Public Report

To:	Safety and Facilities Services Committee
From:	Adam Grant, Commissioner, Safety and Facilities Services Department
Report Number:	SF-24-16
Date of Report:	April 10, 2024
Date of Meeting:	April 15, 2024
Subject:	Update Regarding Questions Related to the Link 3 Recreation Trail
Ward:	Ward 1
File:	03-05

1.0 Purpose

The purpose of this Report is to provide an update on questions regarding the Active Transportation Master Plan Link 3 Recreation Trail (Ward 1).

At its March 25, 2024 meeting Council passed the following motion as amended:

"That pursuant to Item SF-24-10, staff report to the next Committee meeting with available answers to the questions below related to the proposed Active Transportation Master Plan Link 3 recreation trail:

a. A map showing the actual trail design with elevation data, areas where guard rails or retaining walls between the creek and private property lines will be needed; and,

b. A map showing the trees which are in proximity to the private property lines and that were planted and tagged in the last decade for slope stability and the City identify which of the trees will need to cut down, and if any will be relocated or replaced; and,

c. A map showing the trail setbacks from the flood plan regulated area, and hazard and erosion areas; and,

d. The City's plan to ensure how the recurring flooding issues from both the creek and the Arborwood Storm Water Management Pond are to be addressed to mitigate adverse impacts to the trail infrastructure and residential properties in close proximity; and,

e. Has the City considered adding any planting necessary to increase privacy; and,

f. There are steep drop offs in some sections along the proposed trail area - which residential properties will need to have fill added behind them and the embankment regraded; and,

g. Has the City completed all necessary geotechnical investigations, given soil test contractors were on site Feb 22, 2024 digging holes or will there be more tests; and,

h. What is the expected construction start date; and,

i. Have any of the properties encroached in any way onto City property; and

j. Have there been any site alterations to any properties that have or may have a negative effect on City property."

Attachment 1 is the Harmony Creek Trail Extension preliminary design.

Attachment 2 is the Tree Inventory and Assessment Report.

2.0 Recommendation

That the Safety and Facilities Services Committee recommend to City Council:

That Report SF-24-16 Update Regarding Questions Related to the Link 3 Recreation Trail, dated April 10, 2024 be received for information.

3.0 Executive Summary

Not applicable.

4.0 Input From Other Sources

The following have been consulted in preparation of this Report:

- Corporate Leadership Team

5.0 Analysis

5.1 Background

The 2015 Active Transportation Management Plan (A.T.M.P.), identified Link 3 as a future trail development.

As part of the 2022 Budget deliberations, Council approved (Project 50-0016) for $250,000 to commence the design.

At its meeting of February 28, 2022, Council approved FIN-22-33 that T.M.P. Trail Link 3 – Taunton Part II Plan be endorsed for submission and consideration of partial funding from the Active Transportation Fund with Infrastructure Canada.

On December 22, 2022, Staff received comfirmation of approval in principal for the Project via letter correspondence from Minister of Intergovernmental Affairs, Infrastructure and Communities. The Program terms and conditions noted that Infrastructure Canada will support up to 60 percent of total eligible costs to a maximum federal contribution of $1,500,000.

The Minister's correspondence also noted that specific requirements outlined in a contribution agreement must be met prior to receiving payment of eligible costs.

The contribution agreement included payment conditions, reporting requirements, meeting schedules and communication protocols in addition to other terms and conditions.

Some of the additional conditions also identified included the following:

- A transparent and fair tendering process to the satisfactory of the Government of Canada;

- The City to confirm that all project funding, other than the federal contributions, has been secured prior to the Government of Canada paying eligible costs;

- The City to undertake consultation with Indigenous people

- The Project be completed by March 31, 2026

As part of 2023 Budget deliberations, Council subsequently approved additional funds of $1,000,000 to project 50-0016 for construction.

5.2 Response to Questions

Responses as noted to questions a. to j. inclusive are based on information currently available and these responses may be impacted as the design process continues to evolve and progress over the next several months.

