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DOANE ROAD / HIGHWAY 404 INTERCHANGE UPDATE AND FUNDING

The Transportation Services Committee recommends the adoption of the recommendations contained in the following report dated September 1, 2010, from the Commissioner of Transportation Services.

1. RECOMMENDATIONS

It is recommended that:

1. The Regional Chair and Regional Clerk be authorized to sign the necessary agreement with the Ministry of Transportation to allow the Ministry of Transportation to deliver a portion of the Region's programmed works, including a grade separation and advance works, at the Doane Road (Y.R. 45) / Highway 404 interchange, at an estimated Regional cost of \$11,000,000 (excluding taxes), subject to terms and conditions satisfactory to the Commissioner of Transportation Services and approval of Legal Services as to form and content.
2. Regional Council authorize an amendment to the 2010 total project budget authority to include \$5,240,000 (excluding taxes) for the construction, contract administration and inspection of the Stage 1 works at the Doane Road (Y.R. 45) / Highway 404 interchange, bringing the revised total project budget authority up to \$7,400,000 in advance of the approval of the 2011 Capital Budget.

2. PURPOSE

This report provides an update on the planned interchange at the Highway 404 extension and Doane Road, and to obtain Regional Council authority to have the Ministry of Transportation (MTO) construct portions of the Region's programmed road works concurrently with MTO's work.

The location of the Highway 404 Extension within the Regional context is depicted in *Attachment 1*.

The Highway 404 Extension from Green Lane to Woodbine Avenue / Ravenshoe Road is depicted in *Attachment 2*.

3. BACKGROUND

MTO continues to work towards implementing the Highway 404 extension from Green Lane to Woodbine Avenue / Ravenshoe Road.

The following are works that have been or continue to be coordinated with Region staff:

- Mainline Highway 404 from Green Lane to Woodbine Avenue / Ravenshoe Road.
- Mount Albert Road grade separation.
- Queensville Sideroad interchange.
- Doane Road grade separation and advance interchange works.
- Intersection details for the Highway 404 terminus at Woodbine Avenue / Ravenshoe Road

4. ANALYSIS AND OPTIONS

The detailed design of the Doane Road interchange is complete

The Region completed a Schedule 'C' Class Environmental Assessment (Class EA), which recommended a full movements interchange at Highway 404 and Doane Road.

At the Region's request, MTO's design of the Highway 404 Extension makes provisions for this interchange at Doane Road. However, as MTO's environmental planning only accounted for a grade separation between Doane Road and Highway 404, the provision for the interchange was made under the condition that the additional costs associated with an interchange versus a grade separation would be borne by the Region.

Accordingly, by the authority granted through Report No. 1, Clause 9, of the Transportation and Works Committee of January 22, 2009 (Highway 404 Extension and Funding Contribution, Green Lane to Woodbine Avenue / Ravenshoe Road), detailed design services for the Region's share of the interchange works were procured.

While Doane Road is planned for capital improvements in 2018, it is necessary to fund and construct the advance work for the future interchange at this time while MTO is constructing Highway 404.

The detailed design of the Doane Road interchange is now complete. The interchange design includes sidewalks on both sides as well as paved shoulders to provide space for cyclists.

MTO has awarded a contract for the construction of mainline Highway 404 from Green Lane to Queensville Sideroad

MTO awarded a contract to Miller Paving Limited for the construction of mainline Highway 404 from Green Lane to Queensville Sideroad. This contract also includes the Doane Road grade separation and advance interchange works and the Queensville Sideroad interchange works.

Work is expected to commence in fall 2010.

A temporary closure of Doane Road to through traffic is required from July 2010 to August 2011 to facilitate the construction of the Highway 404 extension

In order to facilitate MTO's construction of the Highway 404 extension a temporary closure of Doane Road to through traffic from east of Leslie Street to west of Woodbine Avenue is required. This temporary closure began on July 29, 2010. Doane Road is expected to reopen to through traffic by August 2011. Access will be maintained for the one business and all residential properties at all times.

The Doane Road interchange will be constructed in stages

The Doane Road interchange will be constructed in two stages:

Stage 1 is to be constructed by MTO as part of their work for the Highway 404 Extension

Stage 1 will consist of the wider bridge structure, speed change lanes, and ramp stubs (to facilitate future connections), with construction by MTO. Speed change lanes on Highway 404 will be included in the Stage 1 works to provide consistency with the Highway 404 extension (to be constructed using concrete pavement). This will also result in cost savings to the Region by eliminating the need for future work zone protection associated with working adjacent to a "live" highway.

