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<b>TO:</b>	<b>CHAIR AND MEMBERS CIVIC WORKS COMMITTEE MEETING ON MAY 27th, 2013</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 2014 - 2015</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 2014-2015 Infrastructure Lifecycle Renewal Program (ES2414-12, ES2464-11, EW3765-13, TS1446-12, TS5123-12, TS4067-13):

- (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, 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: Spriet Associates, 155 York Street, London ON, N6A 1A8 in the amount of \$214,203.00, exclusive of HST.
  - (ii) Contract 2: R.V. Anderson Associates Limited, 557 Southdale Road East Suite 200 in the amount of \$174,625.00, exclusive of HST.
  - (iii) Contract 3: AECOM Canada Ltd., 285 King Street, Suite 300, London ON, N6B 3M6; in the amount of \$ 284,245.50, exclusive of HST.
  - (iv) Contract 4: Archibald, Gray & McKay Engineering Limited, 3514 White Oak Road, London ON, N6E 2Z9; in the amount of \$ 216,436.00, exclusive of HST.
  - (v) Contract 5: Stantec Consulting Ltd, 800-171 Queens Avenue, London, ON, N6A 5J7; in the amount of \$245,338.50, exclusive of HST.
  - (vi) Contract 6: IBI Group 350 Oxford Street West, Suite 203, London, ON, N6H 1T3; in the amount of \$128,832.55 exclusive of HST.
  - (vii) Contract A: AECOM Canada Ltd., 285 King Street, Suite 300, London ON, N6B 3M6; in the amount of \$124,454.00 exclusive of HST.
  - (viii) Contract B: Dillon Consulting Ltd., 130 Dufferin Avenue, Suite 1400, London, ON, N6A 5R2; in the amount of \$195,965.00, exclusive of HST.
  - (ix) Contract C: Archibald, Gray & McKay Engineering Limited, 3514 White Oak Road, London ON, N6E 2Z9; in the amount of \$204,094.00 exclusive of HST.
  - (x) Contract D: Delcan Corporation, 1069 Wellington Road South, Suite 214, London ON, N6E 2H6; in the amount of \$190,358.30, exclusive of HST.
  - (xi) Contract E: Dillon Consulting Ltd., 130 Dufferin Avenue, Suite 1400, London, ON, N6A 5R2; in the amount of \$74,800.00 exclusive of HST.
- (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 program;
- (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.

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**BACKGROUND**

**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. This report recommends consultants to be appointed for the coming year's ILR program.

**Discussion:**

This report recommends the appointment of Engineering Consultants for 11 engineering assignments as identified in Appendix "B". Six of the projects are scheduled for construction in 2014, four in 2015 and one will be an area servicing study. 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 contract approval requests will come later, following 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. Six separate 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 focussed 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 eighth 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

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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 11 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.

**Conclusions:**

The recommendation of this report is to appoint various Consultants to undertake the design and study work required for the eleven projects from the 2014-2015 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 contained within this Policy.

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.

Additional annual operating costs to the EES budget in 2015 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>SUBMITTED BY:</b>	<b>RECOMMENDED BY:</b>
<b>JOHN LUCAS, P. ENG. DIRECTOR, WATER AND WASTEWATER</b>	<b>JOHN BRAAM, P.ENG. MANAGING DIRECTOR, ENVIRONMENTAL &amp; ENGINEERING SERVICES &amp; CITY ENGINEER</b>

May 27, 2013  
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. Consulting Firms as noted in Recommendation  
Ed Soldo Doug MacRae Tom Copeland Justin Lawrence

