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AURORA EAST ELEVATED TANK CONSULTANT SELECTION FOR DETAILED DESIGN, CONTRACT ADMINISTRATION AND SITE INSPECTION SERVICES, PROJECT 72450

The Environmental Services Committee recommends the adoption of the recommendations contained in the following report dated April 20, 2012, from the Commissioner of Environmental Services.

1. RECOMMENDATIONS

It is recommended that:

1. Conestoga-Rovers & Associates be engaged to undertake detailed design, contract administration and site inspection services for the Aurora East Elevated Tank project as outlined in this report, at a fee of \$890,198.50 excluding taxes. The fee includes contract administration and site inspection services, based on estimated 320 days construction duration.
2. The Commissioner of Environmental Services be authorized to adjust the contract administration and site inspection fees using the competitive unit price of \$5,927.64 per week excluding taxes, to match actual construction duration and within the total project budget authority.

2. PURPOSE

This report seeks Council authorization to retain engineering consulting services related to detailed design, contract administration and site inspection services for the construction of the Aurora East Elevated Tank to be located on the west side of First Commerce Drive, just north of State Farm Way in the Town of Aurora. A location plan is appended to this report (*see Attachment 1*).

The Region's Purchasing Bylaw requires Council authorization to award Request for Proposals over \$500,000 or when the recommended proponent is not the lowest cost. In this case, the recommended proponent's response was over \$500,000 and was not the lowest cost.

3. BACKGROUND

The Schedule B Class Environmental Assessment process for the Aurora East Elevated Tank was completed on March 23, 2012 with the end of the Notice of Completion period. The Region can now proceed to implement the project, including acquisition of the required property, as well as design and construction of the elevated tank as per the recommendation of the project file report. The project is included in the approved 10-Year Capital Program with construction anticipated in 2013.

The Aurora East Pressure District is supplied via the Aurora East Pumping Station located at 1336 Wellington Street East. There is currently no water storage provided within the Aurora East Pressure District and the existing pumps are responsible for providing the combined maximum day plus fire demand.

Aurora East Elevated Tank is required to increase water capacity and ensure emergency and maximum day supply is available

Consistent with the 2009 York Region Water and Wastewater Master Plan, the service population within the Aurora East Pressure District is expected to increase from approximately 1,000 to 3,000 in residential growth and from 3,700 to over 10,000 in employment growth between 2011 and 2031. Based on existing population and projected growth, the current water supply system in the Aurora East Pressure District will not meet the *York Region Design Guidelines* or the Ministry of Environment *Guidelines for the Design of Water Distribution Systems* with respect to fire, equalization and emergency storage.

4. ANALYSIS AND OPTIONS

Six engineering consulting firms responded to the Request for Proposal

In accordance with the Region's Purchasing By-law, engineering firms were invited to submit proposals for the assignment. The following six engineering consulting firms submitted proposals for this assignment:

- Conestoga-Rovers & Associates
- MMM Group
- AECOM Canada Ltd.
- Cole Engineering
- Eramosa Engineering Inc.
- Stantec Consulting Ltd.

The Request for Proposal detailed the scope of work required, which included the following services:

- Project management, planning and control

- Detailed design and tendering
- Acquisition of approvals
- Construction contract administration
- Construction site inspection
- Quality assurance and quality control

Proposals evaluated using the two-envelope system

Proposals were evaluated using the two-envelope system with technical and financial information submitted in two separate envelopes. Technical proposals were evaluated prior to any knowledge of financial information. Content of technical proposals were weighted at 80%.

The Region's proposal evaluation team reviewed the technical/management proposals based on the following criteria as listed in the Request for Proposal:

- Corporate experience related to design of 6.0 ML or greater elevated tanks
- Project manager and proposed key staff experience for similar projects
- Proposed technical support staff experience for similar projects
- Project understanding and ability to deliver the project
- Sub-consultants' experience
- Project management, implementation and allocated resources
- References

The financial evaluation makes up the remaining 20% of the total evaluation. To be considered for award, proponents must achieve a minimum technical score of 60% (48 points out of the potential 80 points allocated to technical merit). Eramosa Engineering Inc. and Stantec Consulting Ltd. did not have their financial envelopes opened as they did not achieve the minimum score of 48 points on their technical proposal. Technical and financial results for each proponent are summarized in Table 1 below.

