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INTERSECTION IMPROVEMENTS AND BRIDGE REPLACEMENT UPDATE AND TOTAL PROJECT BUDGET APPROVAL 16TH AVENUE AT REESOR ROAD, TOWN OF MARKHAM

The Transportation Services Committee recommends the adoption of the recommendations contained in the following report dated June 6, 2011, from the Commissioner of Transportation Services.

1. RECOMMENDATIONS

It is recommended that:

1. Council approve a new 2011 Roads capital construction project (No. 86061 - originally planned for 2012) for the jog elimination and bridge replacement at the 16th Avenue (Y.R. 3) and Reesor Road intersection.
2. Council approve Total Project Budget Authority for the new project No. 86061 of \$8.35 million, to be funded with \$4.0M of reallocated funding from the 2011 pre-construction project No. 86060, and new funding of \$4.35M from the Roads Tax Levy and Development Charges resources.

2. PURPOSE

This report provides an update on the planned 16th Avenue/Reesor Road jog elimination and bridge replacement over the Little Rouge Creek and requests Regional Council approval of total project budget authorization for construction in order to advance the construction of the project.

The location of the 16th Avenue/Reesor Road jog elimination and bridge replacement over the Little Rouge Creek is shown in the appended context map and location plan (*Attachments 1 and 2*).

3. BACKGROUND

York Region's 2011 10-Year Roads Construction Program has scheduled improvements at the 16th Avenue and Reesor Road intersection and replacement of the single-lane bridge on 16th Avenue east of Reesor Road to start in 2012.

A Municipal Class Environmental Assessment was completed in 2009 recommending intersection improvements and replacement of the single-lane bridge carrying 16th Avenue over the Rouge River, east of Reesor Road

A Class Environmental Assessment Study for the improvements of 16th Avenue from Donald Cousens Parkway to York-Durham Line was completed in March 2009 and received Environmental Assessment clearance in May 2009.

The recommended improvements include:

- A new four-way intersection at 16th Avenue and Reesor Road.
- A new three-lane bridge over Little Rouge Creek.
- Multi-use trail and bike lanes.

Council has approved Total Project Budget Authority for pre-construction project 86060 in 2010 and 2011

Through the 2011 10-Year Roads Construction Program \$4.56M has been allocated for the pre-construction activities which include engineering design, property acquisition and utility relocation.

The 16th Avenue improvements at Reesor Road are programmed for construction project 86061 commencing in 2012 and Total Project Budget Authority for construction was to be sought through the 2012 budget process

A total amount of \$7.8M is budgeted in 2012 for the costs associated with construction, inspection and quality control activities. Total Project Budget Authority for the construction activities would be sought through the 2012 budget process.

Property acquisition cost and timing has allowed construction project 86061 to proceed sooner than planned and at lower cost

Construction project 86061 can proceed earlier than planned because property needed for the project has been conveyed to the Region from the TRCA and the Town of Markham at no cost and earlier than planned.

4. ANALYSIS AND OPTIONS

Detailed design and pre-construction activities (including property acquisition, obtaining permits and utility relocations) commenced in February 2010

The detailed design was initiated in February 2010 and work is proceeding ahead of the anticipated project schedule. Engineering design activities and preparation of the contract documents are complete.

Some field activities have been completed including archaeological assessment of the lands to be acquired from the Toronto and Region Conservation Authority and the trees that were in conflict with the proposed works have been removed.

Staff has identified the project work to be ahead of schedule and will be ready for construction to begin in the fall of 2011

Utility relocations, property acquisition and permit approvals are expected to be completed ahead of schedule, by the end of June 2011. If the project is tendered in late summer of 2011, construction can begin in the fall of 2011.

Due to environmental timing window constraints, advancing the construction to begin in 2011 will allow the construction to be complete in one year instead of two construction seasons

Little Rouge Creek is classified as a “warmwater” watercourse. Hence, to apply a “warmwater” construction timing window of July 1 to March 31 for construction in 2012 will result in a two-year construction season for the proposed works in the regulated areas. Advancing the construction start to the fall of this year will allow bridge construction in the fall and winter this year and intersection works in the fall. Final paving and finishing works will be done in spring of 2012.