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**Appendix "B"**

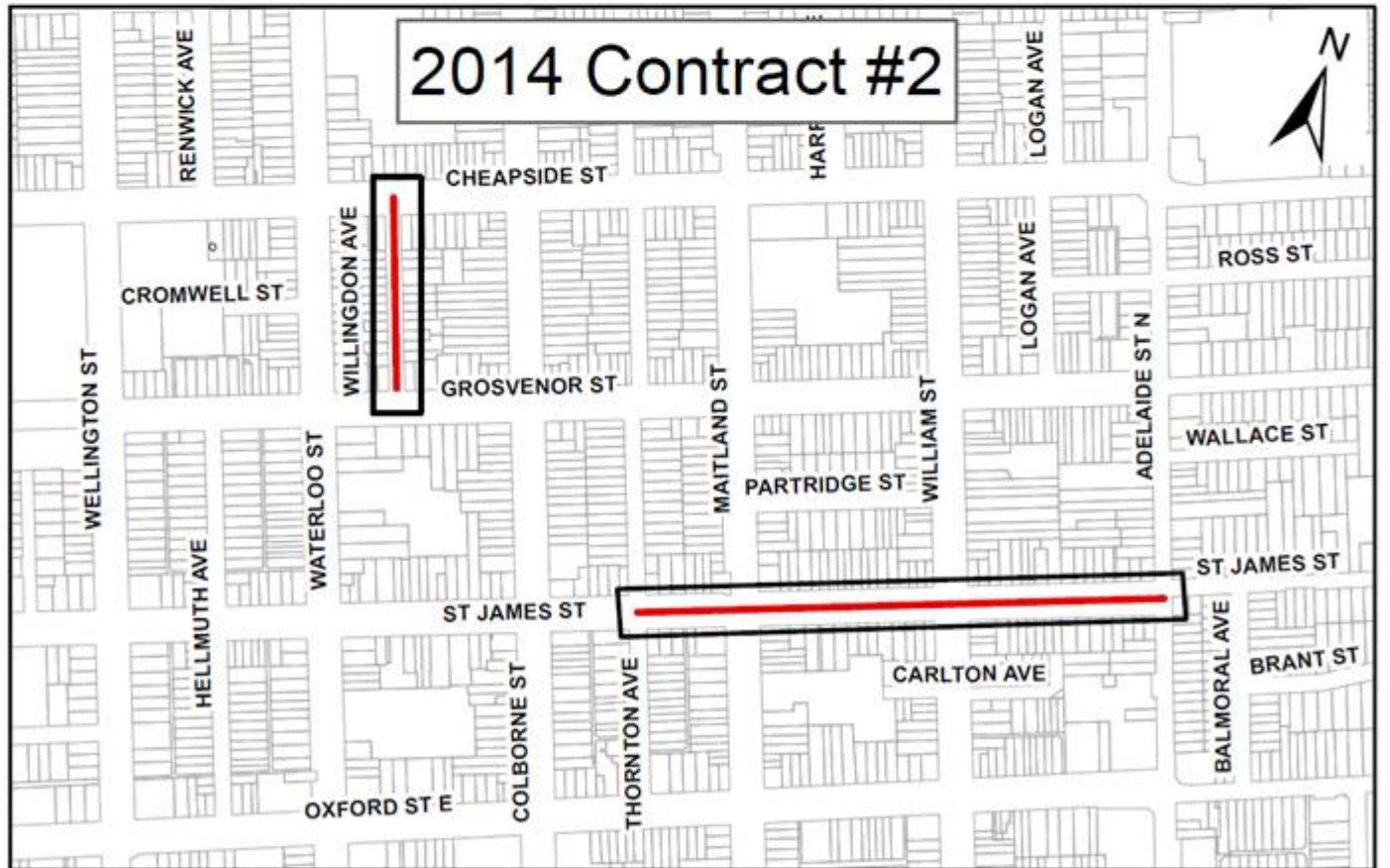
