



Engineering & Public Services

Quarterly Status Report

First Quarter 2006

January - March

ENGINEERING

Approved Capital & Supplemental Projects

The approved list of projects is attached to this report.

BYLAWS

Soil Removal & Deposit Bylaw

The revised Soil Removal and Soil Deposit Bylaw (combined in a single bylaw document) is currently with the District Solicitors for the preparation of the final draft.

Street & Traffic Bylaw

Council, upon considering the staff recommendations, adopted the following bylaws at the Regular Council Meeting held on March 20, 2006:

- Central Saanich Traffic and Highway Regulation Bylaw No. 1535, 2006 [A Bylaw to Regulate Traffic and the Use of Highways within the District of Central Saanich], and
- Central Saanich Ticket Information Utilization Bylaw Amendments Bylaw No. 1538, 2006 [To Replace Schedule 9 as it pertains to Traffic and Highways Regulation Bylaw No. 1535].

Projects

Transportation Planning Study Projects

Mt. Newton Cross Road Bike Route (Central Saanich Rd. to East Saanich Rd.) Council has approved \$74,000 in 2006 and \$12,000 carried over from 2005 is also available towards completion of this project in 2006. Works to begin May 15th.

CIPP grant application has been submitted for consideration to complete the Central Saanich Rd. to East Saanich Rd. section, Wallace Dr/Stelly's to White Rd., and White Rd. to Hovey in 2006.

- **Sidewalk Construction - Wallace Drive/Sluggett Rd. etc.** A staff report for Council consideration is under preparation listing the revised options, in discussion with Parks, Planning and the Police Services.
- **Grilse Lane/Bickford Lane** – Consulting with area residents – design in progress.
- **West Saanich Sidewalk – Dignan Rd. to Brentwood House** – being designed in-house.
- **Handicap Bus Pullout on Verdier Avenue** – 90% complete.
- **Terasen Gas** has assumed responsibility for damages on Keating X Road. Road works to begin shortly.
- **2006 Roads Inspection** – Complete and compiling works list.
- **Integrated Stormwater Management (ISMP) Study** The consultant's draft Terms of Reference and list of proposed stakeholder group are being reviewed by Staff.

Graham Creek

Education program near completion. Graham Creek effluent monitoring 2005 complete – presentation to Council January 23, 2005.

SCADA

All sanitary sewer lift stations are now complete with SCADA capabilities. All that remains to be completed is the "fine tuning" of the system to ensure it meets all the needs of Central Saanich in 2006.

Sewer System Modifications - \$120,000

The proposed projects this year are as follows:

- Root repairs - \$30,000
- Sewer Main replacement – Wallace/Woodward - \$25,000
- Sewer Main replacement – Wallace/Greig - \$30,000
- Sewer Main replacement – Sea Drive/Delamere - \$35,000

All design work is being undertaken by Staff inhouse. Design work is currently 40% complete. Construction to be completed by Public Works during the Summer/Fall of 2006.

West Saanich Road Traffic Corridor Revitalization

- The revised cost estimate for the watermain construction including engineering design, construction supervision fees and construction costs is \$467,450. The budget amount for this portion of the project in the 2005 Financial Plan is \$295,000. An additional \$169,000 has been allocated in 2006.
- Obtaining a qualified construction cost estimate to confirm dated Class 'A' cost estimate. If new estimate is within 5% of original estimate it is expected to go to tender.
- BC Hydro is re-designing the Verdier/West Saanich intersection to accommodate conduit only. Two options being looked at for this intersection are: temporary pole relocation, or power underground at this location.

Saanichton Bay Erosion Protection/Beach Access

Erosion control part of the project is complete. A beach access at the site will be completed in 2006 (\$12,500).

General Drainage Projects

- Mt. St. Michael ditch works 50% complete. To be completed in Summer 2006.
- Marin Park offer sent to property owners. Legal opinion obtained from LYA for next steps.
- Grilse Lane latecomer agreement has been signed.

Drainage Quality and Quantity

Peninsula Streams has supplied 2005 draft report and will continue with sampling and education in 2006.

Brentwood Bay and Saanichton Bay Public Docks

Replacement of the timber docking at Saanichton Bay is proposed to commence 01 May to 16 May, 2006. The facility will be closed to the public for this time period.

Cross Connection Control

Engineering Department staff (Mike van der Linden) has been appointed to the CRD Cross Connection Control Committee. The objective of the Committee is to implement a regional standard for the prevention of cross connections. Cross connections are the potential of backflow of non-potable water into our drinking water supply system. The Committee is in the midst of preparing a regional bylaw and best practices guide for the implementation of a suitable program. The Regional Medical Health Officer has issued an order that all municipalities in the CRD commence with a regional cross-connection control program by May 2006.

Smoke Testing - \$5,000

It is proposed to complete the smoke testing in September 2006. Testing will continue within the Brentwood Bay area.

Hagan Sewer Lift Station Repairs - \$225,000

It was found through metalurgical testing that a portion of the lift station manifold was severely corroded and required replacement. Since the station is "technically" owned by the CRD, the CRD offered to complete the repair with their resources using Central Saanich funds that they are currently holding. Work is scheduled for Summer 2006.

Saanichton PRV Upgrades

Design drawings are complete. Tenders to be received from qualified mechanical contractors by late May. Work to proceed during the summer of 2006.

