
DATE: December 1, 2009

REPORT TITLE: **WATER AND WASTEWATER INFRASTRUCTURE PROGRAM
750MM WATERMAIN ON GOREWAY DRIVE FROM COUNTRYSIDE
DRIVE TO MAYFIELD ROAD; AND SANITARY SEWER AND
WATERMAIN ON DIXIE ROAD FROM FATHER TOBIN ROAD TO 500M
NORTH OF MAYFIELD ROAD
DOCUMENT 2007-704P
CAPITAL PROJECTS 08-1109, 08-1150, 08-2196 AND 06-2109
CITY OF BRAMPTON, WARDS 9 AND 10
TOWN OF CALEDON WARD 2**

FROM: Dan Labrecque, Commissioner of Public Works

RECOMMENDATION

That the contract (document 2007-704P) for Class Environmental Assessment (EA), detailed design and construction administration services for the Water and Sanitary Infrastructure Program Assignment A between the Region of Peel and Trow Associates Inc., be extended to provide additional Engineering Services in the estimated amount of \$668,054 (excluding applicable taxes), under Capital Projects 08-1109, 08-1150, 08-2196 and 06-2109, for a total commitment of \$1,513,398, in accordance with Purchasing By-law 63-2008.

REPORT HIGHLIGHTS

- The Region of Peel retained Trow Associates Inc. to undertake a variety of water and wastewater projects in north east Brampton.
- Changes to the originally intended design alignment of the watermain were made in conjunction with the City of Brampton widening of Goreway Drive.
- The scope of work was extended to include the completion of a Class EA, detail design and preparation of tender documents for an additional 270m (885 feet) of 750mm (30 inch) diameter watermain on Countryside Drive east of Goreway Drive; and for detail design, preparation of tender documents and contract administration for an additional 180m (590 feet) of 150mm (6 inch) diameter watermain on Stanley Carberry Drive east of Goreway Drive.
- Design changes to the sanitary sewer component of the project increased the level of construction inspection and administration required.
- Staff recommends that the consulting engineering services fees associated with document 2007-704P be increased by a total amount of \$668,054 (excluding applicable taxes) for a total commitment of \$1,513,398 under Capital Projects 08-1109, 08-1150, 08-2196 and 06-2109.

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DISCUSSION

1. Background

The Region of Peel completed the Water and Wastewater Servicing Master Plan in 2007. Key components to service the North Brampton and Mayfield West communities were incorporated into a proposal call for engineering services under document 2007-704P. Through a competitive RFP process, Trow Associates Inc. was retained and awarded Assignment A.

The assignment consisted of Class Environmental Assessment, detailed design and contract administration of:

- 1,273m (4,176 feet) of 750mm (30 inch) diameter watermain on Goreway Drive from Mayfield Road to Countryside Road (Project 08-1109);
- 1,300m (4,265 feet) of 600mm (24 inch) diameter watermain on Dixie Road from Countryside Road to Mayfield Road (Project 08-1150);
- 1,260m (4,133 feet) of 675mm (27 inch) diameter and 498m (1,633 feet) of 525mm (21 inch) diameter sanitary sewer on Dixie Road from Countryside Road to 500m (1,640 feet) north of Mayfield Road (Project 08-2196);
- 380m (1,246 feet) of 750mm (30 inch) diameter sanitary sewer on Dixie Road from Father Tobin Road to Countryside Road (Project 06-2109).

2. Consulting Services

Since the award of the assignment, it has been recognized that the following changes in scope of work are required:

- Goreway Drive Watermain Alignment Co-ordination

Changes to the originally intended design were made to the alignment of the watermain on Goreway Drive due to the City of Brampton's proposed widening project. As this portion of the project includes two creek crossings, extensive co-ordination was required with the City, their Consultant and Regulatory Agencies for determining the watermain alignment for Project 08-1109.

As a result of the proposed Goreway Drive project the scope of work for the infrastructure assignment required amendments as follows:

- Class EA, design and tender document preparation for an additional 270m (885 feet) of 750mm (30 inch) diameter watermain on Countryside Drive east of Goreway Drive.
- Design, tender document preparation, and contract administration for an additional 180m (590 feet) of 150mm (6 inch) diameter watermain on Stanley Carberry Drive east of Goreway Drive.

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- Contract Administration – Sanitary Sewer

Originally it had been proposed that the sewer could be installed by open cut methodologies. The presence of a multitude of underground services requiring deeper than expected excavation and the requirement to utilize tunneling technologies for the sanitary sewer has created the need for increased supervision of 275 days for the works as part of the contract administration duties.

FINANCIAL IMPLICATIONS

In order to have seamless completion of these projects, which include stand-alone works and infrastructure included with the City of Brampton road-widening works, additional funds will be required as follows:

Additional Works Components	Estimated Cost	Funding Source
Detailed Design Goreway Drive Watermain (WM) alignment change	\$49,812	(08-1109)
Class EA, design and tender documents Countryside Drive WM	\$98,544	(08-1109)
Design, tender documents, and contract administration Stanley Carberry Drive WM	\$7,800	(08-1109)
Contract administration Goreway Drive WM	\$81,904	(08-1109)
Contract administration Dixie Road WM	\$45,502	(08-1150)
Contract administration Dixie Road Sanitary Sewer	\$276,227	(08-2196)
Contract administration Dixie Road Sanitary Sewer	\$108,265	(06-2109)
Total	\$668,054	

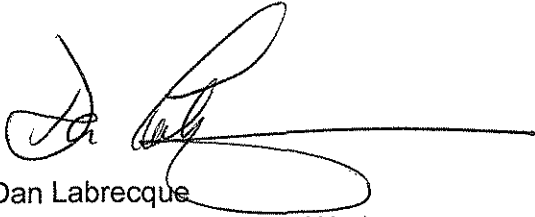
The current budget estimate for the total project cost is approximately \$23 million. The engineering and contract administration costs represent 6.5 per cent of this total cost, which is consistent with industry average for projects of this nature.

