

RESUME

Brian Snow, PEng
Senior Civil Engineer

Education

*University of
New Brunswick
B.A.Sc. ,Civil
Engineering: 1979*

Professional Registration

*Professional Engineer
British Columbia*

Professional Affiliations

*Association of
Professional
Engineers of B.C.*

*Transportation
Association of Canada*

*Canadian Technical
Asphalt Association*

*B.C. Water and Waste
Association*

*Public Works
Association*

Brian Snow has over 30 years experience managing the management, design and construction of Municipal infrastructure and Transportation projects. Most projects have been for Municipal clients involving road system upgrades, pavement rehabilitation, sanitary sewer upgrades, and drainage improvements. Brian's "hands-on" approach with each project results in involvement at every level through design, contract preparation, and contract administration. Mr. Snow has also specialized in non-conventional design and testing methods for municipal infrastructure rehabilitation.

SELECTED PROJECT EXPERIENCE

*96 Avenue: 168 to Golden Ears Way-
City of Surrey, BC*

Brian was Project Manager for this \$10 million project which involved upgrading an MRN road adjacent to park lands and watercourses. Key issues involved included creating "self-mitigating" drainage designs through the environmentally sensitive sections of Tynehead Park impacting the Serpentine River, Asacon Creek and numerous tributaries. A series of hillside clarification ponds was designed to collect runoff, treat it through natural media, and return it to fish bearing watercourses at a controlled rate. Project also included 750mm diameter watermain upgrade, road widening, and raised medians.

An Environmentally Sustainable alternative was developed for a retaining wall required to separate a sensitive vegetated area adjacent to the road widening. Shot-crete retaining walls with a simulated granite face were used rather than conventional excavation and wall construction. This concept not only prevented disturbance of existing habitat, but also resulted in less property (Metro Vancouver Park) being impacted by construction activities.

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MRN and Arterial Repaving Programs City of Surrey, BC and New Westminister, BC

Brian was the Project Manager for many years of repaving programs involving hundreds, if not thousands, of kilometers of streets for both City of Surrey and City of New Westminister. In addition to design and construction, he was involved with pre-qualification of paving contractors for major projects. Brian wrote the specification used by many clients for asphalt price adjustment and was among the first to specify SuperPave and Warm Mix Asphalt mixes.

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Watermain Replacement Programs City of Burnaby, BC

Brian was the Project Manager for several watermain replacement programs. These programs also include pavement rehabilitation and asset management as part of the project.

Professional Affiliations

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*B.C. Water and Waste
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*Public Works
Association*

Combined Sewer Separation Programs City of Burnaby, BC

Brian was the Project Manager for several projects where the focus was to separate combined sewers to separate storm and sanitary mains. Trenchless options to reuse existing facilities were investigated and implemented. These programs also include pavement rehabilitation and asset management as part of the project.

Bolivar Heights / City Center Trunk Storm Main City of Surrey, BC

Brian was Project Manager for this project involving upgrading of trunk sewer mains and re-routing to right of ways. CCTV inspections were reviewed to assist in developing the program.

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South Fraser Way Arterial Highway (South Fraser Perimeter Road)
City of Surrey, BC

Brian was Project Manager for this new regional transportation facility commencing at the Surrey / Delta border and extending east to link with Industrial Road. This 4.5 km section of road was designed to Ministry of Transportation and Highways criteria at a capital cost of over \$10 million. The assignment included route planning, crossing of aquatic habitats, drainage, construction of sanitary forcemain, railway crossings, trestle bridge modifications, watermain replacement, and construction over soft soils. Light weight fills and special telescopic manhole designs used to protect and adjust GVS&DD trunk sanitary sewers.

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Canada Way at Boundary Road Intersection Realignment
City of Burnaby, BC

Brian was the Project Manager for this road / intersection widening and realignment to improve intersection function. Project included drainage, lighting, traffic signals, landscaped medians, and coordination with City of Vancouver.

Professional Affiliations

*Association of
Professional
Engineers of B.C.*

2010 LASP
City of Burnaby, BC

*Transportation
Association of Canada*

Local / Collector street upgrades at multiple locations. This was one of the first projects we completed that included TCA reporting for street segments and asset types in format consistent with City of Burnaby Requirements.

*Canadian Technical
Asphalt Association*

104 Avenue: 134 Street to King George Highway
City of Surrey, BC

*B.C. Water and Waste
Association*

*Public Works
Association*

Brian was Project Manager for design and construction of this arterial roadway. The project involved replacement and capacity increase of the existing aged sewer (on piles), road widening and upgrade to ultimate standard, ornamental lighting and streetscaping.

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*140 Street: 92 Avenue to 96 Avenue
City of Surrey, BC*

Education

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Brian was the Project Manager for road, drainage, and related work to upgrade this section of road to ultimate arterial standard. A drainage study revealed deficiencies in the storm sewer system requiring capacity and functional changes. Road widening required coordination and property negotiations with elementary school and educational center for children with cerebral palsy, special needs access and mobility provisions, raised landscaped medians, crossing high pressure gas mains, traffic signal upgrades, and relocation of overhead utilities.

Professional Registration

*Professional Engineer
British Columbia*

*180 Street: 60 Avenue to Highway 10
City of Surrey, BC*

Brian was Project Manager for a project involving replacement of existing sanitary sewer to increase system capacity. The old system was decommissioned and all services transferred to new main.

Professional Affiliations

*Association of
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*Transportation
Association of Canada*

*Canadian Technical
Asphalt Association*

*B.C. Water and Waste
Association*

*Public Works
Association*

*18 Avenue at 152 Street: Sanitary Main Extension
City of Surrey, BC*

Brian was Project Manager for this assignment that involved development of feasible alternatives to provide gravity sanitary service to new RCMP / Semiahmoo Library facility. Designed, tendered and constructed with directional drilling techniques.

*South Delta Sanitary Forcemain
Corporation of Delta, BC*

Brian was Project Manager for this project. The work involved design of a new sanitary sewer Forcemain (HDPE) to provide capacity increase. Project also involved property (easement) acquisitions, coordination with farming activities, connection methods to existing system.

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168 Street / 88 Avenue Drainage and Roads
City of Surrey, BC

Brian was the project manager for road design and construction and for construction of the drainage facilities. Project included control facilities, trunk mains, major profile improvements, detention pond, utility relocation, watermain relocation and pressure reducing station upgrade.

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Watermain Replacement Program
Village of Lions Bay, BC

Brian managed this multi-year program that involved creating a model for the village, preparing a water audit and leak detection survey, developing a program for main replacement and funding applications.

Professional Registration

Professional Engineer
British Columbia

108 Avenue / 110 Avenue Drainage
City of Surrey, BC

Brian was the project manager for this assignment that included planning for ultimate road and design and construction of drainage facilities. The drainage improvements included a multi staged detention pond (expanded as development occurs), flow control structures, ditch elimination and installation of new trunk sewer. Planning for improvements to road network was required as well as a public meeting to review options with neighbourhood.

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