

TO:	CHAIR AND MEMBERS CIVIC WORKS COMMITTEE MEETING ON JULY 14, 2020
FROM:	KELLY SCHERR, P. Eng., MBA, FEC MANAGING DIRECTOR, ENVIRONMENTAL AND ENGINEERING SERVICES AND CITY ENGINEER
SUBJECT:	APPOINTMENT OF CONSULTING ENGINEERS INFRASTRUCTURE RENEWAL PROGRAM

RECOMMENDATION

That on the recommendation of the Managing Director, Environmental and Engineering Services and City Engineer, the following actions **BE TAKEN** with respect to the appointment of consulting engineers for the Infrastructure Renewal Program:

- a) The following consulting engineers **BE APPOINTED** to carry out consulting services for the identified 2021 Infrastructure Renewal Program funded projects, at the upset amounts identified below, in accordance with the estimate on file, and in accordance with Section 15.2(e) of the City of London's Procurement of Goods and Services Policy:
 - (i) Stantec Consulting Limited **BE APPOINTED** consulting engineers to complete the pre-design, detailed design and construction administration of the 2021 Infrastructure Renewal Program Assignment A, Mornington Pond Expansion, in the total amount of \$633,183.39 (including contingency), excluding HST;
 - (ii) AECOM Canada Limited **BE APPOINTED** consulting engineers to complete the pre-design and detailed design of 2021 Infrastructure Renewal Program Assignment B, Burlington Street Reconstruction, Burlington Crescent to Scenic Drive and Paymaster Avenue, all, in the total amount of \$199,991.00 (including contingency), excluding HST;
 - (iii) Archibald, Gray and McKay Engineering Limited **BE APPOINTED** consulting engineers to complete the pre-design, detailed design construction administration of 2021 Infrastructure Renewal Program Assignment C, Brydges St from Egerton Street to Highbury Avenue, Swinyard Street (all) and Muir Street (all) reconstruction, in the total amount of \$559,900.00 (including contingency), excluding HST;
 - (iv) Development Engineering (London) Limited **BE APPOINTED** consulting engineers to complete the pre-design, detailed design and construction administration of 2021 Infrastructure Renewal Program Assignment D, Foster Avenue from Riverside Drive to Upper Avenue and Upper Avenue from Riverside Drive to Foster Avenue reconstruction, in the total amount of \$253,600.99 (including contingency), excluding HST;
 - (v) Archibald, Gray and McKay Engineering Limited **BE APPOINTED** consulting engineers to complete the pre-design, detailed design and construction administration of 2021 Infrastructure Renewal Program Assignment E, Wortley Road from Briscoe Street to Devonshire Avenue reconstruction in the total amount of \$361,982.50 (including contingency), excluding HST;
 - (vi) Spriet Associates (London) Ltd **BE APPOINTED** consulting engineers to complete the pre-design, detailed design and construction administration of 2021 Infrastructure Renewal Program Assignment F, Calgary Street from Churchill Avenue to Dundas Street reconstruction in the total amount of \$375,910.70 (including contingency), excluding HST;

- b) the financing for 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.

PREVIOUS REPORTS PERTINENT TO THIS MATTER

- none

2019 – 2023 STRATEGIC PLAN

The following report supports the 2019 – 2023 Strategic Plan through the strategic focus area of Building a Sustainable City including:

- London’s infrastructure is built, maintained, and operated to meet the long-term needs of our community, and
- London has a strong and healthy environment.

BACKGROUND

Purpose

The purpose of this report is to award engineering consultant appointments for the Infrastructure Renewal Program. These consultant appointments will lead to infrastructure construction projects in 2021, including one multi-year project. A detailed project list, including timing and project limits, is contained in Appendix ‘B’. Project maps are contained in Appendix ‘C’.

Context

The Infrastructure Renewal Program is an annual program intended to maintain the lifecycle and operation of municipal infrastructure at an acceptable performance level. The engineering consultants work with City staff to complete the Infrastructure Renewal Program projects and meet the challenging infrastructure lifecycle replacement needs. The engineering consulting work recommended within this report will support the reconstruction of an estimated \$21,000,000 of capital infrastructure over two construction seasons.

DISCUSSION

Procurement Process: 2021 Infrastructure Renewal Program

The engineering consultant selection procedure for the 2021 Infrastructure Renewal Program utilized a grouped consultant selection process developed in partnership with the Purchasing and Supply Division, subsequently approved by Council June 12, 2018 and which will be used for all future Infrastructure Renewal Program consultant appointments. This two-stage grouped procurement process is in accordance with Section 15.2(e) of the Procurement of Goods and Services Policy.

Work Description

The Infrastructure Renewal Program projects include watermain and sewer replacement/repairs, full road reconstruction as well as restoration of areas disturbed by the construction activity. The scope of each project varies in length and depends on the infrastructure components requiring rehabilitation or replacement.

