



Report to: Development Services Committee

Date Report Authored: March 8, 2011

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**SUBJECT:** 281-R-10 Detailed Design for the Reconstruction of Main Street Markham, from 16<sup>th</sup> Avenue to Major MacKenzie Drive

**PREPARED BY:** Dale MacKenzie, Senior Capital Works Engineer (4055)  
Alain Cachola, Manager Capital Works and Infrastructure (2711)

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**RECOMMENDATION:**

- 1) That the report entitled “Detailed Design for Main Street Markham from 16<sup>th</sup> Avenue to Major MacKenzie Drive”, be received;
- 2) And that the contract “281-R-10 Detailed Design and Contract Administration for the reconstruction of Main Street Markham” (between 16<sup>th</sup> Avenue and Major MacKenzie Drive) be awarded to the highest ranked and lowest priced bidder Morrison Hershfield Limited, in the amount of \$405,136.07, inclusive of HST.
- 3) And that a contingency amount of \$101,284.02 inclusive of HST be established to cover any additional design, contract administrations and legal costs;
- 4) And that funding for the project be provided from the approved Capital Account 083-5350-10054-005 which currently has funding in the amount of \$805,000.00;
- 5) And that staff be authorized and directed to do all things necessary to give effect to this resolution.

**EXECUTIVE SUMMARY:**

Not Applicable

[1. Purpose](#)

[2. Background](#)

[3. Discussion](#)

[4. Financial](#)

[5. Others \(HR, Strategic, Affected Units\)](#)

[6. Attachment\(s\)](#)

**PURPOSE:**

To award the detailed design and contract administration for the reconstruction of Main Street Markham between 16<sup>th</sup> Avenue and Major MacKenzie Drive to Morrison Hershfield Limited;

**BACKGROUND INFORMATION**

Main Street Markham, Highway 48, or Markham Road (hereafter referred to as Main Street Markham) is a diverse roadway with three distinctive areas (functions) with a variety of adjacent land uses. The study area extends from Highway 407 northward to the future Markham Bypass intersection (Donald Cousens Parkway) located north of Major MacKenzie Drive.

It is the section of Main Street Markham from 16<sup>th</sup> Avenue to Major MacKenzie Drive that this report deals with. In particular this section of Main Street Markham includes a small historic area towards the south (Markham Museum Area) while towards the north are existing/proposed commercial/industrial and residential developments.

The recommended alternative for this section of roadway is shown as Attachment “A” and is discussed as follows. The future developments in this area include both residential and commercial intensification. To accommodate the projected increase in traffic, there is a need to have a 4-lane cross-section with a

centre turning lane area. The centre area will include a 6m wide landscaped island (where possible) and will include turning lanes at intersections and other designated locations.

The comments received for this area were generally in agreement with the proposal and several of the residents requested that the schedule for the roadway works be expedited, that signs be installed to direct traffic to the Donald Cousens Parkway (DCP) and that the Region of York be requested to expedite the completion of the DCP, north to Hwy 48. The Region of York is to confirm if DCP will be included in their Capital budget for 2015.

## PROPOSAL CALL INFORMATION

A Request for Proposal #281-R-10 was issued to the market on November 25, 2010 and included the detailed design and contract administration of Main Street Markham from 16<sup>th</sup> Avenue to Major MacKenzie Drive, in accordance with the approved Environmental Study Report. The results of the proposals received are summarized below:

### Request for Proposal

Advertised	ETN
Bid closed on	December 22, 2010
Number of Consultants obtaining Bid documents	35
Number of Consultants responding to Bid	8

Capital engineering staff along with assistance from the Town of Markham Purchasing Department reviewed the submitted proposals. The prices from the eight (8) bidders ranged from a low of \$398,129 to a high of \$1,569,890.00 exclusive of HST. The average price for the eight (8) submitted RFP's is ±\$850,000. Upon review of the submissions, it was determined that all consultants provided complete proposals.

The lowest proposal price was from Morrison Hershfield Limited which also had the highest overall total combined points. A follow-up meeting was held with senior staff from Morrison Hershfield Limited to ensure that all of the consultant services required would be provided for the submitted price. All questions were answered satisfactorily and as such we recommend awarding this contract to this engineering firm. The Town of Markham has retained Morrison Hershfield on previous projects and has received good service and value.

In the Morrison Hershfield proposal it was assumed that the construction work would be completed in six (6) month, a timeframe which is believed to be very aggressive. Engineering staff believe a more conservative and realistic construction time frame would be at least 8 months. Therefore, to ensure adequate funding for the additional two months of construction, staff has increased the contingency amount by \$61,000 (from \$40,284.02 to \$101,284.02) in case an additional two (2) months of contract administration services is required.

**Detailed Analysis:**

<b>Company</b>	<b>Technical Points (70%)</b>	<b>Financial Points (30%)</b>	<b>Total Points</b>	<b>Ranking</b>
<b>Morrison Hershfield Limited</b>	<b>55.0</b>	<b>30.0</b>	<b>85.0</b>	<b>1</b>
McCormick Rankin Corporation	63.0	2.1	65.1	2
Chisholm Fleming & Associates	52.0	10.5	62.5	3
AECOM Canada Limited	58.0	2.2	60.2	4
Lea Consulting Ltd.	55.0	3.4	58.4	5
IBI Group	51.0	5.4	56.4	6
URS Canada Inc.	55.0	0.0	55.0	7
Masongsong Associates Engineering Limited	45.0	6.4	51.4	8

The bids have been verified for accuracy and compliance with the Request for Proposal terms and conditions. Purchasing has reviewed the references of the recommended proponent and is satisfied with the references provided.

**FINANCIAL CONSIDERATIONS:**

The total cost of this detailed design project inclusive of HST is as follows:

<b>Item</b>	<b>Cost (Including HST)</b>
Part A –Detailed Design	\$ 281,982.05
Part B – Contract Administration	\$123,154.02
<b>Total:</b>	<b>\$405,136.07</b>
Detailed Design, CA Contingency and Legal (25%)	\$101,284.02
<b>Total including Contingency:</b>	<b>\$506,420.09</b>
Engineering Department Admin Fee (9.0%)	\$45,577.81
<b>Total Project Cost:</b>	<b>\$551,997.90</b>

Project 10054 has a budget of \$805,000 and after the cost of the award the remaining balance of \$253,002.10 will be used for the construction project.

**ALIGNMENT WITH STRATEGIC PRIORITIES:**

The reconstruction of Main Street Markham from 16<sup>th</sup> Avenue to Major MacKenzie Drive provides the necessary infrastructure, including sidewalks and bike lanes, to allow for the existing and future traffic and pedestrian movement from existing and future development. In addition the Main Street Markham works will provide an increase in the level of service on the adjacent road network as well as 16<sup>th</sup> Avenue and Major MacKenzie Drive.

This project is in line with the Town of Markham's strategic focus relating to Growth Management, Transportation/Transit, Safety, the Environment and Municipal Services.

**BUSINESS UNITS CONSULTED AND AFFECTED:**

The Finance and Legal Departments have been consulted and their comments have been incorporated.

**RECOMMENDED BY:**

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Alan Brown, C.E.T.  
Director of Engineering

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Jim Baird, M.C.I.P., R.P.P.  
Commissioner, Development Services

**ATTACHMENTS:**

**Attachment “A” – Typical Cross Section**

**Attachment “B” – Project Map**