



# Engineering Department

Major Capital Project Update  
Presentation to General Committee

January 22, 2007



# Index

## Pages

● 2006 Capital Budget Status	1
● Road/Structures	2 to 12
● Servicing	13 to 17
● Transportation	18 to 19
● Environmental	20 to 22

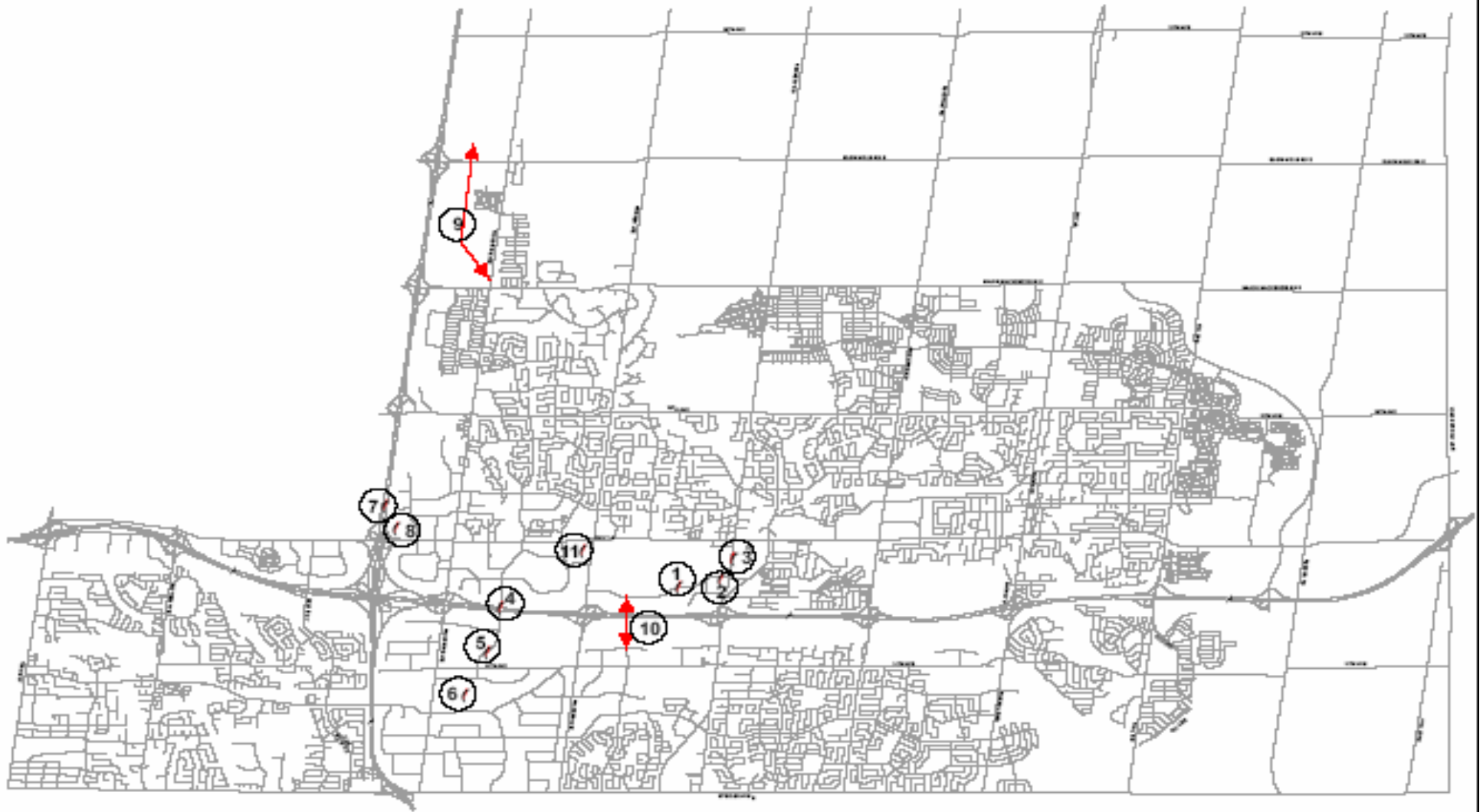
# 2006 Capital Budget Status

● Budget	\$110,422,358
● Expenditures (Nov. 30, 2006)	- \$ 50,868,380
● Commitments (P.O., resolutions)	- \$ 15,951,188
● Outstanding	<hr/> \$ 43,602,790
➤ Property Acquisitions to close 2007 (Quan, Sheridan, ORC, Highcock, Vetesse)	- \$ 19,519,262
➤ Projects dependent on developer/agency funding	- \$ 3,395,923
➤ Projects to be reconciled and closed	- \$ 1,675,318
➤ Projects to be deferred to 2007 (404 Crossings, Main Street EA, Village Pkwy EA, Streetscape, Allocation)	- \$ 927,200
➤ Projects underway and to be awarded in 2007	<hr/> \$ 18,085,087