The duration of temporary road closures will be minimized with a 2011 construction start

Road closures are required on Reesor Road and 16th Avenue for the proposed works. To minimize road closures on Reesor Road and on 16th Avenue, west of Reesor Road, interim completion dates are planned for these areas so that the intersection can be opened to traffic by end of fall 2011. Due to the bridge construction, 16th Avenue, east of Reesor Road to York Durham Line will remain closed until spring of 2012.

5. FINANCIAL IMPLICATIONS

An amount \$12,991,000 is identified for this project in the Region's 10-Year Roads Construction Program

The 2011 10-Year Roads Construction program identified all costs associated with the proposed jog elimination at 16th Avenue and Reesor Road and replacement of the single-lane bailey bridge over the Little Rouge Creek. These expenditures include engineering design, property acquisition, utility relocations, environmental mitigations, construction, contract administration and inspection costs. The total estimated cost for the project is \$12,991,000.

Pre-construction activities including design, utility relocation and property acquisition are complete and have been delivered under budget by \$4.0M

The total project budget approved amount for 2011 is \$4,561,000 for pre-construction activities such as engineering design, property acquisition, utility relocation and obtaining permits. The property acquisition cost has been reduced significantly as lands from the Toronto and Region Conservation Authority and the Town of Markham will be conveyed to the Region at no cost. Design and preconstruction activities have been delivered at a cost of \$0.56M, hence \$4.0M of Total Project Budget Authority approved funds remain unspent.

Staff recommend the Total Project Budget Authority for the construction activities in the amount of about \$8.35M be approved prior to the 2012 budget, allowing for the early tender and commencement of construction in 2011

In order to award the construction contract in 2011, staff require the Total Budget Authority for the whole project cost. The most recent cost estimate for the construction activities indicates an increase to \$8.35M (*see table below*).

Table 1
Reallocation of Budget

Description	2011	2012
Pre-construction Project 86060		
• Total Project Budget Approved	\$4.56M	
• Projected costs to complete	<u>0.56M</u>	
o Budget No Longer Required	4.00M	
Construction Project 86061		
• Funding Reallocated from 86060	\$4.00M	
• New Funding Requested	<u>4.35M</u>	
o Estimated Cost	8.35M	
Projected Cost Flow	4.00M	4.35M

Total Project Budget Authority for the construction activities was anticipated to be sought through the 2012 budget process. With the early completion of pre-construction activities, staff recommends the Total Project Budget Authority for the construction activities in the amount of about \$8,350,000 be approved prior to the 2012 budget, allowing for the early tender and commencement of construction in 2011.

The Total Project Budget Authority for construction will be funded from unused funds under the pre-construction phase and new allocation of budget

The \$4.0M in unused approved Total Project Budget Authority funds for pre-construction activities and a new allocation of \$4,350,000 will be required, to fund the Total Project Budget Authority for construction activities in the amount of about \$8,350,000.

It is anticipated that \$4.0M of construction costs will be expended in 2011 and \$4.35M in 2012.

The project is funded from 90% of Development Charges and 10% Tax Levy

All project activities are funded from 90% of Development Charges and 10% Tax Levy. It is anticipated that \$4.0M of the Total Project Budget Authority will be expended in 2011, which corresponds to a tax levy of \$400,000.

6. LOCAL MUNICIPAL IMPACT

Reesor Road will be temporarily closed during construction

Temporary road closure of the local road, Reesor Road, is needed to reconstruct Reesor Road. Local traffic will be detoured around the construction site.

Road improvements on 16th Avenue will address the identified deficiencies in the Region's road network and specifically in the Town of Markham. The single lane bailey bridge will be replaced and the jog at the 16th Avenue and Reesor Road intersection will be eliminated. The proposed improvements also include auxiliary lanes at the reconfigured intersection.

