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TO:	**CHAIR AND MEMBERS CIVIC WORKS COMMITTEE MEETING ON MARCH 29, 2016**
FROM:	**JOHN BRAAM, P. ENG. MANAGING DIRECTOR, ENVIRONMENTAL & ENGINEERING SERVICES AND CITY ENGINEER**
SUBJECT:	**2016 RENEW LONDON INFRASTRUCTURE CONSTRUCTION PROGRAM**

RECOMMENDATION

That, on the recommendation of the Managing Director, Environmental & Engineering Services and City Engineer, the following information report concerning the 2016 Renew London Infrastructure Construction Program **BE RECEIVED** for information.

2015-19 STRATEGIC PLAN

The following report supports the Strategic Plan through the strategic focus areas of *Building a Sustainable City* and *Leading in Public Service* by addressing the infrastructure gap, building robust infrastructure while improving safety for all road users in the city. Renew London 2016 is committed to delivering great customer experiences to residents, business and visitors by communicating projects in advance and coordinating all work to help build and deliver efficient infrastructure and minimize delays and inconveniences to the public during construction.

BACKGROUND

Purpose

The purpose of this report is to provide Committee and Council with an overview of the planned City and development related major construction projects for 2016.

Context

The Engineering and Environmental Services department undertakes approximately 200 capital works projects and programs on a yearly basis. Our goal is to provide safe, dependable, affordable and environmentally responsible services that help London's communities thrive and the city prosper.

The delivery of a sustainable infrastructure program through the provision of road, sewer, water, sidewalk, traffic signal and streetlight assets is managed through the 2016 Renew London - Infrastructure Construction Program. The program addresses existing lifecycle needs, system improvements, and growth related priorities.

The City is responsible for a transportation system that promotes the movement of goods and services while providing for transportation mobility choices for residents. An efficient transportation system promotes business, creates employment, provides social opportunities and saves lives. A key consideration in the delivery of the Infrastructure Construction Program is the efficiency of infrastructure delivery and minimization of delays and inconveniences to the public during construction.

DISCUSSION

A number of large construction projects are currently scheduled for implementation in 2016. The Key Map and Table 1 (below) provide a listing of projects which will have an impact on traffic flows around the City. A number of these projects will affect traffic and coordination has been carried out at project and program levels to reduce the impacts.

