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<b>TO:</b>	<b>CHAIR AND MEMBERS CIVIC WORKS COMMITTEE MEETING ON MAY 26, 2014</b>
<b>FROM:</b>	<b>JOHN BRAAM, P. Eng. MANAGING DIRECTOR, ENVIRONMENTAL &amp; ENGINEERING SERVICES &amp; CITY ENGINEER</b>
<b>SUBJECT:</b>	<b>APPOINTMENT OF CONSULTING ENGINEERS INFRASTRUCTURE LIFECYCLE RENEWAL PROGRAM 2015 - 2016</b>

<b>RECOMMENDATION</b>
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That, on the recommendation of the Managing Director, Environmental & Engineering Services & City Engineer, the following actions **BE TAKEN** with respect to the appointment of Consulting Engineers for the 2015-2016 Infrastructure Lifecycle Renewal Program:

- (a) The following Consulting Engineering firms **BE APPOINTED** Consulting Engineers for the pre-design and design of the said projects, in the amounts identified below (all including contingency but exclusive of HST), in accordance with the estimate on file, based upon the Fee Guideline for Professional Engineering Services, recommended by the Ontario Society of Professional Engineers; and in accordance with Section 15.2 of the City of London's Procurement of Goods and Services Policy; it being noted that these consultants shall obtain approval to proceed with subsequent phases of engineering for their projects subject to satisfying all financial, reporting and other conditions contained within this Policy.
  - (i) Contract 1: AECOM Canada Ltd, in the amount of \$327,434.80.
  - (ii) Contract 2: Dillon Consulting Ltd, in the amount of \$447,412.90.
  - (iii) Contract 3: IBI Group, in the amount of \$212,257.10.
  - (iv) Contract 4: Spriet Associates, in the amount of \$ 309,518.00.
  - (v) Contract 5: AECOM Canada Ltd, in the amount of \$138,590.10.
  - (vi) Contract 6: Archibald, Gray & McKay Engineering, in the amount of \$275,709.50.
  - (vii) Contract 7: R.V. Anderson Associates Limited, in the amount of \$166,375.00.
  - (viii) Contract A: Archibald, Gray & McKay Engineering Limited, in the amount of \$471,680.00.
  - (ix) Contract B: Spriet Associates, in the amount of \$315,617.50.
- (b) the financing for design of the projects identified in (a), above, **BE APPROVED** in accordance with the "Sources of Financing Report" attached hereto as Appendix "A";
- (c) the Civic Administration **BE AUTHORIZED** to undertake all the administrative acts that are necessary in connection with this work;
- (d) the approvals given herein **BE CONDITIONAL** upon the Corporation entering into a formal contract with each Consultant for the respective project; and
- (e) the Mayor and City Clerk **BE AUTHORIZED** to execute any contract or other documents, if required, to give effect to these recommendations.

<b>BACKGROUND</b>
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**Purpose:**

The Infrastructure Lifecycle Renewal (ILR) Program is an annual program intended to maintain the life of municipal infrastructure at an acceptable performance level. Typically, about ten Capital Works Projects are awarded to consultants every year to work with the City to help deliver the program and meet increasingly challenging infrastructure needs. This report recommends consultants to be appointed for the coming year's ILR program.

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**Discussion:**

This report recommends the appointment of Engineering Consultants for nine engineering design assignments as identified in Appendix “B”. Seven of the projects are scheduled for construction in 2015, two in 2016. Funds have been budgeted in the Transportation, Water and Sewer Capital Budgets to support the engineering design work for these projects as identified in the “Sources of Financing Report” (Appendix “A”). Engineering services during construction and construction contract approval recommendations will follow design and tender of each project.

The projects include watermain and sewer replacement/repairs, as well as restoration of areas disturbed by the construction activity. The scope of each project varies in length and infrastructure components which require rehabilitation or replacement. In some cases, full road reconstruction will be part of the overall project. Location maps are provided in Appendix “C”.

For the past several years, the design groups within each service area have been working closely together to coordinate infrastructure repair, rehabilitation and replacement. City staff from each service area prepare a list of their highest priority projects depending on condition assessment, capacity, criticality of the infrastructure link and the safety and social impacts should the link fail. These staff meet regularly throughout the year to coordinate their respective work with the goal to build projects where more than one infrastructure element can be renewed, thereby significantly reducing social disruption and saving on construction costs. Various Divisions within EES take part in this effort: Water Engineering, Wastewater and Drainage Engineering, Transportation Planning and Design, Transportation Parking and Traffic Signals, Construction Administration, and Geomatics (Surveys and Graphical Information System maintenance). The long term integrity of the City’s infrastructure rests on the work done by these core service groups, noting these projects are also coordinated with other City service areas such as but not limited to; Risk Management, Parks Planning and Design, Planning and Development (Forestry, Heritage etc.), Transportation, Sewer and Water Operations, Solid Waste Management and Pollution Control Operations. In addition, all projects are communicated with external utility groups (Bell, Union Gas, Hydro etc.) well in advance of construction to ensure partnerships are established, budgets are in place, and effective coordination of work takes place early in design and on to construction.