Table 1
Consultant Proposal Evaluation Summary

Consultant	Technical Score (Out of 80%)	Total Fee (\$) (Excluding Taxes)	Financial Score (Out of 20%)	Total Score (Out of 100%)
Conestoga-Rovers & Associates	59.40	890,189.50	19.20	78.60
MMM Group	50.10	854,300.00	20.00	70.10
AECOM Canada Ltd.	50.00	923,050.00	18.50	68.50
Cole Engineering	50.70	965,835.50	17.70	68.40
Eramosa Engineering Inc.	44.00	N/A	N/A	N/A
Stantec Consulting Ltd.	44.00	N/A	N/A	N/A

Evaluation of proposals revealed Conestoga-Rovers & Associates achieving highest total score

The firm with the highest total score is Conestoga-Rovers & Associates. Their proposal demonstrated a clear understanding of the project and a thorough working knowledge of services associated with the detail design, contract administration and site inspection for the Aurora East Elevated Tank.

Conestoga-Rovers & Associates has extensive experience in completing storage tanks for the Region. Conestoga-Rovers & Associates is currently working on four elevated storage tanks, which include the King City South Elevated Tank, King City North Elevated Tank, Nobleton North Elevated Tank and the North Richmond Hill Elevated Tank. Conestoga-Rovers & Associates achieved high technical scores for the experience of their project team, a group of individuals with the knowledge and expertise to complete elevated tanks in accordance with the Region's standards.

Supplies and Services Branch has reviewed the evaluation summary and has issued their report confirming that Conestoga-Rovers & Associates be recommended as the successful overall proponent to undertake engineering consulting services related to contract administration and site inspection service for the Aurora East Elevated Tank project.

Link to Key Council-approved Plans

The Aurora East Elevated Tank project is required to increase water storage and ensure emergency and maximum day supply is available. This elevated tank is critical to providing storage to service approved growth and is a key project that aligns with the Regional 2011 to 2015 Strategic Plan objective of continuing to deliver and sustain critical infrastructure.

5. FINANCIAL IMPLICATIONS

The fee for the proposed work is \$890,198.50 excluding taxes. The approved 2012 10-Year Capital Program includes total project budget authority of \$9.76 million for this project, funded entirely through development charges.

The fee for the proposed work includes construction, contract administration and site inspection services for an estimated duration of 320 days. The proposal includes unit prices for contract administration and site inspection, in this case \$5,927.64 per week, which staff deem acceptable for this type of project.

Should the actual duration of construction increase, as determined by the detailed design and specified in the tender documents, it is recommended that the Commissioner of Environmental Services be authorized to adjust the fee accordingly by the amount of \$5,927.64 per week excluding taxes.

6. LOCAL MUNICIPAL IMPACT

Implementation of the Aurora East Elevated Tank will provide the required maximum day plus fire demand for the Aurora East Pressure District as required in the *York Region Design Guidelines* and the Ministry of Environment *Guidelines for the Design of Water Distribution Systems*. The elevated tank will increase potable water storage capacity in the Aurora East Pressure District and will also be used to augment water supply systems in new growth areas of the Newmarket East pressure district (to the immediate north). This capacity needs to be used strategically by local municipalities to ensure local water service continues to meet provincial standards.

Throughout the course of the assignment and construction, Regional staff will work closely and cooperatively with the Towns of Aurora and Newmarket and residents/businesses of the community to ensure successful project implementation.