# Major Road & Structure Projects

	Pgs
● 1. Enterprise Drive – GO Rail Separation	2
● 2. Enterprise Drive Phase 2	3
● 3. Main Street Unionville Reconstruction Hwy 7 to Enterprise Dr.	4
● 4. Rodick Road/ Highway 407 Overpass	5
● 5. Rodick Road Reconstruction – Miller Ave to 14 <sup>th</sup> Ave.	6
● 6. Rodick Road Reconstruction – 14 <sup>th</sup> Ave to Esna Park	7
● 7. Hwy 404 Grade Separation and Centurian Drive Extension	8
● 8. 404 Ramp Extension – Highway 7 to Centurian Drive Extension	9
● 9. Woodbine Bypass – Major Mackenzie Drive to Elgin Mills Road	10
● 10. Birchmount Road Extension – Enterprise Drive to 14 <sup>th</sup> Ave	11
● 11. Clegg Road Extension - Town Centre Blvd. to Warden Avenue	12

## Major Road and Structure Projects



# 1) Project – Enterprise Drive – GO Rail Separation Project Closure

## Current Status

- Project completed & maintenance period expired

## Outstanding Issues

- Cost recoveries from York Region and Markham District Energy  
Finalize maintenance agreements with York Region and GO Transit
- Resolution of GO Transit claims for additional costs. ( $\pm$  \$100,000)

## Financial Summary

- Funding approved by Council (\$20,688,000)
- Final project cost -  $\pm$  \$19,249,000

## 2) Project – Enterprise Drive Phase 2

	Environmental Assessment	Design	Approvals	Property Acquisition	Construction	Total Project Costs	Key Issues/ Actions
Previous status (Update Report August 28 <sup>th</sup> 2006)	Completed Design underway to be completed in 2006/2007	Design on hold pending availability of access to Quan property	Region of York, MOE and TRCA approvals required	Expropriation of Quan property underway	Scheduled for 2010/2011	Estimated 10.6 million	<ul style="list-style-type: none"> <li>• Acquisition of Quan property</li> </ul>
Current status	Completed	<ul style="list-style-type: none"> <li>• Access to Quan property received</li> <li>• testing and survey work underway</li> <li>• Design to be completed in spring/summer 2007</li> </ul>	Region of York, MOE and TRCA approvals required	<ul style="list-style-type: none"> <li>• Ongoing negotiations for the acquisition of Quan property</li> <li>• environmental site assessment of Quan property underway to identify soil remediation costs</li> </ul>	<ul style="list-style-type: none"> <li>• Building demolition and site remediation scheduled for 2009</li> <li>• Road construction scheduled for 2010/2011</li> </ul>	<ul style="list-style-type: none"> <li>• Construction cost estimated \$10.6 million</li> <li>• Property acquisition cost negotiations ongoing</li> </ul>	<ul style="list-style-type: none"> <li>• property acquisition</li> <li>• site remediation costs</li> <li>• Ruland/ Markham Centre Development Groups Financing and Agreements</li> </ul>

### 3) Project - Main Street Unionville Reconstruction – Hwy 7 to Enterprise Drive

	Environmental Assessment	Design	Approvals	Property Acquisition	Construction	Total Project Costs	Key Issues/ Actions
Previous status (Update report August 28, 2006)	Completed	Design to be completed in 2006/2007	Region of York, MOE and TRCA approvals required	None identified	Deferred to 2010/2011 in conjunction with Enterprise Drive Phase 2	Estimated \$2.1 million	<ul style="list-style-type: none"> <li>•Construction timing incl. coordination of Hwy 7 sanitary sewer</li> <li>•Funding for streetscape and bridge improvements</li> </ul>
Current Status	Completed	Design to be completed spring/summer 2007	Region of York, MOE and TRCA approvals required	None identified	Scheduled for 2010/2011 in conjunction with Enterprise Drive Phase 2	Estimated \$2.1 million including bridge improvements	<ul style="list-style-type: none"> <li>•Construction timing incl. coordination of Hwy 7 sanitary sewer</li> <li>•Tax rate funding for streetscape and bridge improvements (\$ 1,100,000)</li> </ul>



## 4) Project - Rodick Road/Hwy 407 Overpass Project Closure

### Current Status

- Construction complete & road open to traffic November 2006
- Maintenance period underway – expires December 2007

### Outstanding Issues

- Commissioning and transfer of ownership of structure to 407/MTO
- Settlement of contractor's delay claim ( future confidential report)
- Acquisition of ORC Lands
- Maintenance of roadway and administration of 407 Agreement to be transferred to Operations and Asset Management Departments upon expiration of maintenance period

### Financial Summary

- Funding approved by Council - ± \$14,500,000
- Anticipated final project cost - \$13,500,000