The city infrastructure design groups within each service area work closely together to co-ordinate infrastructure repair, rehabilitation and replacement. City staff prepare a list of the highest priority projects, taking into consideration condition assessment, capacity, criticality of the infrastructure link, and the safety and social impacts should the infrastructure link fail. City staff meet regularly throughout the year to co-ordinate their respective work, with the goal of aligning construction projects so more than one infrastructure element can be renewed, which significantly reduces social disruption and saves on construction costs. Design work starts early in the budget cycle, which allows projects to tender early in the season, so the most competitive construction pricing can be realized.

This report recommends the appointment of engineering consultants for six engineering design assignments as identified in Appendix 'B'. All of the projects are scheduled for construction in 2021, and one will extend over two construction seasons into 2022. The project to be constructed over two years is a larger and more complex project. The proposed construction year and physical limits of the project assignments are summarized in Appendix 'B' and a location map is provided for each project in Appendix 'C'.

Funds have been budgeted in the transportation, water and sewer capital budgets to support the engineering design work for the projects identified in Appendix 'A', "Sources of Financing Report". The design and construction administration fees for the new projects, recommended for approval in this report, are summarized in Table 1 below. All values below include 10% contingency and exclude HST.

Table 1 – New Project Approval Summary

Assignment	Street	Consultant	Design Fee	Construction Admin Fee	Total Fee
2021 IRP* Assignment A	Mornington Pond Expansion	Stantec Consulting Ltd.	\$361,392.53	\$271,790.86	\$633,183.39
2021 IRP Assignment B	Burlington Street / Paymaster Avenue	AECOM	\$199,991.00	--	\$199,991.00
2021 IRP Assignment C	Brydges St / Muir St / Swinyard St	Archibald, Gray and McKay Engineering Ltd	\$258,874.00	\$301,026.00	\$559,900.00
2021 IRP Assignment D	Foster Avenue / Upper Avenue	Development Engineering (London) Ltd	\$109,158.50	\$144,442.49	\$253,600.99
2021 IRP Assignment E	Wortley Road	Archibald, Gray and McKay Engineering Ltd	\$171,985.00	\$189,997.50	\$361,982.50
2021 IRP Assignment F	Calgary Street	Spriet Associates	\$163,429.20	\$212,481.50	\$375,910.70

* - Infrastructure Renewal Program

CONCLUSIONS

Replacing infrastructure at the end of its lifecycle is essential to building a sustainable city. The recommended engineering consultant assignments for the 2021 Infrastructure Renewal Program are another step forward in replacing London's aging infrastructure. The projects discussed within this report have been identified as high priority due to the age, poor condition and associated risk of failure associated with the infrastructure.

In the spirit of continuous improvement, the process for undertaking engineering consultant appointments will continue to evolve ensuring the City achieves the best value through a transparent, fair and competitive process. All the firms recommended through this engineering consultant appointment have shown their competency and expertise with infrastructure replacement projects of this type. The Infrastructure Renewal Program will continue to ensure high value and endeavour to achieve a consistently high degree of public satisfaction.

SUBMITTED BY:	SUBMITTED BY:
ASHLEY RAMMELOO, P. ENG. DIVISION MANAGER SEWER ENGINEERING DIVISION	AARON ROZENTALS, P.ENG. DIVISION MANAGER WATER ENGINEERING DIVISION
REVIEWED AND CONCURRED BY:	RECOMMENDED BY:
SCOTT MATHERS, MPA, P.ENG. DIRECTOR, WATER AND WASTEWATER	KELLY SCHERR, P.ENG., MBA, FEC MANAGING DIRECTOR ENVIRONMENTAL AND ENGINEERING SERVICES AND CITY ENGINEER

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Attach: Appendix 'A' – Sources of Financing
Appendix 'B' – Project Information List
Appendix 'C' – Location Maps

cc. John Freeman, Manager, Purchasing and Supply
Gary McDonald, Budget Analyst
AECOM Canada Ltd, 410 – 250 York Street, Citi Plaza, N6A 6K2
Archibald, Gray & McKay Engineering, 3514 White Oak Road, N6E 2Z9
Development Engineering Ltd., 41 Adelaide St N, Unit 71, N6B 3P4
Spriet Associates, 155 York St, N6A 1A8
Stantec, 171 Queens Ave, N6A 5J7

APPENDIX 'A'

#20100

Chair and Members
Civic Works Committee

July 14, 2020
(Appoint Consulting Engineers)

RE: Appointment of Consulting Engineers - Infrastructure Renewal Program
Capital Project EW376520 - Infrastructure Renewal Program - Watermains
Capital Project ES241420 - Infrastructure Renewal Program - Sanitary Sewer
Capital Project ES254020 - Infrastructure Renewal Program - Stormwater sewers & Treatment
Capital Project ES3220 - Wetland Restoration & SWM Treatment Enhancement
Capital Project TS173919 - Active Transportation (2019-2023)
Capital Project TS144620 - Road Networks Improvements (Main)
Stantec Consulting Limited - \$633,183.39.00 (excluding H.S.T.) (Subledger WS21C001)
AECOM Canada Limited - \$199,991.00 (excluding H.S.T.) (Subledger WS21C00B)
Archibald, Gray & McKay Engineering Limited - \$559,900.00 (excluding H.S.T.) (Subledger WS21C00C)
Development Engineering (London) Limited - \$253,600.99 (excluding H.S.T.) (Subledger WS21C00D)
Archibald, Gray & McKay Engineering Limited - \$361,982.50 (excluding H.S.T.) (Subledger WS21C00E)
Spriet Associates (London) Ltd. - \$375,910.70 (excluding H.S.T.) (Subledger WS21C00F)