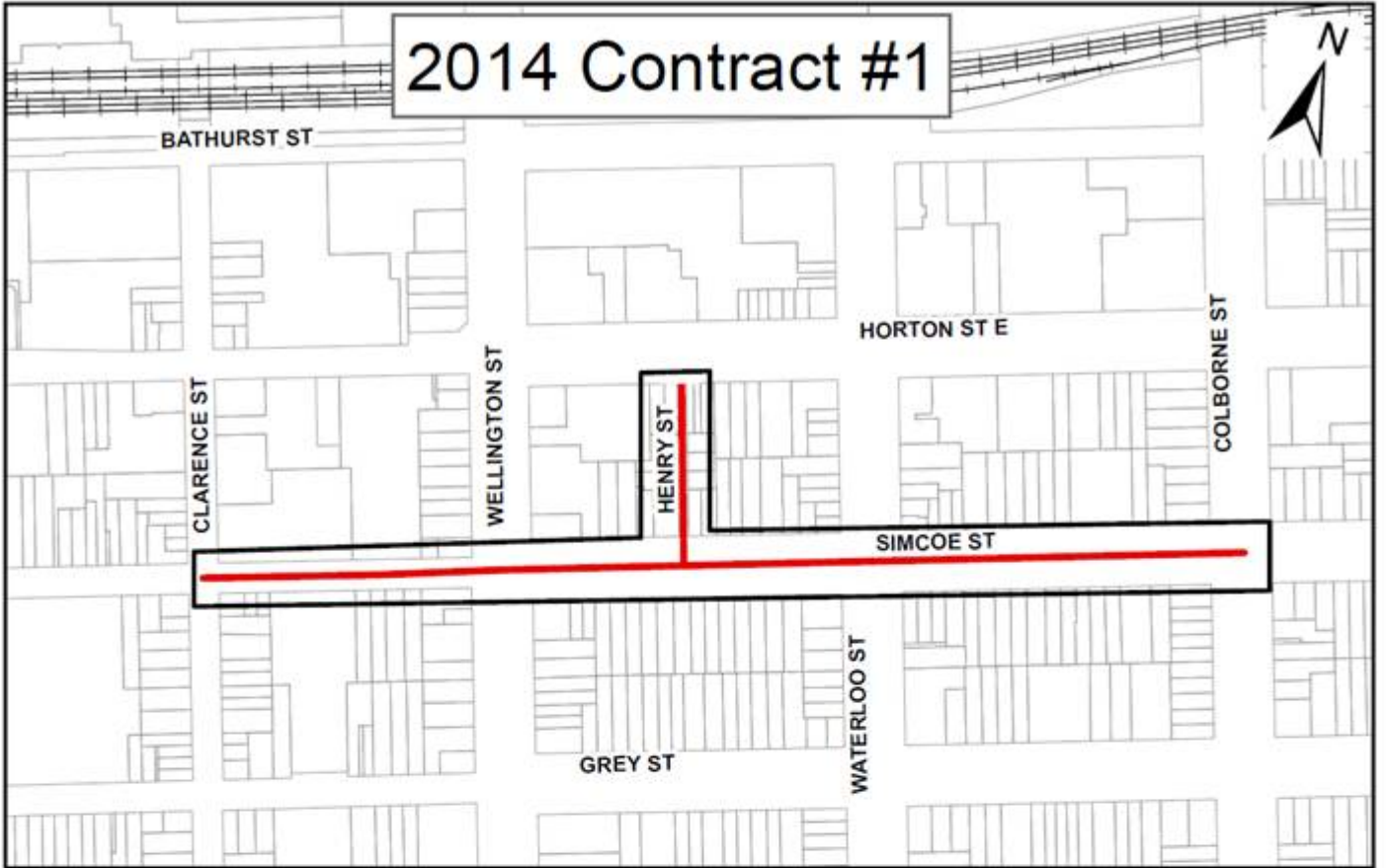
**Project Information List, Consultants & Construction Estimates**