## 5) Rodick Road Reconstruction - Miller Avenue to 14<sup>th</sup> Avenue

	Environmental Assessment	Design	Approvals	Property Acquisition	Construction	Total Project Costs	Key Issues/ Actions
Previous status (Update report August 28, 2006)	Completed	<ul style="list-style-type: none"> <li>•Road and servicing revisions to accommodate Miller development ongoing</li> <li>•Completion October 2006</li> </ul>	MOE and TRCA approvals required	<ul style="list-style-type: none"> <li>•75% complete</li> <li>•Balance of acquisition ongoing</li> </ul>	Tender January 2007 Construction spring 2007	Estimated \$7.5 million due to inclusion of local servicing costs	<ul style="list-style-type: none"> <li>•Local services to accommodate Miller Development added to contract</li> <li>•Agreement with Miller re front end financing required</li> <li>•Utility relocation costs &amp; schedules</li> </ul>
Current Status	Completed	Completion January 2007	MOE and TRCA approvals required	<ul style="list-style-type: none"> <li>•75% complete</li> <li>•Balance of acquisition ongoing</li> </ul>	Tender January 2007 Construction spring 2007	Estimated \$10 million due to inclusion of local servicing costs and utility relocations	<ul style="list-style-type: none"> <li>•Agreement with Miller re front end financing required</li> <li>•Utility relocation costs &amp; schedules</li> <li>•Acquisition of property required for construction of SWM facility</li> </ul>

## 6) Rodick Road – 14<sup>th</sup> Avenue to Esna Park

	Environmental Assessment	Design	Approvals	Property Acquisition	Construction	Total Project Costs	Key Issues/Actions
previous status (Update Report August 28 <sup>th</sup> 2006)	completed	Scheduled 2007	To be applied for when design complete CN Rail and MOE approvals required	<ul style="list-style-type: none"> <li>Major acquisition of Esna Park property completed</li> <li>Balance scheduled for acquisition in 2007</li> </ul>	Scheduled 2008/2009/2010	Estimated \$5.2	<ul style="list-style-type: none"> <li>negotiation of CN Rail Crossing Agreement</li> <li>realignment of Esna Park/Alden Road intersection</li> </ul>
Current status	completed	Scheduled 2007	<ul style="list-style-type: none"> <li>To be applied for when design complete</li> <li>CN Rail and MOE approvals required</li> </ul>	<ul style="list-style-type: none"> <li>Major acquisition of Esna Park property completed</li> <li>Balance scheduled for acquisition in 2007</li> </ul>	<ul style="list-style-type: none"> <li>Building demolition and site remediation 2008</li> <li>Road and structure construction 2009/2010</li> </ul>	Estimated \$5.2	<ul style="list-style-type: none"> <li>negotiation of CN Rail Crossing Agreement</li> <li>realignment of Esna Park/Alden Road intersection</li> </ul>

## 7) Hwy 404 Grade Separation at Centurian Drive Extension

	Environmental Assessment	Design	Approvals	Property Acquisition	Construction	Total Project Costs	Key Issues/ Actions
Previous status (Update Report April 28, 2006)	Completed	<ul style="list-style-type: none"> <li>•Consultant selection underway</li> <li>•Design to be completed fall 2007</li> </ul>	<ul style="list-style-type: none"> <li>•Preliminary discussions with MTO, TRCA, 407 ETR underway.</li> <li>• Final applications when design complete</li> </ul>	<ul style="list-style-type: none"> <li>•Negotiations underway with Markham property owners</li> <li>•Negotiations with Richmond Hill owners pending</li> </ul>	Scheduled 2007/2008/2009	Estimated \$17.4 million	Town of Markham to act as project lead for design & construction Negotiation of tri-party agreement with Richmond Hill & Region of York property acquisition
Current Status	Completed	<ul style="list-style-type: none"> <li>•Recommended consultant identified</li> <li>•award of design contract pending receipt of funding from Richmond Hill</li> </ul>	<ul style="list-style-type: none"> <li>• Preliminary discussions with MTO, TRCA, 407 ETR. underway</li> <li>• Final applications when design complete</li> </ul>	<ul style="list-style-type: none"> <li>• Negotiations underway with Markham property owners</li> <li>• Negotiations with Richmond Hill owners pending</li> </ul>	Scheduled 2008/2009	Estimated \$17.4 million	<ul style="list-style-type: none"> <li>• Richmond Hill Funding</li> <li>• tri-party agreement with Richmond Hill and York Region</li> <li>• Property acquisition timing &amp; costs</li> </ul>

## 8) 404 Ramp Extension – Highway 7 to Centurion Drive Extension

	Environmental Assessment	Design	Approvals	Property Acquisition	Construction	Total Project Costs	Key Issues/ Actions
Previous status (Update report August 28, 2006)	EA scheduled 2006/2007 Consultant selection underway	Scheduled 2007/2008	To be applied for when design complete •Preliminary discussions with MTO underway •Final applications when design complete	Property Acquired from Seneca in 2004	Scheduled 2009	Estimated \$3.1 million	MTO design requirements •Completion of EA required before December 2007
Current status	<ul style="list-style-type: none"> <li>Recommended consultant identified</li> <li>award scheduled January 2007</li> <li>EA completion scheduled fall 2007</li> </ul>	Scheduled 2008	<ul style="list-style-type: none"> <li>Preliminary discussions with MTO underway</li> <li>Final applications when design complete</li> </ul>	Property Acquired from Seneca in 2004	Scheduled 2009 subject to scheduling of Highway 404 midblock crossing construction	Estimated \$3.1 million	<ul style="list-style-type: none"> <li>Coordination of design with proposed Seneca soccer Field</li> <li>MTO design requirements</li> <li>Agreement with 407 ETR</li> </ul>