There has been a clear initiative to undertake this coordination work earlier in each budget cycle to develop a more efficient process and have projects on the shelf and ready to go to tender early in the season to realize the most competitive construction pricing.

Further improvements to the process include: early survey of streets to reduce design lag time; program “block funding” to establish a consistent budget base so that advance planning and coordination can be done well ahead of the annual budget approval stage; and, greater efficiency of City staff and Consultant time so that efforts can be focused on quality and value delivery.

In the past, six to ten projects awarded to consultants annually (representing approximately 20 to 25% of the annual consulting assignments) were undertaken as individual proposals, occupying considerable time of City staff and our Consultants. This is the ninth year where most ILR Projects have been grouped together in one request for qualifications. This saves significant administrative time for both the City and the consultants involved and respects both the formal City consultant selection process and the various initiatives which the industry is pursuing. Of significant note is that we are now operating as a team with the consultant, with respect to developing the detailed work plan to be followed. It is now widely recognized that London is a leader in the manner in which it selects professional engineering consultants. This approach benefits City’s ratepayers and taxpayers and promotes intelligent solutions geared towards achieving lowest lifecycle costs for our infrastructure and customers.

Consolidation of nine assignments into one report significantly reduces the number of individual reports going to Council for award. This is a considerable benefit to Councillors as it respects their time and streamlines what was formally a drawn-out process. Award of the majority of consultant assignments on one date then allows City staff to maintain an orderly schedule where design deliverables are generally submitted on similar timelines for all consultants throughout the year. This ultimately allows for early, strategic and well coordinated tender calls once construction budgets are later approved, noting savings on final construction costs have proven to be significant.

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**Conclusions:**

The recommendation of this report is to appoint various Consultants to undertake the design and study work required for nine projects in the 2015-2016 ILR Program identified in Appendix "B", it being noted that these consultants shall obtain the approval to proceed with subsequent phases of engineering for their projects subject to satisfying all financial, reporting and other conditions.

The selection process followed has saved significant administrative time for both the City and the consultant community and fosters a collaborative working relationship that focuses on achieving the lowest life cycle cost or highest service performance for municipal infrastructure to the benefit of water and sewer rate payers and taxpayers in the long term. All the firms selected have shown their competency and expertise with replacement projects of this type and have provided good performance in the past on City projects. This selection approach better enables the City to control construction costs and achieve a consistently high degree of project satisfaction.

Additional annual operating costs to the EES budget in 2016 and subsequent years associated with completed infrastructure projects are not determined at this time but will be presented at the time of contract award, if required.

**Acknowledgements:**

This report was prepared by Ugo DeCandido, P.Eng. Environmental Services Engineer, Wastewater and Drainage Engineering Division and Roland Welker, P.Eng., Division Manager Water Engineering.

<b>PREPARED BY:</b>	<b>RECOMMENDED BY:</b>
<b>JOHN LUCAS, P. ENG. DIRECTOR, WATER AND WASTEWATER ENVIRONMENTAL &amp; ENGINEERING SERVICES</b>	<b>JOHN BRAAM, P.ENG. MANAGING DIRECTOR, ENVIRONMENTAL &amp; ENGINEERING SERVICES &amp; CITY ENGINEER</b>
<b>REVIEWED AND CONCURRED BY:</b>	
<b>EDWARD SOLDI, P.ENG. DIRECTOR, ROADS AND TRANSPORTATION</b>	

May 21, 2014

UD/rw

Attach: Appendix "A" – Sources of Financing  
Appendix "B" - Project Information list, Consultants & Construction Estimates  
Appendix "C" – Project Locations Maps

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- c.c. Shane Maguire
- Justin Lawrence
- AECOM Canada Ltd, 285 King Street, Suite 300
- Dillon Consulting Ltd, 130 Dufferin Avenue, Suite 1400
- IBI Group, 350 Oxford Street West, Suite 203
- Spriet Associates, 155 York Street, London ON, N6A 1A8
- Archibald, Gray & McKay Engineering, 3514 White Oak Road, London ON, N6E 2Z9
- R.V. Anderson Associates Limited, 557 Southdale Road East Suite 200