2014-15 INFRASTRUCTURE LIFECYCLE RENEWAL PROJECT LIST - CONSULTANT ASSIGNMENTS								
(updated April 30, 2013; Council Award June 11, 2013)								
CONTRACT	STREET	FROM	TO	LEAD DIVISION City Project Manger (PM) and support staff	CONSULTANT	LENGTH ( ~ m)	CONCEPTUAL ESTIMATE	DIVISIONS FUNDING
1 2014	SIMCOE HENRY	CLEARANCE HORTON	COLBORNE SIMCOE	WADE Lead: Kyle Chambers EW: David Jackson	SPRIET	680 130	\$ 2,600,000	WADE/Water
2 2014	ST. JAMES WILLINGDON	THORNTON GROSVENOR	ADELAIDE CHEAPSIDE	WADE Lead: Doug Harron EW: George Negas	RVA	320 220	\$ 2,700,000	WADE/Water
3 2014	WILLIAM	DUFFERIN	OXFORD	WADE Lead: Steve Mansell EW: Jake Blancher	AECOM	1050	\$ 2,900,000	WADE/Water
4 2014	EDWARD	BRISCOE	S of EMERY	WATER Lead: Bob Moore ES: Doug Law	AGM	350	\$ 3,400,000	WADE/Water
5 2014	SECOND	DUNDAS	DIXIE	WATER Lead: Dave Chromczak ES: Jeff Conrad TS: Jane Fullick	STANTEC	680	\$ 2,300,000	Water/WADE/ Transportation
6 2013	CENTRAL CARTWRIGHT	COLBORNE CENTRAL	MAITLAND PRINCESS	WADE Lead: Jeff Conrad EW: George Negas	IBI GROUP	220 240	\$ 1,500,000	WADE/Water
<b>2015 Construction: 2013-2014 Design Engineering</b>								
A 2015	WELLINGTON	OXFORD	GROSVENOR	WATER Lead: George Negas ES: Doug Harron CA:	AECOM	485	\$ 1,500,000	WADE/Water
B 2015	TECUMSEH W	WHARNCLIFFE	WEST END	WADE Lead: Brad Weber EW: Dave Chromczak CA:	DILLON	610	\$ 1,900,000	WADE/Water
C 2015	BRISCOE E	WHARNCLIFFE	CATHCART	WADE Lead: Jeff Conrad EW: George Negas CA:	AGM	620	\$ 2,100,000	WADE/Water
D 2015	DUNDAS	MAITLAND	ADELAIDE	WATER Lead: Dave Jackson ES: Doug Harron; TS: Phil D'Agostino CA:	DELCAN	465	\$ 1,300,000	Water/ Transportation
E 2015	OLD NORTH SERVICING STUDY			WADE Lead: Doug Harron EW: Jake Blancher	DILLON			WADE

