## Engineering Capital Projects

**SEPTEMBER 2017** 

>2017 Projects

>2018 Projects

≻2019 Projects

>Other Projects

## **Millstone Trunk Sewer**

#### Scope:

•Upgrade approximately 1km of the millstone trunk sewer

Budget:\$3,024,000

#### Schedule:

- 2016 project
- Delayed due to weather
- Completion Sept 2017



## Millstone Trunk Sewer



# Terminal Avenue Utility Upgrade

#### Scope: •Utility Upgrades (2017) •Paving & Surface (2018)

2017 Budget: \$2,645,278

**2018 Budget:** \$2,145,621

#### Schedule:

Utility Upgrades - to be complete by the end of 2017.

Paving & Surface - Spring/Summer 2018 construction



# Terminal Avenue Utility Upgrade



# Linley Valley West Roundabout

#### Scope:

Dual lane RoundaboutAccess RoadMulti use trail

Budget: \$2,193,686

#### Schedule:

- Construction to be complete by end of 2017.
- Roundabout to be open September 17<sup>th</sup>.



## Linley Valley West Roundabout



# Hammond Bay Road Widening & Utilities

#### Scope:

- •Road Widening
- •Sidewalk
- •Street lighting
- •Slope improvements
- •Water replacement
- •Storm sewer replacement

**Budget:** \$2,208,322

**Schedule:** Delayed to 2018



# **Bastion Bridge**

#### Scope:

Bridge RehabilitationSeismic RetrofitGateway Feature

**Budget:** \$1,850,000

**Schedule:** On hold













## **Partners & Stakeholders**

# \$3,000,000 project cost share between Nanaimo and MOTI



Ministry of Transportation and Infrastructure







Island Corridor Foundation



Nanaimo Hospital

Emergency Services







## **2018 Projects**

**Chase River Pump Station** 

Wellcox Access

Georgia Greenway

Waterfront Walkway

**Emergency Water Supply** 

# Chase River Diversion Pumpstation

#### Scope:

•New pump station at 7<sup>th</sup> Street and Park Avenue

•New forcemain between 7<sup>th</sup> Avenue and RDN sewer @ Woodhouse & Eaton



# Georgia Greenway

#### Scope:

Pedestrian/cyclist bridge
Traffic calming
Multi-use Trail though Centennial Park

**Budget:** \$1,000,000

**Schedule:** Design 2017 Construction Summer 2018



# Waterfront Walkway

#### Scope:

- Work on Implementation Plan is underway
- Quick wins are being reviewed and design is starting on some sections
- Construction on some sections could start as early as 2018.



## **Wellcox Access**

#### Scope:

Interim Access – Front street to Cruise Ship Access – 2018
Secondary Access Study – Choose a secondary access to the land

#### **Budget:**

\$1,800,000

#### Schedule:

Secondary Access Study complete by fall 2017

Interim Access – Construction 2018.







Secondary Access

**Options Analysis** 10-reduced to 3 or 4

**Open House** October 2017

**Final Report** November 2017



# **Emergency Water Supply**

#### Scope:

New post disaster Emergency Water Supply Pump Station

**Budget:** \$3,3000,000 Possible Grant Funding

**Schedule:** Design 2017-2018 Construction 2018



## **2019 Projects**

Millstone Trunk Sewer (Bowen Park & Pearson Bridge)

**Jingle Pot & Westwood Signalization** 

## Millstone Trunk Sewer (Bowen Park & Pearson Bridge)

#### Scope:

•Replace Millstone Trunk Sewer through Bowen Park and under the Pearson Bridge

**Budget:** \$2,600,000

**Schedule:** Start planning and design in 2017 Construction in 2019



# Westwood & Jingle Pot Signalization

#### Scope:

New Signal at Westwood Road and Jingle Pot RoadReplacement of aging utilities

**Budget:** \$1,000,000

**Schedule:** Design Fall 2017 to spring 2018 Construction in 2019



## **Other Projects**

#### Boxwood

#### **Terminal Trench**

Madsen Road Upgrade

## Boxwood Connector Project



www.nanaimo.ca

## **Project Background:**

Demand on Bowen and Northfield

Limited access points to the Parkway

- Mostar Rd.
- Northfield Rd. ★
- > Third St.

For trips to/from the Parkway, Northfield is the best access route for a large part of Nanaimo





Highest intersection collision rate of all City intersections (not including shared intersections with MOTI).

PM peak period is regularly congested, delay extends into other time periods. Increasing traffic volumes



Pedestrian, Bicycle and Transit facilities are limited

- Poor access to Beban Park, Beban Plaza and surrounding properties.
- 5 Poor Ross

Poor configuration of Rosstown at Bowen







## **Project Background:**

**Project Considerations** 



## **Project Delivery**

- Considerable staff time and commitment for the project
- Long project timeline (first work started in 2006)

### **Technical**

- Complex geotechnical conditions and remediation plan
- Contaminated site
- Signal coordination



## **Project Background:**

**Project Considerations** 

## Public Consultation &

### **Communication**

- Change at Rosstown Road
- > Impacts to adjacent property owners
- Area land use





## <u>Financial</u>

- Large Roads DCC Expenditure
- ➤Long timeline \$2m spent to date, 12m in the budget.
- >Aspects of the project have uncertain costs



### **Project Timeline:**

Road Network & Traffic Pattern Changes



### **Project Timeline:**

Road Network & Traffic Pattern Changes





## 2018 Work

Site Grading, Remediation and Preloading

Site Remediation
Site Grading
Soil Preloading



## <u>2018 Work</u> Geotechnical Site Conditions







# Terminal Avenue Upgrades

#### Scope:

•Utility Upgrades•Repaving•Potential Street Upgrades

#### Budget:

•TBD

#### Schedule

•TBD •MOTI may be paving in 2019



# Terminal Avenue Upgrades



# Terminal Avenue Upgrades



# Madsen Road Upgrades

#### **Scope:** •Street upgrade

#### **Budget:**

•~\$3,000,000

**Schedule** •2021?



