

Drainage	\$10.9 m	\$3.3 m		m	\$14.2 m
2004 Total Capital Budget					\$92.1 m

The 2004 Capital Program was the largest ever in the City's history, in part due to the major pre-servicing project in Campbell Heights with 50% funding (\$6.7 m) from our private sector partner, the Campbell Heights Group. A second factor was Council's approval to accelerate the 2004 program via borrowing from the Legacy Fund to take advantage of 2004 contract prices ahead of anticipated construction price increases in the run up to the Olympics. Based on this approval, \$6.4 million was borrowed which will be paid back in 2006, 2007, and 2008. These amounts, together with developer contributions toward City Capital work, are included in the funding identified as 'ICBC and Other.'

The Capital Program is focused to meet the Corporate strategic priorities set by Council, meet the needs of the growing residential, commercial and industrial development, as well as to provide a continuing high level of basic sewer, water, drainage and roads services for the residents and businesses of Surrey.

The following tables highlight some of the key projects of the 2004 Capital Program.

Highlights of Roads Program

<i>Location</i>	<i>Description</i>	<i>Cost (\$ millions)</i>
Fraser Hwy: 160 Street – 168 Street	Arterial widening to four-lane divided standard including landscaped medians and boulevards.	\$8.2
64 Avenue: 14300 Block – 146 Street 16900 Block – 175 Street	Arterial widening to four-lane divided standard including additional traffic signals and landscaped medians.	\$4.4
128 Street: Highway #10 – 64 Avenue	Arterial widening to four-lane divided standard including landscaped medians.	\$3.5
72 Avenue: 140 Street – 144 Street	Arterial widening to four-lane divided standard including	\$2.5

	landscaped medians.	
82 Avenue: 152 Street – 160 Street	Major collector upgrading, with traffic calming (curb bulges) at intersections.	\$1.1
King George Hwy at Colebrook Road	Bridge repair/rehabilitation.	\$1.5
88 Avenue at Serpentine River	Bridge replacement and flood protection for road.	\$1.9
192 Street at Nicomekl River	Bridge replacement.	\$1.5
Various Locations	Program of arterial road repaving to provide long term/least cost approach for road system.	\$4.1
Various Locations	Program of minor and collector road repaving to provide long term/least cost approach for road system.	\$1.9
Various Locations	Pathway construction for Serpentine Greenway System, cycling network improvements, sidewalks and pedestrian signals.	\$3.7
Various Locations	Installation of new (12) and rebuilding of existing (8) traffic signals, and intersection improvements.	\$2.7
Various Locations	Traffic calming measures including curb bulges, raised crosswalks, and speed humps.	\$0.7

Highlights of Water Program

<i>Location</i>	<i>Description</i>	<i>Cost (\$ millions)</i>
Fraser Hwy: 160 Street – 164	Replacement and upgrade of existing water main in	\$0.9

Street	coordination with road project.	
Water Meter Program	Continue the residential volunteer program under the Infrastructure Program (5,500 installed).	\$2.7
Various Locations	Replacement and upgrade of existing water mains.	\$1.8
Various Locations	Installation of new trunk water mains.	\$1.6

Highlights of Sewer Program

<i>Location</i>	<i>Description</i>	<i>Cost (\$ millions)</i>
East Newton (Burkhart) Sanitary Pump Station	Constructed a new pump station to provide sanitary service to the East Newton Business Park NCP Area.	\$1.5
64 Avenue: 149 Street – 152 Street	Installed new sanitary main to service East Newton NCP Area in coordination with road project.	\$0.7
Various Locations	Relief sewers to bypass existing overcapacity sections.	\$2.5
Various Locations	Replaced bitumen fibre pipe service	\$0.2

	connections.	
Various Locations	Inflow & Infiltration Reduction.	\$0.4

Highlights of Drainage Program

<i>Location</i>	<i>Description</i>	<i>Cost (\$ millions)</i>
Inter-Rivers Conveyance Works	Upgrades and improvements to existing ditches and construction of new ditches.	\$1.8
Sullivan Park Detention Facility	Detention pond integrated into play field within South Newton NCP.	\$0.5
Collieries Canal Upgrade: Delta Creek to Manson Canal	Enlarge Canal as part of Manson Canal improvement plan.	\$0.5
Manson Pump Station Upgrade	Install new pump to increase capacity as part of Manson Canal improvement plan.	\$0.4
North and West Cloverdale Dykes	To protect lowlands from storm water runoff from the uplands.	\$0.5
Northview Dykes	To protect lowlands from upland storm water runoff.	\$0.5
Old Logging Ditch Conveyance Works	Upgrade existing lowland ditches to provide more conveyance capacity and freeboard.	\$0.4
King Road Emergency Slope Stabilization	Slope stabilization in response to failure resulting from heavy rains.	\$0.3
Surrey's Creeks and streams	SHaRP 2004 program of habitat restoration in Surrey's creeks plus environmental education and mapping work.	\$0.2
Various Projects	Upgrade and improvements to existing storm sewer, culverts, ditches and other drainage facilities.	\$0.5

Pre-Servicing Program

<i>Location</i>	<i>Description</i>	<i>Cost (\$ millions)</i>
Campbell Heights	Site preparation and construction of first phase of utilities (sanitary pump station, gravity and forcemain sewers, drainage channels, and watermains) and roads.	\$13.5

Summary Comments

The works outlined in the previous tables have been constructed to meet the needs of a growing City of Surrey and to meet strategic objectives established by Council including dealing with specific issues such as:

- Pre-servicing to improve value of city industrial lands and the City's industrial tax base through Campbell Heights development;
- Capacity, safety, and beautification improvements to City arterial roadways; and
- Improved drainage and water supply for the agricultural areas.

All the 2004 Capital Works projects were completed, or are projected to be completed, within their budget allocations.

The volume of work in 2004 was a challenge for all those involved, including staff, engineering consultants, contractors, and external utility companies (BC Hydro, Telus, and Shaw, etc.). Extra effort was especially concentrated on the servicing of Campbell Heights which had to be substantially complete by year end to allow a major business to move into their new plant. The volume and accelerated time frame for the roadworks has been especially challenging for BC Hydro and Telus regarding relocating their cables and pole lines. The City is actively working to improve coordination with both of these utilities to facilitate this relocation work as road projects cannot be completed until pole relocation is finished. Currently the time taken for the utility companies to design and construct the relocations is causing delays in the City's road program.

The one project where the contractor has made slower progress than normal is the widening of Fraser Highway: 160 – 168 Street. Staff are continuing to press the contractor to achieve faster progress. Final completion of this project is also dependent on pole relocations, and at this time is estimated for late Spring.

2004 marked the largest Capital Program in the history of Surrey. The entire program was delivered without major issues other than the delays outlined previously.

Paul Ham, P. Eng.
General Manager, Engineering

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