

Meeting 2018 March 05

COUNCIL REPORT

## **FINANCIAL MANAGEMENT COMMITTEE**

HIS WORSHIP, THE MAYOR AND COUNCILLORS

SUBJECT: 2018 FEBRUARY ENGINEERING CAPITAL INFRASTRUCTURE BYLAW FUNDING REQUEST - TRANSPORTATION

#### **RECOMMENDATION:**

1. THAT Council authorize the City Solicitor to bring forward a Capital Reserve Fund Bylaw in the amount of \$4,502,300 to finance Engineering capital infrastructure transportation projects, as outlined in this report.

### **REPORT**

The Financial Management Committee, at its meeting held on 2018 February 15, received and adopted the <u>attached</u> report seeking funding for the 2018 Engineering capital infrastructure transportation projects: Light Emitting Diode Streetlight Conversion; Still Creek/Eastbrook Pkwy Intersection Controls; Minor Traffic Management Projects; Streetlight Service Panels; Traffic Signal Cabinet Replacement; Bus Shelter Program; Traffic Signal Communication; Security Hand Hole Covers for Street Lights; Parking Meter Equipment; Traffic Camera Replacement; Streetlight Pole Replacement/Local Road Network; Rapid Rectangular Flashing Beacons/Oakland; Traffic Management Centre; Streetlight Pole Replacement/Major Road Network; Traffic Signal Uninterrupted Power Supply; Audible Signals; and Special Crosswalk/Kincaid at Macdonald.

Respectfully submitted,

Councillor D. Johnston Chair

Councillor C. Jordan Vice Chair

Copied to: City Manager

Director Engineering
Director Finance
City Solicitor

Deputy Director Engineering

Assistant Director Engineering - Traffic



Meeting 2018 February 14

COMMITTEE REPORT

TO:

CHAIR AND MEMBERS FINANCIAL

DATE:

2018 January 29

MANAGEMENT COMMITTEE

FROM:

DIRECTOR ENGINEERING

FILE:

32000-05

SUBJECT:

2018 FEBRUARY ENGINEERING CAPITAL INFRASTRUCTURE

BYLAW FUNDING REQUEST - TRANSPORTATION

**PURPOSE:** 

To request funding to finance the 2018 Engineering capital infrastructure

transportation projects as outlined in this report.

#### RECOMMENDATIONS:

THAT the Financial Management Committee recommend Council authorize the City Solicitor to bring forward a Capital Reserve Fund Bylaw in the amount of \$4,502,300 to finance Engineering capital infrastructure transportation projects as outlined in this report.

#### REPORT

#### INTRODUCTION

In order to proceed with the award of contracts for design, administration and construction, funding approval is requested for the projects listed below.

#### 1.0 TRAFFIC

#### POLICY SECTION

The Traffic projects below are aligned with the City of Burnaby's Corporate Strategic Plan by supporting the following goals and sub-goals of the Plan.

- Safety Transportation Safety
- Dynamic City Facilities and Infrastructure

#### Light Emitting Diode Streetlight Conversion Ph 4/5 EMH.0020 estimated \$1,300,000 1.1

Phase 4 of a multiphase program to replace high pressure sodium (HPS) streetlights with more energy efficient light emitting diode streetlights. Phase 4 covers the northeast quadrant of the City and is the last phase covering the majority of City owned streetlights. Planned expenditures are anticipated to be in 2018.

To: Chair and Members Financial Management Committee

From: Director Engineering

Re: 2018 FEBRUARY ENGINEERING CAPITAL INFRASTRUCTURE

# 1.2 Still Creek/Eastbrook Pkwy Intersection Controls EMF.0072 estimated \$600,000

Upgrades to the existing 3-way stop signs are proposed at this intersection in 2018 due to increasing traffic along Still Creek. Two options are being considered (traffic signal or roundabout) and a staff recommendation will be made to the Public Safety Committee prior to proceeding. Planned expenditures are anticipated to be in 2018.

# 1.3 Minor Traffic Management Projects

EMF.0076

estimated \$500,000

Funding for a variety of minor traffic management projects to enhance traffic safety and/or operations in response to requests, staff initiatives or opportunities that arise during the year. Planned expenditures are anticipated to be in 2018.

## 1.4 Streetlight Service Panels

EMH.0021

estimated \$300,000

Many streetlight service panels require replacement due to age and exposure to maintain a safe and reliable streetlight system. None have been replaced for many years and the funding in 2018 will initiate the replacement program for this asset. Planned expenditures are anticipated to be in 2018.

## 1.5 Traffic Signal Cabinet Replacement

EMF.0070

estimated \$260,000

This program funds the ongoing replacement of old traffic signal control equipment and cabinets to maintain reliable traffic signal operation at all times. Locations are determined based on the age of the equipment as well as problems identified during regular maintenance. Planned expenditures are anticipated to be in 2018.

#### 1.6 Bus Shelter Program

EMF.0075

estimated \$200,000

This program continues the installation of new or replacement of older bus shelters throughout Burnaby. Installations improve amenities for transit users, increase revenues through their advertising panels, and increase operating/maintenance costs. Planned expenditures are anticipated to be in 2018.