Question	Response
a) A map showing the actual trail design with elevation data, areas where guard rails or retaining walls between the creek and private property lines will be needed;	As detailed design often changes based on varying authorities having jurisdiction during the approval process, the City does not share design for review as a public document. Please see concept/draft drawing provided as Attachement 1.
b) A map showing the trees which are in proximity to the private property lines and that were planted and tagged in the last decade for slope stability and the City identify which of the trees will need	Slopes are required to be stable irrespective of plantings. All trees identified for removal are young restoration plantings and are being propsed to be replaced at a minimum of 1:1 ratio. See Attachment 2.

to cut down, and if any will be relocated or replaced	
c) A map showing the trail setbacks from the flood plan regulated area, and hazard and erosion areas;	Flood lines, encroaching retaining walls and other erosion mitigation measures are shown on Attachment 1. Governing authorities such as Central Lake Ontario Conservation Authority (C.L.O.C.A) are required to provide review comments.
d) The City's plan to ensure how the recurring flooding issues from both the creek and the Arborwood Storm Water Management Pond are to be addressed to mitigate adverse impacts to the trail infrastructure and residential properties in close proximity	The design process includes an updated hydraulic analysis where negligible changes were noted. Part of the permit review with CLOCA is to ensure there are no flooding impacts.
e) Has the City considered adding any planting necessary to increase privacy	Reasonable efforts for screen plantings will be considered to accommodate where space permits.
f) There are steep drop offs in some sections along the proposed trail area - which residential properties will need to have fill added behind them and the embankment regraded	Stabilized re-graded sections of the slope are necessary and follow engineering design. Other governing agencies also provide review comments for consideration. The specific residential properties will be identified as the design advances. This is also a consideration in the permit process with CLOCA.
g) Has the City completed all necessary geotechnical investigations, given soil test contractors were on site Feb 22, 2024 digging holes or will there be more tests;	Subsurface investigations will be ongoing as necessary to support the design.
h) What is the expected construction start date;	This will depend on how the design advances. Targeting third quarter of 2024.
i) Have any of the properties encroached in any way onto City property	Investigating
j) Have there been any site alterations to any properties that have or may have a negative effect on City property	Investigating

6.0 Financial Implications

There are no financial implications directly related to this report.

7.0 Relationship to the Oshawa Strategic Plan

This Report is consistent the Oshawa Strategic Plan Goals of Accountable Leadership, Economic Prosperity and Financial Stewardship, Social Equity, Environmental Responsibility, and Cultural Vitality.