## 9) Woodbine Bypass

Project Woodbine Avenue Bypass Major Mackenzie Drive to Elgin Mills							
	Environmental Assessment	Design	Approvals	Property Acquisition	Construction	Total Project Costs	Key Issues/Actions
previous status (Update Report August 28 <sup>th</sup> 2006)	Completed by Region of York	Design underway scheduled completion October 2006 <ul style="list-style-type: none"> <li>Design underway</li> <li>30% design submission mid August,</li> <li>scheduled completion October 2006</li> <li>hydrogeological testing underway</li> </ul>	Region of York, MTO, TRCA and MOE approvals required Permit to Take Water received from MOE	Property requirements being finalized	Scheduled start April 2007 completion fall 2008	EA estimate \$14.3 million	<ul style="list-style-type: none"> <li>Funding for Phase 1 &amp; 2</li> <li>Coordination of servicing &amp; grading designs with surrounding developments</li> <li>Details of watercourse crossing</li> <li>Scheduling of Phase 3 design &amp; construction</li> <li>Finalization of Tri Party agreement</li> <li>Dewatering impact on Victoria Square</li> <li>Coordination of servicing &amp; grading designs with surrounding developments</li> <li>Scheduling of Phase 3 design &amp; construction</li> </ul>
Current status	Completed by Region of York	<ul style="list-style-type: none"> <li>60% submitted December 15, 2006</li> </ul>	<ul style="list-style-type: none"> <li>Region of York, MTO, TRCA and MOE approvals required</li> <li>Permit to Take Water received from MOE</li> </ul>	Property requirements being finalized	<ul style="list-style-type: none"> <li>Tender scheduled February 2007</li> <li>Scheduled start April 2007</li> <li>completion fall 2008</li> </ul>	<ul style="list-style-type: none"> <li>EA estimate for road construction \$14.3 million</li> <li>Additional cost for construction of trunk sanitary sewer and developer's servicing to be determined</li> </ul>	<ul style="list-style-type: none"> <li>Finalization of Tri Party agreement</li> <li>Coordination of servicing &amp; grading designs with surrounding developments</li> <li>Scheduling of Phase 3 design &amp; construction</li> <li>Dewatering impact on Victoria Square</li> <li>Coordination of servicing &amp; grading designs with surrounding developments</li> </ul>

# 10) Birchmount Road Extension

Project Birchmount Road Extension – 14 <sup>th</sup> Avenue to Enterprise Drive							
	Environmental Assessment	Design	Approvals	Property Acquisition	Construction	Total Project Costs	Key Issues/Actions
previous status (Update Report August 28 <sup>th</sup> 2006)	completed	<ul style="list-style-type: none"> <li>• Original design complete</li> <li>• Town to complete design for Birchmount north of Hwy 407</li> </ul>	<ul style="list-style-type: none"> <li>• Approval in principle received from MTO, TRCA &amp; 407 ETR</li> <li>• Negotiations ongoing with all agencies</li> <li>• CN Rail approval pending resolution of CN request to construct underpass structure</li> </ul>	<ul style="list-style-type: none"> <li>• Appraisals complete</li> <li>• Offers of Purchase to be presented to majority of owners</li> <li>• Expropriation of holdout properties underway</li> <li>• ORC negotiations ongoing</li> </ul>	<ul style="list-style-type: none"> <li>• Scheduled start spring 2007 completion late 2009</li> <li>• Tender spring/summer 2007</li> <li>• Construction start fall 2007</li> <li>• completion spring 2010</li> </ul>	<ul style="list-style-type: none"> <li>• Estimated \$23.5 million</li> <li>• Cost of constructing roadway on Remington lands north of Hwy 407 added to contract</li> </ul>	<ul style="list-style-type: none"> <li>• Timing of property acquisition, approvals and agreements</li> <li>• Value of ORC lands</li> <li>• Design &amp; construction of Birchmount on Remington lands north of Hwy 407 added to Town contract</li> <li>• CN request to construct underpass structure</li> <li>• Coordination with GO Transit Hagerman project</li> </ul>
Current status	completed	<ul style="list-style-type: none"> <li>• 90% design submission December 22 2006</li> <li>• phase 1 design complete by January 22 2007</li> </ul>	<ul style="list-style-type: none"> <li>• Approvals received from MTO, 407 ETR, TRCA, DFO, Hydro One</li> <li>• approvals from all other agencies ongoing</li> <li>• CN Rail approval pending resolution of outstanding issues</li> </ul>	<ul style="list-style-type: none"> <li>• Acquisition of required properties and negotiations with ORC ongoing</li> </ul>	<ul style="list-style-type: none"> <li>• Phase 1 construction Enterprise to CN tender February 2007, start April 2007, completion July 2008</li> <li>• Phase 2 construction CN to 14<sup>th</sup> Ave incl. structure construction 2008/2009 pending resolution of CN issues</li> </ul>	<ul style="list-style-type: none"> <li>• Total project costs estimated ± \$26 million</li> <li>• Phase 1 costs estimated ± \$14 million</li> <li>• Phase 2 costs estimated ± \$12 million</li> </ul>	<ul style="list-style-type: none"> <li>• Resolution of CN issue regarding bridge construction (see Jan22, 2007 report)</li> <li>• Timing of final property acquisition, approvals and agreements required to proceed with construction</li> <li>• Ruland/Markham Centre Developer Group financing and agreements</li> </ul>

