

NO: R067

COUNCIL DATE: April 18, 2011

REGULAR COUNCIL

TO: **Mayor & Council**

DATE: **April 8, 2011**

FROM: **General Manager, Engineering**

PROJECT FILE: **1708-057/B**

SUBJECT: **Update on the Surrey Projects in the Roberts Bank Rail Corridor Program**

RECOMMENDATION

The Engineering Department recommends that Council receive this report as information.

INTENT

This report provides a status update on the selection of a Design-Build Team for the design and construction of the Roberts Bank Rail Corridor Program “Combo” Project. This project consists of railway grade separations and related road works at 192 Street, 54 Avenue and 196 Street.

BACKGROUND

The Roberts Bank Rail Corridor Program in Surrey consists of the construction of road/rail grade separations at 152 Street, 192 Street, 196 Street and 54 Avenue and road works and at-grade crossing improvements and closures to allow for the cessation of train whistling along the majority of the B.C. Railway corridor through Surrey. The proposed Program will be funded by way of contributions from Transport Canada, Port Metro Vancouver, BC Ministry of Transportation & Infrastructure, BC Railway Company, CP Rail, Canadian National Railway, BNSF Railway, City of Langley, Township of Langley and the City of Surrey. Contributions from the funding partners will total 87.7% of the cost of the works in Surrey with the City of Surrey being responsible for the remainder. The City of Surrey is the delivery agent for the projects in Surrey that are part of the Program.

The grade-separations and other works will provide relief to Surrey road users that are affected by rail traffic. The project will reduce delays caused by rail traffic at intersections with major roads and will allow for an enhanced environment by eliminating train whistling at railway crossings along the majority of the B.C. Railway corridor in Surrey.

DISCUSSION

The 192 Street, 54 Avenue and 196 Street grade separations (see the attached Appendix I) will be delivered as one combined design-build project, referenced as the “Combo” Project. A Design-Build (DB) process was chosen as the delivery method for this project. The DB process provides greater opportunity for innovation and efficiency in “value engineering” the design based on “constructability” knowledge and a higher level of competitiveness can be gained from major

firms with the ability and capacity to carry out large-scale projects. It is also noted that the projects are in relatively close proximity to one another and therefore lend themselves to a joint project.

To initiate the procurement process, a Request for Credential Submissions from design-build teams was issued on BC Bid, on the City's website and in the Journal of Commerce. The submission process closed on March 16, 2011 with submissions received from ten teams involving a total of eighty-six construction and engineering design companies. These teams are listed in Appendix II.

An independent Evaluation Team, supported by an independent team of technical specialists, was retained by the City to undertake an evaluation of the ten credential submissions. The Evaluation Team and technical specialists are listed in Appendix III. The evaluation process was based on the following criteria:

- Team Composition and Organization
- Team Members and Key Personnel
- Project Understanding and Vision

Based on this evaluation three teams were short-listed; these being:

- **Graham Infrastructure** a JV, supported by B&B Contracting Ltd., Brybil Projects Ltd., Thurber Engineering Ltd., PBA Engineering Ltd., Summit Environmental Consultants Ltd., ECL Envirowest Consultants Ltd., and Jack Stuempel & Associates Ltd;
- **BA Blacktop Ltd.**, supported by Coquitlam Ridge Constructors Ltd., Vancouver Pile Driving Ltd., Trans-Western Electric Ltd., McElhanney Engineering Services Ltd., Buckland & Taylor Ltd., Trow Associates Inc., DMD & Associates Ltd., Karyo Edelman Communications Inc., and Opus International Consultants; and
- **SNC-Lavalin Constructors**, supported by Tyam Group, SNC-Lavalin Inc., ISL Engineering and Land Services Ltd., Golder Associates Ltd., DMD & Associates Ltd., and ECL Envirowest Consultants Ltd.

These three short-listed teams will each be invited to submit detailed engineering design and price proposal to construct the Combo Project, which will be subjected to a second evaluation process. This evaluation process is expected to be complete in July 2011, which will be followed by a report to Council recommending the award of the design-build contract to the selected team.

Other Projects in Surrey that are Part of the Roberts Bank Rail Corridor (RBRC) Program

The other two projects in the RBRC Program in Surrey are:

- the 152 Street Grade Separation; and
- the Panorama Ridge Whistle Cessation Project (involving at grade rail crossing improvements, siding construction and road works).

Each of these projects is being delivered through a conventional design-bid-build process. A separate corporate report for each of these projects containing a recommendation for the award of a contract for construction is expected to be forwarded to Council for consideration in July 2011.

Property acquisition has commenced for all of the referenced projects in Surrey. Realty Services staff is contacting affected property owners and hope to have much of the realty work completed in the next six months. Surveying and property flagging has also commenced with initial attention being directed to any property owners who have indicated concerns, and to the areas of the overpass approaches where pre-loading will be necessary.