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**Appendix "B"**

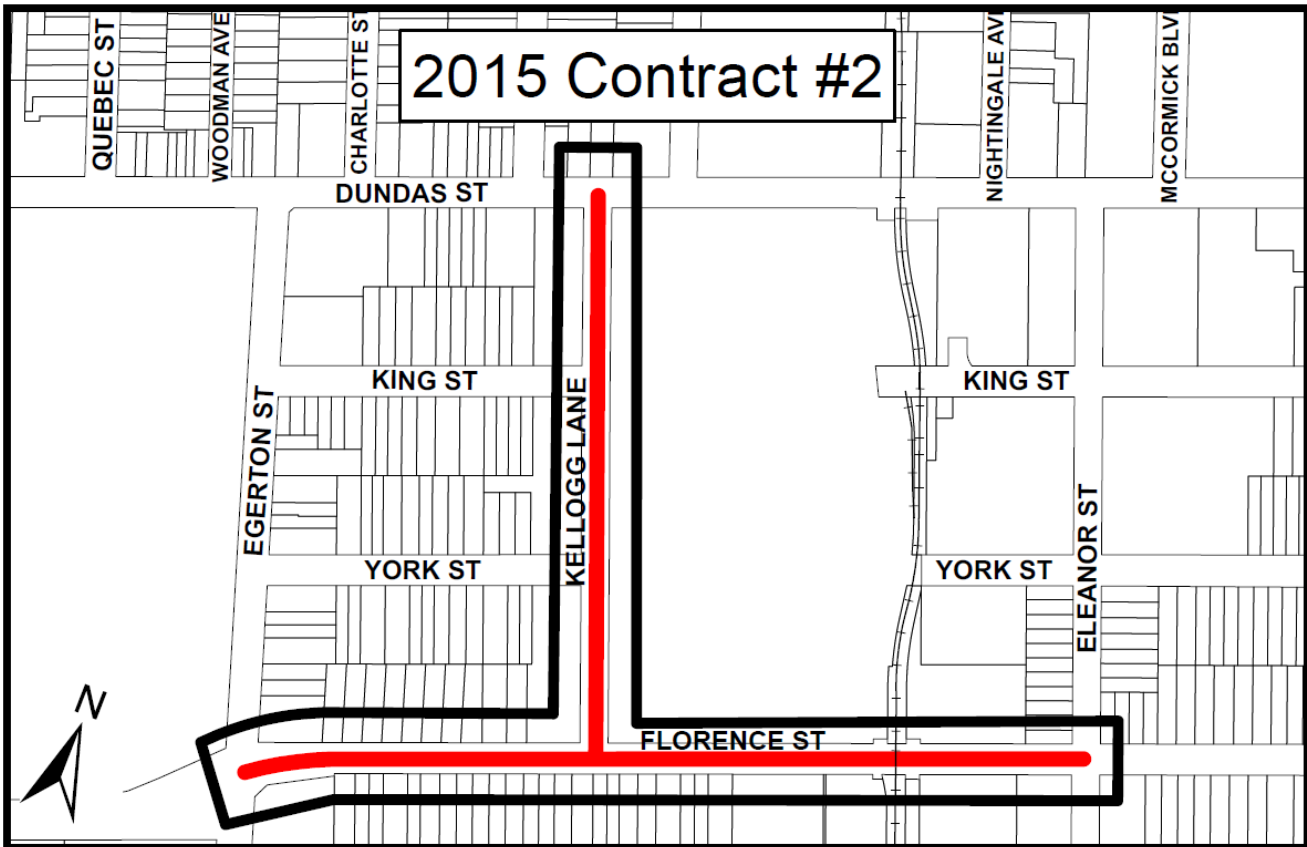