# 11) Clegg Road Extension

Project Clegg Road Extension – Town Centre Blvd. to Warden Avenue							
	Environmental Assessment	Design	Approvals	Property Acquisition	Construction	Total Project Costs	Key Issues/Actions
Previous Status (no previous report)							
Current Status	Completed	Completed	Approvals received from Region and MOE	All required road allowances have been dedicated to the Town by Hotel and Liberty	<ul style="list-style-type: none"> <li>• start January 2007</li> <li>• Completion June 2007</li> </ul>	\$3.7 million funded by Liberty	<ul style="list-style-type: none"> <li>• Winter construction required to meet schedule to allow occupancy</li> <li>• Schedule and cost control</li> </ul>



# Major Servicing Projects

	Pgs
● 1. GO Transit Hagerman Corner grade separation – servicing relocation	13
● 2. Highway 7 Trunk Sanitary Sewer	14
● 3. Highway 7 Stormwater Management facility	15
● 4. 14 <sup>th</sup> Avenue Watermain	16
● 5. 404 North Employment lands trunk sanitary sewer	17

The map displays the city of St. Louis, Missouri, with a grid of streets and major highways. Five proposed bus rapid transit stations are indicated by numbered circles: 1 (Midtown), 2 (Downtown), 3 (Central Business District), 4 (East St. Louis), and 5 (West St. Louis). The Mississippi River is shown on the right side of the map.

# 1. GO Transit – Hagerman Grade Separation

Project GO Transit - Hagerman Grade Separation – Servicing Relocation							
	Environmental Assessment	Design	Approvals	Property Acquisition	Construction	Total Project Costs	Key Issues/Actions
previous status (Council report August 28 <sup>th</sup> 2006)	Completed (GO Transit)	<ul style="list-style-type: none"> <li>Underway by GO Transit design/build contractor</li> <li>Negotiations underway with GO, Region of York and City of Toronto to coordinate servicing relocations</li> </ul>	<p>to be determined when preliminary design work complete</p> <p>Memorandum of Understanding signed with GO Transit</p>	<p>to be determined when preliminary design work complete</p> <p>GO Transit responsible for all property acquisitions</p> <p>Negotiations with property owners underway</p>	<p>Scheduled summer 2006 to December 2007</p> <p>Completion accelerated to fall 2007</p>	<p>Estimated \$3.6 million</p> <ul style="list-style-type: none"> <li>Front end financing to be provided by GO Transit,</li> <li>repayment plan finalized</li> </ul>	<ul style="list-style-type: none"> <li>Incorporation of Town's preferred designs into contract</li> <li>Negotiation of Town costs with GO design/build contractor</li> <li>Funding of Town services</li> <li>Confirmation of final design details and costing</li> </ul>
Current status	Completed (GO Transit)	<ul style="list-style-type: none"> <li>Preparation of designs to Town standards underway by GO Transit design/build contractor</li> </ul>	Approval of designs coordinated by GO transit	Acquisition of easements by GO Transit underway	<ul style="list-style-type: none"> <li>Construction underway</li> <li>Completion scheduled 2008</li> </ul>	<ul style="list-style-type: none"> <li>Estimated \$3.6 million to be updated when designs complete</li> <li>Front end financing to be provided by GO Transit,</li> <li>repayment plan over 5 years finalized</li> </ul>	<ul style="list-style-type: none"> <li>scheduling of final design and approval of Town works</li> <li>Negotiation of Town costs with GO design/build contractor</li> <li>Project schedule</li> <li>Detailed report February 2007</li> </ul>

## 2. Highway 7 Trunk Sanitary Sewer

Project Highway 7 Trunk Sanitary Sewer – Village Parkway to YDSS @ Main Street Unionville							
	Environmental Assessment	Design	Approvals	Property Acquisition	Construction	Total Project Costs	Key Issues/Actions
previous status (Update Report August 28 <sup>th</sup> 2006)	Completed June 2003	Scheduled summer/fall 2006 pending approval of consultant RFP	Region of York, MOE, TRCA, CN Rail & GO Transit approvals required	Easements may be required depending on final sewer alignment	Scheduled spring/fall 2007	Estimated \$2.7 million	<ul style="list-style-type: none"> <li>• Coordination with Region's reconstruction of Highway 7</li> <li>• Review of alternate alignments to avoid Rouge River crossing</li> <li>• Negotiations with developers regarding front end financing</li> </ul>
Current status	<ul style="list-style-type: none"> <li>• Completed June 2003</li> <li>• EA amendment required to address Main Street South alignment</li> </ul>	<ul style="list-style-type: none"> <li>- Consultant retained, design underway</li> <li>- Scheduled completion early 2007</li> </ul>	Region of York, MOE, TRCA, CN Rail & GO Transit approvals required	Easements may be required depending on final sewer alignment	Scheduled fall 2007 subject to receipt of developer funding	Estimated \$3.3 million	<ul style="list-style-type: none"> <li>• reconstruction of Highway 7 deferred to allow sewer construction to proceed</li> <li>• Main Street South alignment selected to avoid Rouge River crossing,</li> <li>• Negotiations with developers regarding front end financing</li> </ul>