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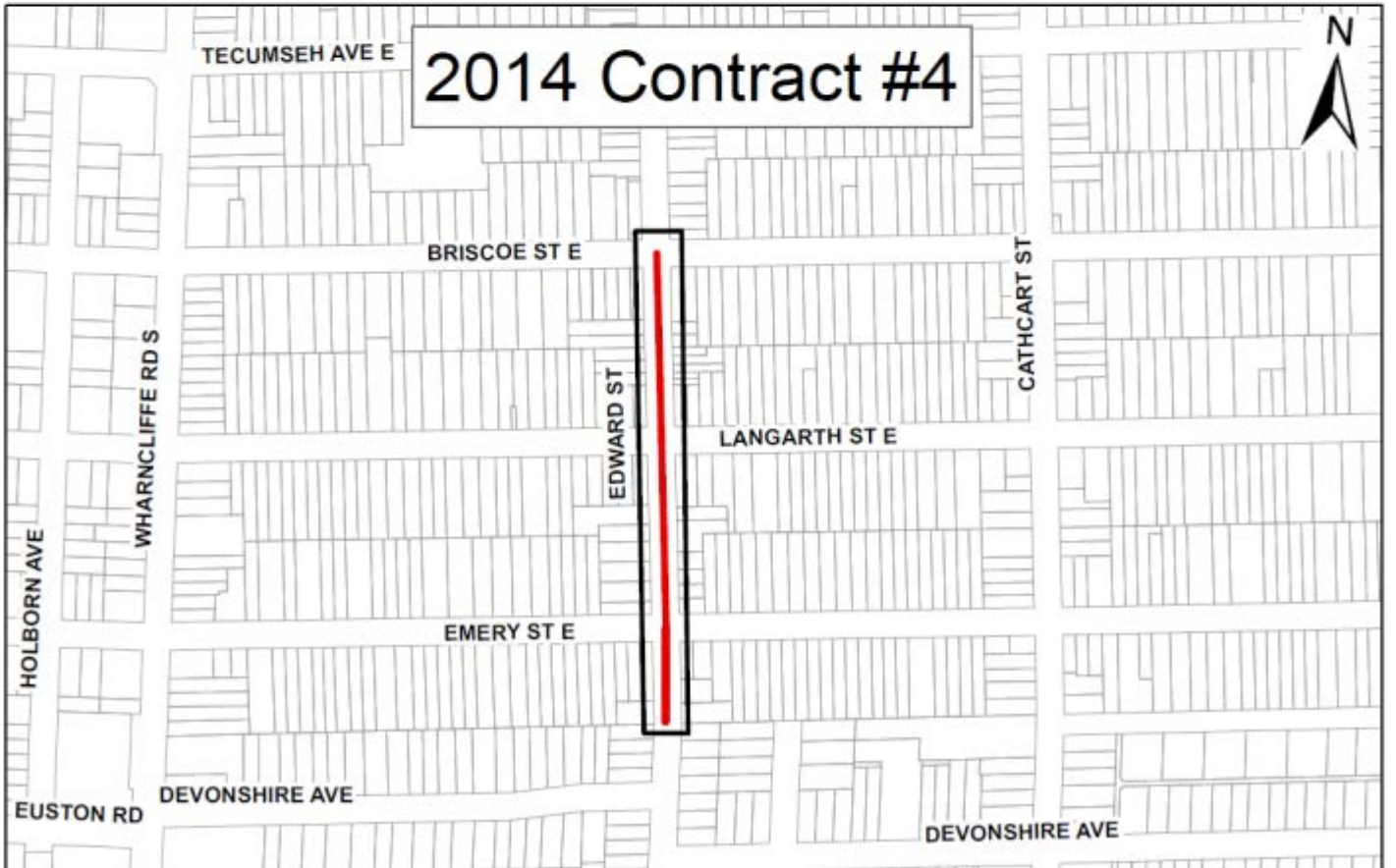
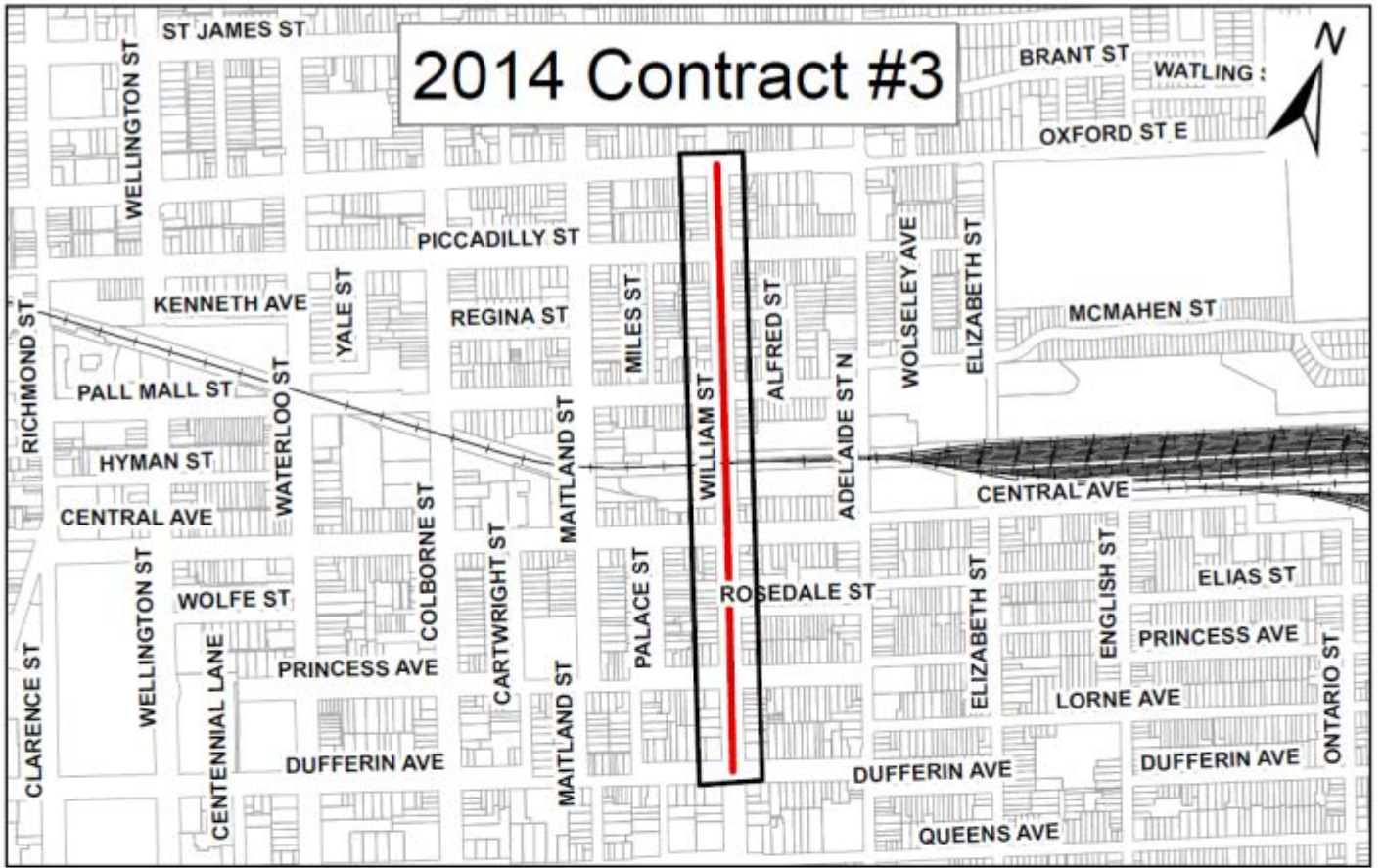
Appendix "C"