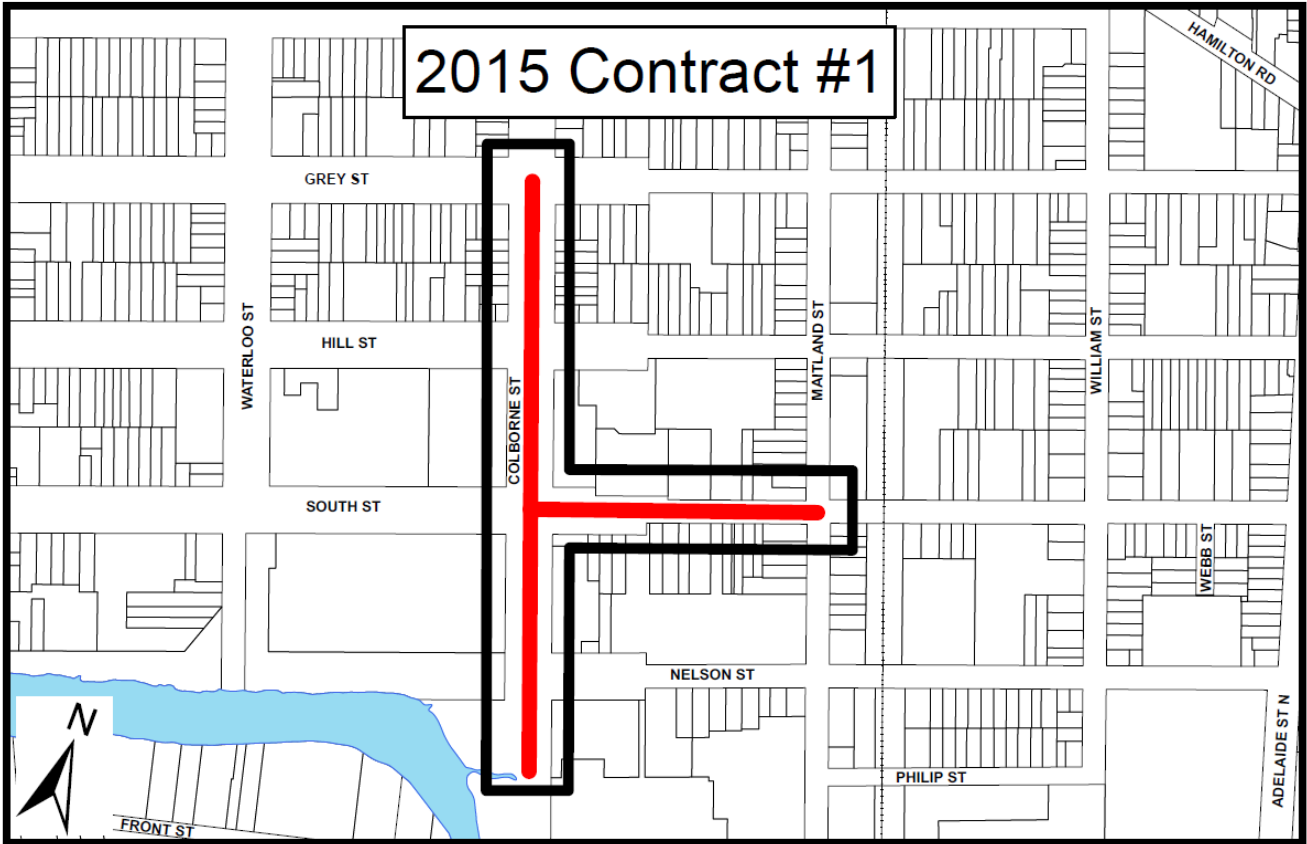
**Project Information List, Consultants & Construction Estimates**