Woodward Drive Watermain Replacement - \$75,000

It is proposed to replace the existing 100mm cast iron watermain on Woodward Drive between Jedora and Brentwood Heights. Cast iron watermain are brittle and subject to failure. Design is being undertaken inhouse by District staff and is currently at 50% complete. Work to be undertaken by Public Works during the Summer of 2006.

PUBLIC WORKS

Vehicle Equipment Maintenance

- ❖ Police – regular servicing of the fleet and outfitted the hybrid Civic for Community Services.
- ❖ Fire – provincial inspection and regular servicing of all fire equipment. Conducting pilot test of synthetic oil in work trucks.
- ❖ Roads/Drains – regular servicing and provincial inspections.
- ❖ Parks - regular servicing of vehicles and continued cooperation with parks staff to optimize well maintained and safe equipment operation.

- ❖ Water/Sewer – regular servicing and provincial inspections.
- ❖ Engineering and Inspections – regular servicing of vehicles.
- ❖ Strict stock control and implementation of new provincial inspection and safety code requirements.

Roads and Drain Maintenance

- ❖ Completed 1,100 meters of ditching.
- ❖ Removed 2,000 meters of road side berm.
- ❖ Cleaned all catch basins (1352).
- ❖ Trimmed 9 kilometers of road side brush on Mt. Newton X, Old West Saanich, Verling and Bryn roads.
- ❖ Inspected and repaired all sidewalks as per the sidewalk inspection policy.
- ❖ Started the major paving and pothole repairs.
- ❖ Reviewed storm main videos to access the status of the system and compile a list for flushing, root cutting and other repairs.
- ❖ Installed two new catch basins.
- ❖ Installed a culvert on Verdier to allow for a wheel chair accessible bus stop.
- ❖ Experienced three major wind storms and spent many hours picking up branches and debris.
- ❖ Completed the annual road surface survey to compile a work plan for chip seal, overlays, grind and pave and reclamation.
- ❖ Responded to three motor vehicle accidents for spill response and cleanup.
- ❖ Responded to five icy road events.
- ❖ Respond to customer service requests daily.

Water and Sewer Maintenance

- ❖ *The annual water main flushing program is underway.*
- ❖ *The water meter replacement program is underway as well as the installation of dual check valves.*
- ❖ *There have been a number of broken water saddles/connections on AC water mains.*
- ❖ *Cultra sanitary pump station kiosk has been repaired and two new pumps have been ordered.*

Parks Maintenance

- ❖ *Performed routine Parks tasks such as litter collection and trail maintenance within the Parks System.*
- ❖ *Routine grass cutting commenced in March.*
- ❖ *Planted over 400 native shrubs and trees at Edwin Beach, Malcolm Trail, Saanichton Bay and Centennial Park.*
- ❖ *The split rail fence along Wallace Drive at Centennial Park was installed.*
- ❖ *Dormant pruning of shrubs and trees is completed.*
- ❖ *Monthly park and playground inspections completed.*

Workplace Safety and Risk Management

In order to comply with Workers' Compensation Board (WCB) Regulations and limit the District's liabilities, the following steps were taken:

Weekly General Safety Meetings and Monthly Safety Committee Meetings were held at the Public Works Yard.

- ❖ *Ensured the completion of quarterly inspections:*
 - i. First Aid Kits*
 - ii. Eye wash stations*
 - iii. Emergency Lights*
- ❖ *Provided training/clinics for the following issues:*
 - i. Level 1 First Aid training*
 - ii. Traffic Control Person training*
 - iii. Hep A and B immunization*
 - iv. Joint health and safety committee training*
 - v. Supervisors safety management training*
- ❖ *Maintained storage of Safety & First Aid Supplies.*
- ❖ *Completed the annual Fall arrest wincher certification.*

Public Services

- ❖ *Fuel Tanks:*
 - i. Monitored tanks on a weekly basis to ensure that the tanks are not leaking, and*
 - ii. Physically inventoried tanks on a monthly basis to ensure that there is not any fuel loss.*
- ❖ *Processed 21 street light maintenance requests.*
- ❖ *Processed 89 requests for service.*
- ❖ *Completed the annual equipment survey.*

Public Works
Environmental Initiatives

- ❖ *Scraping out the grass and debris from sidewalks seems to prevent growth and reduce the need to use herbicides.*
- ❖ *Wood products are no longer burned at the Works Yard, they are sent for grinding and the byproduct is recycled.*
- ❖ *Dirty water from the sweeper is de-watered down the sanitary system to protect the ecosystem.*
- ❖ *All organic waste products are composted and produce topsoil for Public Works projects.*
- ❖ *All asphalt and concrete construction waste is returned to the production plant for recycling.*
- ❖ *Continue to implement the Integrated Pest Management program to reduce the use of pesticides in the community.*
- ❖ *Initiate the use of hybrid technology to reduce emissions and fuel consumption.*
- ❖ *Ongoing installation of low power LED lights so vehicles don't have to have the motor running on the job. This initiative reduces fuel consumption and reduces harmful emissions.*
- ❖ *A "NO UNNECESSARY IDLING" policy is in place for all public works vehicles to reduce emissions and reduce harmful emissions.*
- ❖ *A fuel additive is added to the diesel and gas to reduce emissions and add lubrication to reduce maintenance costs.*

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Municipal Engineer

April 28, 2006