### 3. Highway 7 Stormwater Management Facility

Project Highway 7 Corridor Stormwater Management incl. Sheridan SWM Pond							
	Environmental Assessment	Design	Approvals	Property Acquisition	Construction	Total Project Costs	Key Issues/Actions
previous status (Update Report August 28 <sup>th</sup> 2006)	Draft completed  Completed February 2005	Scheduled summer/fall 2005  Design work on hold pending resolution of Sheridan property acquisition and testing	Applications to be submitted when design complete  Region of York, MOE & TRCA, approvals required	Property required from Sheridan Nurseries and Lonsmount Construction • Negotiations with Sheridan Nurseries ongoing • Agreement expected September 2006	Fall 2007	Estimated \$6.4 million increased costs due to property acquisition	<ul style="list-style-type: none"> <li>• Property acquisition</li> <li>• Coordination with Region's reconstruction of Highway 7</li> <li>• Phased construction of pond</li> <li>• Resolution of TRCA issues</li> <li>• Front end financing by developers</li> </ul>
Current Status	Completed	Design on hold pending acquisition of property	Region of York, M.O.E. and TRCA, approvals required	<ul style="list-style-type: none"> <li>• Negotiations with Sheridan Nurseries ongoing</li> <li>• Agreement expected early 2007</li> </ul>	Scheduled fall 2007 subject to receipt of developer funding	<ul style="list-style-type: none"> <li>• Estimated \$6.4 million increased</li> <li>• costs due to property acquisition</li> </ul>	<ul style="list-style-type: none"> <li>• Environmental considerations on properties to be acquired</li> <li>• Coordination with Highway 7 reconstruction</li> <li>• Phased construction of pond</li> <li>• Resolution of TRCA issues</li> <li>• Front end financing by developers</li> </ul>

## 4. 14<sup>th</sup> Avenue Watermain

Project 14 <sup>th</sup> Avenue Trunk Watermain - McCowan Road to Boxwood Ave							
	Environmental Assessment	Design	Approvals	Property Acquisition	Construction	Total Project Costs	Key Issues/Actions
previous status (Update Report August 28 <sup>th</sup> 2006)	Not required	completed	Approvals received	Property acquisitions completed	Start July 2006 completion January 2007  Construction to commence August 2006 completion March 2007	\$5.9 million (based on tender prices)	<ul style="list-style-type: none"> <li>• Work restrictions within roadway</li> <li>• Traffic control &amp; lane closures</li> <li>• Weekend &amp; night work</li> <li>• DC by-law to include updated cost</li> <li>• Clearance from existing utilities incl. hydro lines</li> <li>• Traffic control &amp; lane closures</li> <li>• Weekend &amp; night work</li> </ul>
Current status	Not Required	Completed	Approvals received	Completed	<ul style="list-style-type: none"> <li>• Construction started December 2006</li> <li>• completion scheduled fall 2007</li> </ul>	\$5.9 million (based on tender prices)	<ul style="list-style-type: none"> <li>• Work restrictions within roadway</li> <li>• Traffic control &amp; lane closures</li> <li>• Weekend &amp; night work</li> <li>• Clearance from existing utilities incl. hydro lines</li> <li>• Traffic control &amp; lane closures</li> </ul>

## 5. 404 North Employment Lands Trunk Sewer

Project - 404 North Employment Lands Trunk Sanitary Sewer							
	Environmental Assessment	Design	Approvals	Property Acquisition	Construction	Total Project Costs	Key Issues/Actions
previous status (Update Report August 28 <sup>th</sup> 2006)	not required	Design underway scheduled completion August 2006	TRCA and MOE approvals required • Initial Permit to Take Water received	None required Will be constructed within Bypass ROW	Scheduled start September 2006 completion December 2006	Estimated \$2.6 million	<ul style="list-style-type: none"> <li>• Extent of dewatering and dewatering impacts</li> <li>• Construction methods</li> <li>• Servicing of adjacent lands</li> </ul>
Current status	not required	<ul style="list-style-type: none"> <li>• Design underway</li> <li>• scheduled completion January 2007</li> </ul>	<ul style="list-style-type: none"> <li>• TRCA and MOE approvals required</li> <li>• Initial Permit to Take Water received</li> </ul>	<ul style="list-style-type: none"> <li>• None required</li> <li>• Will be constructed within Bypass ROW</li> </ul>	<ul style="list-style-type: none"> <li>• Scheduled start April 2007</li> <li>• completion August 2007</li> </ul>	Estimated \$2.6 million	<ul style="list-style-type: none"> <li>• Extent of dewatering impacts on Victoria Square</li> <li>• Construction methods</li> <li>• Servicing of adjacent lands</li> </ul>

