### City of Mississauga

# **Corporate Report**



Date: May 9, 2023

To: Chair and Members of General Committee

From: Geoff Wright, P.Eng, MBA, Commissioner of Transportation and Works

Originator's files:

Meeting date:
June 7, 2023

# **Subject**

Contract Amendment to Increase Contract with Matrix Solutions Inc. for the Dixie-Dundas Flood Mitigation Study (Wards 1 and 3)

#### Recommendation

That the Chief Procurement Officer or designate be authorized to increase the contract with Matrix Solutions Inc. (Procurement No. PRC001249) to include additional Consulting services for the Dixie-Dundas Flood Mitigation Study by an estimated additional amount of \$480,000 to an estimated revised total contract value of \$1,500,000 (excluding taxes) as outlined in the corporate report titled "Contract Amendment to Increase Contract with Matrix Solutions Inc. for the Dixie-Dundas Flood Mitigation Study (Wards 1 and 3)", dated May 9, 2023 from the Commissioner of Transportation and Works.

## **Background**

The City of Mississauga has experienced extreme rainfall events which caused flooding-related incidents and associated damages to private properties and municipal infrastructure.

The community in the Dixie Road and Dundas Street East area within the Little Etobicoke Creek watershed has been one of the focal points for flooding resulting from water overtopping the banks of the creek. There have been documented incidents of water spilling onto nearby Queen Frederica Drive during extreme storm events causing flooding and creating difficult conditions for vehicular and pedestrian traffic.

In 2019, the City retained a consultant team led by Matrix Solutions Inc. ("Matrix") and initiated the Dixie-Dundas Flood Mitigation Study (Procurement No. PRC001249) to address flooding from Little Etobicoke Creek, and in doing so protect existing residences and businesses. Recommendations resulting from this study may also enable future urban growth and intensification along the Dundas Street corridor as envisioned in the Dundas Connects Master Plan.

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The Dixie-Dundas Flood Mitigation Study is comprised of two stages. The first stage includes a feasibility investigation to narrow down viable technical solutions that could be implemented to address flooding. The second stage, currently underway, involves undertaking a Municipal Class Environmental Assessment, culminating in a preferred solution and the subsequent completion of a preliminary design.

In early 2021, it was determined that an expansion of the Environmental Assessment study to Dundas Street East was necessary to seek solutions that would properly address flooding as well as other stormwater-related issues within this community. As such, additional study components were approved in a May 26, 2021 corporate report which received authority from Council to increase the contract amount with Matrix by \$520,000 to a revised contract total value of \$1,020,000 (excluding taxes).

Since that time, over the course of the Environmental Assessment process, it was determined that as impacts on infrastructure from the proposed flood mitigation solutions were realized, additional analysis above the originally planned works would be required to ensure adequate and full consideration of project impacts. As this is outside the scope of consulting services being provided by Matrix, this report is seeking authority from Council to increase the contract amount with Matrix in accordance with the Procurement By-law #0013-2022, Section 20 Amendments, Interim Extensions, Renewals & Terminations.

#### Comments

Through the work carried out to date in the Dixie-Dundas Flood Mitigation Study, the Dixie Road crossing at Little Etobicoke Creek remains a key area of focus. As the study progressed, it has become clear that the proposed solutions currently being considered in this area are extensive and will have an impact on key pieces of infrastructure. Based on these findings, supplemental investigations and preliminary design work are necessary to ensure a fully assessed solution is advanced that will properly address flooding. As such, the following additional study components, outside of Matrix's original consulting assignment, are being proposed:

- Preliminary design of affected infrastructure;
- Assessment of alternative solutions for affected infrastructure, including tasks such as hydraulic modelling, technical studies and stakeholder engagement; and,
- Subsurface Utility Engineering (SUE) investigations and surveying to support preliminary design.

It should be noted that the SUE and surveying components are detailed design tasks that are recommended to be advanced to the current earlier stage of the study to assist with preliminary design and, as a result, will lessen the future budgetary needs during the detailed design phase. The Matrix team has assisted in effectively managing the project to this stage. In order to satisfactorily administer the contract, additional consulting services are required as outlined in

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Appendix 1. This team has specialized knowledge of all facets of the project and is well positioned to see the project to completion in a cost-effective manner. Staff recommends that Matrix undertake this additional work for continuity and efficiency. In accordance with the Procurement Policy Number: 03-06-12 Contract Amendment and Termination – High Value Acquisitions (A.) If the total value of one or more increases to the Original Contract value is (3.) More than 20% of the Original Contract value and more than \$100,000 Council approval is required.

It is recommended that the existing contract with Matrix be amended to include the additional consulting services for the Dixie-Dundas Flood Mitigation Study in accordance with Procurement Policy Number: 03-06-12 Contact Amendment and Termination, High Value Acquisitions (A.)(3.)

# **Strategic Plan**

The development of this flood mitigation study falls within the *Connect* Strategic Pillar under its strategic goal to *Build and Maintain Infrastructure*.

## **Financial Impact**

This report is requesting increasing the contract amount by \$480,000 with Matrix to increase the total contract value to \$1,500,000 (excluding taxes). The following projects have funding available to support the contract increase, PN18-015, Little Etobicoke Creek Channel Improvement Dixie/Dundas Area and PN 21-015, Little Etobicoke Creek Drainage Improvements Dixie/Dundas Area.

#### Conclusion

An increase to the existing contract with Matrix is required for additional consulting services that involves progressing the Dixie-Dundas Flood Mitigation Study to include investigating impacts from the proposed flood mitigation solutions on key pieces of infrastructure. The contract with Matrix was established competitively and continues to represent good value while Matrix is well-resourced to accommodate such additional work.

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# **Attachment**

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Appendix 1: Dixie-Dundas Flood Mitigation Study – Additional Consulting Services Budget

Geoff Wright, P.Eng, MBA, Commissioner of Transportation and Works

Prepared by: Anthony Di Giandomenico, P.Eng, Storm Drainage Engineer