

## Report to Civic Works Committee

**To:** Chair and Members  
Civic Works Committee

**From:** Kelly Scherr, P.Eng., MBA, FEC  
Deputy City Manager, Environment and Infrastructure

**Subject:** Appointment of Consulting Engineers for the Infrastructure  
Renewal Program

**Date:** June 1, 2021

## Recommendation

That on the recommendation of Deputy City Manager, Environment and Infrastructure, 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 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) Archibald, Gray & McKay Engineering Ltd **BE APPOINTED** consulting engineers to complete the pre-design, detailed design and construction administration of Assignment A, Hickson Avenue from Ridout Street to Belgrave Avenue and Belgrave Avenue from Hickson Avenue to Chester Street, in the total amount of \$407,616.00 (including contingency), excluding HST;
  - (ii) J.L. Richards & Associates Limited **BE APPOINTED** consulting engineers to complete the pre-design, and construction administration of Assignment C, Churchill Avenue from Spruce Street to Vancouver Street and Manitoba Street from Churchill Avenue to Dundas Street in the total amount of \$354,596.00 (including contingency), excluding HST;
  - (iii) GM Blueplan Engineering Limited **BE APPOINTED** consulting engineers to complete the pre-design, detailed design construction administration of Assignment D, Hansuld Street from Second Street to Dale Street and Dale Street from Hansuld Street to Second Street reconstruction, in the total amount of \$352,742.50 (including contingency), excluding HST;
  - (iv) Spriet Associates London Limited **BE APPOINTED** consulting engineers to complete the pre-design, detailed design and construction administration of Assignment F, St Julien Street from Major Street to Trafalgar Street, Hume Street from Major Street to Trafalgar Street and Major Street from Hyla Street to St Julien Street reconstruction, in the total amount of \$421,727.90 (including contingency), excluding HST;
- (b) the financing for this project **BE APPROVED** as set out in 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 project;
- (d) the approval given, herein, **BE CONDITIONAL** upon the Corporation entering into a formal contract; and
- (e) the Mayor and City Clerk **BE AUTHORIZED** to execute any contract or other documents, if required, to give effect to these recommendations.

## Executive Summary

### 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 2022. A detailed project information list, including timing and project limits, is contained in Appendix 'B'. Project location 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 \$11,500,000 of capital infrastructure.

## **Linkage to the Corporate Strategic Plan**

This recommendation supports the following 2019-2023 Strategic Plan areas of focus:

- Building a Sustainable City:
  - London's infrastructure is built, maintained, and operated to meet the long-term needs of our community by replacing aged and failing infrastructure with new materials and sizing new infrastructure to accommodate future development;
  - Londoners can move around the city safely and easily in a manner that meets their needs by incorporating cycling infrastructure and safety enhancements; and
  - London has a strong and healthy environment by incorporating stormwater management quantity and quantity controls to protect downstream waterways.

## **Analysis**

### **1.0 Background Information**

#### **1.1 Previous Reports Related to this Matter**

- CWC – May 28, 2018 – Revised Grouped Consultant Selection Process.

### **2.0 Discussion and Considerations**

#### **2.1 Work Description**

The Infrastructure Renewal Program 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 depends on the infrastructure components requiring rehabilitation or replacement. Full road reconstruction will be part of the overall projects.

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 four engineering design assignments as identified in Appendix 'B'. All the projects are scheduled for construction in 2022. 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 as identified in Appendix 'A', 'Sources of Financing'. 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: Summary of Project Assignments

Assignment	Street(s)	Consultant	Design Fee	Construction Administration Fee	Total Fee
A	Hickson Avenue/ Belgrave Avenue	Archibald, Gray & McKay Engineering Ltd	\$232,067.00	\$175,549.00	\$407,616.00
C	Churchill Street/ Manitoba Street	J.L. Richards & Associates Limited	\$181,566.00	\$173,030.00	\$354,596.00
D	Hansuld Street/ Dale Street	GM Blueplan Engineering Limited	\$148,973.00	\$203,769.50	\$352,742.50
F	St Julien Street/ Hume Street/ Major Street	Spriet Associates London Limited	\$159,111.70	\$262,616.20	\$421,727.90

### 3.0 Financial Impact/Considerations

#### 3.1 Procurement Process

The engineering consultant selection procedure for the 2022 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.

