

**FINANCIAL MANAGEMENT COMMITTEE**

*HIS WORSHIP, THE MAYOR  
AND COUNCILLORS*

**SUBJECT: 2019 FEBRUARY 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 \$8,225,700, the use of Sanitary Sewer Capital Fund in the amount of \$2,803,000, and the use of Waterworks Utility Capital Fund in the amount of \$1,032,300 to finance Engineering capital infrastructure improvement projects, as outlined in this report.

**REPORT**

The Financial Management Committee, at its meeting held on 2019 February 19, 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 Feb 19

**COMMITTEE REPORT**

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

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

**SUBJECT:** 2019 FEBRUARY 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.

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**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 \$8,225,700, the use of Sanitary Sewer Capital Fund in the amount of \$2,803,000, and the use of Waterworks Utility Capital Fund in the amount of \$1,032,300 to finance Engineering capital infrastructure improvement projects, as outlined in this report.

**REPORT**

**INTRODUCTION**

The 2019 – 2023 Provisional 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 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 financial plan.

**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 Fraser Foreshore Dyke Reach 8 Estimated 2,976,600**

<b>Project Mask(s)</b>	<b>2019</b>
ELA.3056 Storm	2,776,600
EMC.3056 Local Roads	200,000
<b>Total</b>	<b>2,976,600</b>

This project is intended to improve flood protection at the Reach 8 dike section and public access along the unpaved sections of previously constructed Fraser River foreshore dikes.

The Reach 8 Fraser River foreshore dike is located between Patterson Avenue (or Glenlyon Creek) and Byrne Road. Currently, the road allowance along Glenlyon Parkway is the current dike section between Glenlyon Creek and the Byrne Creek floodbox. A conventional setback earth dike was constructed between the Byrne Creek floodbox and Byrne Road.

**1.2 Combined Sewer Separation & Water Program Estimated \$2,944,700**

<b>Project Mask(s)</b>	<b>2019</b>	<b>2020</b>	<b>Total</b>
EKA.3071 Sewer	1,278,500	474,500	1,753,000
EMC.3071 Local Roads	464,600	727,100	1,191,700
<b>Total</b>	<b>1,743,100</b>	<b>1,201,600</b>	<b>2,944,700</b>

This sewer separation project is part of the City’s ongoing infrastructure renewal program involving separation of combined sewer as required under the Liquid Waste Management Plan (ILWRMP). Sewer separation minimizes volumes of combined sewer over-flow to the environment and the amount of wastewater that needs to be treated resulting in better allocation of resources, lower energy use and reduced environmental impact.

This project includes separation of combined sewers, including general arrangement and sizing of sanitary and storm sewers, replacement of aged watermains, where applicable, and related road rehabilitation. The work program will be completed by both contracted as well as City Forces.

**1.3 Boundary Lanes EKA.3144 Estimated \$500,000  
 Combined Sewer Separation**

Project Mask(s)	2019	2020	Total
EKA.3144 Sewer	200,000	300,000	500,000

This combined sewer separation project is part of the City's ongoing infrastructure renewal program involving separation of combined sewer as required under the Liquid Waste Management Plan (ILWRMP). Sewer separation minimizes volumes of combined sewer over-flow to the environment and the amount of wastewater that needs to be treated resulting in better allocation of resources, lower energy use, and reduced environmental impact.

This is a new project in 2019 and the funding will be used to award the design and contract administration for the construction to be completed in 2020.

**1.4 Kensington & Barnet Road Rehab Estimated \$4,196,900**

Project Mask(s)	2019	2020	Total
AEC.3145 Conduit	102,400	-	102,400
EJA.3145 Water	289,500	-	289,500
EMA.3145 MRN	2,305,000	1,500,000	3,805,000
<b>Total</b>	<b>2,696,900</b>	<b>1,500,000</b>	<b>4,196,900</b>

This project involves roadworks on Kensington Avenue, north of Sprott, and Barnet Road, east of North Cariboo Road to improve both vehicular and pedestrian/cyclist access at these locations while also strengthening traffic safety.

The work on Kensington includes pavement rehabilitation, watermain replacement, installation of a mid-block crossing with stairs to Bill Copland Sports Centre, and construction of a multi-use path to complete the network. The work on Barnet Road is mainly focused on pavement rehabilitation.

Design and contract administration were awarded in 2018. Construction is anticipated to be completed in 2019.

**1.5 Price Pressure Release Valve Station Replacement EJA.3149 Estimated \$642,800**

Investigate, design and construct a replacement for the existing Price PRV, as part of the City’s ongoing infrastructure renewal program. Manage Capital expenditures for City forces based upgrades to other PRV’s, as required. Consult with Pumps & Controls Div. for detail.

Design for this project was completed in 2018. Work in 2019 consists of construction of a replacement of the existing Price PRV, including electrical kiosk and Scada, 300mm diameter replacement feeder main along Price St, Inman to Patterson, suited to the existing site conditions and general requirements. Construction is anticipated to be completed in 2019.

**1.6 Trenchless Rehabilitation EKA.3161 Estimated \$450,000**

Rehab/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.

**1.7 Development Coordinated Works Estimated \$350,000**

<b>Project Mask</b>	<b>2019</b>
EJA.3169 Water	100,000
EKA.3169 Sewer	100,000
EMC.3169 Local Road	150,000
<b>TOTAL</b>	<b>350,000</b>

Through development services review, the Engineering Department may identify offsite improvements adjacent to development that are more effective and/or cost efficient to be delivered by or together with development projects.

The works are finalized upon final approval of the development by Council, and then a PO is set up. The works can take 1-5 years to complete, depending on the respective development timelines.

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

To: Chair and Members Financial Management Committee  
From: Director Engineering  
Re: 2019 ENGINEERING CAPITAL INFRASTRUCTURE  
BYLAW FUNDING REQUEST  
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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 \$8,225,700, the use of Sanitary Sewer Capital Fund in the amount of \$2,803,000, and the use of Waterworks Utility Capital Fund in the amount of \$1,032,300 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