EXTRACT FROM COUNCIL MEETING MINUTES OF APRIL 21, 2015

Item 11, Report No. 17, of the Committee of the Whole, which was adopted without amendment by the Council of the City of Vaughan on April 21, 2015.

11 SELECTION OF ENGINEERING CONSULTANT FOR THE CLASS ENVIRONMENTAL ASSESSMENT STUDY AND PRELIMINARY DESIGN FOR THE KING-VAUGHAN ROAD BRIDGE REPLACEMENT – RFP15-070 WARD 1

The Committee of the Whole recommends:

- 1) That the recommendation contained in the following report of the Commissioner of Public Works and the Director of Capital Delivery and Asset Management, dated April 14, 2015, be approved; and
- 2) That the deputation of Mr. Stephen Roberts, Bentoak Crescent, Vaughan, be received.

Recommendation

The Commissioner of Public Works and the Director of Capital Delivery and Asset Management, in consultation with the Director of Financial Planning and Analytics and the Director of Purchasing Services recommend:

- 1. That RFP15-070 to provide the class environmental assessment study and preliminary design for the King-Vaughan Road Bridge Replacement be awarded to Amec Foster Wheeler Environment & Infrastructure in the amount of \$194,771.00 plus applicable taxes;
- 2. That a contingency allowance in the amount of \$30,000.00 plus applicable taxes be approved within which the Commissioner of Public Works, or his designate is authorized to approve amendments to this contract;
- 3. That the amounts of the above recommendations, illustrated within this report, including all contingency allowances, administration recovery and applicable taxes be funded from Capital Project EN-1889-13 Bridge Replacement Environmental Assessment & Preliminary Design King-Vaughan Road Bridge; and
- 4. That the Mayor and City Clerk be authorized to sign the appropriate documents.

Contribution to Sustainability

An integral part of a sustainable city is effective asset management. Through infrastructure investments, the risk of failure is reduced and system reliability improved, providing optimal service to citizens. The proposed replacement of this structure will maximize the return on the capital and operating investments.

Economic Impact

The total project cost of \$233,400.00, which includes a contingency allowance, administration recovery and applicable taxes, can be accommodated within the capital budget for project EN-1889-13 Bridge Replacement Environmental Assessment & Preliminary Design – King-Vaughan Road Bridge.

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Communication Plan

Staff will advise the Mayor and Members of Council and will distribute a newsletter to the affected residents and businesses upon award of this assignment.

Purpose

To obtain approval to retain Amec Foster Wheeler Environment & Infrastructure for the class environmental assessment study and preliminary design for the King-Vaughan Road Bridge Replacement (RFP15-070).

Background – Analysis and Options

Replacement has been identified for the King-Vaughan Road Bridge.

The King-Vaughan Road Bridge is located on King-Vaughan Road, approximately 1,500 metres east of Highway Number 27. This arch bridge was constructed in 1920 and carries one lane of vehicular traffic across the Humber River in one continuous span, with a crossing length of 13.8 metres and a maximum clearance of 2.5 metres. The deck has a travel width of 3.75 metres and an overall width of 4.81 metres. This bridge is currently in service and has a posted load limit of 12 tonnes.

In May 2012, a bridge inspection was undertaken on the structure in compliance with the requirements of the Public Transportation and Highway Improvement Act, Ontario Regulation 104/97. The inspection was completed as per the Ontario Structure Inspection Manual. As a result of this inspection, the King-Vaughan Road Bridge has been identified as requiring complete replacement. The proposed structure will accommodate two lanes of traffic, one in each direction.

On March 3, 2015, request for proposals were received for the Class Environmental Assessment Study and Preliminary Design.

A Request for Proposal (RFP) for the Consulting Services for the Class Environmental Assessment Study and Preliminary Design for the King-Vaughan Road Bridge replacement was advertised on the Vaughan Bids & Tenders website, City Page, Biddingo and Ontario Public Buyers Association (OPBA) website on February 10, 2015. In response to the RFP, twenty (20) plantakers downloaded the RFP documents from Vaughan Bids & Tenders website. Upon closing on March 3, 2015, six (6) proposal submissions were received.

An evaluation meeting was held on March 11, 2015, with the Review Committee, comprising of representatives from the Capital Delivery and Asset Management Department and facilitated by Purchasing Services.

A standardized scoring and ranking system was used for this type of proposal, as follows:

- 20 points available for understanding of the assignment and familiarity with local conditions and project approach;
- 10 points available for work plan
- 15 points available for project management
- 35 points available for qualification of firm and of the staff assigned to the project
- 20 points available for proposed fee.

Amec Foster Wheeler Environment & Infrastructure scored the highest number of points during the evaluation process. Based on the evaluation of the proposals, it is recommended that the proposal from Amec Foster Wheeler Environment & Infrastructure be accepted and that an Engineering Agreement be executed.