The first stage of the process is an open, publicly advertised Request for Qualifications. Statement of Qualifications submissions were received from a province wide group of nineteen prospective consultants. The Statement of Qualifications were evaluated by the Engineering and Infrastructure Service Area resulting in a short-list group of fifteen engineering consulting firms. This short-list of fifteen firms will be retained for a three-year period. After this period, the Request for Qualifications process will be initiated again.

The second stage of the process is a competitive Request for Proposal. Consultants from the short-listed group are invited to submit a formal proposal to undertake a specific engineering assignment. Three consultants were invited to submit a proposal for each of the identified project assignments.

An evaluation of the proposals was undertaken by the Engineering and Infrastructure Service Area, including both a technical and cost component. Engineering consultants are recommended based on their knowledge and understanding of project goals, their experience on directly related projects, their project team members, capacity and qualifications, and overall project fee.

The construction administration fee portion of the engineering consultant assignments is

included for those projects of lower complexity, and for projects where construction administration fees can be reasonably estimated prior to the start of the design. Including construction administration fees as part of the initial consultant assignment reduces the number of required reports to committee and reduces the time required to award the final construction contract. Construction administration fees are included in all the consultant assignments.

## **Conclusion**

Replacing infrastructure at the end of its lifecycle is essential to building a sustainable city. The recommended engineering consultant assignments for the 2022 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.

**Prepared by:** Aaron Rozentals, GDPA, P.Eng., Division Manager,  
Water Engineering

**Submitted by:** Scott Mathers, MPA, P.Eng., Director, Water,  
Wastewater, and Stormwater

**Recommended by:** Kelly Scherr, P.Eng., MBA, FEC, Deputy City Manager,  
Environment and Infrastructure

**CC:** D. Gough, C. Ginty, K. Chambers, A. Rammeloo

Appendix 'A' – Sources of Financing

Appendix 'B' – Project Information List

Appendix 'C' – Location Maps

**Appendix "A"**

**#21073**

June 1, 2021

(Appoint Consulting Engineers)

Chair and Members

Civic Works Committee

RE: Appointment of Consulting Engineers for the Infrastructure Renewal Program

(Subledger WS22C00A) Assignment A

(Subledger WS22C00C) Assignment C

(Subledger WS22C00D) Assignment D

(Subledger WS22C00F) Assignment F

Capital Project ES241421 - Infrastructure Renewal Program - Sanitary Sewers

Capital Project ES254021 - Infrastructure Renewal Program - Stormwater Sewers and Treatment

Capital Project EW376521 - Infrastructure Renewal Program - Watermains

Archibald, Gray and McKay Engineering Ltd. - \$407,616.00 (excluding HST) Assignment A

J.L. Richards and Associates Limited - \$354,596.00 (excluding HST) Assignment C

GM Blueplan Engineering Limited - \$352,742.50 (excluding HST) Assignment D

Spriet Associates London Limited - \$421,727.90 (excluding HST) Assignment F

**Finance Supports Report on the Sources of Financing:**

Finance Supports confirms that the cost of this project can be accommodated within the financing available for it in the Capital Budget and that, subject to the approval of the Deputy City Manager, Environment and Infrastructure, the detailed source of financing is:

<b>Estimated Expenditures</b>	<b>Approved Budget</b>	<b>Committed To This Date</b>	<b>This Submission</b>	<b>Balance for Future Work</b>
<b>ES241421 - Infrastructure Renewal Program - Sanitary Sewers</b>				
Engineering	2,000,000	456,384	469,119	1,074,497
Construction	11,615,864	7,919,984	0	3,695,880
Construction (Utilities Share)	116,098	116,098	0	0
City Related Expenses	25,000	0	0	25,000
<b>ES241421 Total</b>	<b>13,756,962</b>	<b>8,492,466</b>	<b>469,119</b>	<b>4,795,377</b>
<b>ES254021 - Infrastructure Renewal Program - Stormwater Sewers and Treatment</b>				
Engineering	1,181,696	449,961	469,120	262,615
Construction	8,762,880	8,762,880	0	0
City Related Expenses	100,000	0	0	100,000
<b>ES254021 Total</b>	<b>10,044,576</b>	<b>9,212,841</b>	<b>469,120</b>	<b>362,615</b>
<b>EW376521 - Infrastructure Renewal Program - Watermains</b>				
Engineering	2,500,000	431,184	625,490	1,443,326
Construction	13,719,930	8,089,247	0	5,630,683
<b>EW376521 Total</b>	<b>16,219,930</b>	<b>8,520,431</b>	<b>625,490</b>	<b>7,074,009</b>
<b>Total Expenditures</b>	<b>\$40,021,468</b>	<b>\$26,225,738</b>	<b>\$1,563,729</b>	<b>\$12,232,001</b>

