



# Engineering & Public Services

## Quarterly Status Report

Third Quarter 2005

July - September

### ENGINEERING

#### **Approved Capital & Supplemental Projects**

The current status of the approved 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 anticipated to be available from the District solicitors during the month of October, 2005 for staff review and comments.

##### **Street Traffic Bylaw**

The draft Street and Traffic Bylaw was reviewed with the solicitor on August 30, 2005. District Solicitor will forward the revised bylaw for staff review and comments.

#### **Projects**

##### **Transportation Planning Study Projects**

- **Mt. Newton Cross Road Bike Route (Pat Bay Hwy. to East Saanich Rd.)** As the District was unsuccessful in obtaining the Cycling Infrastructure Partnership Program (CIPP) grant funding this year, the work on the Pat Bay Hwy. to Central Saanich Rd. section has been completed utilizing District funds. CIPP grant applications will be submitted for consideration to complete the Central Saanich Rd. to East Saanich Rd. section, Wallace Dr/Stelly's to White Rd. and White to Hovey in 2006.

- **Sidewalk Extension on Wallace Drive (Sluggett Rd. to Community Hall)**

Engineering design and cost estimates have been prepared. The revised cost estimate, including the design costs for this project is \$118,000. As the approved budgeted amount for this project is \$85,000, an alternate source of funding will be explored in consultation with the Finance Dept.

- Sidewalk works started on Keating Cross Road – infill.

- Bus shelter fronting West Corp. complete.

- Installed new pad and bus shelter at East Saanich Road and Stelly's Cross Road.

- **Wallace/Marchant Intersection** improvements to facilitate BC Transit bus turning movement is complete.

- **Integrated Stormwater Management (ISMP) Study**

District's grant application (50% of the project cost) to undertake ISMP Study for the three watercourses (Hagan Creek, Sandhill Creek and McHugh Ditch) has been approved by the Federation of Canadian Municipalities.

Implementation of this project is budgeted for 2006 (2005-2009 Financial Plan). It is intended to proceed with the preparation of terms of reference and the composition of the proposed stakeholder group, in 2005.

##### **Pavement Management Plan**

- 12,000m<sup>2</sup> repaved
- 42,500m<sup>2</sup> chip sealed

**SCADA**

Early approval has been granted for this years SCADA work. A quote from CRD for equipment and technical support for this years work was received in the value of \$37,266.12. Public Works staff will install the equipment under the direction of the CRD. The stations planned to be completed this year are Arthur, Cultra, Butchart, Silverdale, Lancelot, Butler and Holm. All hardware has been installed. Awaiting for CRD to configure and start up the stations.

**Sewer System Modification**

Council has approved \$120,000 in 2005 towards sewer system modification works in the District. \$60,000 has been identified for root repairs and the other \$60,000 is for the Hagan/Wallace sewer diversion. Hagan/Wallace design completed, construction to start in late October.

**Water Meter Replacement Programme**

Council approved \$100,000 in 2005 towards water meter replacement programme in the District. Public Works have completed this years program.

**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.
- MOT approval in principle has been received for the proposed round-about at the West Saanich Road/Verdier Avenue intersection. District Solicitor is preparing the draft Memorandum of Understanding (that the District will correct any traffic problems that may occur at the round-about as a result of its installation or layout) in this regard for MOT's review.
- Underground electrical (BC Hydro) construction estimate is expected in October 2005. Telus and Shaw Cable design and construction cost estimates may not be available due to ongoing job action at Telus.

- First Team Consultants are in the process of finalizing the street light and associated design components. A report summarizing the known final cost estimation for all components of the project (including the costs already incurred), prior to proceeding to tender.

**Saanichton Bay Erosion Protection**

In response to a request received from Mr. Scheuer of 2641 Lancelot Place, Council approved funding the entire cost of construction (estimated \$17,000) of the erosion control measures for the park frontage directly adjacent to the paved public pathway (+/- 15 metres).

The tender for the construction of the proposed erosion control measures has been advertised. The tender closes on October 11, 2005. Five construction firms attended site meeting.

**General Drainage Projects**

- Clarke Road ditch enclosure complete.
- Mt. St. Michael ditch works to start Oct. 12
- Marin Park properties ditching to start Oct. 20
- Grilse Lane survey/investigation started.

**Drainage Quality and Quantity**

Peninsula Streams sampling various locations and education flyers including site visits.

**Brentwood Bay and Saanichton Bay Public Docks**

The contract for the routine maintenance and upgrade of the Brentwood Bay & Saanichton Docks was awarded to Albatross Marine Ltd. The garbage pick-up at the two locations is being carried out by the Municipal crew.