CONCLUSION

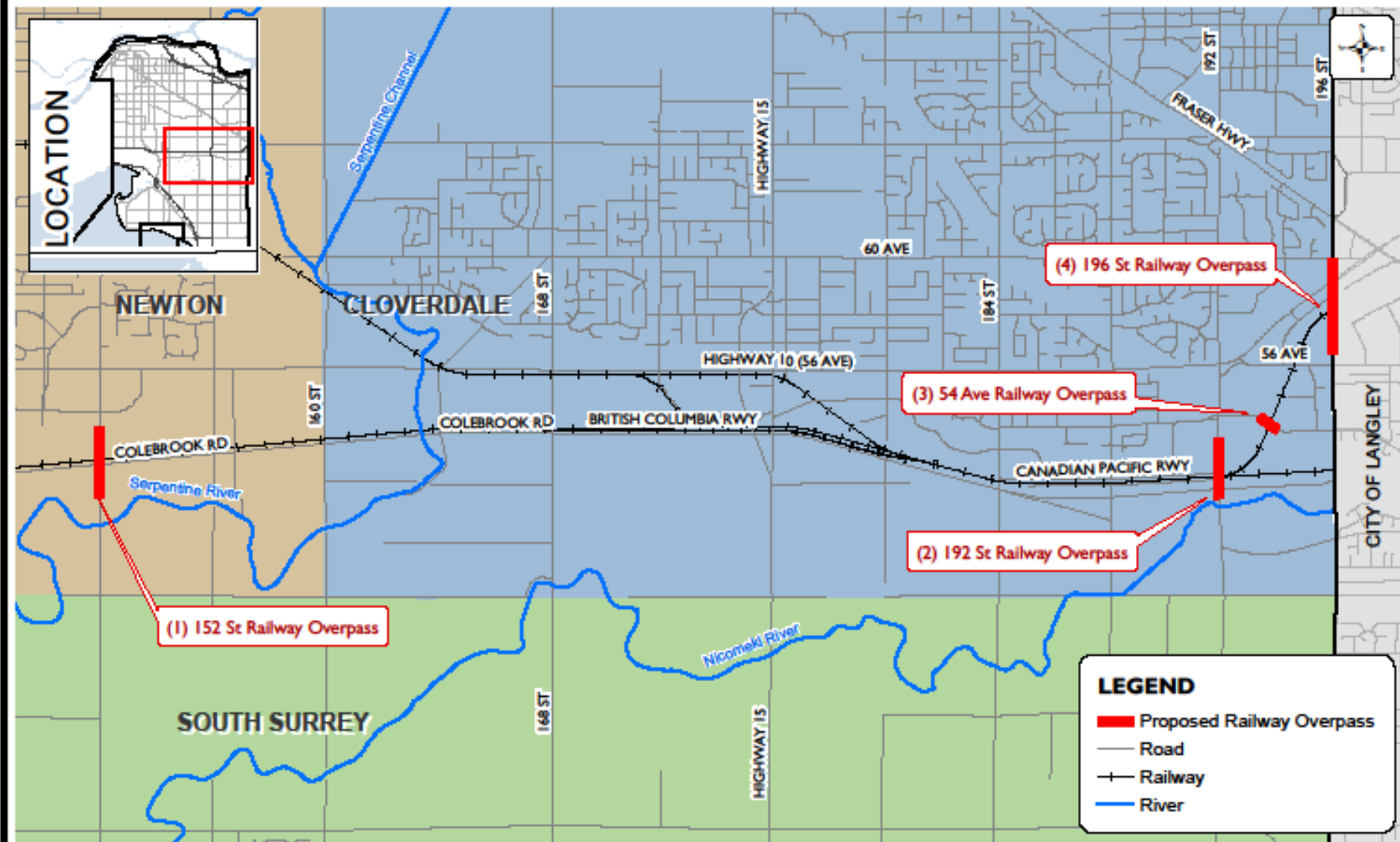
Staff will continue to keep Council apprised of progress on the subject projects through information memoranda and/or corporate reports.

Vincent Lalonde, P.Eng.
General Manager, Engineering

KDZ/brb

- Appendix I - Conceptual Plan of the Combo Project
- Appendix II - List of Lead Firms that Submitted Team Credentials
- Appendix III - Evaluation Team

APPENDIX I



Produced by GIS Section: December 2, 2010, AW



PROPOSED RAILWAY OVERPASSES

ENGINEERING DEPARTMENT

The data provided is compiled from various sources and is NOT warranted as to its accuracy or sufficiency by the City of Surrey. This information is provided for information and convenience purposes only. Lot sizes, legal descriptions and encumbrances must be confirmed at the Land Title Office.

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APPENDIX II

Lead firms that submitted team credentials for the Design-Build of the “Combo” Project that is Part of the Roberts Bank Rail Corridor Program in Surrey.

ACCIONA/Matcon Joint Venture

BA Blacktop Ltd.

EllisDon Corporation

Flatiron Constructors Canada Ltd.

Graham Infrastructure a JV

Ledcor CMI Ltd. and Gateway Infrastructure Group GP

PCL Constructors Westcoast Inc.

Peter Kiewit Infrastructure Co.

SNC Lavalin Constructors (Pacific) Inc.

Transport Network Solutions, (a joint venture including Dragados Canada Inc., Jacob Bros. Construction Ltd., and Westpro Infrastructure Ltd.)

APPENDIX III

Roberts Bank Rail Corridor Program, “Combo” Project Design-Build Credentials Evaluation Team and Technical Specialists

Evaluation Team

Eric Dyck, Design-Build Project Management specialist
Don Fraser, P. Eng., Ministry of Transportation & Infrastructure (retired) Project Manager
Brian Stone, P. Eng., Ministry of Transportation & Infrastructure (retired) Project Manager
Paul Lee, P. Eng., City of Surrey, Rapid Transit & Strategic Projects Manager

Technical Specialists

Klaus Biebach, Scout Consultants, heavy civil construction specialist.
Bill Szto, P. Eng., Ministry of Transportation & Infrastructure, bridge engineer.
Danielle Pricope, P. Eng., Ministry of Transportation & Infrastructure, electrical engineer
Don Bergman, P. Eng., CWMM Consultants, bridge engineer
James Wetherill, P. Eng., Braun Consultants Ltd. , geotechnical engineer
John Villamere, P. Eng., Hatfield Consultants Ltd., environmental engineer
Terry Walton, P. Eng., R. F. Binnie & Associates Ltd., Owner’s Engineer
Scott Campbell, P. Eng., R. F. Binnie & Associates Ltd., Owner’s Engineer
Patrick Zoerb, City of Surrey, Project Manager