FINANCE & CORPORATE SERVICES REPORT ON THE SOURCES OF FINANCING:

Finance & Corporate Services confirms that the cost of this project can be accommodated within the financing available for it in the Capital Works Budget and that, subject to the adoption of the recommendations of the Managing Director, Environmental & Engineering Services & City Engineer, the detailed source of financing for this project is:

<u>SUMMARY OF ESTIMATED EXPENDITURES</u>	Approved Budget	Committed to Date	This Submission	Balance for Future Work
<u>EW376520- IRP - Watermains</u>				
Engineering	\$2,318,186	\$953,804	\$857,089	\$507,293
Construction	15,000,000	10,465,974		4,534,026
	<u>17,318,186</u>	<u>11,419,778</u>	<u>857,089</u>	<u>5,041,319</u>
<u>ES241420 - IRP - Sanitary Sewers</u>				
Engineering	1,724,865	556,129	546,123	622,613
Engineering (Utilities Share)	68,176	68,176		0
Construction	8,543,460	5,457,105		3,086,355
Construction (Utilities Share)	1,257,613	1,257,613		0
City Related Expenses	25,000			25,000
	<u>11,619,114</u>	<u>7,339,023</u>	<u>546,123</u>	<u>3,733,968</u>
<u>ES254020 - IRP - Stormwater Sewers & Treatment</u>				
Engineering	2,000,000	485,835	546,123	968,042
Construction	11,402,850	5,336,486		6,066,364
City Related Expenses	100,000			100,000
	<u>13,502,850</u>	<u>5,822,321</u>	<u>546,123</u>	<u>7,134,406</u>
<u>ES3220 Wetland Restoration & SWM Treatment Enhancement</u>				
Engineering	350,000		350,000	0
<u>TS173919 - Active Transportation</u>				
Engineering	600,000	65,896	20,353	513,751
Construction	4,747,752	759,911		3,987,841
	<u>5,347,752</u>	<u>825,807</u>	<u>20,353</u>	<u>4,501,592</u>
<u>TS144620 - Road Networks Improvements (Main)</u>				
Engineering	1,000,000	558,047	106,849	335,104
Engineering (Bell Canada)	3,555	3,555		0
Construction	11,196,200	5,792,694		5,403,506
Construction (Bell Canada)	40,232	40,232		0
	<u>12,239,987</u>	<u>6,394,528</u>	<u>106,849</u>	<u>5,738,610</u>
NET ESTIMATED EXPENDITURES	<u>\$60,377,889</u>	<u>\$31,801,457</u>	<u>\$2,426,537</u>	<u>\$26,149,895</u>
<u>SUMMARY OF FINANCING:</u>				
<u>EW376520- IRP - Watermains</u>				
Capital Water Rates	\$10,753,000	\$10,753,000		\$0
Drawdown from Capital Water Reserve Fund	6,565,186	666,778	857,089	5,041,319
	<u>17,318,186</u>	<u>11,419,778</u>	<u>857,089</u>	<u>5,041,319</u>
<u>ES241420 - IRP - Sanitary Sewers</u>				
Capital Sewer Rates	5,642,540	1,362,449	546,123	3,733,968
Federal Gas Tax	4,650,785	4,650,785		0
Other Contributions (Utilities)	1,325,789	1,325,789		0
	<u>11,619,114</u>	<u>7,339,023</u>	<u>546,123</u>	<u>3,733,968</u>
<u>ES254020 - IRP - Stormwater Sewers & Treatment</u>				
Capital Sewer Rates	2,277,960	2,277,960		0
Drawdown from Sewage Works Reserve Fund	11,214,166	3,533,637	546,123	7,134,406
Other Contributions	10,724	10,724		0
	<u>13,502,850</u>	<u>5,822,321</u>	<u>546,123</u>	<u>7,134,406</u>
<u>ES3220 Wetland Restoration & SWM Treatment</u>				
Drawdown from Sewage Works Reserve Fund	350,000		350,000	0

APPENDIX 'A'

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Development Engineering (London) Limited - \$253,600.99 (excluding H.S.T.) (Subledger WS21C00D)
Archibald, Gray & McKay Engineering Limited - \$361,982.50 (excluding H.S.T.) (Subledger WS21C00E)
Spriet Associates (London) Ltd. - \$375,910.70 (excluding H.S.T.) (Subledger WS21C00F)