Randy Garey, Director,
Facilities Management Services

Adam Grant, Commissioner,
Safety and Facilities Services Department

HARMONY CREEK TRAIL EXTENSION

ESTERBROOK DRIVE TO CONLIN ROAD EAST

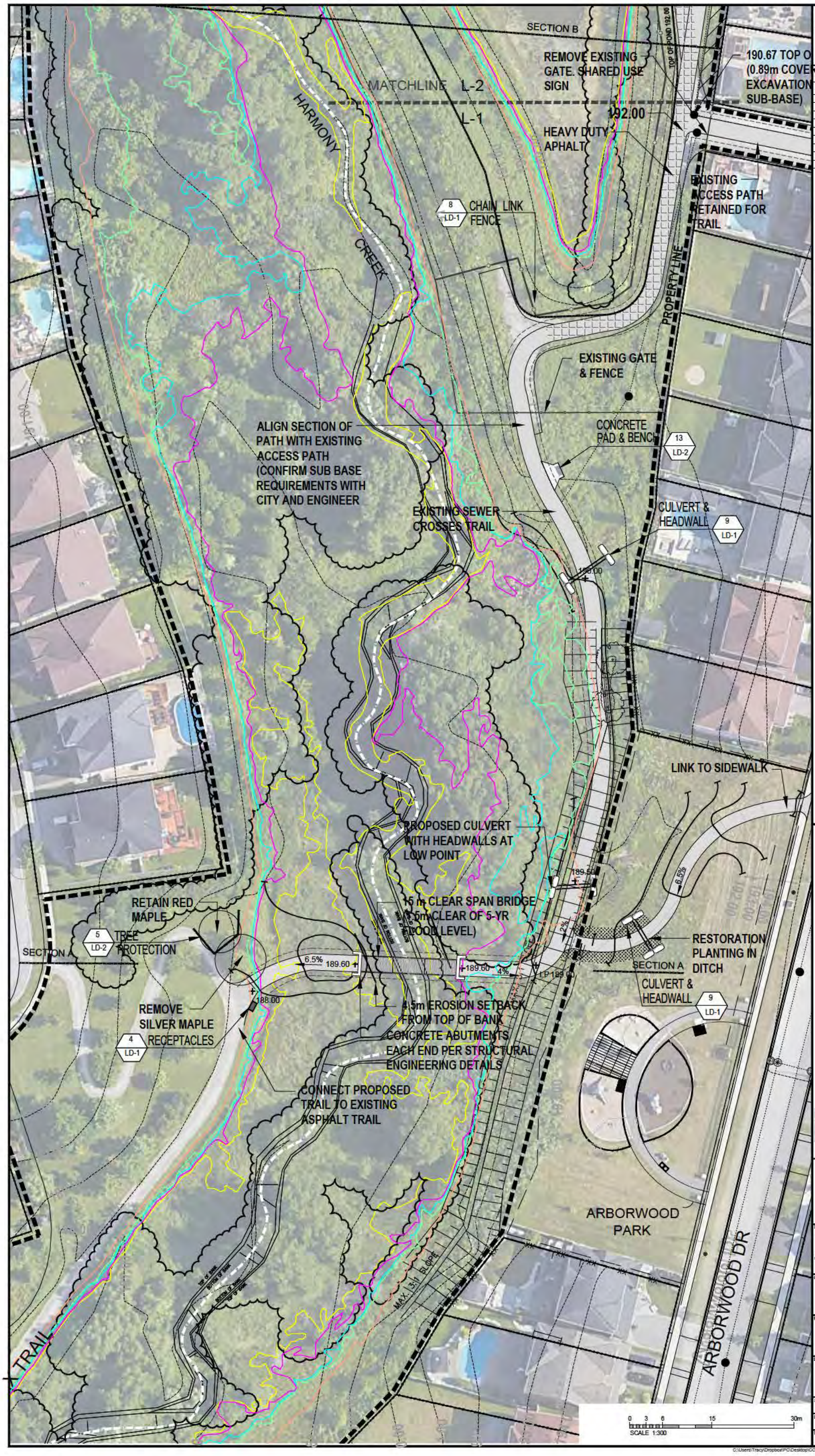
ISSUED FOR 30% REVIEW
2023-11-06

Client:

Oshawa
Prepare To Be Amazed

Consultant:

SCHOLLEN & Company Inc.
Richmond Hill, Ontario L4B 1B9
F: 289-695-0010



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3	Issued for 30% Review	2023/11/06	MH

LEGEND

- EXISTING CONTOUR
- WATERCOURSE
- PROPERTY BOUNDARY
- STORM SEWER
- REGIONAL GRAVITY MAIN
- EXISTING ASPHALT TRAIL
- WOODED AREA & SHRUB THICKET_SCI-INTERPOLATED
- PROJECT AREA
- STREETLIGHTS
- SLOPE
- PROPOSED ARMOURSTONE RETAINING WALL
- PROPOSED BRIDGE
- PROPOSED 1.0 m CLEAR ZONE
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- PROPOSED SHRUB PLANTING
- EXISTING CHAIN LINK FENCE
- PROPOSED REALIGNED CHAIN LINK FENCE
- PROPOSED CEDAR POST AND PADDLE GUARD RAIL

KEYPLAN
N.T.S.

Drawing Prepared By:
SCHOLLEN & Company Inc.
Richmond Hill, Ontario L4B 1B9
F: 289-695-0010

Client: Oshawa Prepare To Be Amazed

Project Name:
ESTERBROOK DR. TO CONLIN RD. E. TRAIL
OSHAWA, ON

Drawing Title:
ENLARGEMENT PLAN

Scale:	Project No.:	Drawing No.:
1:300	2023031	L1
Drawn: CT	Checked: RMS	
Date: August 2023	Plot Date: 08/11/2023	

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SECTION C

192.00

REMOVE SECTION OF FENCE FOR NEW FENCE

RE-GRADE TO FACILITATE AODA COMPLIANT TRAIL (5% SLOPE)