Table 1 – Top 10 City Projects

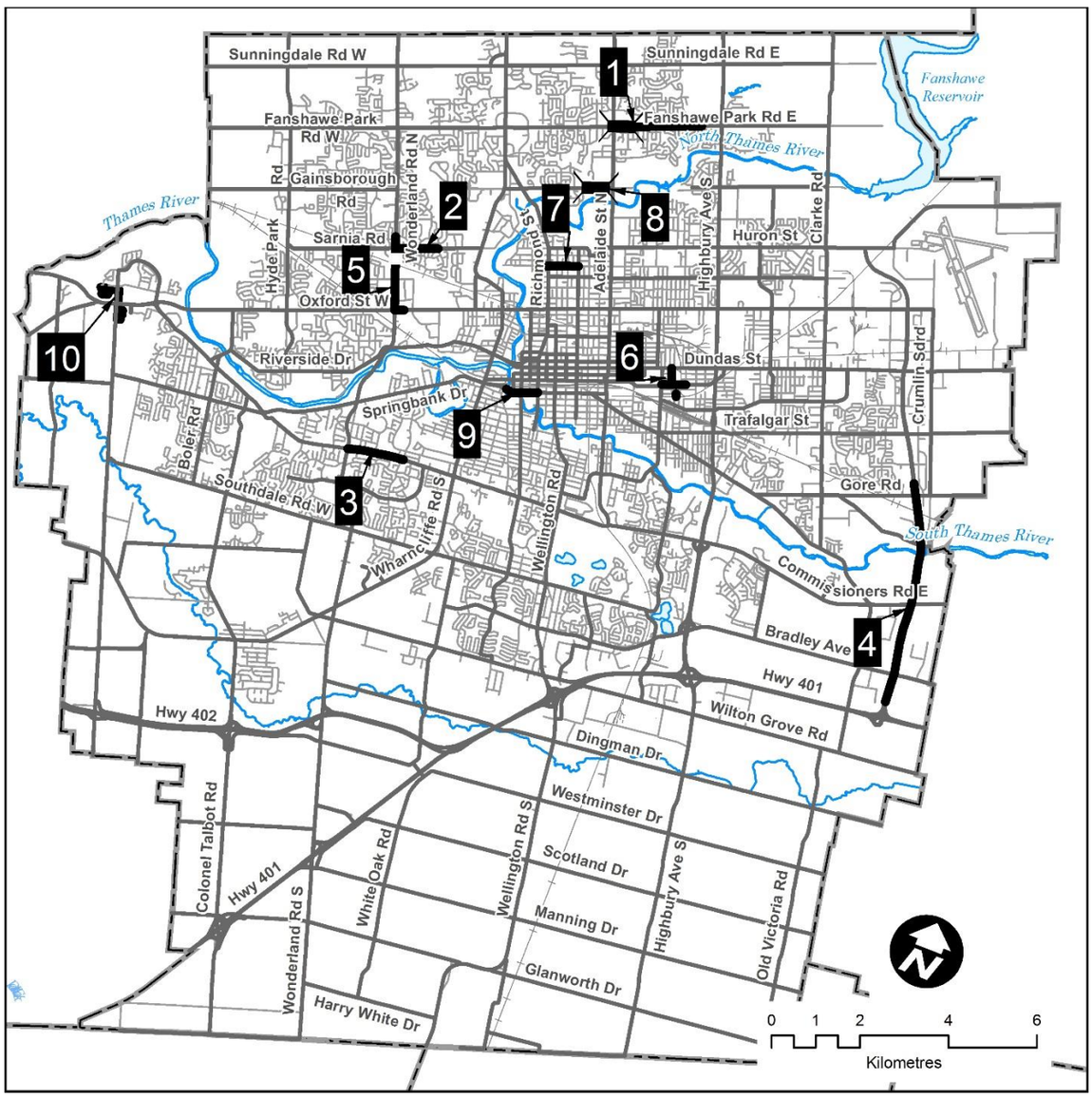
	Street/Project	Scope	Budget	Schedule	Traffic Impact
1	**Fanshawe Park Road**	Road widening, bridge, sewer, water	$14.5m	April – Nov 2016	Reduced lanes
2	**Sarnia Road**	Road widening, sewer, water	$8.99m	March – Nov 2016	Reduced lanes
3	**Commissioners Phase 2**	Road widening, sewer, water	$13m total Ph.2 - $8m	March – Nov 2016	Reduced lanes
4	**Veterans Memorial Parkway**	Road	$5.93m	April – Nov 2016	Reduced lanes
5	**Wonderland/Oxford Intersection**	Road	~ $3m	summer 2016	Reduced Lanes/Intersection
6	**Florence St / Kellogg Lane**	Sewer, water, road	$5.79m	April – Nov 2016	Reduced Lanes/ April - Sept 2 - Florence complete closure
7	**Victoria Street**	Sewer, water, road	$4.47m	May – Nov 2016	Richmond Intersection
8	**Windermere Road Bridge**	Bridge rehabilitation over Stoney Creek	~$900k	May – Nov 2016	Windermere closed eastbound
9	**Horton Street East**	Road	~$500k	summer 2016	Reduced Lanes
10	**Riverbend Tributary C**	Storm water management facility (4 ponds)	~ $12 m	May – Nov 2016	none

In addition to Table 1, there are a number of other medium scale reconstruction / resurfacing projects to rehabilitate infrastructure throughout the City which will have local impacts and may require minor traffic detours. There will be 95 lane km of road reconstructed, 21 km of sanitary and storm sewers, and 11.8 km of watermain rebuilt. There will also be 7.5 km of watermain and 15 km of sewer trenchless lined. These trenchless programs allow for very large capital avoidance and minimized social impact by avoiding open cut construction.

The total of the 2016 capital infrastructure program is approximately $173.8 M. It includes $62.7 M of road improvements, $68.5 M of sewer improvements and $42.6 M of water improvements.

From the above list, some locations will require road closures to complete the planned construction. Each closure will include a detour to safely redirect traffic around the disturbed areas and permit the work to be completed in a timely manner. The planned detours are as short a route as possible while keeping traffic on a similar class of roadway and not directing traffic through local streets.

MAJOR 2016 CITY INFRASTRUCTURE PROJECTS



Each project is reviewed from a traffic and construction detour impact perspective. Some locations will require road closures to complete the planned construction. Each closure will include a detour to safely redirect traffic around the disturbed areas and permit the work to be completed in a timely manner. The planned detours are as short a route as possible while keeping traffic on a similar class of roadway and not directing traffic through local streets.