At the completion of Stage 1 the Doane Road interchange will only be partially completed and not ready for use.

Stage 2 is to be constructed by York Region and will be the completion of the interchange works

Stage 2 will consist of completing the ramps, which will be constructed by the Region. This two-stage construction is depicted in *Attachment 3*.

The 2010 10-Year Roads Construction Program has scheduled Stage 2 of the Doane Road interchange to start in 2018.

At the completion of Stage 2 the Doane Road interchange will be fully completed and opened for use.

The estimated total Regional cost for the Doane Road interchange is approximately \$18.3M

The estimated total Regional cost for the Doane Road interchange is approximately \$18,300,000. The breakdown of this cost is presented in Table 1

Table 1
Total Regional cost for the Doane Road Interchange

Description	Amounts
Design (delivery by York Region)	\$600,000
Property Acquisition (delivery by York Region)	\$2,300,000
Property Acquisition (delivery by MTO)*	\$3,600,000*
Construction of Stage 1 Works (delivery by MTO)*	\$6,700,000*
Construction of Stage 2 Works (delivery by York Region)	\$4,000,000
Contract Administration and Inspection – Stage 1 (delivery by MTO)*	\$700,000*
Contract Administration and Inspection – Stage 2 (delivery by York Region)	\$400,000
TOTAL	\$18,300,000

* This work is the cost responsibility of York Region and will be delivered by MTO as part of the Highway 404 extension.

MTO will be delivering approximately \$11,000,000 of the costs attributable to the Region. These costs will be the subject of the legal agreement.

The estimated total Regional cost for the Doane Road interchange presented in the 2010 10 Year Roads Construction Program is approximately \$27,985,000, of which \$8,660,000 is Total Project Budget Approval approved. The draft 2011 10 Year Roads Construction Program will be updated to reflect the revised cost estimate.

5. FINANCIAL IMPLICATIONS

The 2010 10-Year Roads Construction Program contains all costs pertaining to the proposed interchange at Highway 404/Doane Road. These expenditures include engineering/design, property acquisition, construction, contract administration and inspection costs relating to providing a wider structure, speed change lanes, ramps, and ramp terminals at Doane Road.

The estimated total cost attributable to the Region for all work up to the end of Stage 1 is \$13,900,000, details of which are presented in Table 2.

Table 2
Total Regional cost to complete all work up to the end of Stage 1

Description	Amounts
Design (delivery by York Region)	\$600,000
Property Acquisition (delivery by York Region)	\$2,300,000
Property Acquisition (delivery by MTO)*	\$3,600,000*
Construction of Stage 1 Works (delivery by MTO)*	\$6,700,000*
Contract Administration and Inspection – Stage 1 (delivery by MTO)*	\$700,000*
TOTAL	\$13,900,000

* This work is the cost responsibility of York Region and will be delivered by MTO as part of the Highway 404 extension.

The design and property acquisition for the Stage 1 work is complete and has been delivered under budget by \$2.16M

The 2010 total project budget authority (TPBA) for this project is \$8,660,000, which is allocated to design and property acquisition only. At this time the design and property acquisition is complete and the work has been delivered at a Regional cost of \$6,500,000. As such, there remains \$2,160,000 of TPBA approved funds.

To execute an agreement with MTO prior to the approval of the 2011 Capital Budget, the Total Project Budget Authority needs to be increased by \$5.24M

Funds for construction, contract administration and inspection are included in future budget years under the 2010 10-Year Roads Construction Program. To execute an agreement with MTO ahead of 2011 budget approval, the construction, contract administration and inspection costs of \$7,400,000 need to be included in the 2010 total project budget authority.

If the funds from the design and property acquisition being delivered under budget are allocated to the construction of the Stage 1 work, the TPBA needs to be increased by \$5,240,000. This will provide the necessary budget approval to fund the commitments in the pending legal agreement.

6. LOCAL MUNICIPAL IMPACT

The Growth Plan for the Greater Golden Horseshoe (*Ministry of Public Infrastructure Renewal, 2006*) indicates that significant growth in population and employment is projected for East Gwillimbury by 2031. The provision of an interchange at Highway 404/ Doane Road will address increased congestion on the local road network, and provide a benefit from a network flexibility perspective through an alternate route for

emergency service vehicles and local travellers in the event of a traffic incident on Highway 404.