Albatross's current contract has expired. Staff are currently negotiating with Albatross to review their contract.

**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.

**Smoke Testing - \$10,000**

Smoke testing completed. The testing found two homes out of 110 that had plumbing that introduced significant volumes of rain water into the sanitary sewer system. Staff will work with the home owners to correct.

**Wallace Hagan Sewer Diversion**

Existing sewers in rear yard easements are in poor condition. A new sewer main is proposed to divert the sewage on to Hagan Road. Design drawings are complete. Construction to proceed in October by Public Works.

**Saanichton PRV Upgrades**

Design drawings are complete. Work to proceed in November. Project to be completed by year end.

**Vehicle Equipment Maintenance**

- ❖ Police – regular servicing of the fleet and commencing research for hybrids for Community Services.
- ❖ Fire – provincial inspection and regular servicing of all fire equipment. Conducting pilot test of synthetic oil in work trucks and took delivery of the new pumper truck.
- ❖ Roads / Drains – regular servicing and provincial inspections. Put the new tar kettle into service and took delivery of the new backhoe and two sanders.
- ❖ Parks - Regular servicing of vehicles and continued cooperation with parks staff to optimize well maintained and safe equipment operation.
- ❖ 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 43,310 square meters of chip seal road resurfacing. Removed and repaved 3,450 square meters of asphalt on Early Place and a portion of Mt. Newton.
- ❖ Ground and repaved 3,120 square meters of Joffre Road, Larkvale Road, Rodolph Rd. and Mt. Newton at Central Saanich.
- ❖ Asphalt overlay of 5,180 square meters on Brentwood Drive and 700 square meters on Kersey Road.
- ❖ Continuing to mow the ditches of the municipality.
- ❖ Painted all cross walks and stop bars as well as all yellow curb and cross hatch.
- ❖ Completed 10.5 kilometers of road crack sealing.
- ❖ Repaired tide gate at Island View Beach.
- ❖ Installed the new pad and bus shelter at East Saanich and Stelly's.
- ❖ Enclosed 180 meters of storm drain ditch including shouldering, landscaping, catch basins and paving.
- ❖ Completed 500 meters of roadside ditch cleaning.
- ❖ Installed new wine route signs in conjunction with the Ministry of Transportation.
- ❖ Assisted other departments with asphalt repair, including patching the skateboard park.

**Water and Sewer Maintenance**

- ❖ Completed the second of three annual meter readings.
- ❖ Maintained the water pressure reducing valve stations.

- ❖ Completed the water valve maintenance program.
- ❖ Continued with the water meter replacement program.
- ❖ Installed new water services, fire hydrants and water mains as required by third Party requests.
- ❖ Completed the annual pump station maintenance program (40 pumps).
- ❖ Installed new sewer connections as required.
- ❖ Continued installation of the SCADA telemetric system as well as upgrading and improving existing installations.
- ❖ Ongoing removal of roots and installation of sewer inspection chambers.

### **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, and
  - iii. Emergency Lights
- ❖ Provided training/clinics for the following issues:
  - i. Supervisor Safety Management
  - ii. Joint Health and Safety Committee Training
  - iii. Scheduled flu shots
- ❖ Maintained storage of Safety & First Aid Supplies.

- ❖ Complied with a Safety Order requiring immediate inspection and weekly monitoring of compressors and air receivers.

### **Parks Maintenance**

- ❖ Performed routine Parks tasks such as litter collection and trail maintenance within the Parks system.
- ❖ Routine grass cutting within our community, neighbourhood and nature parks.
- ❖ Monthly park and playground inspections completed.
- ❖ Water management upgrading/redevelopment of the sections of the existing irrigation system at Municipal Hall completed.
- ❖ Fall field maintenance completed at Centennial Park.
- ❖ Blossom Park Playground replacement/upgrading completed.
- ❖ Routine painting of barricades, tables, etc.
- ❖ Tree management is underway, and assisting with other Departments with tree related issues.
- ❖ Saanichton Green Playground expansion completed, and Simpson Walkway lighting and Fairmeadow lighting installed.

### **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 22 street light maintenance requests.
- ❖ Completed the annual survey of all municipal and Hydro streetlights (700 total).
- ❖ Processed 131 Requests for Service.

- ❖ *Completed updates on the Central Saanich bulletin board for Public Works in regard to posting a "Purchasing Opportunities" section to the business page.*
- ❖ *The mosquito abatement program and West Nile Virus initiative are completed.*

### **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.*

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