2015-16 INFRASTRUCTURE LIFECYCLE RENEWAL PROJECTS CONSULTANT ASSIGNMENTS (updated May 6, 2014: Council Meeting June 10, 2014)								
2015 Construction: 2014-2015 Design Engineering								
CONTRACT	STREET	From	To	City Project Manager Source Division	CONSULTANT	LENGTH (~ m)	CONCEPTUAL CONSTRUCTION ESTIMATE	DIVISIONS FUNDING
1	<b>COLBORNE SOUTH</b>	OUTFALL COLBORNE	GREY MAITLAND	WADE	AECOM	520 250	~ \$4 M	Water WADE Transportation
2	<b>FLORENCE KELLOGG</b>	EGERTON FLORENCE	ELEANOR DUNDAS	WADE	DILLON	550 375	~ \$4 - 4.5 M	WADE Water
3	<b>RIVERSIDE</b>	CAVENDISH	BRITANNIA	WADE	IBI	370	~ \$1.5 - 2 M	Water WADE Transportation
4	<b>CARLING DUFFERIN</b>	TABLOT RICHMOND	RICHMOND WELLINGTON	WATER	SPRIET	190 360	~ \$ 1.8 - 2.2 M	Water WADE Transportation
5	<b>EGERTON</b>	VAUXHALL	BRIDGE	WATER	AECOM	400	~ \$700 k	WADE Water
6	<b>BRUCE BRIGHTON</b>	WHARNCLIFFE BRUCE	CATHCART ELMWOOD	WADE	AGM	590 170	~ \$ 2.7 M	WADE Water
7	<b>VANCOUVER</b>	WAVELL	DUNDAS	WATER	RVA	725	~ \$1. 8 M	WADE Water
2016 Construction: 2014-2015 Design Engineering								
A	<b>KING EGERTON PH 1</b>	KELLOG PINE	EGERTON DUNDAS	WADE	AGM	220 920	~ 4 - 5 M	Water WADE Transportation
B	<b>VICTORIA</b>	ST. GEORGE	COLBORNE	WATER	SPRIET	880	~ \$ 3.5 - 4 M	Water WADE Transportation
<p><b>WADE:</b> City of London Wastewater &amp; Drainage Engineering Division</p> <p><b>WATER:</b> City of London Water Engineering Division</p> <p><b>Transportation:</b> City of London Transportation Planning &amp; Design</p> <p><b>CA:</b> City of London Construction Administration Division</p>								

