilitation Estimated \$750,000

This is a watermain replacement and roads rehabilitation package which involves replacement of existing watermain and services, complete with pavement rehabilitation on local/collector streets in north Burnaby in the Aubrey and Buchanan neighbourhoods. \$3,970,000 of funding has been previously approved by Council for this project.

The water works portion of this project constructed by City Forces is nearing completion. However, remaining costs to complete the project were higher than anticipated partially due to poorer road base conditions and more retaining walls for slope stability than originally anticipated. Capital plan from other water projects that have been deferred to future years has been reallocated to this project. Additional funding is being requested to complete this project.

Project Mask(s)	<u>2020</u>
EJA.3147 - Water	\$750,000

These expenditures are included in the 2020 – 2024 Financial Plan and sufficient Capital Reserves & Reserve Funds are available to finance the capital projects outlined in this report.

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RECOMMENDATION

It is recommended that the Financial Management Committee recommend Council authorize the City Solicitor to bring forward a *Capital Reserve Fund Bylaw* in the amount of \$13,900,000, and the use of Waterworks Utility Capital Reserve in the amount of \$950,000 to finance Engineering capital infrastructure improvement projects, as outlined in this report.



(For)

Leon A. Gous, P.Eng., MBA
DIRECTOR ENGINEERING

JM/RS:nh

Copied to: Director Finance
City Solicitor
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