	Approved Budget	Committed to Date	This Submission	Balance for Future Work
<u>TS173919 - Active Transportation</u>				
Capital Levy	391,425	391,425		0
Debenture By-law No. W.-5654-291	2,277,726	21,479	10,176	2,246,071
Drawdown from City Services - Roads Reserve Fund (Development Charges)	2,678,601	412,903	10,177	2,255,521
	<u>5,347,752</u>	<u>825,807</u>	<u>20,353</u>	<u>4,501,592</u>
<u>TS144620 - Road Networks Improvements (Main)</u>				
Capital Levy	22,107	22,107		0
Debenture Quota	1,582,505			1,582,505
Drawdown from Capital Infrastructure Gap R.F.	1,679,160			1,679,160
Federal Gas Tax	8,912,428	6,328,634	106,849	2,476,945
Other Contributions (Utilities)	43,787	43,787		0
	<u>12,239,987</u>	<u>6,394,528</u>	<u>106,849</u>	<u>5,738,610</u>
TOTAL FINANCING	<u>\$60,377,889</u>	<u>\$31,801,457</u>	<u>\$2,426,537</u>	<u>\$26,149,895</u>

1) FINANCIAL NOTE: (EXCLUDING H.S.T.)	EW376520	ES241420	ES254020	ES3220
<u>Listed by Engineer and Contract</u>				
Stantec Consulting Limited	\$115,695	\$86,770	\$86,771	\$343,947
AECOM Canada Limited	79,997	59,997	59,997	
Archibald, Gray and McKay Engineering Limited	173,960	130,470	130,470	
Development Engineering	101,441	76,080	76,080	
Archibald, Gray and McKay Engineering Limited	220,809	70,587	70,587	
Spriet Associates (London) Ltd	150,365	112,773	112,773	
TOTAL PER CAPITAL PROJECT (EXCLUDING H.S.T.)	<u>\$842,267</u>	<u>\$536,677</u>	<u>\$536,678</u>	<u>\$343,947</u>

FINANCIAL NOTE (continued)	TS173919	TS144620	TOTAL PER CONTRACT	
<u>Listed by Engineer and Contract</u>			Excluding HST	Incl. HST
Stantec Consulting Limited			\$633,183	\$644,327
AECOM Canada Limited			199,991	203,511
Archibald, Gray and McKay Engineering Limited	20,000	105,000	559,900	569,754
Development Engineering			253,601	258,064
Archibald, Gray and McKay Engineering Limited			361,983	368,354
Spriet Associates (London) Ltd			375,911	382,527
TOTAL PER CAPITAL PROJECT (EXCLUDING H.S.T.)	<u>\$20,000</u>	<u>\$105,000</u>	<u>\$2,384,569</u>	<u>\$2,426,537</u>

2) Financial Note: (Charges per Capital Project)	EW376520	ES241420	ES254020	ES3220
Contract Price	\$842,267	\$536,677	\$536,678	\$343,947
Add: HST @13%	109,495	69,768	69,768	44,713
Total Contract Price Including Taxes	951,762	606,445	606,446	388,660
Less: HST Rebate	94,673	60,322	60,323	38,660
Net Contract Price	<u>\$857,089</u>	<u>\$546,123</u>	<u>\$546,123</u>	<u>\$350,000</u>

Financial Note:(Charges per Capital Project)	TS173919	TS144620	TOTAL
<u>continued</u>			
Contract Price	\$20,000	\$105,000	\$2,384,569
Add: HST @13%	2,600	13,650	309,994
Total Contract Price Including Taxes	22,600	118,650	2,694,563
Less: HST Rebate	2,247	11,801	268,026
Net Contract Price	<u>\$20,353</u>	<u>\$106,849</u>	<u>\$2,426,537</u>

3) Development charges have been utilized in accordance with the underlying legislation and the Development Charges Background Studies completed in 2019.

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Jason Davies
Manager of Financial Planning & Policy

Appendix 'B' – Project Information List

2021 Infrastructure Renewal Program (IRP)						
IRP Assignment	Consultant	Street	From	To	Length (m)	Anticipated Construction Year
A	Stantec Consulting Ltd	Morningside Storm Water Management Pond Expansion				2021
B	AECOM Canada Ltd	Burlington Street	Burlington Crescent	Scenic Drive	610	2021
C	Archibald, Gray and McKay Engineering Ltd	Brydges Street	Douglas Court	Highbury Avenue	1,100	2021/2022
		Muir Street	all		150	2021
		Swinyard Street	all		100	2021
D	Development Engineering (London) Ltd	Foster Avenue	Riverside Drive	Upper Avenue	360	2021
		Upper Avenue	Riverside Drive	Foster Avenue	410	
E	Archibald, Gray and McKay Engineering Ltd	Wortley Road	Briscoe Street	Devonshire Avenue	460	2021
F	Spriet Associates Ltd	Calgary Street	Churchill Avenue	Dundas Street	540	2021