#### 1.7 Traffic Signal Communication

EMF.0069

estimated \$200,000

This program funds the ongoing replacement of aging communication equipment (e.g. radios) that provides information from all signalized intersections in Burnaby back to City Hall. Reliable communications enables staff to continuously monitor the operation of the signal as well as make signal timing changes remotely. Locations are determined based on the age of the equipment as well as communication problems identified during operations. Planned expenditures are anticipated to be in 2018.

To: Chair and Members Financial Management Committee

From: Director Engineering

Re: 2018 FEBRUARY ENGINEERING CAPITAL INFRASTRUCTURE

BYLAW FUNDING REQUEST - TRANSPORTATION
2018 January 29....... Page 3

## 1.8 Security Hand Hole Covers for Street Lights EMH.0022 estimated \$200,000

To help prevent ongoing wire theft from streetlight poles, new secured (lockable) hand hole covers are recommended to replace existing unsecured hand hole covers. Planned expenditures are anticipated to be in 2018.

## 1.9 Parking Meter Equipment

EMG.0009

estimated \$175,000

This program funds new or replacement parking meter equipment as required. New installations would generally occur in high demand locations within the Council approved parking meter areas. In 2018 the use of multi-space pay stations and/or new single space parking meters will explored. Replacements would occur where meters are damaged or stolen. Planned expenditures are anticipated to be in 2018.

### 1.10 Traffic Camera Replacement

EMF.0067

estimated \$150,000

This program funds the ongoing replacement of aging traffic signal cameras that become less reliable. They are used to detect vehicles stopped at signalized intersections and to trigger the appropriate traffic signal control changes. Locations are determined primarily on the age of the equipment. Planned expenditures are anticipated to be in 2018.

## 1.11 Streetlight Pole Replacement/Local Road Network EMH.0019 estimated \$150,000

This program replaces streetlight poles along the Local Road Network (LRN) that are beyond their useful life or damaged. This program ensures the poles are structurally sound and may include the replacement of pole bases if required. Planned expenditures are anticipated to be in 2018.

## 1.12 Rapid Rectangular Flashing Beacons / Oakland EMF.0074 estimated \$100,000

The installation of a pedestrian crosswalk with rapid rectangular flashing beacons (RRFB) on Oakland at Dufferin is planned in 2018. The crosswalk will enhance the safety of pedestrian crossings at this location. Planned expenditures are anticipated to be in 2018.

5.C)

To: Chair and Members Financial Management Committee

From: Director Engineering

Re: 2018 ENGINEERING CAPITAL INFRASTRUCTURE BYLAW

FUNDING REQUEST

### 1.13 Traffic Management Centre

EMF.0077

estimated \$100,000

This project will initiate the creation of a Traffic Management Centre for Burnaby. This would allow staff to comprehensively collect and assess traffic data, monitor traffic conditions in real-time, improve response time to incidents, proactively adjust signal timings where required, and provide traffic information to the public. The initial steps would be to undertake a review of best practices and implement a centralized traffic monitoring centre. Planned expenditures are anticipated to be in 2018.

### 1.14 Streetlight Pole Replacement/Major Road Network

estimated \$132,300

This program replaces streetlight poles along the Major Road Network (MRN) that are beyond their useful life or damaged. This program ensures the poles are structurally sound and may include the replacement of pole bases if required. Planned expenditures are anticipated to be in 2018.

Project Mask	
EMH.0018	100,000
EMH.0017	32,300
Total	\$132,300

#### 1.15 Traffic Signal Uninterrupted Power Supply

EMF.0066

estimated \$55,000

The installation of Uninterrupted Power Supply (UPS) at an additional 16 traffic signal locations was planned for installation in 2017 to improve traffic safety and operations during power outages. Planned expenditures are anticipated to be in 2018.

#### 1.16 Audible Signals

EMF.0068 estimated \$50,000

This program funds the ongoing replacement of aging audible signals that provide crossing guidance at signalized intersections for people with visual impairments. Locations are determined based on the age of the equipment or where they have malfunctioned. Planned expenditures are anticipated to be in 2018.

#### 1.17 Special Crosswalk / Kincaid at Macdonald

EMF.0073

estimated \$30,000

The existing overhead down lit crosswalk on Kincaid at MacDonald is proposed to be upgraded to a special crosswalk with the addition of pedestrian push buttons and flashing beacons. This will address pedestrian safety concerns while walking in the vicinity of Burnaby General Hospital. Planned expenditures are anticipated to be in 2018.

To: Chair and Members Financial Management Committee

From: Director Engineering

Re: 2018 FEBRUARY ENGINEERING CAPITAL INFRASTRUCTURE

These expenditures will be included in the 2018 – 2022 Provisional Financial Plan and sufficient Capital Reserve Funds, 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 Reserve Fund Bylaw in the amount of \$4,502,300 to finance the Engineering capital infrastructure transportation projects as outlined in this report.

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

FV/ac

Copied to:

City Manager Director Finance

Deputy Director, Engineering Assistant Director, Traffic