



Corporate Report

NO: R098

COUNCIL DATE: MAY 14, 2007

REGULAR COUNCIL

TO: **Mayor & Council** DATE: **May 9, 2007**
FROM: **General Manager, Engineering** PROJECT FILE: **1705-001/03**
SUBJECT: **Fraser Highway: 168 Street to 17900 Block
Construction Agreement M.S. 1705-001-C2
Stantec Consulting Ltd.**

RECOMMENDATIONS

The Engineering Department recommends that Council:

1. Authorize an increase in the Consultant Construction Agreement 1705-001-C2 to \$368,459.50 (including GST) to cover the costs of engineering and contract administration for completion of Phase 3 of works on Fraser Highway between 168 Street and the 17900 block.
2. Approve an increase in the expenditure authorization limit for this agreement to \$414,200.00 (including GST).

INTENT

To apprise Mayor & Council of updated scheduling for the completion of the widening of Fraser Highway between 168 Street and the 17900 Block, and to seek authority to retain Stantec Consulting Ltd. at an increased fee limit to cover contract supervision and additional works associated with the completion of Phase 3 of widening of Fraser Highway between 168 Street and the 17900 Block.

BACKGROUND

Designs for the widening of Fraser Highway between 168 Street and the 17900 block were started in early 2004. Construction was originally anticipated to have been completed in stages, beginning in 2005 and extending until the end of 2007. Stantec Consulting designed the highway upgrading and have been supervising the construction on behalf of the City.

REVISED SCHEDULES

Soil conditions have however proved to be more difficult than originally anticipated. Consequently there have been some significant soil failures during the first phases of construction due to these very poor soil conditions. The construction has had to be delayed to allow soils to consolidate over a longer time frame.

The approximate schedule for the remaining works on Fraser Highway between 168 Street and the 17900 block is shown below:

Construction Contract Phasing	Description of Works	Status	Originally Scheduled Completion	Revised Scheduled Completion
1	Drainage works & Initial pre-loading	Complete	Spring 2006	Complete
2	Preliminary Bridge piling	Complete	Not originally scheduled	Complete
3	Staged pre-loading	Awarded	Summer 2007	Spring 2008
4	Bridge construction – South side	Not Yet Tendered	Summer 2007	Summer 2009
5	Bridge construction – North side	Not Yet Tendered	Summer 2008	Spring 2010
6	Final pre-loading	Not Yet Tendered	Not originally scheduled	Summer 2010
7	Road construction	Not Yet Tendered	Spring 2008	Fall 2010

INCREASES TO CONSTRUCTION AGREEMENT

The existing consultant construction agreement 1705-001-C2 covers the supervision of construction associated with the widening of Fraser Highway between 168 Street and 17900 block. The fees required to provide contract supervision through to the end of the contract are higher than initially anticipated by around \$160,000 due to the longer construction timing, additional extensive soils testing and the extra effort to deal with applying the preload in thinner layers. Additionally because of the poor soils we are encountering, significant additional geotechnical engineering by the sub-consultant is required that is beyond what was originally anticipated. Overall the fee requirements are considered reasonable for the level of effort required.

FUNDING

This project is being financed through TransLink Major Capital funding. Funding for the additional expenses associated with this assignment can be covered within the existing funding allowances from TransLink.

CONCLUSION

We are currently projecting that the final completion of the Fraser Highway works, between 168 Street and the 17900 block, will extend into 2010 – approximately 3 years longer than originally anticipated. The delays are largely attributable to the poor soil conditions being encountered and the resulting need to “slow down” the pre-loading of soils.

The revised fee proposal from the consultant allows for the supervision of the construction for the extension of Phase 3 of work, additional geotechnical engineering and the additional environmental consulting. As this exceeds staff signing authority it is being brought forward for Council’s approval.

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General Manager, Engineering

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