

FINANCIAL MANAGEMENT COMMITTEE

*HIS WORSHIP, THE MAYOR
AND COUNCILLORS*

**SUBJECT: 2019 APRIL ENGINEERING CAPITAL INFRASTRUCTURE BYLAW
FUNDING REQUEST**

RECOMMENDATION:

1. THAT Council authorize the City Solicitor to bring forward a Capital Reserves Fund Bylaw in the amount of \$3,530,000, the use of Sanitary Sewer Capital Fund in the amount of \$142,000 and the use of Waterworks Utility Capital Fund in the amount of \$807,000 to finance Engineering capital infrastructure improvement projects, as outlined in this report.

REPORT

The Financial Management Committee, at its meeting held on 2019 April 24, received and adopted the attached report requesting the use of Waterworks Utility and Sanitary Sewer Reserves and requesting a Capital Reserve Fund Bylaw to finance 2019 Engineering capital infrastructure projects.

Respectfully submitted,

Mayor M. Hurley
Chair

Councillor S. Dhaliwal
Vice Chair

Copied to:	City Manager Director Engineering Director Finance City Solicitor Deputy Director Engineering Assistant Director Infrastructure & Development Manager, Engineering Projects
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Item.....
Meeting.....2019 Apr 24

COMMITTEE REPORT

TO: CHAIR AND MEMBERS FINANCIAL MANAGEMENT COMMITTEE **DATE:** 2019 April 03

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

SUBJECT: **2019 APRIL ENGINEERING CAPITAL INFRASTRUCTURE BYLAW FUNDING REQUEST**

PURPOSE: To request the use of Waterworks Utility and Sanitary Sewer Reserves and to request a Capital Reserve Fund Bylaw to finance 2019 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 \$3,530,000, the use of Sanitary Sewer Capital Fund in the amount of \$142,000 and the use of Waterworks Utility Capital Fund in the amount of \$807,000 to finance Engineering capital infrastructure improvement projects as outlined in this report.

REPORT

INTRODUCTION

The 2019 – 2023 Annual Financial Plan will provide funding for various multi-year capital improvement projects. Upon approval of this funding request by Council, these expenditures will be included in the 2019 – 2023 Annual Financial Plan (Engineering Section). In order to proceed with the award of contracts for design, contract administration and construction, funding approval is requested for the projects listed below. This report is to seek Council approval of fund allocation for 2019 Engineering projects in advance of Council adoption of the 2019 Annual Financial Plan. Sufficient Capital 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 Centennial Way- Horizons-Phase II –

Project Mask	2019	2020	Total
EJA.3027 Water	\$0	\$655,000	\$655,000
AEC.3027 Conduit	100,000		100,000
Total	\$100,000	\$655,000	\$755,000

Work on this project will include the design of a future flow control (Pressure Release Valve) chamber in conjunction with Phase II of the Centennial Main project from 2016. The scope of work on this project also includes Civic Communications Conduit. Construction is anticipated to be completed in 2019 in advance of the approved capital plan timeline. The project team has opportunity to complete this project in 2019 and is taking advantage of this. In order to bring forward this expenditure, we will utilize 2019 funding in the Capital Plan for the Metrotown Passarelle which is not anticipated to proceed this year.

Construction is anticipated to be completed in 2019.

1.2 Ledger Avenue Upgrades

Project Mask	2020	Total
EMC.3159	\$2,000,000	\$2,000,000

This project will complete the offsite works for the City's temporary Works Yard development at 4244 Norland Avenue and a social housing development at 3986 Norland Avenue.

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The scope of work includes roadworks (paving and installation of curb & gutter and sidewalks), a new signalized intersection (at Norland and Ledger), streetlights, storm sewer, watermain, and service connections for the social housing development. Construction is anticipated to be completed in 2020. Funding on this project was also raised in January 2019 in the amount of \$725,000 in order to award the design and construction administration contracts. This funding for 2020 is being raised in order to award the contract for construction. Construction will be completed in 2020.