Construction of the Highway 404 extension to Woodbine Avenue / Ravenshoe Road will provide substantial community and economic benefits to the Towns of East Gwillimbury and Georgina. The extension has long been a critical transportation infrastructure component of planning undertaken by both of these municipalities.

7. CONCLUSION

Regional staff continue to coordinate all outstanding issues with MTO, including the provision of interchange infrastructure at Doane Road, the interchange at Queensville Sideroad and the interim terminus at Woodbine Avenue / Ravenshoe Road.

Authorization for executing an agreement with MTO to undertake the construction of Stage 1 of the Region's programmed work at the Highway 404/ Doane Road interchange is required in order to have the work constructed under the current Highway 404 extension.

To proceed with entering an agreement with MTO, it is recommended that the 2010 total project budget authority be increased by \$5,240,000 in advance of the approval of the 2011 Capital Budget to include construction, contract administration and inspection costs for the Stage 1 works at the Doane Road / Highway 404 interchange.

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

The Senior Management Group has reviewed this report.

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

REGIONAL CONTEXT MAP

DOANE ROAD INTERCHANGE UPDATE

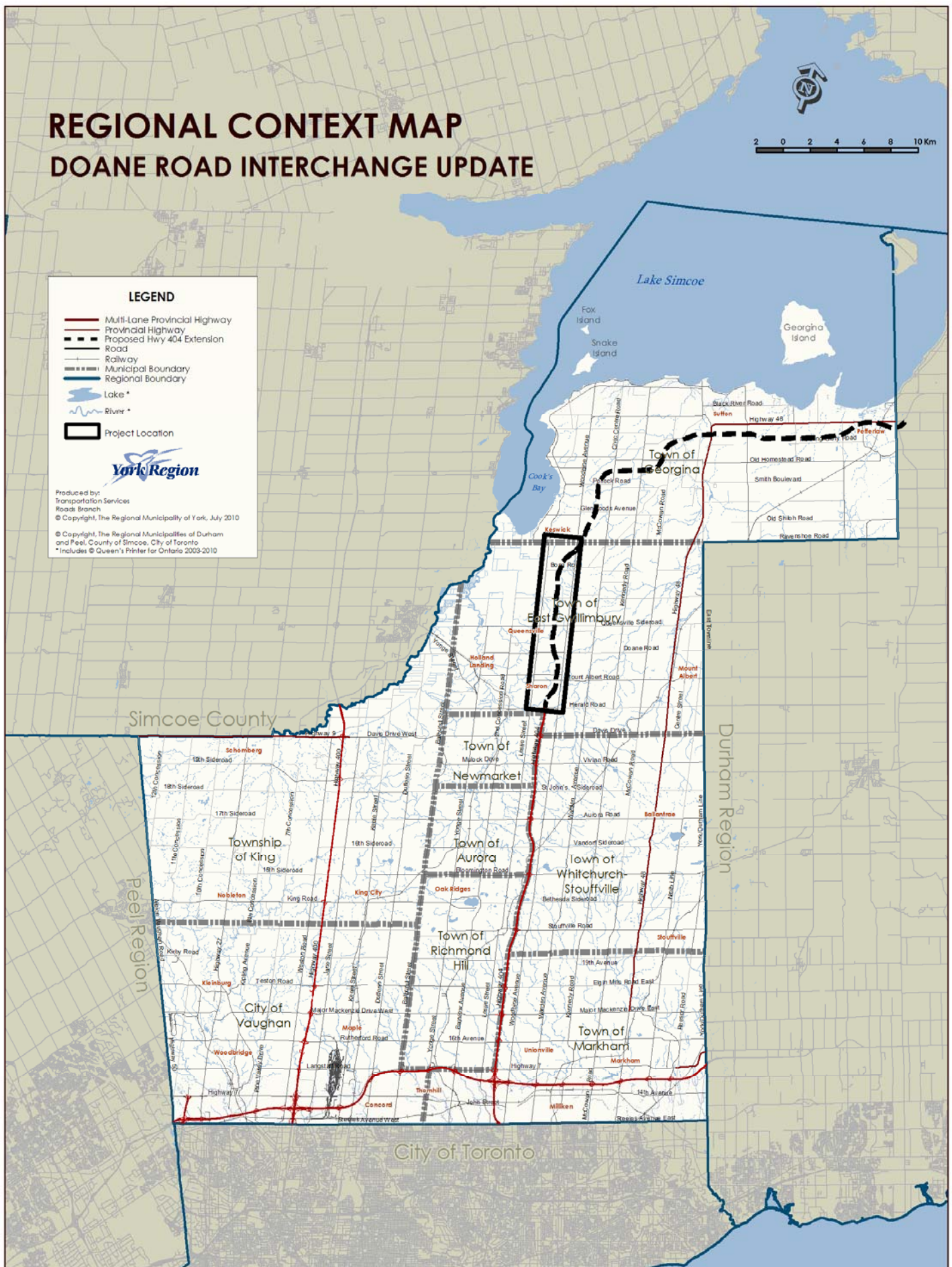
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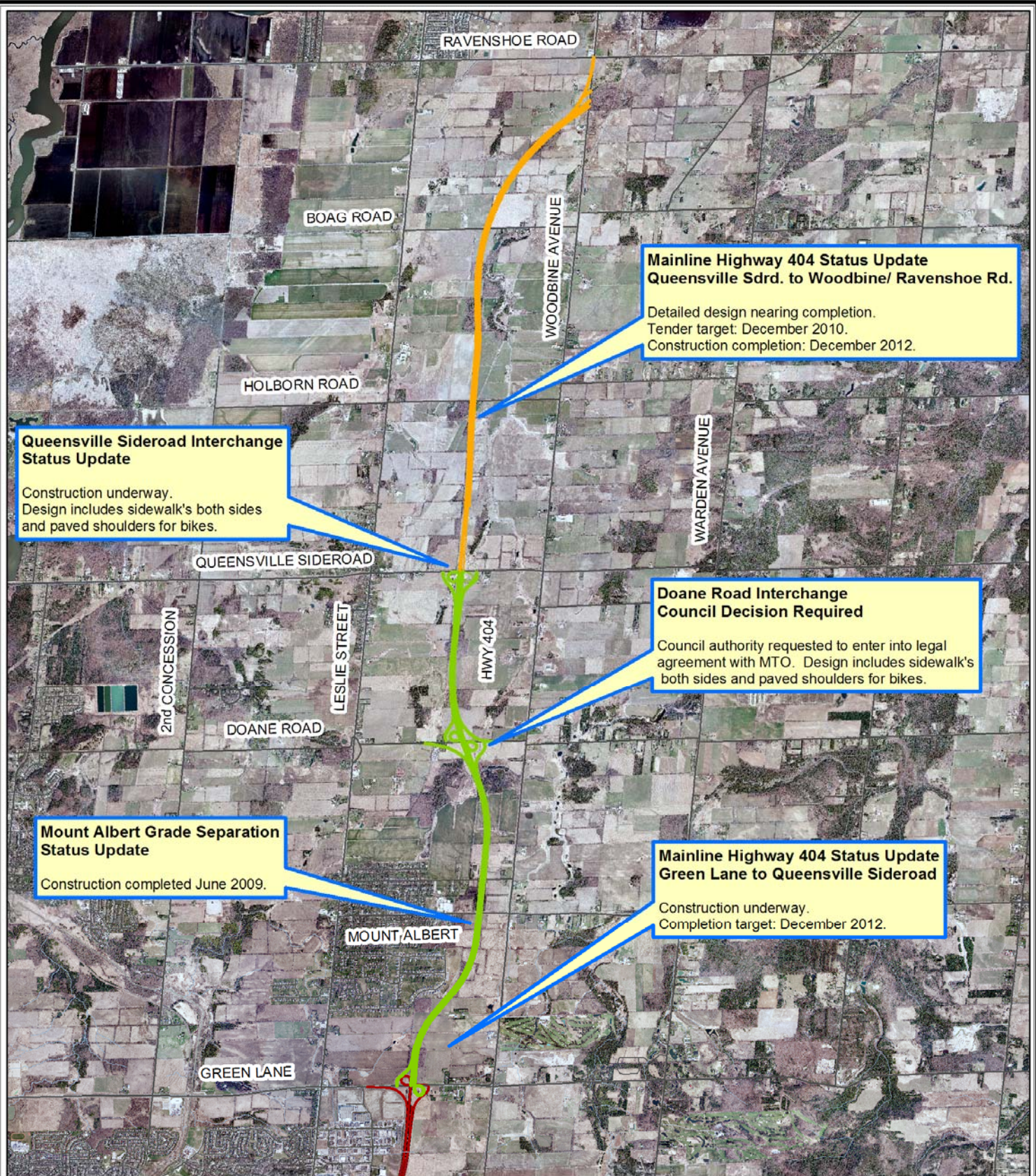
- Multi-Lane Provincial Highway
- Provincial Highway
- - - Proposed Hwy 404 Extension
- Road
- - - Railway
- - - Municipal Boundary
- Regional Boundary
- Lake *
- River *
- Project Location