Project Location Maps

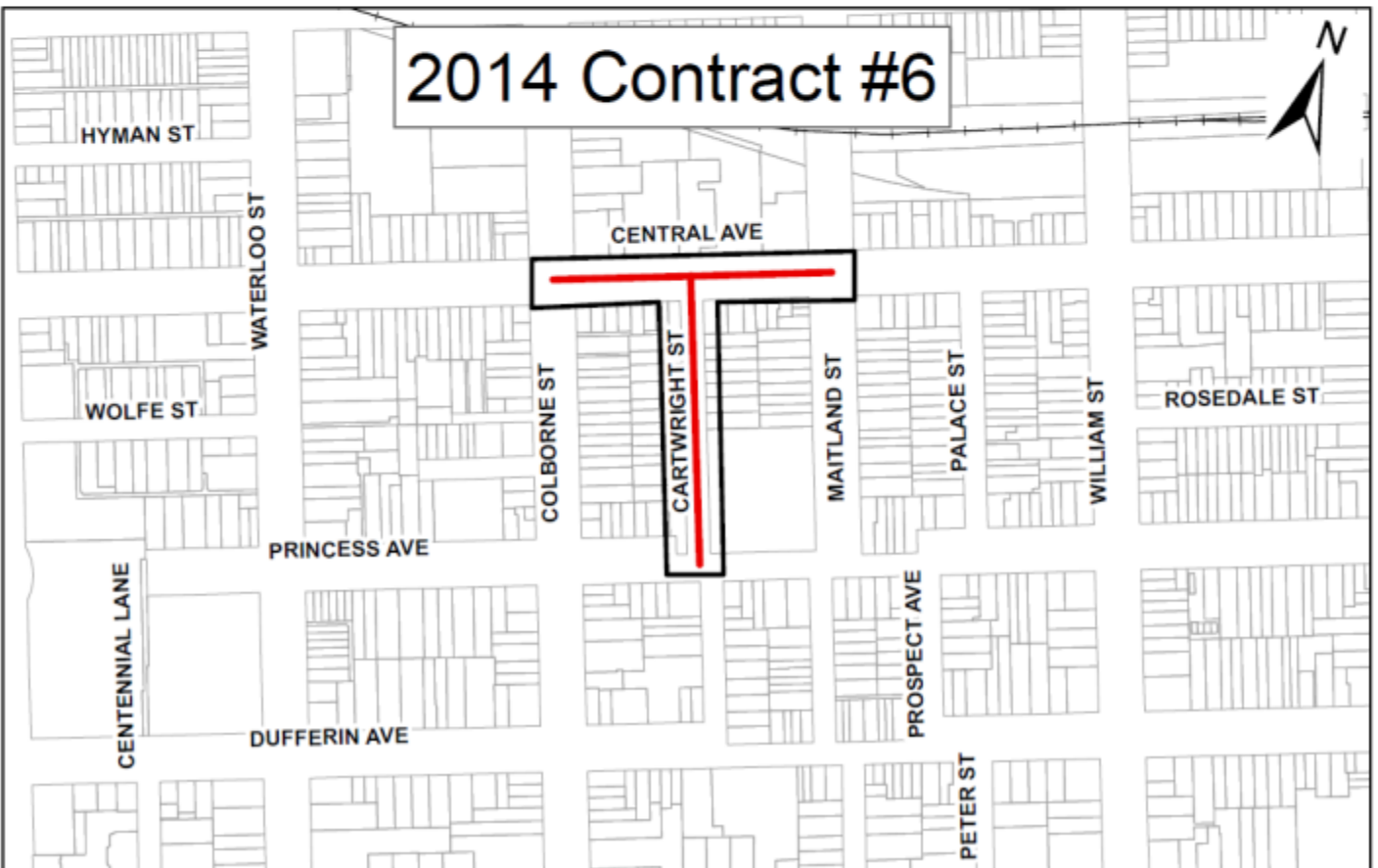
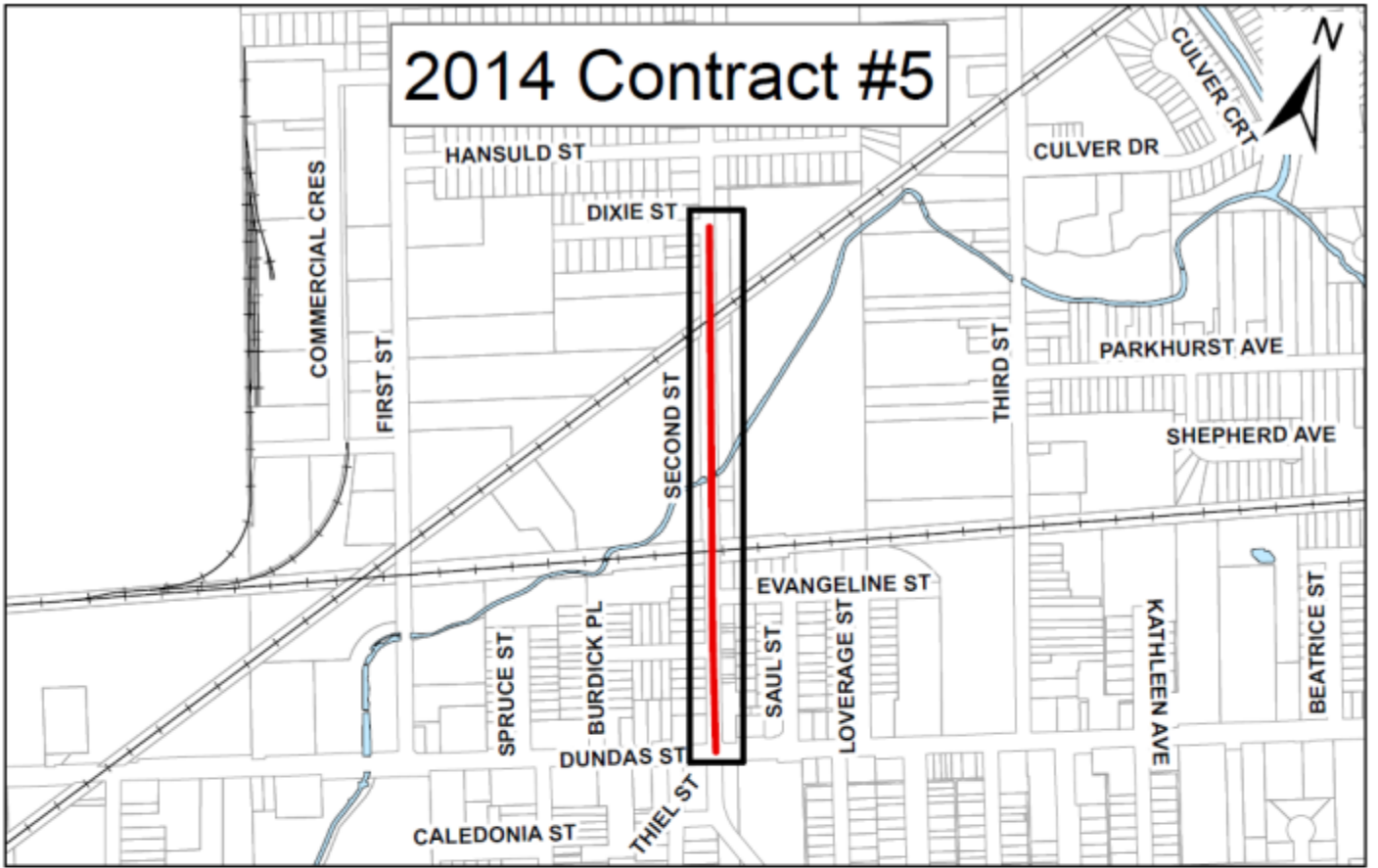