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The total cost for professional engineering services for this project, including contingency allowance, administration recovery and applicable taxes is calculated as follows:

TABLE 1: ESTIMATED COSTS EN-1889-13					
	Environmental	Design	Total		
	Assessment				
	\$	\$	\$		
Amec Foster Wheeler Environment & Infrastructure –Note 1	132,271.00	62,500.00	194,771.00		
Contingency Allowance (Approx. 15%)	20,400.00	9,600.00	30,000.00		
Sub-Total	152,671.00	72,100.00	224,771.00		
H.S.T. (1.76%) Not Recoverable	2,687.01	1,268.96	3,955.97		
Total	155,358.01	73,368.96	228,726.97		
Administration Recovery (3%) – Note 2	4,660.74	0.00	4,660.74		
Net Total Cost	160,018.75	73,368.96	233,387.71		

ROUNDED \$ 233,400.00

Note 1: Amount corrected for arithmetic error

Note 2: 3% Administration recovery is not applied to costs associated with preliminary design as the design phase is funded through grants (Gas Tax Funds)

TABLE 2: PROJECT FUNDING POSITION SUMMARY EN-1889-13					
	Environmental Assessment	Design	Total		
	\$	\$	\$		
2013 Approved Budget – Environmental Assessment	154,500.00		154,500.00		
2014 Approved Budget - Design		150,000.00	150,000.00		
Total Approved Budget	154,500.00	150,000.00	304,500.00		
Expenses to date	0.00	0.00	0.00		
Current Funds Remaining	154,500.00	150,000.00	304,500.00		
Net Total Cost	(160,018.75)	(73,368.96)	(233,387.71)		
Balance Remaining	(5,518.75)	76,631.04	71,112.29		

The project is considered to be moderate in complexity with a mostly defined scope with some uncertainties. In accordance with the Contingency Matrix (identified in Appendix 1 of the Capital Project Financial Administration and Reporting Policy), a contingency allowance of approximately 15% has been identified as an appropriate amount to address any unforeseen work in completing the scope of this project.

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The costs associated with the environmental assessment are higher than the original estimated budget, however, it is expected that the overall costs for this assignment of the project will be within the approved budget. All remaining funds for this assignment of the project will be applied to the final design and construction phase of the project.

Amec Foster Wheeler Environment & Infrastructure has completed similar projects in the past of similar scope and is deemed qualified to undertake this assignment.

Relationship to Vaughan Vision 2020/Strategic Plan

In consideration of the strategic priorities related to Vaughan Vision 2020, the recommendations of this report will assist in enhancing and maintaining community safety, health and wellness, by ensuring that appropriate levels of service are maintained for the local residents.

Regional Implications

N/A

Conclusion

Staff recommends that this assignment be awarded to Amec Foster Wheeler Environment & Infrastructure in the amount of \$194,771.00, plus applicable taxes. Sufficient funding is available within capital project EN-1889-13 to complete this assignment.

Attachments

1. Location Map

Report prepared by:

John Zanchettin, C.E.T., Senior Engineering Assistant, ext. 8470

(A copy of the attachments referred to in the foregoing have been forwarded to each Member of Council and a copy thereof is also on file in the office of the City Clerk.)

COMMITTEE OF THE WHOLE - APRIL 14, 2015

SELECTION OF ENGINEERING CONSULTANT FOR THE CLASS ENVIRONMENTAL ASSESSMENT STUDY AND PRELIMINARY DESIGN FOR THE KING-VAUGHAN ROAD BRIDGE REPLACEMENT – RFP15-070 WARD 1

Recommendation

The Commissioner of Public Works and the Director of Capital Delivery and Asset Management, in consultation with the Director of Financial Planning and Analytics and the Director of Purchasing Services recommend:

- 1. That RFP15-070 to provide the class environmental assessment study and preliminary design for the King-Vaughan Road Bridge Replacement be awarded to Amec Foster Wheeler Environment & Infrastructure in the amount of \$194,771.00 plus applicable taxes;
- 2. That a contingency allowance in the amount of \$30,000.00 plus applicable taxes be approved within which the Commissioner of Public Works, or his designate is authorized to approve amendments to this contract;
- 3. That the amounts of the above recommendations, illustrated within this report, including all contingency allowances, administration recovery and applicable taxes be funded from Capital Project EN-1889-13 Bridge Replacement Environmental Assessment & Preliminary Design King-Vaughan Road Bridge; and
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Contribution to Sustainability

An integral part of a sustainable city is effective asset management. Through infrastructure investments, the risk of failure is reduced and system reliability improved, providing optimal service to citizens. The proposed replacement of this structure will maximize the return on the capital and operating investments.

Economic Impact

The total project cost of \$233,400.00, which includes a contingency allowance, administration recovery and applicable taxes, can be accommodated within the capital budget for project EN-1889-13 Bridge Replacement Environmental Assessment & Preliminary Design – King-Vaughan Road Bridge.

Communication Plan

Staff will advise the Mayor and Members of Council and will distribute a newsletter to the affected residents and businesses upon award of this assignment.

Purpose

To obtain approval to retain Amec Foster Wheeler Environment & Infrastructure for the class environmental assessment study and preliminary design for the King-Vaughan Road Bridge Replacement (RFP15-070).

Background - Analysis and Options

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Regional Implications

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Conclusion

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Attachments

Location Map

Report prepared by:

John Zanchettin, C.E.T., Senior Engineering Assistant, ext. 8470

Respectfully submitted,

Paul Jankowski Commissioner of Public Works

Jack Graziosi Director of Capital Delivery and Asset Management

JZ:mm

ATTACHMENT NO.1