**Sources of Financing**

**ES241421 - Infrastructure Renewal Program - Sanitary Sewers**

Capital Sewer Rates	9,140,864	6,126,368	469,119	2,545,377
Drawdown from Sewage Works Reserve Fund	2,250,000	0	0	2,250,000
Federal Gas Tax	2,250,000	2,250,000	0	0
Other Contributions (Utilities)	116,098	116,098	0	0
<b>ES241421 Total</b>	<b>13,756,962</b>	<b>8,492,466</b>	<b>469,119</b>	<b>4,795,377</b>

**Appendix "A"**

#21073

June 1, 2021

(Appoint Consulting Engineers)

Chair and Members

Civic Works Committee

RE: Appointment of Consulting Engineers for the Infrastructure Renewal Program

(Subledger WS22C00A) Assignment A

(Subledger WS22C00C) Assignment C

(Subledger WS22C00D) Assignment D

(Subledger WS22C00F) Assignment F

<b>ES254021 - Infrastructure Renewal Program - Stormwater Sewers and Treatment</b>	<b>Approved Budget</b>	<b>Committed To This Date</b>	<b>This Submission</b>	<b>Balance for Future Work</b>
Capital Sewer Rates	820,480	820,480	0	0
Drawdown from Sewage Works Reserve Fund	6,974,096	6,142,361	469,120	362,615
Federal Gas Tax	2,250,000	2,250,000	0	0
<b>ES254021 Total</b>	<b>10,044,576</b>	<b>9,212,841</b>	<b>469,120</b>	<b>362,615</b>
<b>EW376521 - Infrastructure Renewal Program - Watermains</b>				
Capital Water Rates	11,672,800	7,883,911	625,490	3,163,399
Drawdown from Capital Water Reserve Fund	3,910,610	0	0	3,910,610
Federal Gas Tax	636,520	636,520	0	0
<b>EW376521 Total</b>	<b>16,219,930</b>	<b>8,520,431</b>	<b>625,490</b>	<b>7,074,009</b>
<b>Total Financing</b>	<b>\$40,021,468</b>	<b>\$26,225,738</b>	<b>\$1,563,729</b>	<b>\$12,232,001</b>
<b>Financial Note: (Excluding HST)</b>	<b>ES241421</b>	<b>ES254021</b>	<b>EW376521</b>	<b>Total Excluding HST</b>
<b>Listed by Engineer and Contract</b>				
Archibald, Gray and McKay Engineering Ltd.	\$122,285	\$122,285	\$163,046	\$407,616
J.L. Richards and Associates Limited	106,379	106,379	141,838	354,596
GM Blueplan Engineering Limited	105,823	105,823	141,097	352,743
Spriet Associates London Limited	126,518	126,519	168,691	421,728
<b>Total Per Capital Project (Excluding HST)</b>	<b>\$461,005</b>	<b>\$461,006</b>	<b>\$614,672</b>	<b>\$1,536,683</b>
<b>Financial Note: (Including HST)</b>	<b>Total Including HST</b>			
<b>Listed by Engineer and Contract</b>				
Archibald, Gray and McKay Engineering Ltd.	\$414,790			
J.L. Richards and Associates Limited	360,837			
GM Blueplan Engineering Limited	358,951			
Spriet Associates London Limited	429,151			
<b>Total Per Capital Project (Including HST)</b>	<b>\$1,563,729</b>			
<b>Financial Note: Charges per Capital Project</b>	<b>ES241421</b>	<b>ES254021</b>	<b>EW376521</b>	<b>Total</b>
Contract Price	\$461,005	\$461,006	\$614,672	\$1,536,683
Add: HST @13%	59,931	59,931	79,907	199,769
Total Contract Price Including Taxes	520,936	520,937	694,579	1,736,452
Less: HST Rebate	-51,817	-51,817	-69,089	-172,723
Net Contract Price	\$469,119	\$469,120	\$625,490	<b>\$1,563,729</b>

## Appendix 'B' – Project Information List

Assignment <sup>1</sup>	Consultant	Street	From	To	Length (m)
A	Archibald, Gray & McKay Engineering Ltd	Hickson Avenue	Ridout Street	Belgrave Avenue	180
		Belgrave Avenue	Hickson Street	Chester Street	140
C	J.L. Richards & Associates Limited	Churchill Street	Spruce Street	Vancouver Street	375
		Manitoba Street	Churchill Street	Dundas Street	540
D	GM Blueplan Engineering Limited	Hansuld Street	Second Street	Dale Street	275
		Dale Street	Hansuld Street	Second Street	190
F	Spriet Associates London Limited	St Julien Street	Major Street	Trafalgar Street	165
		Hume Street	Major Street	Trafalgar Street	165
		Major Street	Hyla Street	Hume Street	210

<sup>1</sup>All listed project assignments are anticipated to be constructed in 2022.