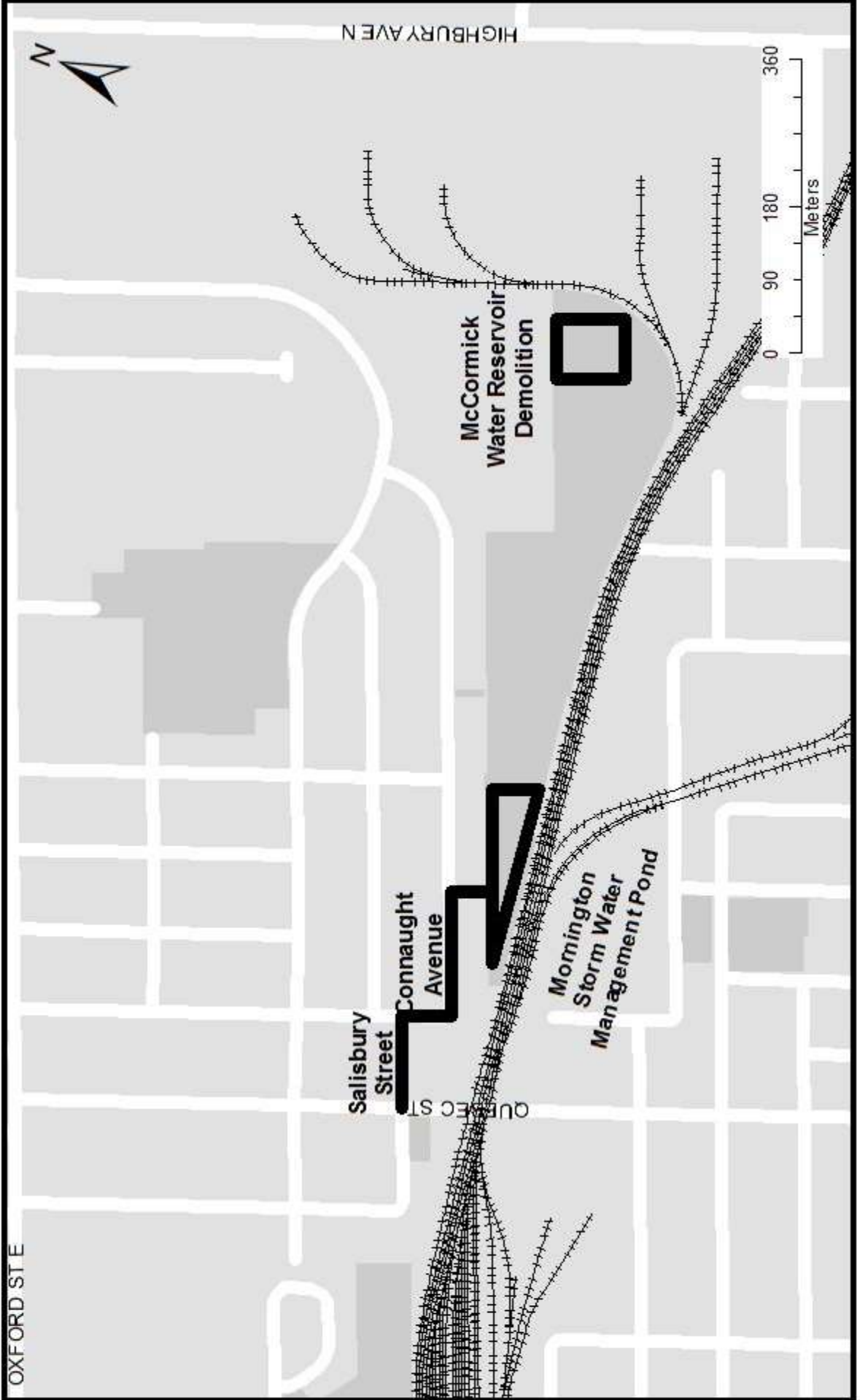


London
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2021/2022 Infrastructure Renewal Program

