



Report to: General Commit

Meeting Date: April 1, 2025

SUBJECT: 138-R-24 – Consulting Services for Pre-Design, Detailed Design and Tender Preparation for the Glynnwood Tributary Area Surcharge Flood Remediation

PREPARED BY: Nehal Azmy, Capital Works Engineer, Ext. 2197
Salia Kalali, Senior Manager, Infrastructure & Capital Projects, Ext. 2360
Tony Casale, Senior Construction Buyer, Ext. 3190

RECOMMENDATION:

1. That the report entitled “138-R-24 - Consulting Services for Pre-Design, Detailed Design and Tender Preparation for the Glynnwood Tributary Area Surcharge Flood Remediation” be received;
2. That the contract for 138-R-24 - Consulting Services for Pre-Design, Detailed Design and Tender Preparation for the Glynnwood Tributary Area Surcharge Flood Remediation be awarded to the highest ranked, lowest priced Bidder, AECOM Canada Ltd. in the amount of \$970,536.97 inclusive of HST;
3. That provisional allowances in the amount of \$396,864.00, inclusive of HST, be established for subsurface utility engineering (SUE) Level A, permit to take water, utility relocation inspection, excess soil management, additional boreholes and monitoring wells, additional legal survey, additional analysis to identify new solutions as a result of the pond modelling, design support during construction and for an annual external financial audit which may be required;
4. That a 10% contingency in the amount of \$136,740.10 inclusive of HST, be established to cover any additional design costs and that authorization to approve expenditures of the contingency amount up to the specified limit be in accordance with the Expenditure Control Policy;
5. That the Engineering Department Capital Administration fee in the amount of \$135,372.70 be transferred to revenue account 640-998-8871 (Capital Administration Fee);
6. That the cost in the amount of \$1,639,513.77 (\$970,536.97 + \$396,864.00 + \$136,740.10 + \$135,372.70) be funded from capital account 083-5350-24408-005 with available budget of \$1,299,900;
7. That the budget shortfall in the amount of \$339,613.77 be funded from Stormwater Fee Reserve; and,
8. That Staff be authorized and directed to do all things necessary to give effect to this resolution.

PURPOSE:

The purpose of this report is to obtain Council approval to award the contract for consulting services for pre-design, detailed design and tender preparation for the Glynnwood Tributary Area Surcharge Flood Remediation.

BACKGROUND:

Historically, flooding has occurred during intense storms in the vicinity of Thornhill Community Centre on Bayview Avenue, between John Street and Green Lane. This has resulted in flooding of nearby facilities including the Thornhill Community Centre, the Glynnwood Retirement Residence and Shouldice Hospital.

Environmental Assessment Study

A Class Environmental Assessment (EA) Study of the Glynnwood Tributary Area Storm Sewer System was completed in August 2023. The purpose of the EA study is to address existing flooding issues in the vicinity of Bayview Avenue between John Street and Green Lane (refer to Attachment 'A' for study area location).

The preferred alternative for new storm sewers and a channel from the Thornhill Community Centre to the Glynnwood pond, designed to alleviate flooding in the area as set out in the Environmental Study Report, was endorsed by Council on June 7, 2021 (refer to Attachment 'B').

Request for Proposal (138-R-24)

The Request for Proposal for Consulting Services for Pre-Design, Detailed Design and Tender Preparation for the Glynnwood Tributary Area Surcharge Flood Remediation was released on November 19, 2024.

Bid Information (138-R-24):

Bids closed on	January 10, 2025
Number picked up the Bid document	7
Number responded to the Bid	4

Proposal Evaluation:

The evaluation team was comprised of staff from the Engineering Department and facilitated by staff from the Procurement Division. The city released this RFP utilizing a two-stage evaluation process.

Stage 1 – Mandatory and Technical Evaluation

Under Stage One, proponents were required to demonstrate their experience based on the following mandatory requirements:

- Provide 3 complex urban roadway and storm sewer projects (\geq \$3.5M each);
- Management of a minimum of 2 multi-year projects with multiple design components;
- Minimum 1 project that required structural design;

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- The Design Lead must have a minimum of 10 years experience in the design of municipal linear infrastructure projects of a similar size and complexity; and
 - The Modeling / Hydraulics Specialist must have a minimum of 7 years experience in stormwater/CSO management with proven experience in hydrologic and hydraulic modeling;
 - The Structural Specialist must have a minimum of 7 years experience in stormwater/CSO management with proven experience in structural engineering.

The mandatory evaluation criteria ensured that proponents had the relevant experience to carry out the assignment. One out of four proponents met the mandatory evaluation criteria and was further evaluated under the Technical Evaluation. The three proponents that did not meet the mandatory evaluation criteria failed to provide projects similar to urban roadway/sewer design projects to support flood remediation.