7. CONCLUSION

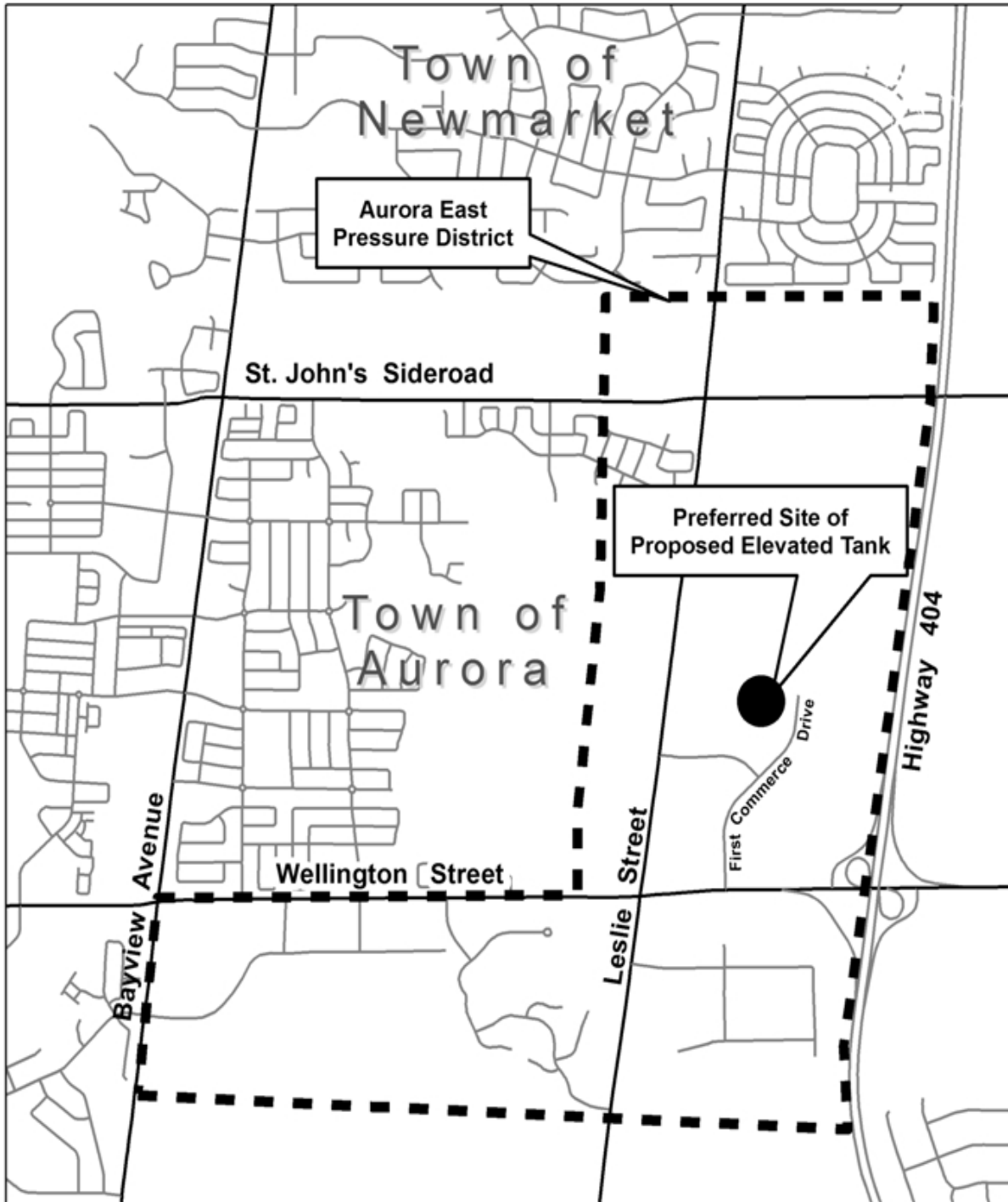
Implementation of the Aurora East Elevated Tank will increase water capacity and ensure emergency and maximum day supply is available to accommodate growth for the Aurora East Pressure District.

Six proposals from engineering consultants were received and evaluated for this project in accordance with the Region's Purchasing By-law. The proposal from Conestoga-Rovers & Associates represents the best overall value to the Region and it is recommended that Conestoga-Rovers & Associates be engaged to undertake the detailed design, contract administration and site inspection for the Aurora East Elevated Tank project at a fee of \$890,198.50 excluding taxes.

For more information on this report, please contact Daniel Kostopoulos, Director, Capital Planning and Delivery, Environmental Services at 905-830-4444 Ext. 5070.

The Senior Management Group has reviewed this report.

(The attachment referred to in this clause is attached to this report.)



LOCATION PLAN

Aurora East Elevated Tank Consultant Selection
for Detailed Design, Contract Administration and
Site Inspection Services, Project 72450



ENVIRONMENTAL SERVICES