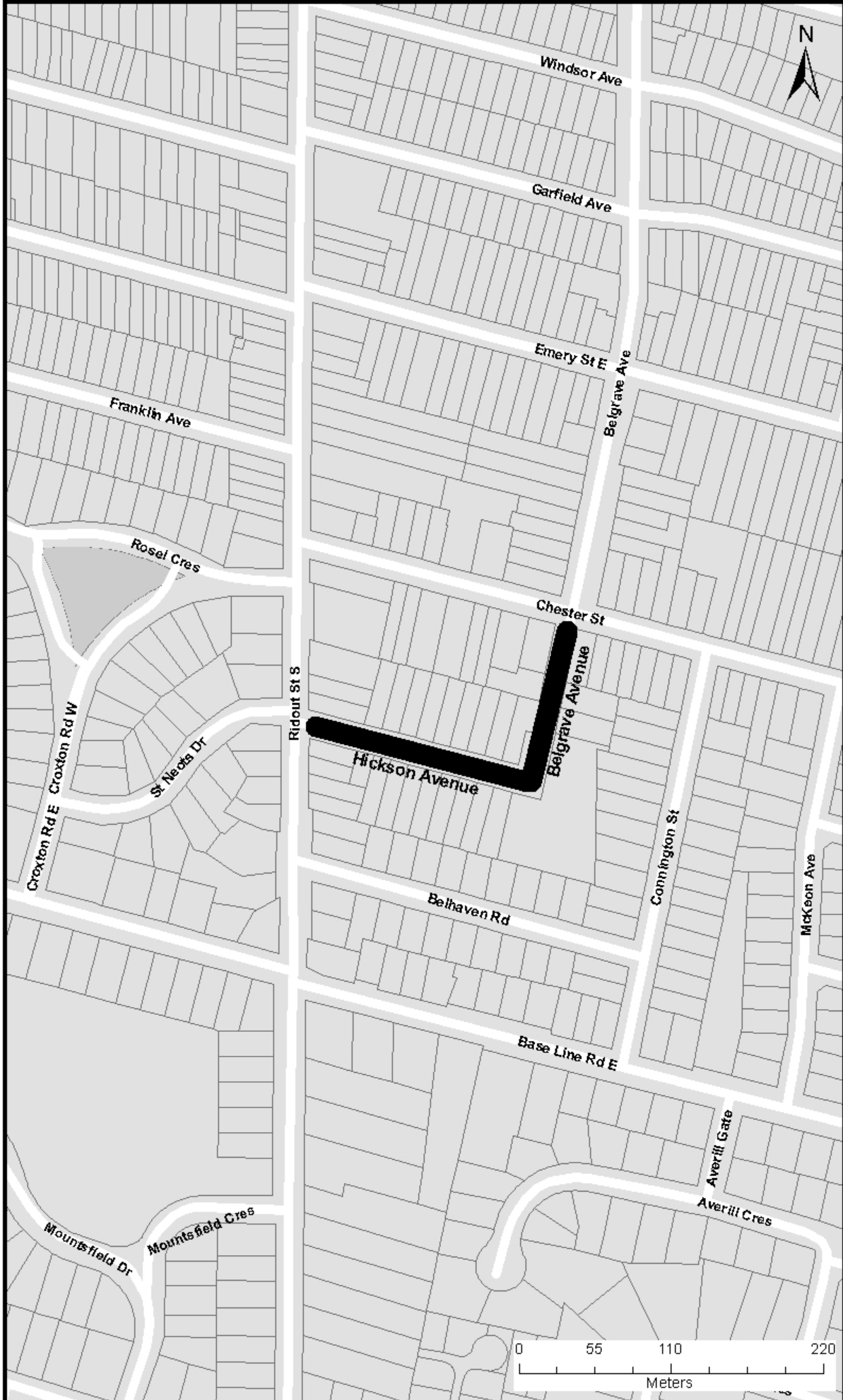
# Appendix 'C' – Location Maps 2022 Infrastructure Renewal Program