Under the Technical Evaluation, proponents were assessed based on pre-established evaluation criteria as outlined in the Request for Proposal (RFP): 25% for corporate experience, project team and structure; 30% for project understanding and approach; 15% for project resources and workplan, and 5% for proposal structure and quality. Proponents who did not achieve a technical score of 56.25 out of 75.0 points (75%) would not proceed further, and their financial proposals would remain sealed in the bidding system. The proponent who met the mandatory evaluation criteria achieved the minimum technical score to proceed to Stage 2 – Financial Evaluation.

Stage 2 – Financial Evaluation

Under Stage 2 – Financial Evaluation, the proponent was assessed based on its bid price exclusive of HST. The sole bidder who passed the Stage 1 Technical Evaluation received the full financial score.

Bidder	Technical Score	Financial Score	Total Score (out of 100)
AECOM Canada Ltd.	64.39	25.00	89.39

OPTIONS/ DISCUSSION:

AECOM Canada Ltd. has the required experience, qualifications and capability to undertake a study of this size and scope and has demonstrated a comprehensive understanding of the project requirements as reflected in the proposed detailed methodology and work plan.

FINANCIAL CONSIDERATIONS:

Recommended bidder	AECOM Canada Ltd. (Highest ranked / lowest priced bidder)	
Current budget available	\$ 1,299,900.00	083-5350-24408-005
Less cost of award	\$ 970,536.97 \$ 396,864.00 <u>\$ 136,740.10</u> \$1,504,141.07 <u>\$ 135,372.70</u> \$ 1,639,513.77	Consulting Services (Incl. of HST) Provisional Allowances (Incl. of HST) * Contingency @ 10% Cost of award (Incl. of HST) Internal Management Fees Total Cost
Budget remaining after this award	(\$339,613.77)	**

*The provisional allowances are for subsurface utility engineering (SUE) Level A, permit to take water, utility relocation inspection, excess soil management, additional boreholes and monitoring wells, additional legal survey, additional analysis to identify new solutions as a result of the pond modelling, design support during construction and for an annual external financial audit which may be required. Any unused provisional allowance will be returned to the Stormwater Fee Reserve.

**The budget shortfall of \$339,613.77 will be funded from the Stormwater Fee Reserve.

Flood Control Program - Disaster Mitigation and Adaptation Fund (DMAF):

The Disaster Mitigation & Adaptation Fund (DMAF) is a national, competitive, merit-based contribution program that will invest \$2 billion over 10 years to help communities build the infrastructure they need to better withstand natural hazards such as floods, wildfires, earthquakes and droughts.

On March 11, 2019, the City was informed by Infrastructure Canada that three Flood Control projects have been approved for \$48.64M of funding from the Disaster Mitigation & Adaptation Fund. Subject to the terms and conditions of the agreement, the federal government will provide up to a maximum of 40% toward the total eligible costs of the projects, while the City is required to contribute the remaining 60%.

On April 8, 2019, Council approved the shared funding allocation between the Government of Canada and the City of Markham. The contribution agreement was amended in 2024 to extend the agreement end date from March 31, 2028 to March 31, 2033, to accommodate longer project schedules where required.

One of the three Flood Control Projects approved by Infrastructure Canada for funding is the Thornhill Community Centre storm sewer system, with the design and implementation project cost to be shared on a basis of 40% with the Government of Canada and 60% by the City of Markham.

The city regularly submits claims to be reimbursed by the Government of Canada for its 40% cost share of ongoing projects. Funds received from the Disaster Mitigation and Adaptation Fund will be remitted to the Stormwater Fee Reserve.

OPERATING BUDGET AND LIFE CYCLE RESERVE IMPACT

The requested award has no financial impact to the Operating Budget or Life Cycle Reserve Study. This contract is funded by project 24408, which is funded by the Stormwater Fee Reserve.

HUMAN RESOURCES CONSIDERATIONS

Not Applicable

ALIGNMENT WITH STRATEGIC PRIORITIES:

The proposed work is required to continue to accommodate growth and improve safety in the City of Markham. The program aligns with the City's Strategic Plan goals of "Safe & Sustainable Community."

BUSINESS UNITS CONSULTED AND AFFECTED:

The Procurement, Finance and Environmental Services departments have reviewed and approved the report, and their comments have been incorporated.

RECOMMENDED BY:

Frank Clarizio
Director, Engineering

Arvin Prasad, MPA, RPP, MCIP
Commissioner, Development Services

ATTACHMENTS:

Attachment A - Study Area Location
Attachment B - Preferred Design Alternative