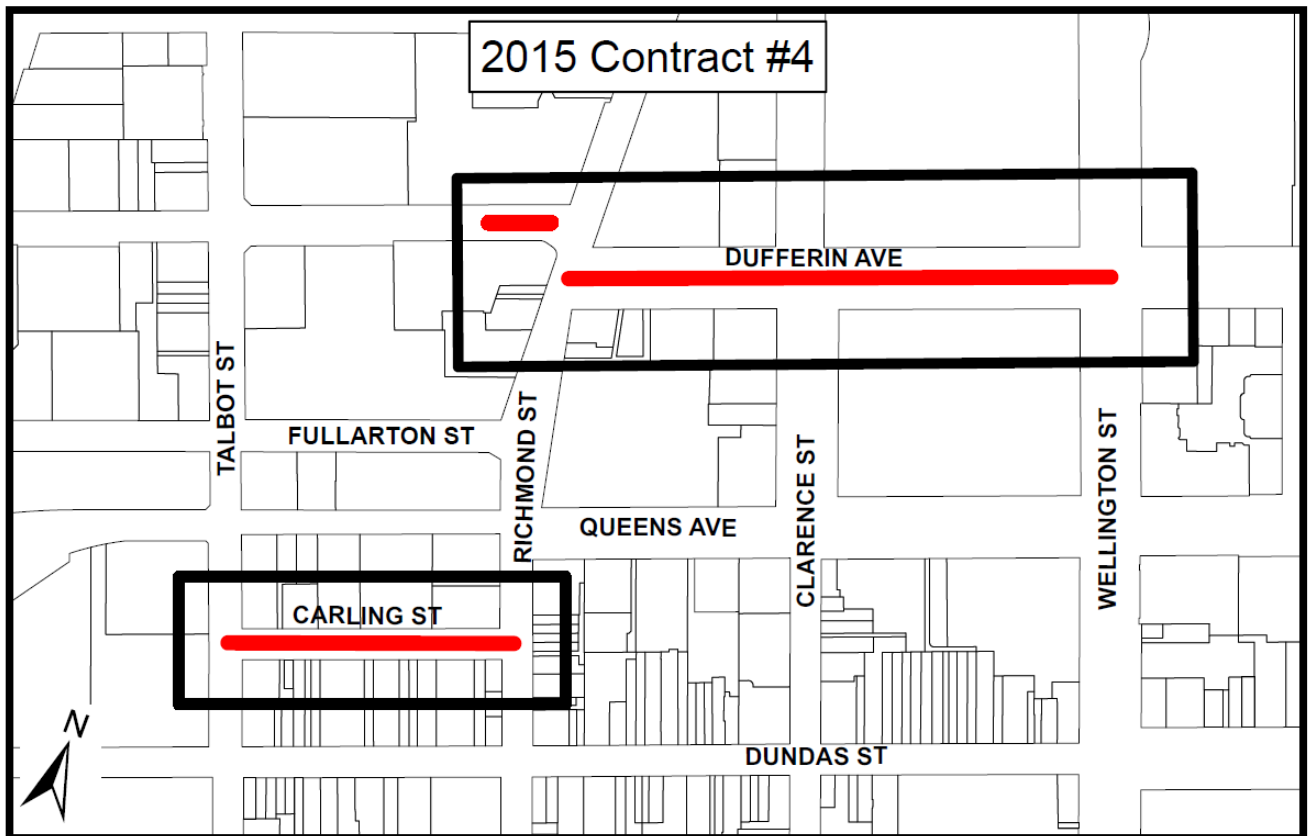
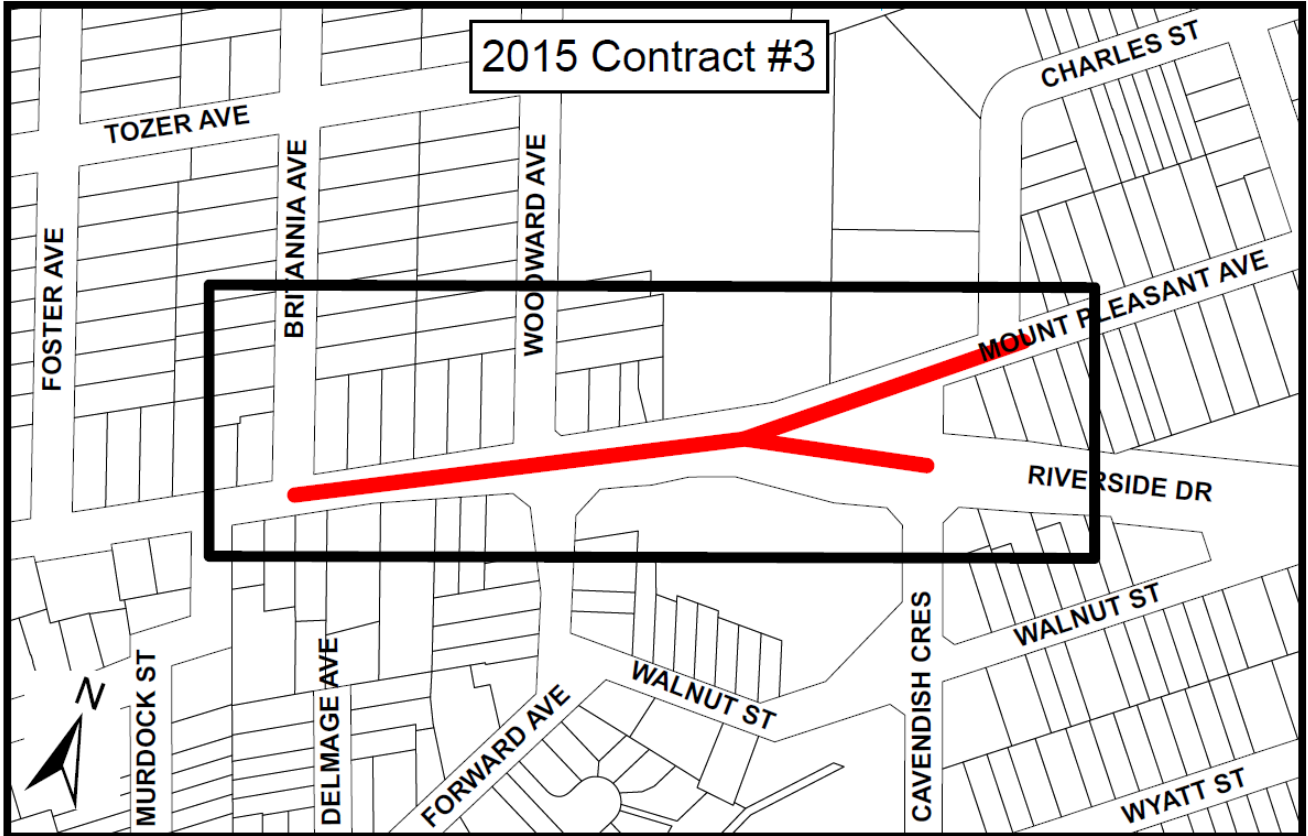
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**Appendix "C"**