Funding is available under Capital Projects 08-1109, 08-1150, 08-2196 and 06-2109.

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Dan Labrecque
Commissioner of Public Works

Approved for Submission:



D. Szwarc, Chief Administrative Officer

For further information regarding this report, please contact Shaun Hussain at extension 7832 or via email at shaun.hussain@peelregion.ca

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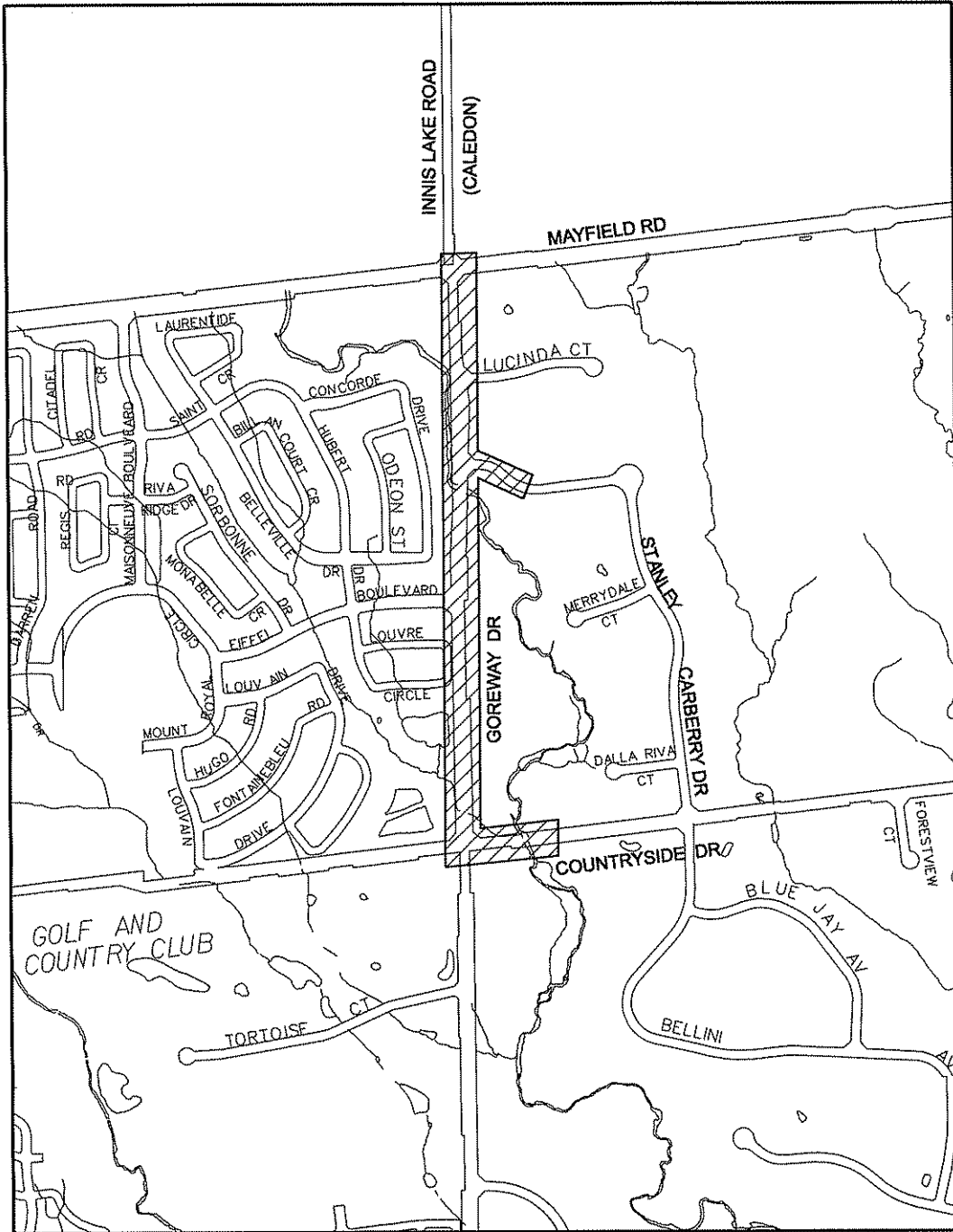
- c. Legislative Services
-  Manager, Financial Support Unit (FSU)
-  J. Macintyre, Director, Purchasing

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APPENDIX I

DECEMBER 1, 2009

**WATERMAIN CONSTRUCTION
CAPITAL PROJECT 08-1109
DOCUMENT 2007-704P
CITY OF BRAMPTON, WARD 10**



APPENDIX II

DECEMBER 1, 2009
WATERMAIN AND SANITARY TRUNK SEWER CONSTRUCTION
CAPITAL PROJECT 08-1150,08-2196,06-2109
DOCUMENT 2007-704P
CITY OF BRAMPTON, WARD 9
TOWN OF CALEDON, WARD 2