## Assignment A

### Project Limits:

Hickson Avenue from Ridout Street to Belgrave Avenue

Belgrave Avenue from Chester Street to Hickson Avenue

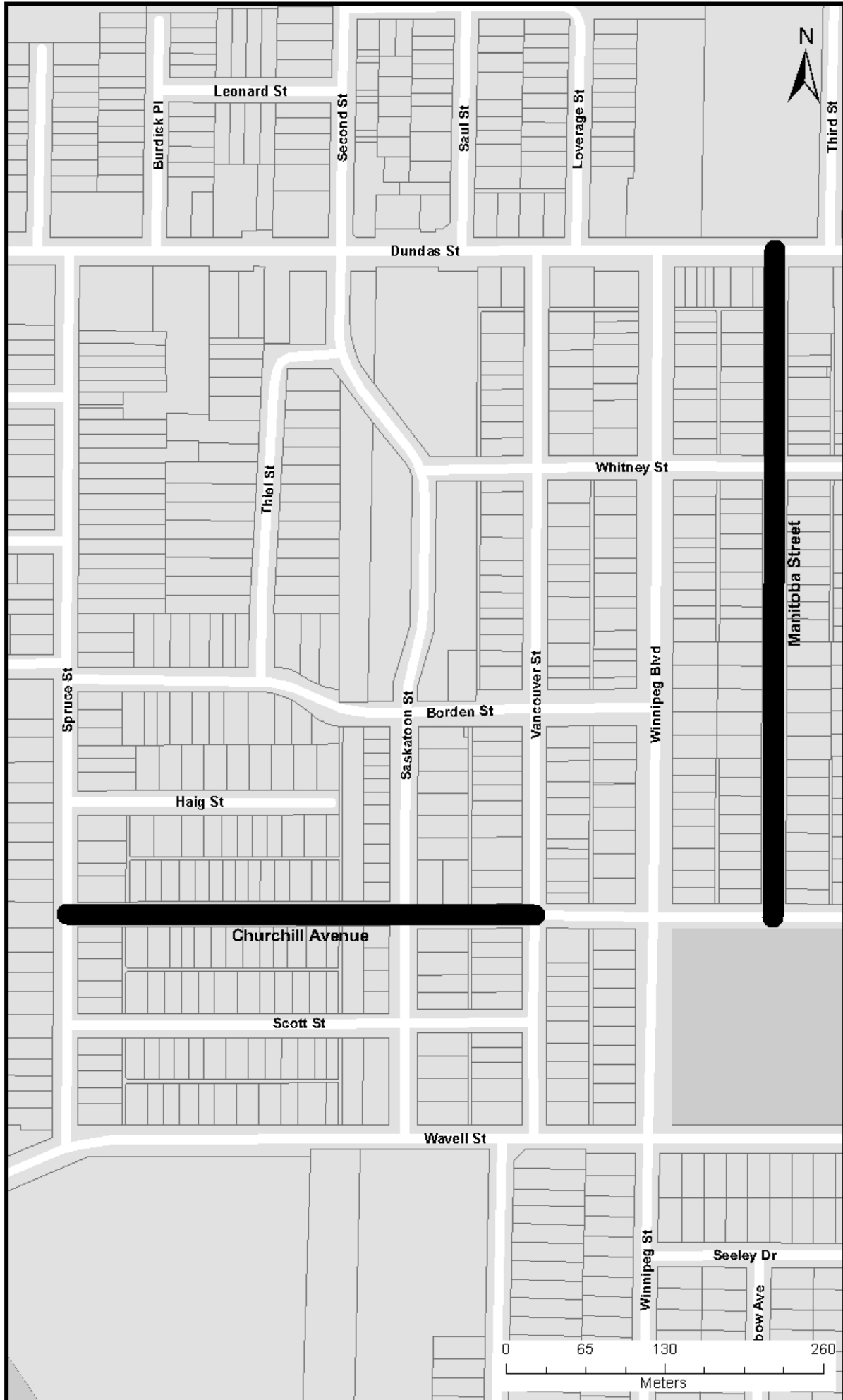




**Appendix 'C' – Location Maps**  
**2022 Infrastructure Renewal Program**  
**Assignment C**

**Project Limits:**

Churchill Avenue from Spruce Street to Vancouver Street  
Manitoba Street from Churchill Avenue to Dundas Street