NEW FENCE

192.00

SECTION G

MATCHLINE L-3

L-2

190.16 TOP OF SEWER PIPE (1.4m COVER TO BOTTOM OF EXCAVATION OF TRAIL SUB-BASE)

EN PLANTING AS MAY BE NECESSARY TO INCREASE PRIVACY

EX. SWM PO D

SECTION B

TOP OF POND 192.00

REMOVE EXISTING GATE. SHARED USE SIGN

190.67 TOP OF SEWER PIPE (0.89m COVER TO BOTTOM OF EXCAVATION OF TRAIL SUB-BASE)

MATCHLINE L-2

L-1

192.00

HEAVY DUTY APHALT

HARMONY

CREEK

8 LD-1 CHAIN LINK FENCE

EXISTING ACCESS PATH RETAINED FOR TRAIL

PROPERTY LINE

EXISTING GATE & FENCE

ALIGN SECTION OF PATH WITH EXISTING S PATH

RM SUB BASE

CONCRETE PAD & BENC

13 LD-2

E E E T T

0 3 6 15 30m

SCALE 1:300

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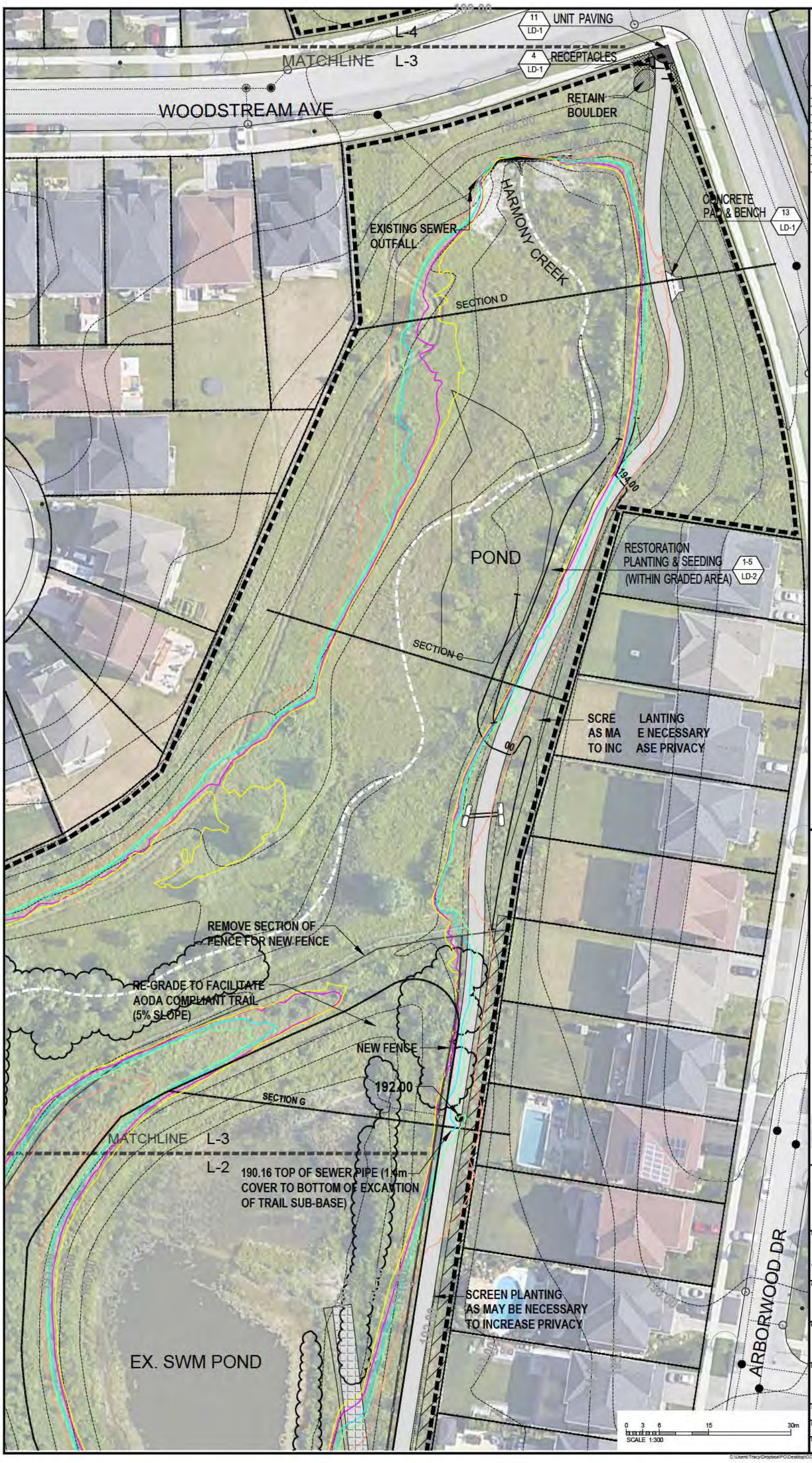