# Transportation



- 1. Bike Path System
- 2. Travel Demand Management

Pgs

18

19



# 1. Bike Path System

No Project Bicycle Route Study							
	Environmental Assessment	Design	Approvals	Property Acquisition	Construction	Total Project Costs	Key Issues/Actions
previous status (Update Report August 28 <sup>th</sup> 2006))	Not required	Design of Phase 1 complete Phase 2 completion scheduled fall 2006 Public Open House held June 29 and comments being received from public and stakeholders until Sept. 1, 2006	Not required for Phase 1 Region approval required for Phase 2 Council approval required for Cycling Master Plan fall 2006	Not required	Phase 1 scheduled summer 2006 <ul style="list-style-type: none"> <li>• 'Spine network' scheduled for fall 2006</li> <li>• tendered June 2006</li> <li>• no bidders submissions</li> <li>• reformatting tender to obtain bids</li> </ul>	\$600,000  Est. \$25 million over 15 years	<ul style="list-style-type: none"> <li>• Incorporation into Region's Pedestrian &amp; Cycling Master Plan</li> <li>• Cost sharing negotiations</li> <li>• implementation plan and financing required</li> <li>• Coordination with Region and Town</li> <li>• Obtaining contractor to undertake Phase 1 Fall 2006</li> </ul>
Current status	Not required	Installation of Spine Network (100 km on-road signed routes and 12 km on road bicycle lanes) complete  Cycling Master Plan completion scheduled winter 2007  2007 work program – 9.0 km of multi-use pathway	Council approval required for; Cycling Master Plan and 2007 work program	Not required	<ul style="list-style-type: none"> <li>• Construction of connections and pedestrian crossings to support 9.0 km multi use pathway along south side of Major Mackenzie</li> </ul>	\$672,500 for 2007	<ul style="list-style-type: none"> <li>• Incorporation into Region's Pedestrian and Cycling Master Plan and Municipal Partnership Program</li> <li>• Coordination with Region and Town</li> </ul>

## 2. Travel Demand Management

Project Travel Demand Management							
	Environmental Assessment	Design	Approvals	Property Acquisition	Construction	Total Project Costs	Key Issues/Actions
Previous status (Update report August 28, 2006)	Not required	<ul style="list-style-type: none"> <li>Transportation Management Association (TMA) formed in August 2005 Town commuter options program on-going</li> <li>Elementary School program framework established Secondary School program framework established Community based TDM program launch scheduled for Fall of 2006</li> <li>GO Transit Markham Stations access Study and carpool</li> <li>CMHC Study to support introduction of a Community Based TDM program</li> <li>Telework Feasibility Study conducted for Town employees</li> </ul>	<ul style="list-style-type: none"> <li>GO Transit approval required</li> <li>Council approval required</li> <li>Under review with CCC</li> </ul>	Not Applicable	Not applicable	\$100,000       \$50,000	<ul style="list-style-type: none"> <li>Ongoing support for program beyond March 2007</li> <li>Development of policy framework to support &amp; sustain Markham employee commuter options program</li> <li>Discussions with York School Board regarding support for TDM programs</li> <li>Working with GO Transit to introduce a ride share (carpool) pilot program</li> <li>Community based TDM program to be developed</li> <li>Telework Pilot Project under review</li> </ul>
	Not required	<ul style="list-style-type: none"> <li>Smart Commute 404-7 Transportation Management Association (TMA) support</li> <li>Town commuter options program on-going</li> <li>Elementary School program framework established</li> <li>Secondary School program framework established</li> <li>Community based TDM program launch scheduled for Fall of 2006</li> </ul>				\$75,000  \$30,000 \$20,000  \$10,000  \$50,000	<ul style="list-style-type: none"> <li>Program support for 2007</li> <li>Employer sponsored transit program</li> <li>Active and Safe Routes to school</li> <li>Sustainable Transportation Education Program – S.T.E.P.</li> <li>Program development and pilot project support</li> </ul>

# Environmental

	Pgs
● 1. Pomona Mills Creek Erosion & Habitat Enhancement Study	20
● 2. Flood Emergency Preparedness Plan	21
● 3. Watercourse Erosion Implementation Plan	22

