

TO: CITY MANAGER 2004 FEBRUARY 23  
 FROM: CHIEF INFORMATION OFFICER File: IS-RTC  
 SUBJECT: CITY MAPPING SYSTEM UPGRADE  
 PURPOSE: To request \$145,000 in funding to upgrade the City's mapping system.

**RECOMMENDATION:**

1. **THAT** a \$150,800 Capital Expenditure Bylaw (inclusive of 7% GST) be brought down for the purchase of implementation services, equipment and licencing to upgrade the City's mapping system.

**REPORT**

In 2002, the Burnaby WebMap team developed and implemented a Geographic Information System (GIS) system with the provision of public Internet access. Consulting expertise was provided in training staff to move to this new technology. In 2003, the City's GIS team implemented an upgrade to the mapping software. In 2004, additional consulting expertise, equipment and licencing are needed to provide additional functionality, thus, continuing the enhancement of the GIS system.

This year's project is a continuation of improvements to the mapping based system, which is necessary to develop and integrate the GIS and other corporate databases. The 2004 task list and cost breakdown is as follows:

Tasks	Task Description	Costs
1	Completing the upgrade of GIS software to the latest software version by purchasing additional plotting software.	\$ 35,000
2	ArcIMS, our Internet and Intranet usage system has increased substantially necessitating additional equipment and licencing to improve response times.	25,000
3	Create access and printing capabilities at the Planning and Engineering front counters using consulting expertise and purchasing desktop equipment and printers.	35,000

4	Utilize consultants to create mapping data which can be easily imported into planning reports and extract GIS information into files for staff manipulation. This will streamline reporting and assist in data analysis.	10,000
5	Create up-to-date orthophoto maps, which are cost shared between Vancouver and Burnaby. These maps should be updated every two years to maintain currency in our aerial photographs..	25,000
6	Purchase an additional access licence module since more staff are utilizing the system.	15,000
	<b>TOTAL COSTS</b>	<b>\$145,000</b>

This portion of the GIS project will include the following benefits:

- to maintain and enhance the existing product providing and creating additional access to users against the GIS data;
- consulting expertise will be used to train our staff enabling the City to produce enhancements and handle maintenance functions internally
- to create up-to-date information and the staff and public will view; and
- provides a corporate view to WebMap by increasing the access to user departments.

#### FINANCING

The impact on future operating budgets for this portion is about \$2,500.

Sufficient Capital Reserves are available and this project is included under the 2004 Information Services component of the 2004-2008 Capital Program.



Brian Sameshima  
CHIEF INFORMATION OFFICER

RE:bs

cc: Director Engineering  
Director Finance  
Director Planning