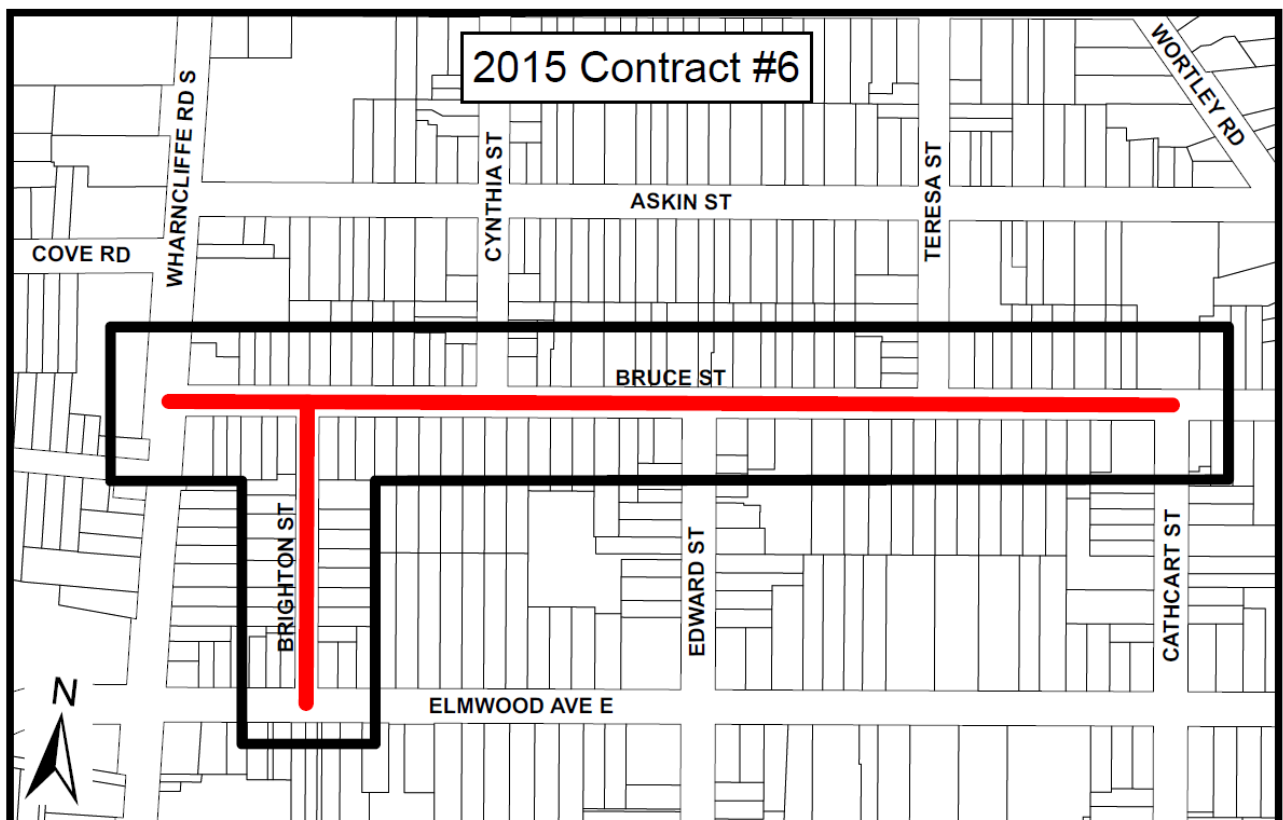
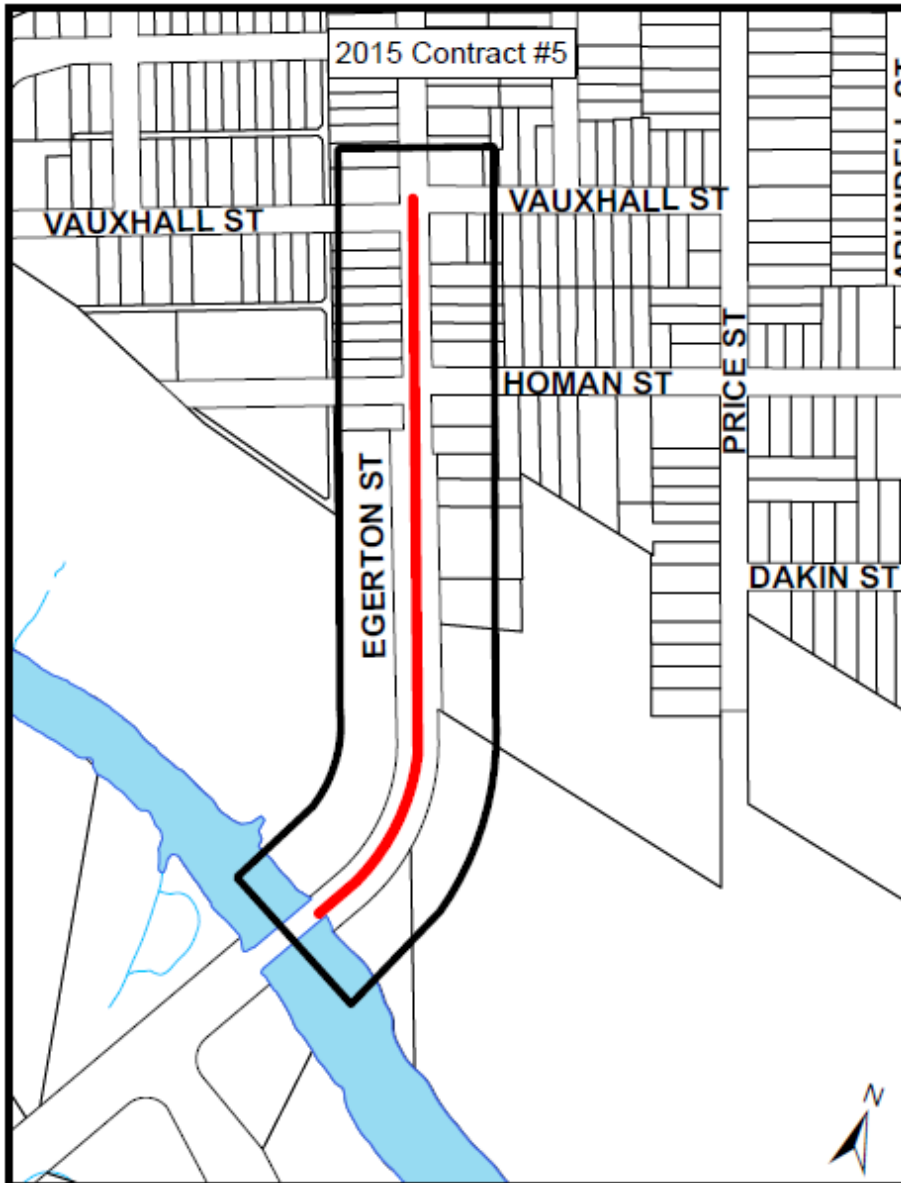
**Project Location Maps**