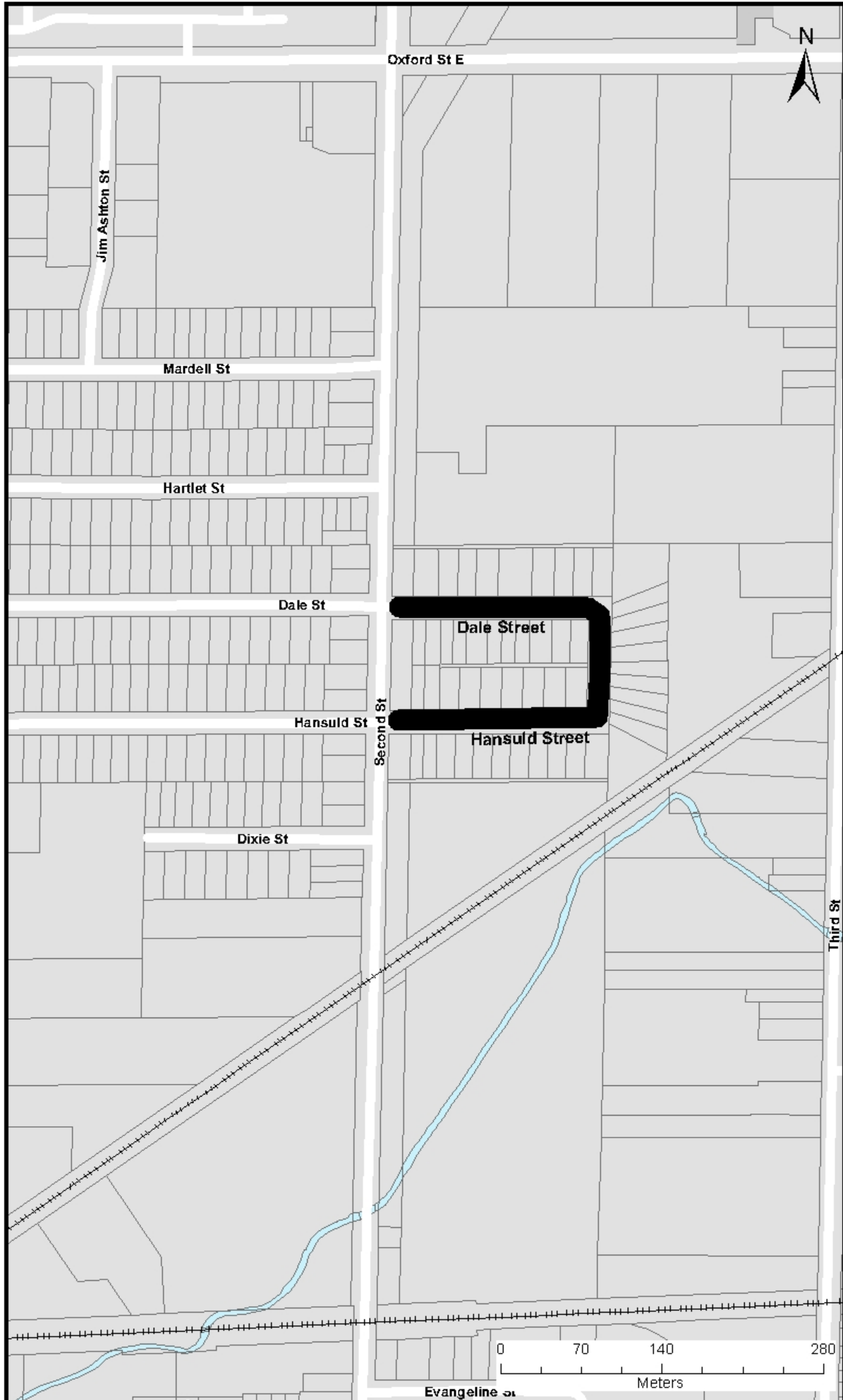


**Appendix 'C' – Location Maps**  
**2022 Infrastructure Renewal Program**

**Assignment D**

**Project Limits:**

Hansuld Street from Second Street to Dale Street  
Dale Street from Hansuld Street to Second Street



# Appendix 'C' – Location Maps 2022 Infrastructure Renewal Program

## Assignment F

### Project Limits:

Major Street from Hyla Street to Hume Street

Hume Street from Trafalgar Street to Major Street

St. Julien Street from Trafalgar Street to Major Street