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MATCHLINE L-5

L-4

STEEP DROP OFF MAY REQUIRE GUARD RAIL (I.E. CEDAR POST AND PADDLE RAILING)

SECTION E

SECTION OF TRAIL REQUIRES RE-GRADING AT EMBANKEMENT. SUBJECT TO GEOTECHNICAL INVESTIGATION

201.00

200.00

HARMONY REEK

ASPHALT TRAIL (BLVD) 1 LD-2

ARBORWOOD DR

6 LD-1 ARMOURSTONE RETAINING WALL

EX. LIGHT POLE

10 LD-1 POST & PADDLE RAILING

TRAIL WITHIN RIGHT OF WAY

TRAFFIC STUDY TO DETERMINE DESIGN ENHANCEMENTS TO INTERSECTION TO FACILITATE TRAIL CROSSING

OFFSET GATES 5 LD-1

LOW SHRUB PLANTING (PRESERVE SIGHTLINES)

WAYFINDING SIGNAGE

11 LD-1 UNIT PAVING

4 LD-1 RECEPTACLES

L-4

MATCHLINE L-3

RETAIN BOULDER

WOODSTREAM AVE

0 3 6 15 30m

SCALE 1:300

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Drawing Title:
ENLARGEMENT PLAN

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CONLIN RD E

REGIONAL WATERLINE

INSTALL TEMPORARY CONCRETE BARRIER TO CLOSE TRAIL TO ACCESS

REGIONAL GRAVITY MAIN

SCREEN PLANTING AS MAY BE NECESSARY TO INCREASE PRIVACY

SECTION F

HARMONY CREEK

WAYFINDING SIGN

SECTION OF TRAIL THROUGH REGIONAL UTILITY EASEMENT. CONFIRM EASEMENT. APPROVAL REQUIRED

HUNKING DR

ARBORWOOD DR

10 LD-1 POST & PADDLE RAILING

SECTION H

ARM RSTON WA UE TO HT FIT BE EEN CRE AND PRIVATE P ERTY LIN 9m HT MAX))

6 LD-1 ARMOURSTONE RETAINING WALL

SCREEN PLANTING AS MAY BE NECESSARY TO INCREASE PRIVACY

MATCHLINE L-5

L-4

STEEP DROP OFF MAY REQUIRE GUARD RAIL (I.E. CEDAR POST AND PADDLE RAILING)

SECTION E

SECTION OF TRAIL REQUIRES RE-GRADING AT EMBANKEMENT. SUBJECT TO GEOTECHNICAL INVESTIGATION

MAGEE ST

0 3 6 15 30m
SCALE 1:300

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CITY OF OSHAWA - ESTERBROOK TO CONLIN TRAIL
TREE INVENTORY AND ASSESSMENT REPORT

OSHAWA, ON

Prepared by:

Anson Tam
ISA Certified arborist, HK-1870A

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Prepared on: January 30, 2024