7. CONCLUSION

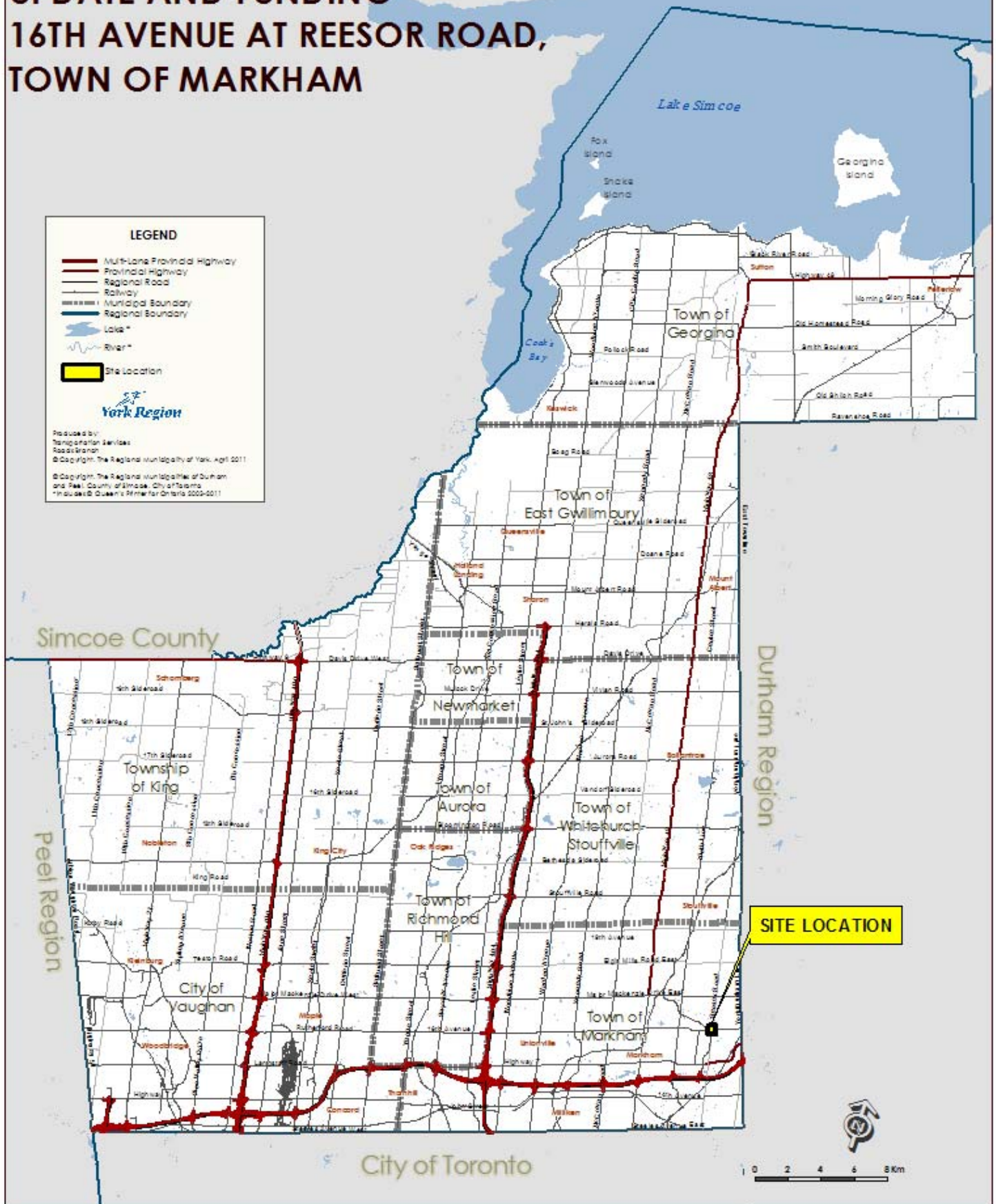
Advancing the construction of 16th Avenue/Reesor Road jog elimination and bridge replacement of the Little Rouge Creek will address the safety concerns and road deficiencies at this location.