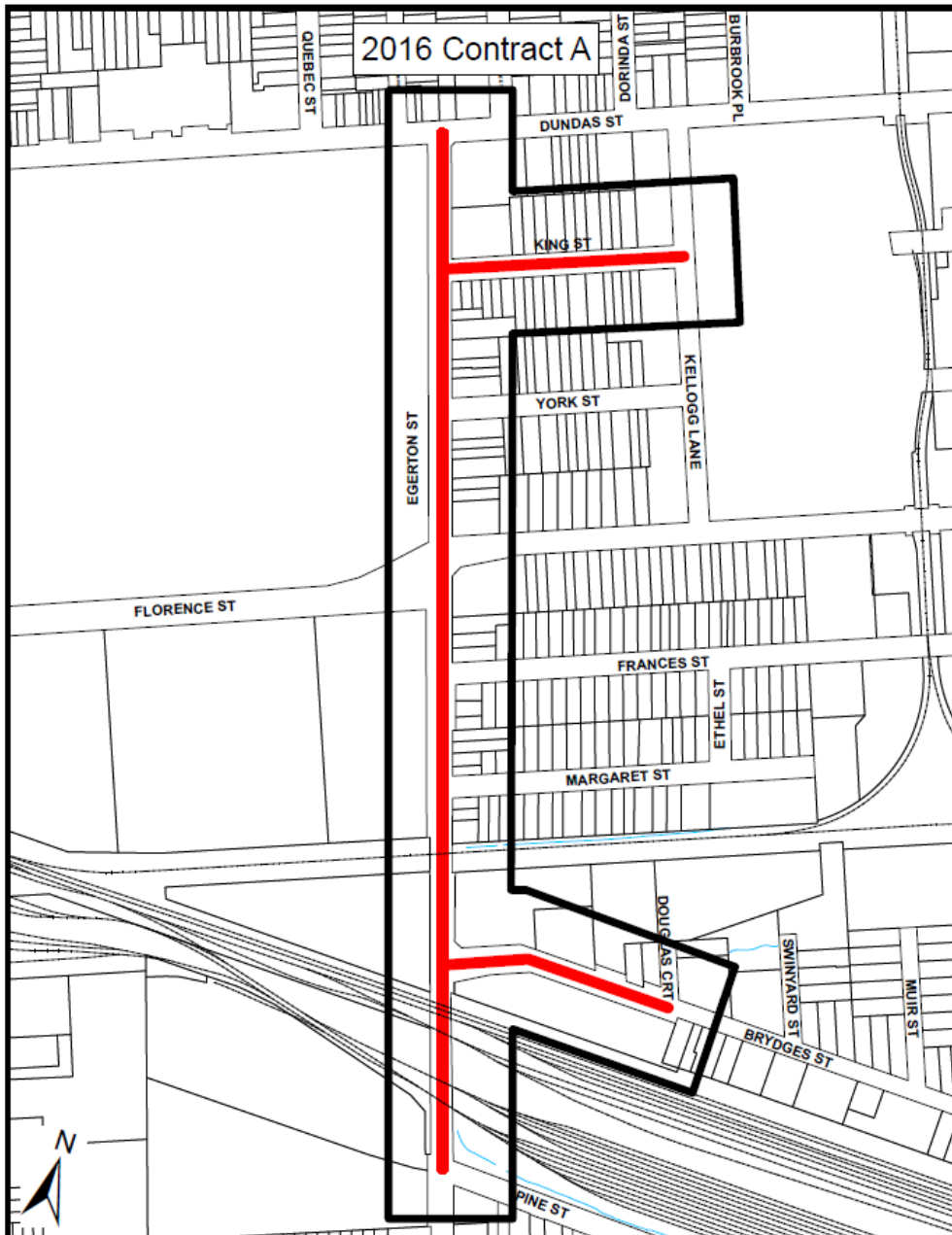
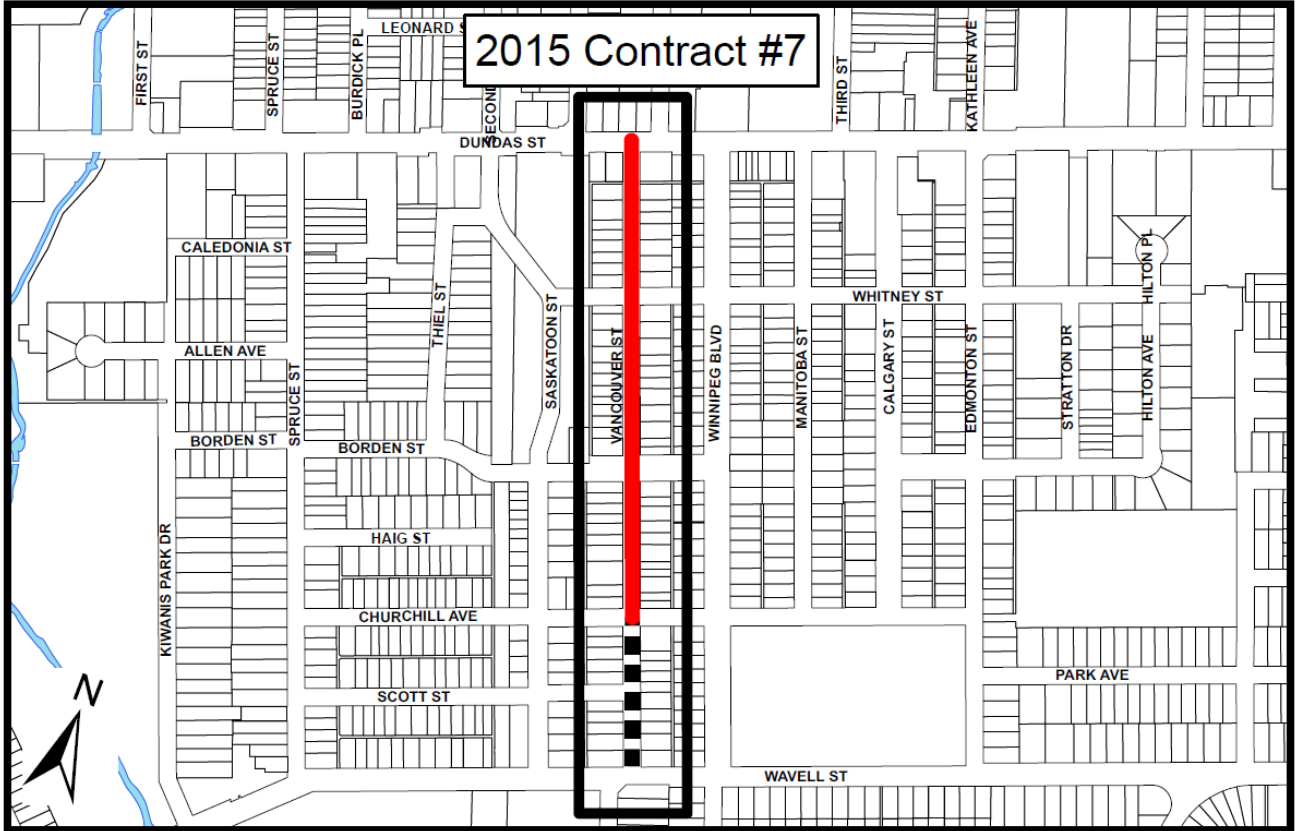
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