Assignment A

Mornington Storm Water Management Pond Expansion

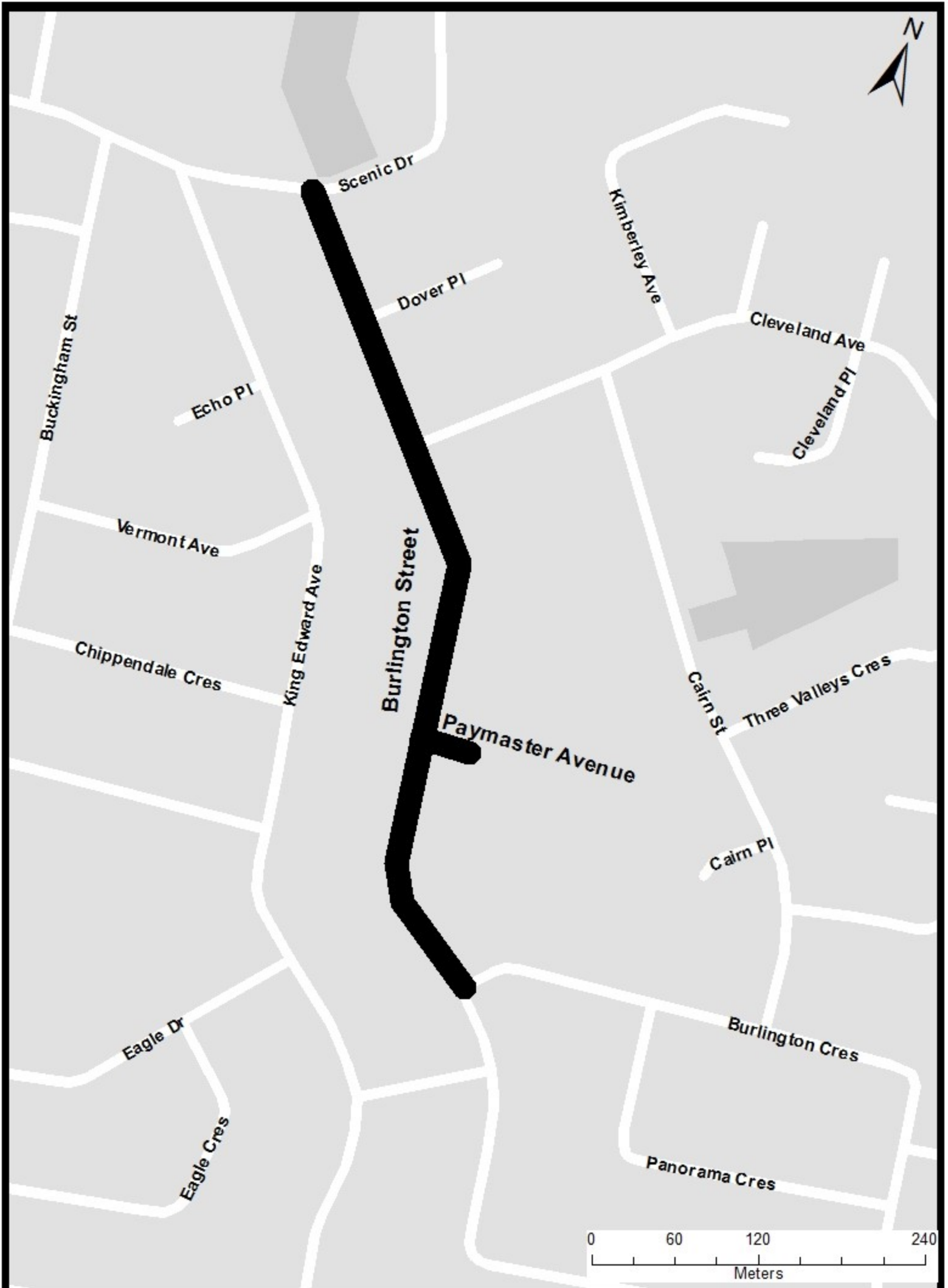




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2021 Infrastructure Renewal Program Assignment B

Burlington Street from Burlington Crescent to Scenic Drive
Paymaster Avenue (all)