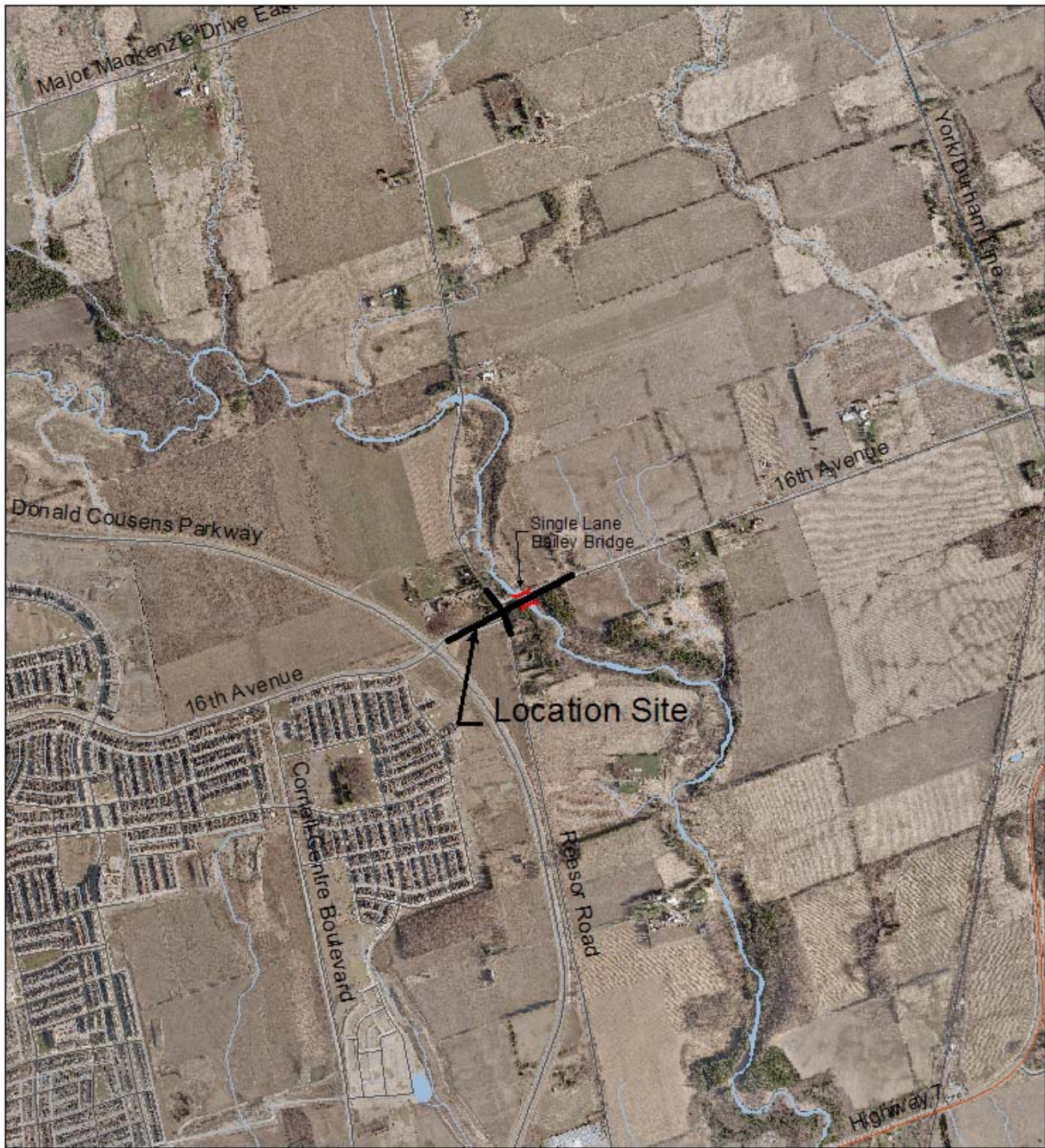
For more information on this report, please contact Paul Jankowski, General Manager at Ext. 5901.

The Senior Management Group has reviewed this report.

(The two attachments referred to in this clause are attached to this report.)

INTERSECTION IMPROVEMENTS AND BRIDGE REPLACEMENT UPDATE AND FUNDING 16TH AVENUE AT REESOR ROAD, TOWN OF MARKHAM



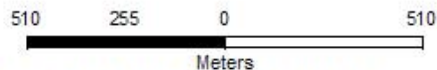


LOCATION PLAN

PROJECT 8686

16th Ave. from Donald Cousens Parkway to East of Reesor Rd.
Town of Markham

Produced By: Roads Branch - Capital Delivery
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