SCI Project No.: 2023031

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Table of Contents

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1.0 INTRODUCTION

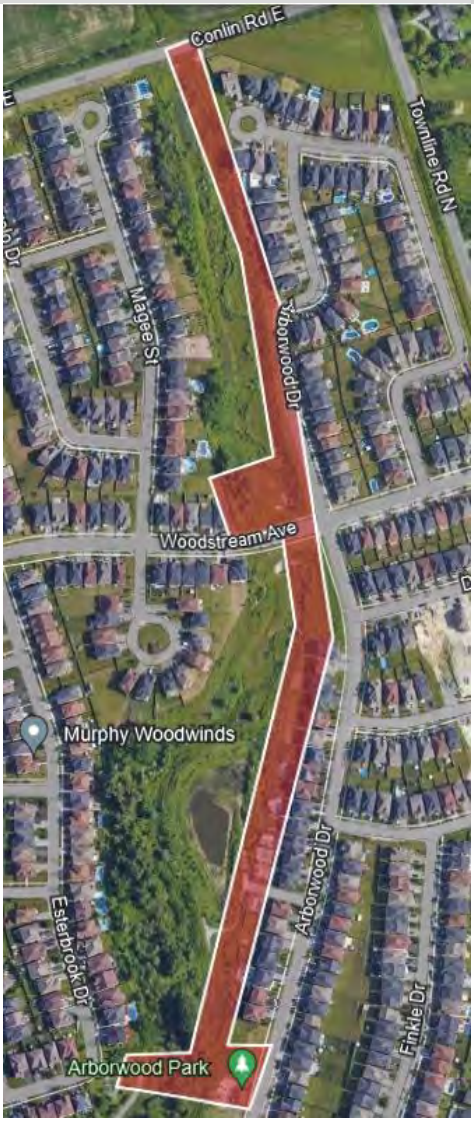

FIGURE 1 – STUDY AREA

Schollen & Company Inc. was retained by the City of Oshawa to complete an inventory of the trees that are contained within, and located immediately surrounding the proposed recreational trail from Esterbrook Drive to Conlin Road East, west to Arborwood Drive. The Study Area is a greening area within a residential zone, with streams connecting the ponds and swamp from the north to the south. The greening area is split by east-west Woodstream Ave.

The subject lands that comprise the Study Area encompass approximately 3.2 hectares. The inventory has been prepared in support of an application for planning approvals to facilitate the redevelopment of the site.

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2.0 METHODOLOGY

The methodology for completing the tree inventory comprised the following steps:

- All trees within 5 meters of the proposed recreational trail were assessed on an individual basis by species, size and condition. Trees that are located on adjacent lands were reviewed to determine appropriate tree protection measures where required. All trees with a Diameter at Breast Height (DBH) of 5cm or over were inventoried for this assessment.

The Tree Inventory & Assessment Report and all associated field work was completed by an ISA Certified Arborist. The Tree Inventory was conducted on October 25 and 26, 2023.

The report includes the corresponding appendices, including the Tree Inventory & Assessment Matrix (Appendix A), Tree Inventory Plans – Tree Inventory Plans TI-01 through TI-10 (Appendix B), and Tree Inventory Photo Sheet (Appendix C).

The report provides a description, as well as specific comments related to the condition of each tree. Individual photos of each tree will also be provided.

A survey of the Study Area was provided that illustrates the location of trees in relation to existing buildings, structures, roads and property boundaries. This survey was utilized to create the Tree Inventory Plans TI-01 through TI-10. The Tree Inventory Plans identify each tree that was inventoried.

The following summary of the assessment describes the findings of the inventory. Refer to the corresponding drawings, Tree Inventory Plans TI-01 through TI-10 for an illustration of the location of the existing trees. Refer to the Tree Inventory & Assessment Matrix for the condition related to each tree.

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3.0 SUMMARY OF ASSESSMENT

3.1 Observations

Trees in Study Area are mixed with newly planted ornamental species and young trees emerged from nearby woodland. One tree (Tree 1794) was found as standing dead tree. No endangered tree species was found within the Study Area.

General Composition

A total of 121 trees were inventoried. The following table provides a general description of the vegetation units found within, and immediately surrounding the Study Area. Refer to the Tree Inventory & Assessment Matrix for a detailed summary of the inventory and assessment.

Species		Size Range	Average condition	Composition (%
Botanical name	Common name	(DBH in cm)		of Inventoried Trees)
Acer × freemanii	Freeman's maple	7.5 - 22.5	Good / Satisfactory	5 (4%)
Acer saccharinum	Silver maple	7 - 23.5	Good / Satisfactory	24 (20%)
Acer saccharum	Sugar maple	6.5 – 15	Good / Satisfactory	24 (20%)
Larix laricina	Tamarack	9	Good	1 (1%)
Picea abies	Norway spruce	10 - 16	Good	5 (4%)
Populus deltoides	Eastern cottonwood	6 - 19	Good / Satisfactory	13 (11%)
Populus tremuloides	Trembling aspen	6 - 9	Good	8 (7%)
Quercus macrocarpa	Bur oak	6 – 9.5	Good	16 (13%)
Salix alba	White willow	6.5 – 25.5	Satisfactory / Potential trouble	19 (16%)
Thuja occidentalis	Eastern white-cedar	5.5 - 9	Satisfactory	5 (4%)
-	Dead tree	7.5	Dead	1 (1%)

