



Corporate *NO: R022*

Report *COUNCIL DATE: February 17, 2003*

REGULAR COUNCIL

TO: **Mayor & Council** DATE: **February 5, 2003**

FROM: **General Manager, Engineering** FILE: **2141-001**

SUBJECT: **Status Report on 2002 Capital Construction Program forRoads, Water, Sewer and Drainage**

INTENT

To provide Council with a status report on the 2002 Capital Construction Program for roads, water, sewer, and drainage.

BACKGROUND

The 2002 Construction Program is now substantially complete and this report provides a brief overview of what has been constructed and an overall assessment of how this construction went.

2002 Capital Program Highlights

Earlier last year we provided Council with a copy of the full 2002 Capital Construction Booklet, which outlined all the capital works for this year. This overall Capital Program for 2002 was funded as follows:

	<i>General Revenue</i>	<i>GVTA</i>	<i>DCC's</i>	<i>ICBC & Other</i>	<i>Total</i>
Roads	\$4.9 m	\$5.3 m	\$12.1 m	\$0.2 m	\$22.5 m

	<i>Utility Funding</i>	<i>DCC's</i>	<i>Local Improvement Funding</i>	<i>Total</i>
Water	6.7 m	1.3 m	0.3 m	\$ 8.3 m
Sewer	1.9 m	1.5 m	0.5 m	\$ 3.9 m
Drainage	8.8 m	2.2 m		\$11.0 m

2002 Total Capital Budget for Road, Water, Sewer &
Drainage

**\$52.8
m**

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 meet the existing ongoing needs to provide a continuing high level of basic sewer, water, drainage and roads services for the residents and businesses of Surrey.

The following tables give some of the key highlights of the Capital Program.

Highlights of Roads Program

<i>Location</i>	<i>Description</i>	<i>Cost (\$ millions)</i>
Fraser Highway: 151 Street – 160 Street	Interim arterial widening to four-lane divided standard, centre landscaped medians and ultimate sidewalk on south side.	\$7.5
Scott Road: 96 Avenue – 103A Avenue	Phase Three of Scott Road upgrading, including overpass at 102 Avenue, widening to four-lane divided standard plus truck	\$2.9

	climbing lane.	
152 Street: Fraser Hwy. – 99 Avenue King George Hwy.: 108 Ave. – 132 St.	Addition of landscaped medians.	\$0.5
86 Avenue: 128 Street – 130 Street	New major collector construction	\$0.5
Various Locations	Program of arterial road repaving to provide long-term / least cost approach for road system.	\$2.9
Various Locations	Program of minor and collector road repaving to provide long-term / least cost approach for road system, bus stop improvements, upgrading of school drop-off/pick-up bays and sidewalks at various locations.	\$1.9
Various locations	Pathway construction for the Serpentine Greenway system, 3 new traffic signals and intersection improvements at various locations.	\$1.4

Highlights of Water Program

<i>Location</i>	<i>Description</i>	<i>Cost (\$ millions)</i>
Fleetwood Pump Station	New pump station to improve pressure and flow distribution in the Fleetwood area.	\$3.2
Fraser Highway: 150 Street to Venture Way	Replacement and upgrading of existing cast iron and asbestos cement mains in coordination with the road widening project.	\$0.5
Whalley - Guildford	Installed multiple valves to allow for the reduction in area of the Whalley High-Pressure Zone.	\$0.6
Water Meter Program	Implement a residential volunteer program over 3 years and replace faulty meters.	\$0.5
Sunnyside Wells	Upgrade of wells to provide emergency back-up water supply to South Surrey. Reduce reliance on GVWD source.	\$0.4
40 Avenue: 15500 block to 16500 block	Provide "Agricultural" water supply to the benefiting property owners that have petitioned for the project.	\$0.1
Kennedy Pump Station	Optimize the pump station's output and performance.	\$0.8

Highlights of Sewer Program

<i>Location</i>	<i>Description</i>	<i>Cost (\$ millions)</i>
192 Street/Highway #10 to 188 Street/52 Avenue	600mm Langley Bypass Trunk Phase 1	\$1.3
Various Locations	Relief Sewers to bypass existing over-capacity sections.	\$1.0
Various Locations	Local Improvement Sewers	\$0.5
Various Locations	Inflow and infiltration reduction through sanitary sewer rehabilitation.	\$0.3
Greenway Drive	Greenway Pump Station for new development area.	\$0.8

Highlights of Drainage Program (Including Flood Control Program)

<i>Location</i>	<i>Description</i>	<i>Cost (\$ millions)</i>
Central Serpentine Dykes	Enlarging dykes to protect the lowlands from the upland stormwater runoff.	\$2.1
Guildford Storm Upgrade	Upgrade and improve the existing storm sewer and optimize use of the existing detention ponds	\$0.7
Inter-River Serpentine Pump Station	To improve drainage in the lowlands at 150 Street and Serpentine River.	\$0.5
100 Avenue Diversion	Storm sewer trunk diversion to Guildford Detention pond to protect Upper Serpentine River.	\$0.5
Gray Creek Pump Station	To improve drainage in the lowlands from the Gray Creek catchment.	\$0.6
Inter-River 48 Ave Pump Station	To improve drainage in the lowlands at the 48 Avenue and Serpentine River.	\$0.5
Upper Serpentine Dykes	Enlarging dykes to protect lowlands from storm water runoff from the uplands.	\$1.4
Lower Serpentine Dykes	Enlarging dykes to protect Serpentine lowlands from upland storm water runoff.	\$0.4
Fry's Corner Conveyance Works	To improve the conveyance of ditches in the Fry's Corner catchment to the pump station.	\$0.7
Bolivar Creek Diversion	To facilitate City Centre development and protect Bolivar Creek (Phase II of III).	\$0.9
Fraser Highway Storm Upgrade	Upgrade the existing storm sewer to alleviate upstream pipe problems.	\$0.5
Fleetwood Diversion	To protect Fleetwood Creek from erosion by future storm water runoff from development.	\$0.3
Hunt Brook Bank Stability	Slope stability works to protect private properties from erosion along Hunt Brook.	\$0.4
Surrey's Creeks and streams	SHaRP 2002 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.	\$1.0

Pre-Servicing Program

<i>Location</i>	<i>Description</i>	<i>Cost (\$ millions)</i>
54 Avenue east of 152 Street	Pre-servicing of City-owned Panorama East industrial lands.	\$0.7
115A Avenue: 130 to 132 Streets	Pre-servicing of City owned Bridgeview industrial lands.	\$1.5

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:

- Capacity, safety and beautification improvements on Scott Road hill and Fraser Highway;
- Improved drainage and water supply for the agricultural areas;
- Preservicing to improve value of city industrial lands and the city's industrial tax base; and
- Improved water pressure and security of supply in North Surrey.

All the 2002 Capital Works Program has been completed within the overall budget provided by Council. Additional scope was added to a number of contracts to take advantage of having additional work constructed taking advantage of lowest tendered rates while the contractor was mobilized and working in a particular area. All such scope additions were added in accordance with established City operational procedures.

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