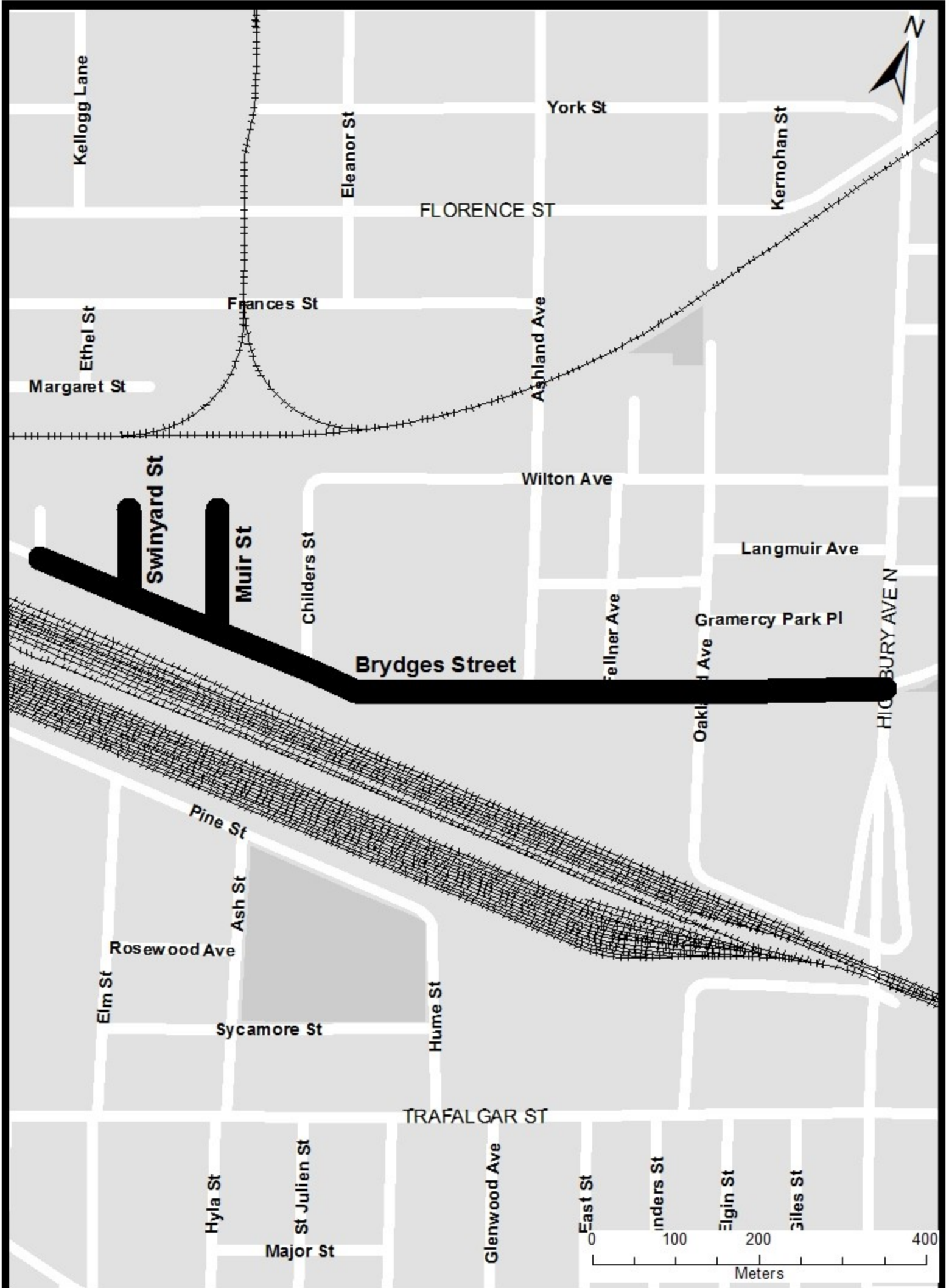




2021/2022 Infrastructure Renewal Program

Assignment C

Brydges Street from Douglas Court to Highbury Avenue
Swinyard Street (all)
Muir Street (all)

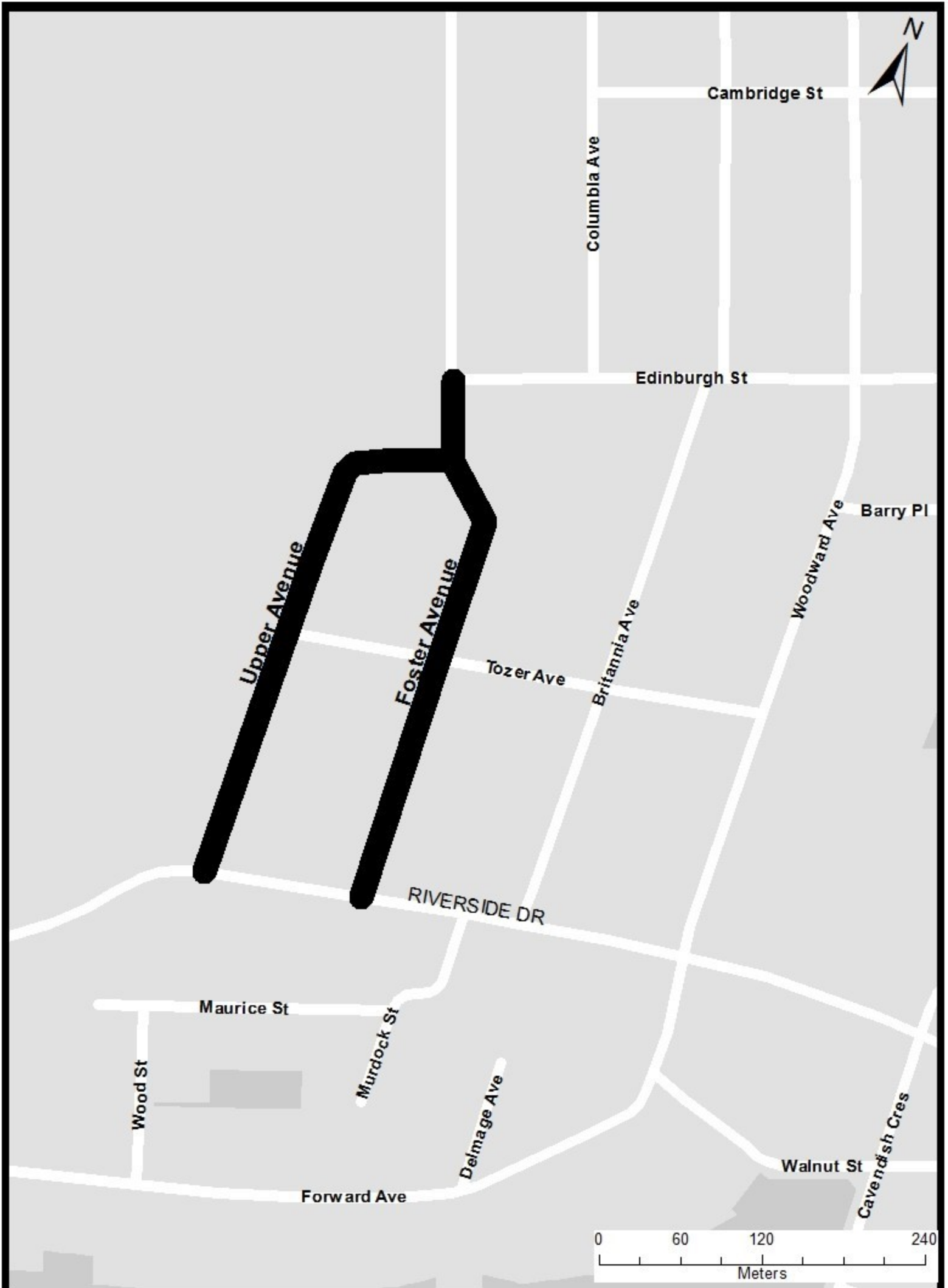




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2021/2022 Infrastructure Renewal Program Assignment D

