

TO: CHAIR AND MEMBERS FINANCIAL MANAGEMENT COMMITTEE **DATE:** 2019 October 08

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

SUBJECT: 2019 OCTOBER ENGINEERING CAPITAL INFRASTRUCTURE FUNDING REQUEST

PURPOSE: To request the use of Water and Sanitary Reserves and to request a Capital Reserve Fund Bylaw to finance 2019 - 2021 Engineering capital infrastructure projects.

RECOMMENDATION:

1. **THAT** the Financial Management Committee recommend Council authorize the City Solicitor to bring forward a Capital Reserves Fund Bylaw in the amount of \$3,800,000, the use of Sanitary Sewer Capital Reserves in the amount of \$950,000 and the use of Waterworks Utility Capital Reserves in the amount of \$1,090,000 to finance Engineering capital infrastructure improvement projects, as outlined in this report.

REPORT**INTRODUCTION**

In order to proceed with the award of contracts for design, contract administration and construction, funding approval is requested for the projects listed below. Sufficient Capital Reserve Funds and Reserves are available to fund the capital projects outlined in this report.

POLICY SECTION

The following projects are 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 –
 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 Burnaby Mountain Booster – EJA.3167 *Estimated \$250,000*

This project consists of upgrades to the existing Burnaby Mountain Booster to accommodate increased demand from growth and development on Burnaby Mountain. Upgrades (betterments) to the existing station are anticipated to include design and installation of a new pump, motor, associated piping, controls, communications and re-programming to accommodate the anticipated demand.

Early funding is being requested for the 2020 scope of work to enable the award of the construction contract later this year.

1.2 Eastbrook Pump Station Upgrade – EKA.3165 *Estimated \$950,000*

Project Mask(s)	<u>2019</u>	<u>2020</u>
EKA.3165	\$550,000	\$400,000

This project consists of upgrades to the existing Eastbrook pump station to accommodate changes in (dynamic head) the existing common forcemain (shared by Eastbrook, Beta, Delta and Douglas pump stations) resulting from increased system demands from growth and re-development in the Central Valley area. Upgrades (betterments) to the existing lift station are anticipated to include pump impellers, motors, check valves, variable frequency drives (VFD's) and a control kiosk so that the existing Eastbrook station can continue to meet anticipated total dynamic head conditions in the common forcemain.

Funding was incorrectly raised previously using Waterworks Utility Capital Reserves. This funding is being returned and the correct funding source, Sanitary Sewer Capital Reserves is being requested for both the 2019 and 2020 portion of the capital plan. This includes funding for the design phase which is close to completion and to pre-fund the construction contract which will be awarded later this year.

1.3 Sidewalk and Full Road Upgrade – EMC.3191

Estimated \$800,000

Project Mask(s)	2020	2021
EMC.3191	\$300,000	\$500,000

This project was not part of the approved 2019-2023 Annual Capital Plan but has been deemed a priority by Council who instructed staff to accelerate a new sidewalk capital program at a value of \$10 million per year. Accordingly, the 2020/2021 capital plan associated with Metro Vancouver Douglas Road Main has been reallocated to this new project.

Staff has selected sidewalk construction locations based on the prioritization outlined within the report; for example near schools/community centres/parks/transit, most cost-effective first, network gaps, and neighbourhoods without sidewalks. Boulevard trees would also be replaced and added as necessary, in order to complete the public realm. This planned 2021 program would include new sidewalks and full road upgrades with curb & gutter, and construction is expected to start in 2021.

Early funding is being requested for the 2020 scope of work to enable the award of the design contract.

1.4 Commercial Water Meter Reading – EJA.3028

Estimated \$840,000

This project was not part of the approved 2019-2023 Annual Capital Plan but due to risks maintaining the current manual meter reading technology, and benefits associated with an automated meter reading system, this project is being prioritized. The capital plan associated with the delayed Sunset PRV Station project is being reallocated to this project.

The City has approximately 2,400 commercial meters which are read on a monthly or quarterly cycle, depending on the water consumption rate of the customer. Meters are currently read via a combination of direct (manual) read, touch read, and walk-by radio read. The City intends to implement a new automated meter reading system for these existing customers in 2020. Automated meter reading would provide enhanced leak detection and improved data to support water conservation.

This project will include the supply and installation of approximately 2,400 meter reading end-points on existing water meters throughout the City, including any re-wiring, pit lid modifications, and any other works required to facilitate a complete operational installation.

Early funding is being requested to enable the contract award later this year.

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1.5 Storm Extensions – Winter Package Estimated \$3,000,000

Project Mask(s)	2020
ELA.3179- Storm	2,150,000
EMC.3179- Roads	850,000
Total	\$3,000,000

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). Long term, the storm extension costs are fully recovered by initiating and benefitting property owners.

Winter Storm Sewer Extensions Package (November Tender):

- Nov.01 to Apr.30 – Collect applications and cut-off point
- May.01 to Oct.31 – RFP award/design completion
- Nov.01 – Tender close/award/construction

Funding for the design phase of the project and a portion of 2020 capital plan for the construction phase was raised previously. However, there are approximately 20 locations to construct as part of this package and additional construction funding for 2020 is being requested.

These expenditures are included in the 2019 – 2023 Financial Plan and sufficient Capital Reserve Funds and Reserves are available to finance the capital projects outlined in this report.

RECOMMENDATION

It is recommended that the Financial Management Committee recommend Council authorize the City Solicitor to bring forward a Capital Reserves Fund Bylaw in the amount of \$3,800,000, the use of Sanitary Sewer Capital Reserves in the amount of \$950,000 and the use of Waterworks Utility Capital Reserves in the amount of \$1,090,000 to finance Engineering capital infrastructure improvement projects, as outlined in this report

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

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- Copied to:
- City Manager
 - Director Finance
 - City Solicitor
 - Deputy Director Engineering
 - Assistant Director Infrastructure & Development
 - Manager, Engineering Projects