York Region

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HWY 404 EXTENSION UPDATE

HIGHWAY 404 EXTENSION
GREEN LANE to WOODBINE AVENUE/ RAVENSHOE ROAD
TOWN OF EAST GWILLIMBURY



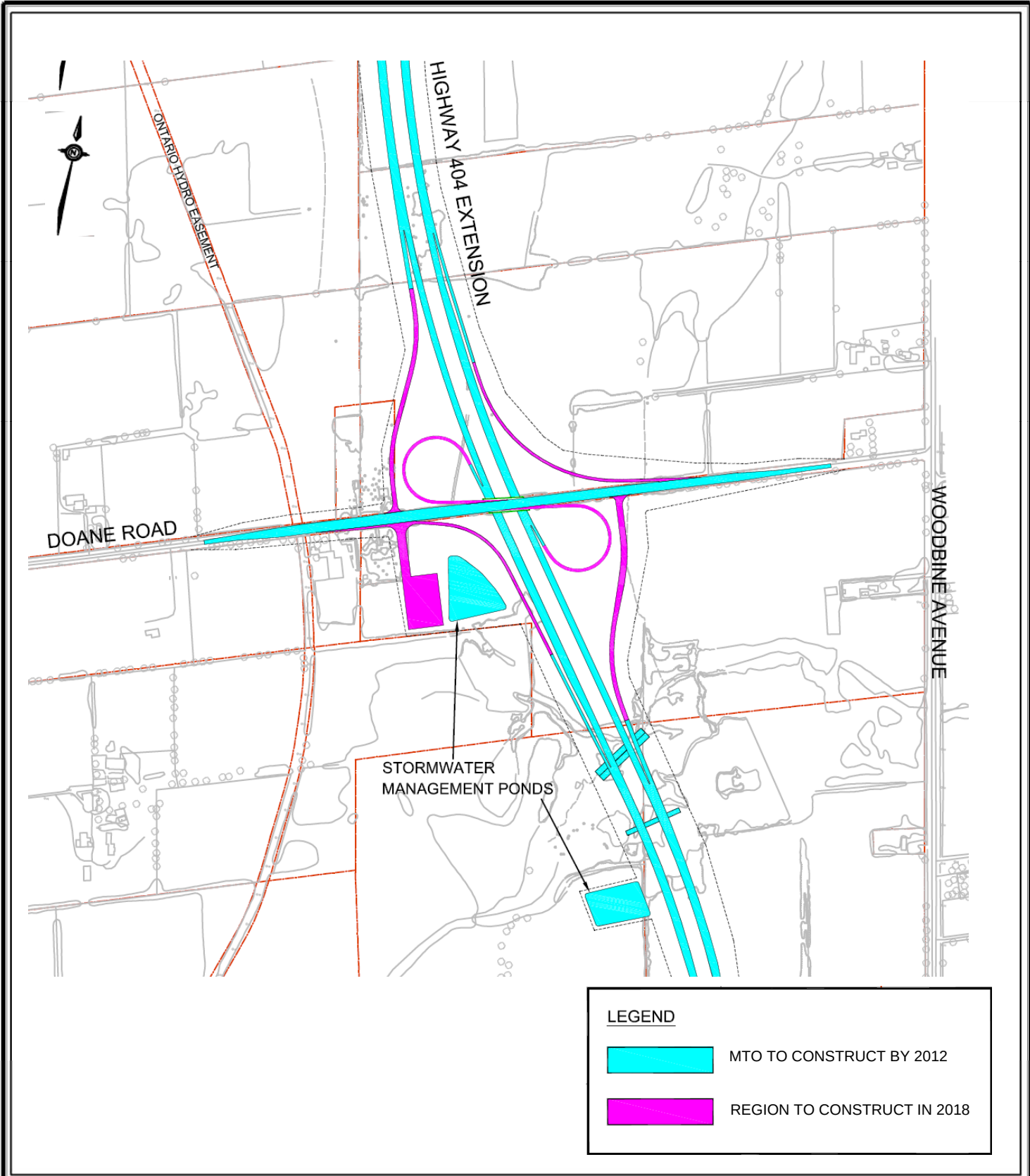
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LOCATION PLAN

SUGGESTED SEPARATE MTO & YORK REGION CONTRACTS
DOANE ROAD INTERCHANGE
TOWN OF EAST GWILLIMBURY



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