Table 1: Summary of Tree Inventory

Refer to the Tree Inventory & Assessment Matrix and Tree Inventory Photo Sheets for the conditions of individual tree. The following provides a summary of the key findings of the inventory and assessment process:

- 74 trees (61%) were assigned a condition rating of 'Good.'
- 27 trees (22%) were assigned a condition rating of 'Satisfactory.'
- 19 trees (16%) were assigned a condition rating of 'Potential trouble.'
- 1 tree (1%) was found dead.

Appendix A

Tree Inventory and Assessment Matrix

SCHOLLEN & Company Inc.

City of Oshawa - Esterbrook to Conlin Trail - Tree Inventory & Assessment Matrix

PROJECT NO. 2023031

LEGEND

(l): low, **(m):** moderate, **(h):** high severity

****Condition Ratings:** Good, Satisfactory, Potential Trouble, Declining, Death Imminent, Dead

*****DBH:** Diameter at Breast Height (1.4m off finished grade).

******Cumulative DBH:** Calculated using square root of all stems squared on multi-stemmed trees. Used to determine TPZ of multi-stemmed trees.

Tree Tag No.	Species		Condition Rating **	DBH of Ind. Stems(cm)***	Cumulative DBH (cm)****	Approx. Canopy Width (m)	Notes	Date of Assessment
	Botanical Name	Common Name						
1680	*Populus deltoides*	Eastern cottonwood	Good	6	-	3	Young tree	2023-10-26
1681	*Salix alba*	White willow	Good	13	-	3	Young tree	2023-10-26
1682	*Populus deltoides*	Eastern cottonwood	Satisfactory	15.5	-	3	Young tree, leaning (l)	2023-10-26
1683	*Salix alba*	White willow	Satisfactory	10, 9	13.5	4	Young tree, co-dominant trunks, leaning (l)	2023-10-26
1684	*Populus deltoides*	Eastern cottonwood	Good	9.5	-	3	Young tree	2023-10-26
1685	*Populus deltoides*	Eastern cottonwood	Good	11	-	3	Young tree	2023-10-26
1686	*Acer saccharum*	Sugar maple	Potential trouble	15	-	4	Young tree, on slope, multiple attachments, included bark	2023-10-26
1687	*Salix alba*	White willow	Potential trouble	16, 12	20	5	Young tree, co-dominant trunks, included bark	2023-10-26
1688	*Populus deltoides*	Eastern cottonwood	Good	19	-	4	Young tree	2023-10-26
1689	*Acer saccharum*	Sugar maple	Good	10.5	-	3	Young tree, on slope	2023-10-26
1690	*Acer × freemanii*	Freeman's maple	Satisfactory	10	-	3	Young tree, on slope, wound at trunk base (l)	2023-10-26
1691	*Acer saccharinum*	Silver maple	Good	13.5	-	3	Young tree, on slope	2023-10-26
1692	*Acer saccharinum*	Silver maple	Good	15	-	4	Young tree, on slope	2023-10-26
1693	*Populus deltoides*	Eastern cottonwood	Satisfactory	12.5	-	3	Young tree, on slope, leaning (l)	2023-10-26
1694	*Acer saccharinum*	Silver maple	Good	13	-	4	Young tree, on slope	2023-10-26
1695	*Acer saccharinum*	Silver maple	Good	13	-	4	Young tree, on slope	2023-10-26
1696	*Acer saccharinum*	Silver maple	Good	14.5	-	4	Young tree, on slope	2023-10-26
1697	*Acer saccharinum*	Silver maple	Good	10	-	3	Young tree, on slope	2023-10-26
1698	*Acer saccharum*	Sugar maple	Satisfactory	12	-	3	Young tree, on slope, low branching (l)	2023-10-26
1699	*Acer saccharum*	Sugar maple	Potential trouble	13	-	4	Young tree, on slope, multiple attachments, included bark	2023-10-26

SCHOLLEN & Company Inc.

