

COMMITTEE OF THE WHOLE - JANUARY 17, 2005

ADDITIONAL ENGINEERING FEES FOR THE RECONSTRUCTION OF LANGSTAFF ROAD AND ROBINSON CREEK BRIDGE REPLACEMENT

Recommendation

The Commissioner of Engineering and Public Works in consultation with the Director of Purchasing Services and the Director of Reserves and Investments recommends:

That the funding in the amount of \$200,000 approved in the 2000 Capital Budget Project No. 1336.0 funded from City Wide Development Charges be increased by an upset limit of \$90,000 plus G.S.T. for engineering services for the design of Langstaff Road Reconstruction and the Bridge Replacement over Robinson Creek provided by R.V. Anderson Associates Limited.

Purpose

To approve additional funding for professional engineering services provided by R.V. Anderson Associates Limited for the design of Langstaff Road Reconstruction and Bridge Replacement over Robinson Creek.

Background - Analysis and Options

At its September 11, 2000 Meeting, Council approved the recommendation in Item 2, Report No. 67, of the Committee of the Whole, to retain R.V. Anderson Associates Limited to provide engineering services in connection with the reconstruction of Langstaff Road from Vaughan Mills Road to Regional Road No. 27 at an estimated fee of \$77,525.00 plus G.S.T. (See Attachment No. 1, Location Map).

As part of this assignment, the consultant was required to carry out a detailed bridge inspection on Langstaff Road over the Robinson Creek. Based on their investigation which was completed in February 2001, it was determined that the bridge was in poor condition and of insufficient width and must be rehabilitated or replaced.

After further assessment of the various alternatives to address the road geometric requirements, bridge condition, a future trail system and TRCA's concerns, it was determined that a new structure was the best possible solution.

At its January 28, 2002 Meeting, Council approved the recommendation in Item 8, Report No. 5 of the Committee of Whole, to retain R.V. Anderson Associates Limited for the design of the bridge replacement on Langstaff Road over the Robinson Creek at an estimated amount of \$108,000, plus G.S.T.

During the detailed design stages of Langstaff Road and Robinson Creek bridge various additional tasks had to be undertaken which were outside of the original budget and contemplated scope of work. They included the following:

- analysis of roadway geometrics at the bridge location;
- additional hydraulic analysis due to TRCA's design flows at this location of the Robinson Creek;
- property acquisition, regarding additional right-of-way requirements/designation;
- additional temporary traffic signal design at the bridge and at Highway 27;
- geotechnical investigation due to the wider structure and deeper foundations;
- additional mitigating landscaping plan for the bridge site, (TRCA requirement); and,

- coordination with the Region of York regarding their Class EA for Langstaff Road west of Highway 27.

The design of this project commenced in late 2000. Due to the deferral of this project with the resultant time lapse and the Toronto and Region Conservation Authority (TRCA) and the Department of Fisheries and Oceans (DFO) submission requirements, the approval requirements have substantially changed. Significantly more information and detailing is required now to obtain approvals including comprehensive landscape schemes, erosion and sediment control plans, dewatering plan and discharge information and storm water management quality controls. R.V. Anderson Limited has spent a considerable amount of time and effort in pursuing TRCA and DFO approval for the proposed roadway and bridge replacement, obtaining comments on the proposed storm water treatment methods and landscape plans, and obtaining approval of the fill permit to work in the floodplain through multiple submissions and agency follow-up. Engineering staff have confirmed the expanded workplan and additional costs.

As a result of this, a significant portion of the fee increase request is due to TRCA and DFO requirements and approvals processing.

Funding in the amount of \$200,000 was approved in the 2000 Capital Budget Project No. 1336-0 funded from City Wide Development charges. The professional engineering fees committed to date are at the budget amount. Therefore, it is recommended that the budgeted amount be increased by \$90,000 plus G.S.T. The G.S.T. component of the fees are fully recoverable by the City. Sufficient funds have been collected through Development Charges to pay for the increased cost of the required engineering services.

The road and bridge works are expected to be advertised for tender in the Spring 2005, subject to Council approval of the draft 2005 Capital Budget. Following receipt of tenders, a report regarding tender award and engineering services during construction will be brought to Committee.

Relationship to Vaughan Vision 2007

This report recommends a change from the priorities previously set by Council and the necessary resources have not been allocated.

Conclusion

Staff have reviewed R.V. Anderson Associates Limited formal request for additional fees dated April 10, 2003 and November 2, 2004, and recommend that an upset limit for additional fees of \$90,000 plus G.S.T. be approved. Staff reviewed the correspondence and concur that the additional funding request is appropriate and sufficient to complete the design assignment.

Attachments

1. Location Map

Report prepared by:

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Tom Ungar, P. Eng. – Design Engineer

Respectfully submitted,

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Commissioner of Engineering and Public Works

Gary Carroll, P. Eng.
Director of Engineering Services

PM:mc

ATTACHMENT No. 1