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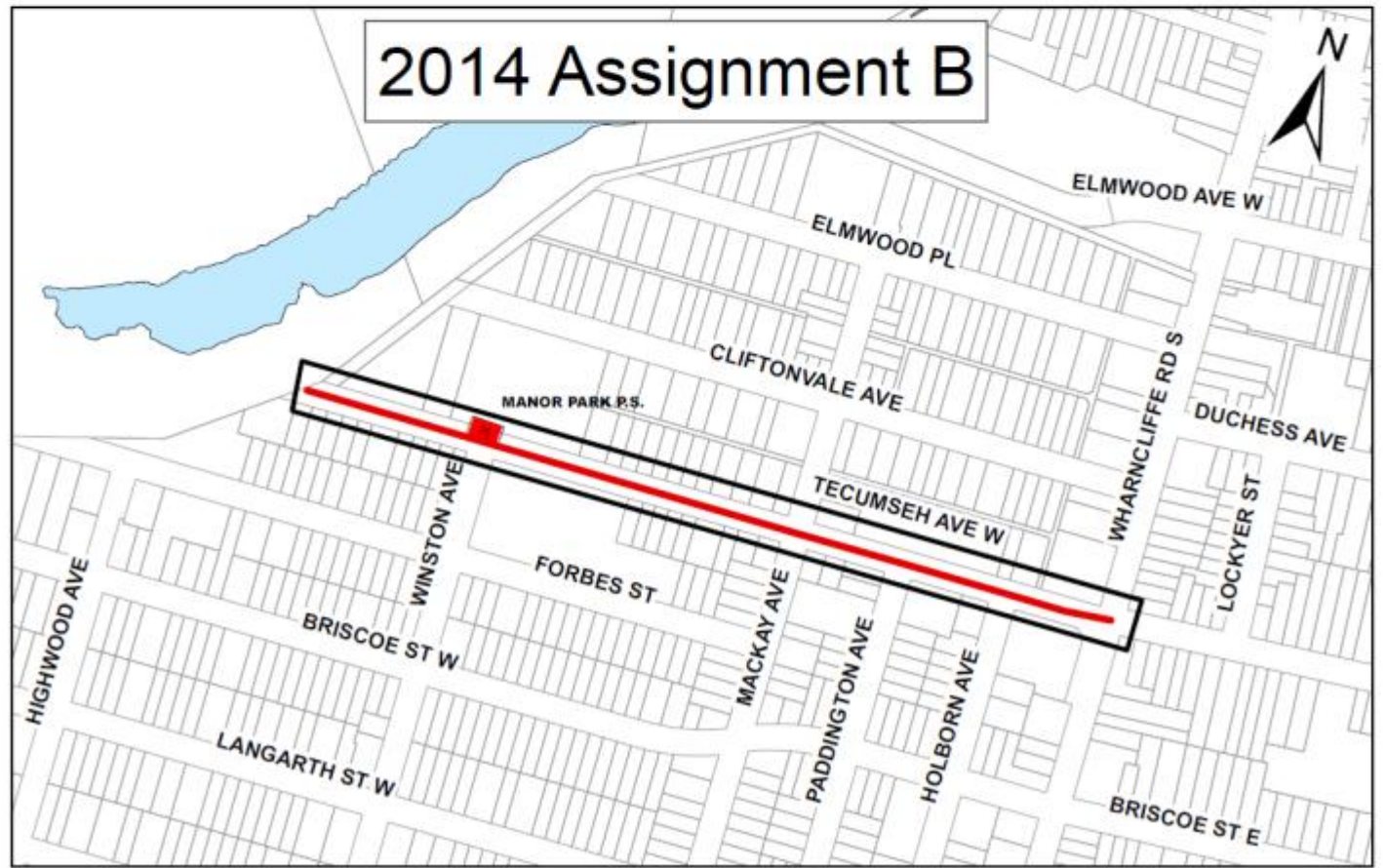
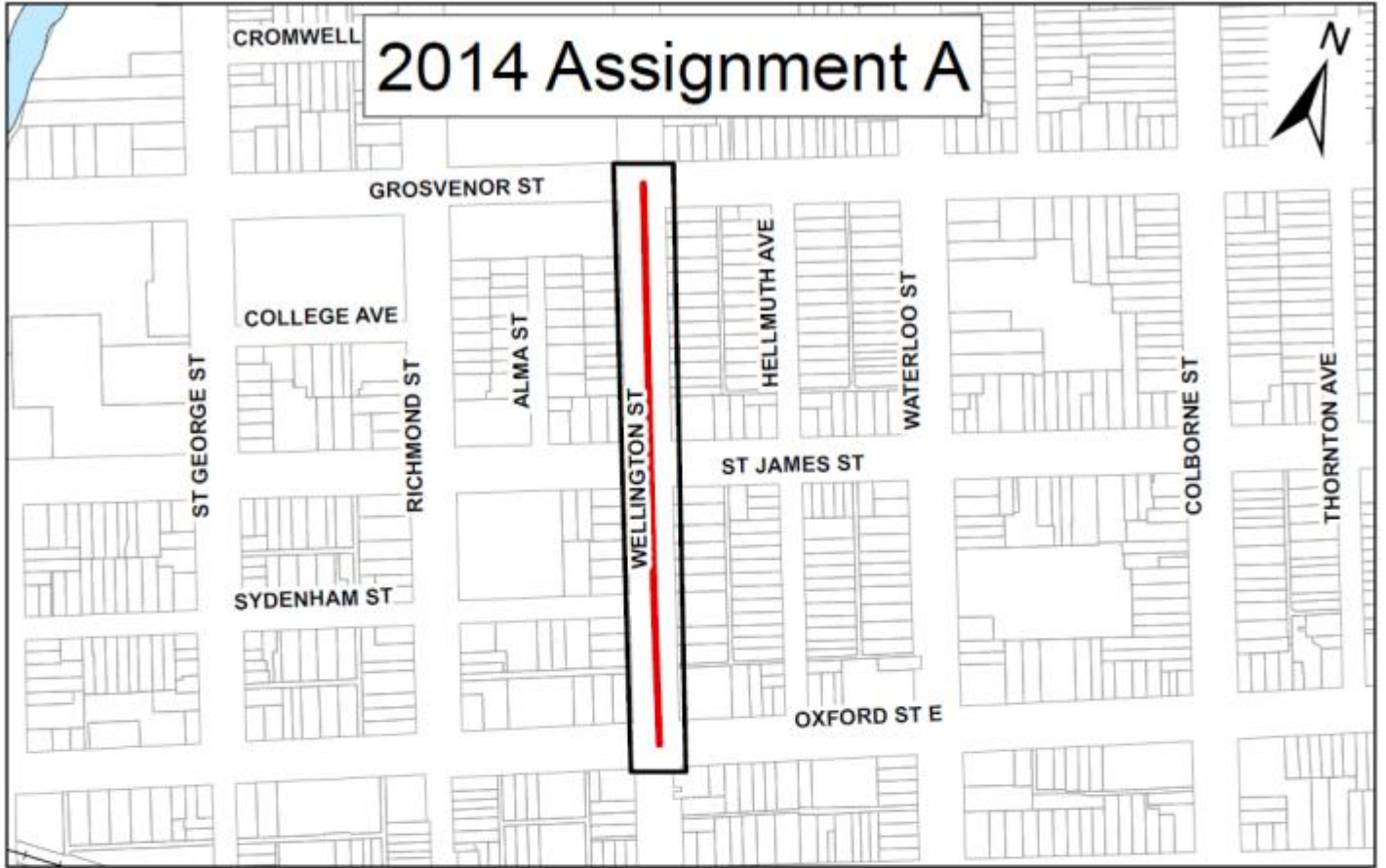