1.3 Gilmore Diversion Trail

Project Mask	2019	2020	Total
EMB.3164 MRN	200,000	300,000	\$500,000
Other			

Completion of the pedestrian and cycle connection between the existing urban trail on the west side of Gilmore Avenue at Still Creek Drive to the urban trail on the west side of Gilmore Diversion at Dominion Street. It is proposed that a 580m long section of urban trail be constructed across the Gilmore Overpass, including necessary upgrades to the pedestrian and cycling facilities and transit stops. Related urban trail upgrades north of Still Creek Avenue included in the original 2015 design will be reviewed and included in the proposed project. Civic communication conduits will be installed as part of this project.

The project will be re-introduced to the Ministry of Transportation, Translink, CMBC, ICBC and other key players in order to obtain the necessary permits, approvals and possible funding. Land and ROW acquisition will be required in two locations along the project to facilitate a relocated bus shelter and new sidewalk.

Staff will review the design proposed in 2015 to update the scope to reflect current needs. The updated scope will be tendered in 2019 for design updates, cost estimates, contract administration and inspection of the project. Construction will take place in 2020/21 and construction funding of \$3.7M in 2020 and \$ 200,000 in 2021 will be requested at that time.

1.4 Trenchless Rehabilitation

ELA.3161

Estimated \$400,000

This project is for the rehabilitation/replacement of sanitary and storm sewer mains using Trenchless Technology (including relining/bursting, etc.).

Work is identified through condition assessments and/or the need to use alternative methods of construction is identified during preliminary design. Project will be managed by City Forces.

Work is anticipated to be completed in 2019.

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1.5 Storm Extensions

Project Mask	2019	2020	Total
ELA.3179 Storm	175,000	225,000	\$400,000

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, 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

This funding will be for the design component of the Winter Storm Sewer Extensions Package. The design is anticipated to be completed in 2019.

1.6 Water & Sewer Pump Station Control Upgrades Phase 1

Project Mask	2019
EJA.3010 Water	152,000
EKA.3010 Sewer	142,000
Total	\$294,000

This project will upgrade or replace existing water and sewer pump stations' Remote Telemetry Units (RTU)'s and Programmable Logic Controllers (PLC's) as part of the City's ongoing infrastructure renewal program.

Scope of this project includes upgrades to both Pump Station and Pressure Release Valve (PRV) RTU's and PLC's, as part of a multi-year upgrade program.

Construction is anticipated to be completed in 2019.

1.7 Lougheed Hwy Upgrades - *EMA.3006* *Estimated \$110,000* Austin Road to Underhill Avenue

Infrastructure Planning, Transportation Services (Engineering) and the Planning Department have identified road improvements on Lougheed Highway, between Austin Road and Underhill Avenue, to provide street beautification, improve the flow of vehicle traffic, and improve bicycle and pedestrian accessibility and safety.

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The scope of work involves, 1) Streetscape beautification on Lougheed Highway, from Austin Road to Bell Avenue to the Town Centre Standard (north and south sides), 2) Beautification of all centre median under the SkyTrain guideway, 3) Installation of urban trails from Bell Avenue to Gaglardi Way (Austin Road to Keswick Avenue), 3) Installation of urban trails from Bell Avenue to Gaglardi Way, 4) Upgrading of road cross sections, intersections, medians, bus stops, etc., 5) Possible change in posted speeds along Lougheed Highway.

There is Translink funding available for this work which will be applied at year end and the bylaw funding will be returned.

This funding will be for the design component of this project. The design is anticipated to be completed in 2019.

1.8 6000 Thorne Avenue

ERA.0047

Estimated \$20,000

To complete works and services required for a defaulted land development project at 6000 Thorne Avenue. Funding for this project comes from a draw of \$1.805M of development bonds from the developer. Total project construction value in the 2019-2023 Capital Plan is \$2.803M. The City will attempt to seek recovery of the shortfall from the developer who defaulted on the land development project.

The scope of work in 2019 is minor project expenses while the site is under pre-load that was placed in 2018. Full construction will begin in 2020 for offsite improvements for the development at 6000 Thorne Avenue. Improvements will be completed on road works, street lighting, sanitary sewer, storm sewer, and watermain to provide site services to this development.

Construction on this project overall is anticipated to be completed in 2020.

These expenditures will be included in the 2019-2023 Annual Financial Plan and sufficient Capital Reserves 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 Reserves Fund Bylaw in the amount of \$3,530,000, the use of Sanitary Sewer Capital Reserve in the amount of \$142,000, and the use of Waterworks Utility Capital Reserve in the amount of \$807,000 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