Traffic signal changes are made to the accommodate changes in traffic flows as a result of construction and planned detours in order to help reduce delays. Routine maintenance undertaken by the City on roadways is scheduled in a manner to minimize impacts on traffic.

Table 2 shows some development projects that may affect City streets in 2016. It is difficult to identify exact timing at this point but the development projects will be coordinated with nearby City projects once better information is known.

Table 2 - Development Projects

In addition to City led project, coordination is undertaken with known development projects that may impact traffic flows along City streets. It should be noted that the exact timing of these projects is dependant on the development industry. Some of the larger development projects that may affect public streets are as follows:

	Street/Project	Scope	Schedule	Traffic Impact
1.	**1643-1653 Richmond – South of Hillview 1631-1653 Richmond**	Mixed use development	2015 -16	Minor reduced lanes on Richmond for construction access / vehicles
2.	**Southdale/Bostwick Area - Southwest Community Center**	Southwest Community Center	2016 -17	Reduced lanes on Southdale for new infrastructure. Bostwick & Farnham road closures
3.	**Talbot/Dufferin – High Rise**	Mixed use development	2016	Reduced lanes for construction access & servicing connections
4.	**Dalmagarry Road & site servicing**	New Street construction Mixed use development	2016	Reduced lanes at Fanshawe/Dalmagarry to build Dalmagarry
5.	**Fanshawe College (former Kingsmills) Carling Street**	Institutional	2015 -16	Reduced lanes & Road closures on Carling construction access - staging
6.	**Wonderland/Wharncliffe - Commercial**	Commercial	2015 -16	Intersection - Reduced lanes for servicing connections, Street lighting, turning lanes, medians, Traffic signal installation

Communications Plan

Every effort is being made to ensure Londoners are aware of construction zones and traffic detours resulting from road work. Daily updates are provided through the City's website, www.london.ca/roadwork with information about road closures, ongoing and upcoming projects on city streets.

The social impact is being mitigated through coordination and communication. The specific communication strategies include:

- 2016 construction program media release;
- Communication with LTC, Police, Fire, EMS, school boards and school bus providers and Canada Post;
- Public meetings for all major reconstruction projects;
- 3 letters to directly impacted residents for medium and large projects, 1 letter for short term work,
- special meetings for business areas;
- Social media (Facebook and Twitter);
- Renew London website (project updates, daily email to media and emergency services); and,
- Advanced warning signs.

Residents are encouraged to minimize their travel time impact by:

- Planning their commutes, using alternative routes;
- Utilize transit (http:/www.ltconline.ca), car pool, ride your bike www.londonbikes.ca or walk; for assistance in finding a carpool, please visit https://www.regionalrideshare.ca/en/my/ (Regional Rideshare (formerly London Carpools) is a free service that matches potential carpoolers. It is available to all Londoners and anyone who regularly commutes to and from London from surrounding communities.
- Adjusting their travel times to avoid peak periods.

CONCLUSION

The City has $6.8 B of water/wastewater infrastructure and $2.1 B of transportation Infrastructure, the timely replacement and upgrade of those assets is critical to ensuring long term sustainability of those services. The 2016 Infrastructure Construction Program has been planned to address asset needs for the lifecycle renewal while at the same time ensuring that the growth requirements of the community are met in a timely manner during the construction season.

While the projects have been scheduled in a manner to minimize social impacts on traffic, commuting around the city will be impacted and as such, residents are encouraged to plan ahead and exercise patience in construction zones.

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ACKNOWLEDGEMENTS:

This report was prepared by Ugo DeCandido, P.Eng. of the Construction Administration Division with the assistance of Karl Grabowski, P.Eng. and Doug MacRae, P. Eng., Division Manager – both from Transportation Planning and Design.

PREPARED BY:	**REVIEWED & CONCURRED BY:**
UGO DECANDIDO, P. ENG. **DIVISION MANAGER,** **CONSTRUCTION ADMINISTRATION**	**JOHN LUCAS, P. ENG.** **DIRECTOR, WATER AND WASTEWATER**
REVIEWED & CONCURRED BY:	**RECOMMENDED BY:**
EDWARD SOLDO, P. ENG. **DIRECTOR, ROADS AND TRANSPORTATION**	**JOHN BRAAM, P.ENG.** **MANAGING DIRECTOR,** **ENVIRONMENTAL & ENGINEERING SERVICES AND CITY ENGINEER**

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March 7, 2016
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cc: Transportation Advisory Committee c/o Betty Mercier
London Hydro