Foster Avenue from Riverside Drive to Edinburgh Street
Upper Avenue from Riverside Drive to Edinburgh Street

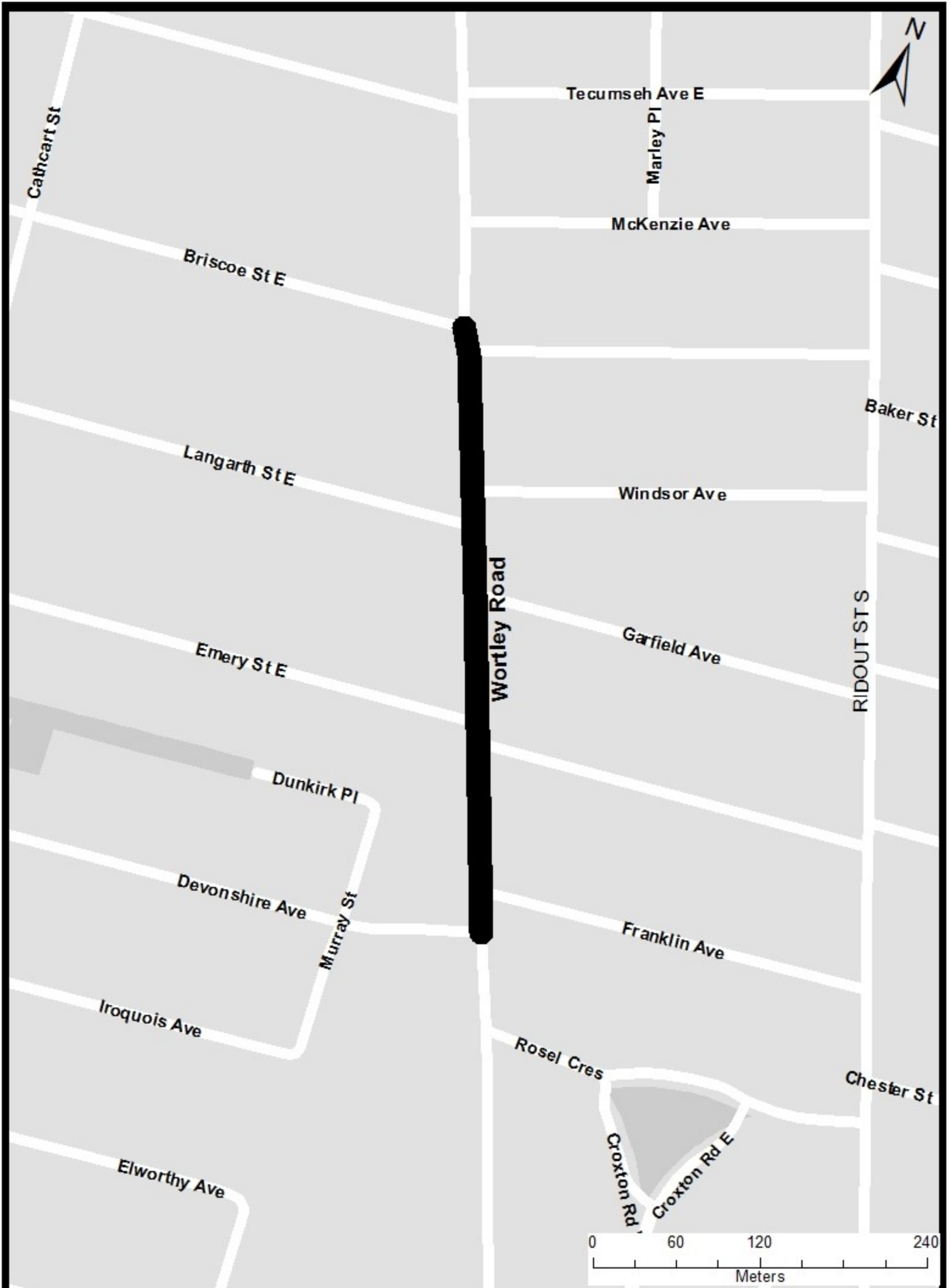




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2021 Infrastructure Renewal Program Assignment E

Wortley Road from Briscoe Street to Devonshire Avenue





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2021 Infrastructure Renewal Program Assignment F

Calgary Street from Churchill Avenue to Dundas Street