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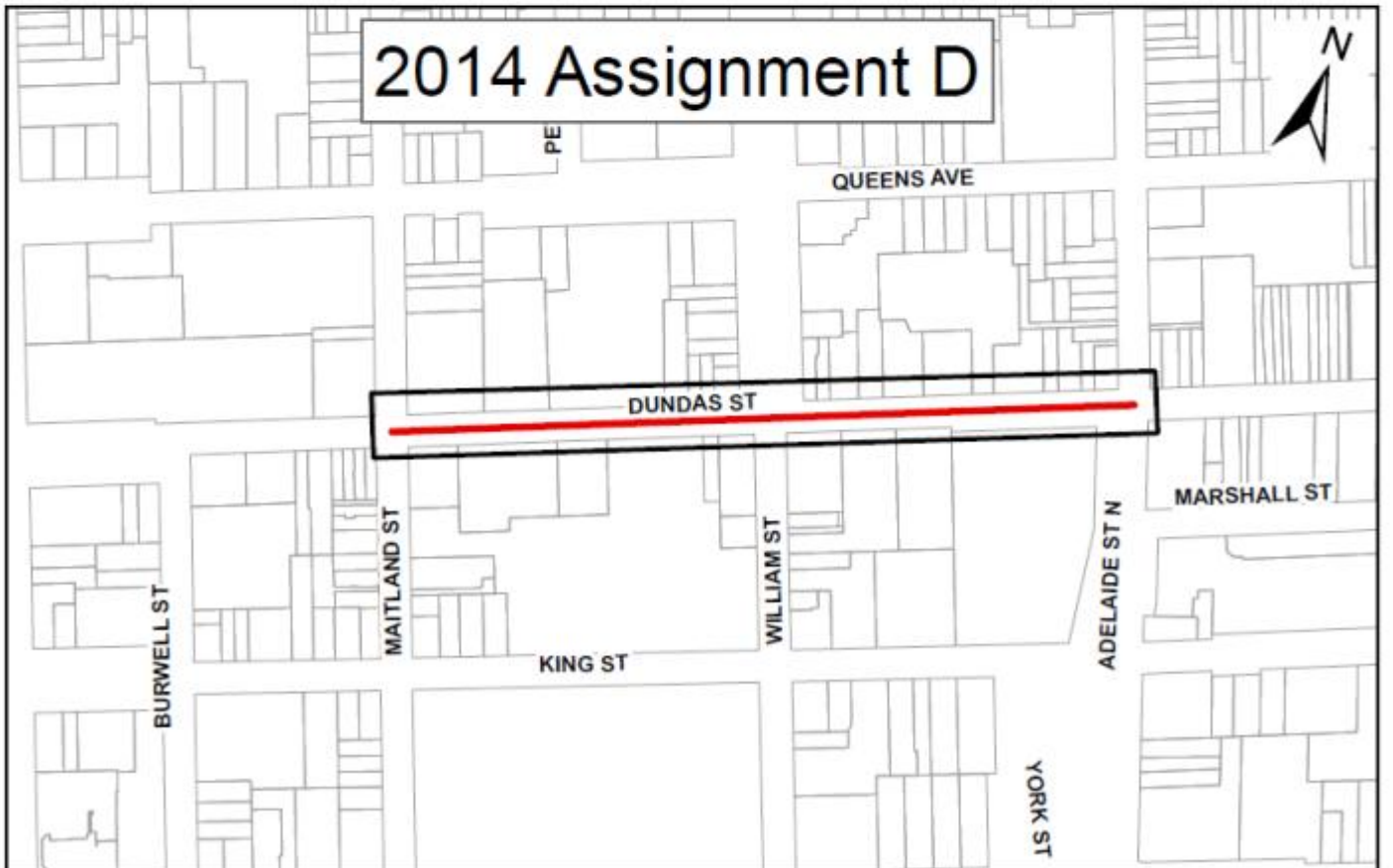
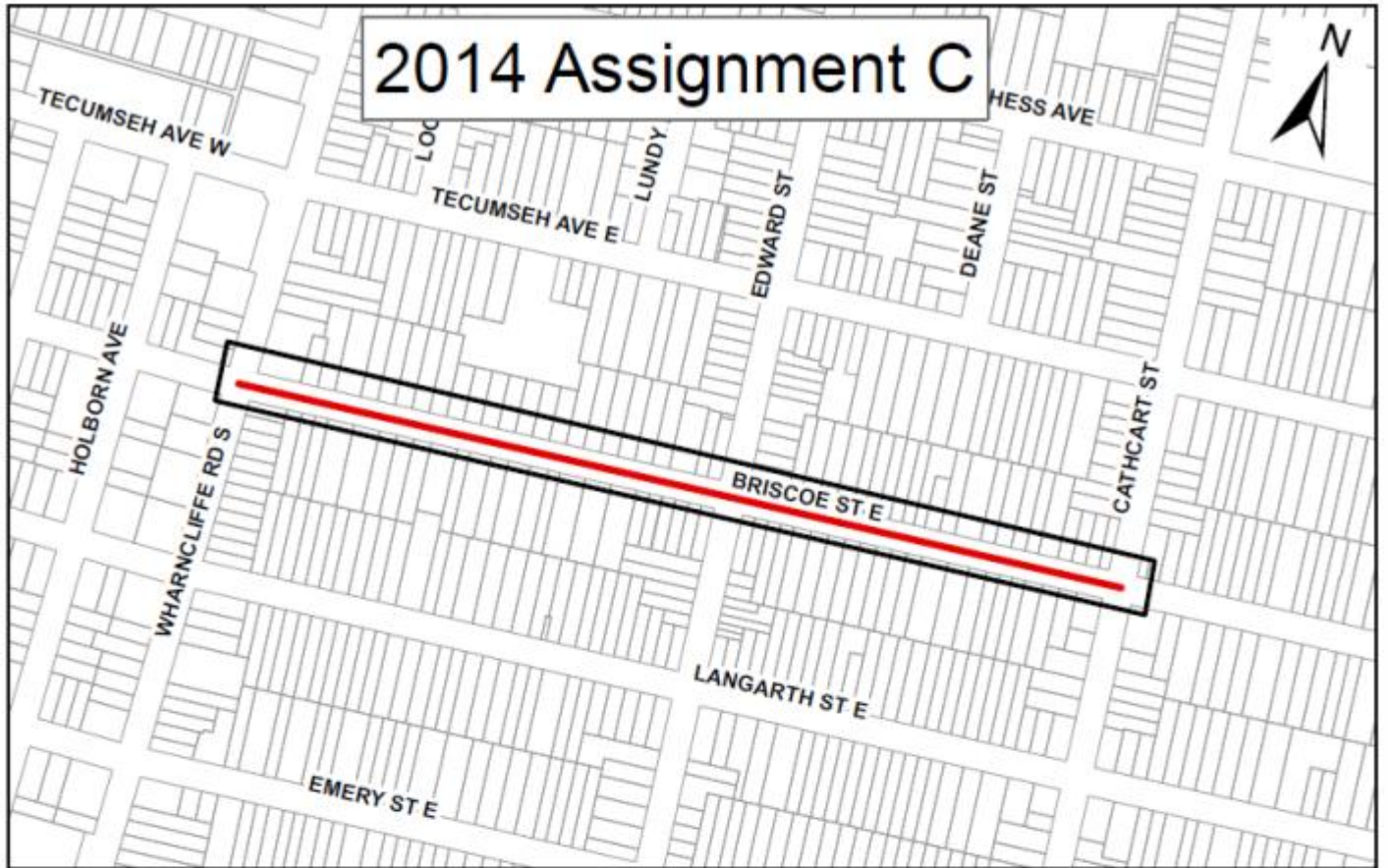


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