# 1. Pomona Mills Creek Erosion & Habitat Enhancement Study

Project Pomona Creek Environmental Study							
	Environmental Assessment	Design	Approvals	Property Acquisition	Construction	Total Project Costs	Key Issues/Actions
previous status (Update Report August 28 <sup>th</sup> 2006)	<ul style="list-style-type: none"> <li>Consultant retained</li> <li>Substantially complete</li> <li>1<sup>st</sup> Public Meeting end of August TBD</li> <li>meeting #2 with Task Force on Sept. 6 to discuss Alts</li> </ul>	Not applicable	<ul style="list-style-type: none"> <li>1<sup>st</sup> Public Information Meeting scheduled July 2006</li> <li>2<sup>nd</sup> PIC scheduled October 2006</li> <li>EA completed November 2006</li> <li>Task Force to review and approve list of Alts.</li> <li>Council to approve study recommendations (Nov. 2006)</li> </ul>	Requirements will be identified as part of EA	Not applicable	EA costs \$104,000	<ul style="list-style-type: none"> <li>Discussions with YRTP regarding proposed transit maintenance facility proposed for lands adjacent to creek in Langstaff area</li> <li>Coordination with Langstaff planning &amp; servicing studies</li> <li>Funding sources</li> <li>Toronto Ladies Golf Course – update water status</li> <li>Recreational Trail Master Plan – provide update on Master Plan</li> <li>Glynnwood Pond and storm sewer surcharge issues</li> </ul>
Current status	<ul style="list-style-type: none"> <li>Substantially completed established alternatives</li> <li>Mtg #2 with Task Force was held Sept. 6, 2006 to discuss alternatives</li> <li>1<sup>st</sup> Public Info Centre (PIC) end of April 2007</li> <li>2<sup>nd</sup> PIC July 2007</li> <li>Draft final report August 2007</li> </ul>	Not applicable	<ul style="list-style-type: none"> <li>Task Force to review and approve list of Alternatives.</li> <li>Part A presentation Development Services Committee – Feb./March 2007</li> <li>Council approval of study and implementation strategy (September 2007)</li> <li>EA completed October 2007</li> <li>Recreational Trail Master Plan completed</li> </ul>	Requirements will be identified as part of EA	Not applicable	EA costs \$104,000	<ul style="list-style-type: none"> <li>YRTP is finalizing SWM design for the Langstaff Transit Maintenance Facility.</li> <li>Coordination information with Operations-Waterworks</li> <li>Coordinate study recommendations with the work conducted by Gartner Lee for the Holy Cross Cemetery site</li> <li>Glynnwood Pond and storm sewer surcharge issues</li> <li>Aquafor Beech to prepare a downspouts disconnection program in early 2007</li> <li>Implementation Strategy and Funding</li> </ul>

## 2) Flood Emergency Response Plan

Project Emergency Response Plan							
	Environmental Assessment	Design	Approvals	Property Acquisition	Construction	Total Project Costs	Key Issues/Actions
previous status (Update Report August 28 <sup>th</sup> 2006)	Consultant retained	Draft response for Phase 1 (100 year storm event) completed and circulated internally  Flood data/ maps for stage 5 provided to fire and emergency Services	<ul style="list-style-type: none"> <li>approval for \$85,000 to start Phase 2 required</li> </ul>	Not applicable	Not Applicable	<ul style="list-style-type: none"> <li>Phase 1 and 2 = \$130,250</li> <li>Phase 3 to be determined at the end of Phase 2</li> </ul>	<ul style="list-style-type: none"> <li>Subsequent Study Phases in 2006/2007 will review impact of other storms and identify remedial works</li> <li>Additional properties falling with Regional flood lines.</li> <li>Coordination and prioritization of capital program to mitigate flood damages (to be determined in Phase 3)</li> </ul>
Current status Phase 1 Completed		<ul style="list-style-type: none"> <li>Phase 1 completed – Aug. 2006 (stage 5)</li> <li>Phase 2 started in January 2007 (stages 1-4)</li> </ul>	<ul style="list-style-type: none"> <li></li> </ul>	Not applicable	Not applicable	<ul style="list-style-type: none"> <li>Phase 1 and 2 total \$130,250</li> <li>Phase 3 to be determined at the end of Phase 2 (Aug. 2007)</li> </ul>	<ul style="list-style-type: none"> <li>No issues at this early stage of Phase 2.</li> </ul>

### 3) Water Course Erosion Implementation Plan

Project Water Course Erosion Implementation Plan							
	Environmental Assessment	Design	Approvals	Property Acquisition	Construction	Total Project Costs	Key Issues/Actions
previous status (Update Report April 28 <sup>th</sup> 2006)	<ul style="list-style-type: none"> <li>Consultant retained</li> <li>EA completion fall 2006</li> </ul>	<ul style="list-style-type: none"> <li>Conceptual designs for top 30 sites incl. in EA</li> <li>Consultant to be retained fall 2006 for detailed design of top 6 sites</li> </ul>	<ul style="list-style-type: none"> <li>TRCA Council approval Fall 2006</li> </ul>	<ul style="list-style-type: none"> <li>To be determined</li> <li>Construction easements may be required</li> </ul>	6 sites scheduled in 2007	<ul style="list-style-type: none"> <li>1st Public Information Meeting deferred to May 18, 2006</li> <li>Update to Committee of the Whole on April 25, 2006</li> <li>To be finalized</li> </ul>	<ul style="list-style-type: none"> <li>Report back to Committee in the Fall 2006 with guidelines on private property and final implementation plan</li> <li>Guidelines for work on private property to be developed</li> <li>Update to Council on policies Fall 2006</li> </ul>
Current status	<ul style="list-style-type: none"> <li>Completed Class EA report</li> <li>Report to be filed subject to Council approval in February 2007</li> </ul>	<ul style="list-style-type: none"> <li>Consultant retained for detailed design of top six sites</li> </ul>	<ul style="list-style-type: none"> <li>TRCA, DFO approvals required</li> <li>Easements access required</li> </ul>	<ul style="list-style-type: none"> <li>Construction easement may be required</li> <li>to be identified as part of the detailed design stage</li> </ul>	6 sites scheduled in 2007 subject to required approvals being secured and easements	Estimated \$1.9 million construction cost for the top six sites	<ul style="list-style-type: none"> <li>Update to Council on policies and guidelines for work in private property Feb/March 2007</li> <li>Easements/approvals for construction</li> </ul>