City of Oshawa - Esterbrook to Conlin Trail - Tree Inventory & Assessment Matrix

PROJECT NO. 2023031

LEGEND

(l): low, **(m):** moderate, **(h):** high severity

****Condition Ratings:** Good, Satisfactory, Potential Trouble, Declining, Death Imminent, Dead

*****DBH:** Diameter at Breast Height (1.4m off finished grade).

******Cumulative DBH:** Calculated using square root of all stems squared on multi-stemmed trees. Used to determine TPZ of multi-stemmed trees.

Tree Tag No.	Species		Condition Rating **	DBH of Ind. Stems(cm)***	Cumulative DBH (cm)****	Approx. Canopy Width (m)	Notes	Date of Assessment
	Botanical Name	Common Name						
1700	*Acer saccharum*	Sugar maple	Good	11	-	4	Young tree, on slope	2023-10-26
1701	*Acer saccharum*	Sugar maple	Good	7	-	2	Young tree, on slope	2023-10-26
1702	*Acer saccharum*	Sugar maple	Satisfactory	9	-	3	Young tree, on slope, low branching (l)	2023-10-26
1703	*Acer saccharum*	Sugar maple	Good	10.5	-	3	Young tree, on slope	2023-10-26
1704	*Quercus macrocarpa*	Bur oak	Good	6	-	2	Young tree, on slope	2023-10-26
1705	*Quercus macrocarpa*	Bur oak	Satisfactory	8	-	2	Young tree, on slope, co-dominant leaders	2023-10-26
1706	*Quercus macrocarpa*	Bur oak	Good	8	-	3	Young tree, on slope	2023-10-26
1707	*Acer saccharum*	Sugar maple	Good	10	-	3	Young tree, on slope, bird nest	2023-10-26
1708	*Acer saccharum*	Sugar maple	Potential trouble	11	-	3	Young tree, on slope, multiple attachments, included bark	2023-10-26
1709	*Acer saccharum*	Sugar maple	Good	15	-	4	Young tree, on slope	2023-10-26
1710	*Acer saccharum*	Sugar maple	Potential trouble	12.5	-	4	Young tree, on slope, co-dominant leaders, included bark	2023-10-26
1711	*Acer saccharum*	Sugar maple	Good	13	-	3	Young tree, on slope	2023-10-26
1712	*Acer saccharum*	Sugar maple	Good	11.5	-	3	Young tree, on slope	2023-10-26
1713	*Acer saccharinum*	Silver maple	Good	15	-	4	Young tree, on slope	2023-10-26
1714	*Acer saccharinum*	Silver maple	Good	14	-	4	Young tree, on slope	2023-10-26
1715	*Acer saccharinum*	Silver maple	Satisfactory	13.5	-	4	Young tree, on slope, multiple attachments	2023-10-26
1716	*Acer saccharinum*	Silver maple	Satisfactory	11	-	4	Young tree, on slope, low branching (l)	2023-10-26
1717	*Quercus macrocarpa*	Bur oak	Good	9.5	-	2	Young tree	2023-10-26
1718	*Quercus macrocarpa*	Bur oak	Good	8	-	2	Young tree	2023-10-26
1719	*Quercus macrocarpa*	Bur oak	Good	7.5	-	2	Young tree	2023-10-26

SCHOLLEN & Company Inc.

City of Oshawa - Esterbrook to Conlin Trail - Tree Inventory & Assessment Matrix

PROJECT NO. 2023031

LEGEND

(l): low, **(m):** moderate, **(h):** high severity

****Condition Ratings:** Good, Satisfactory, Potential Trouble, Declining, Death Imminent, Dead

*****DBH:** Diameter at Breast Height (1.4m off finished grade).

******Cumulative DBH:** Calculated using square root of all stems squared on multi-stemmed trees. Used to determine TPZ of multi-stemmed trees.

Tree Tag No.	Species		Condition Rating **	DBH of Ind. Stems(cm)***	Cumulative DBH (cm)****	Approx. Canopy Width (m)	Notes	Date of Assessment
	Botanical Name	Common Name						
1720	*Acer saccharum*	Sugar maple	Good	8	-	2	Young tree, on slope	2023-10-26
1721	*Acer saccharum*	Sugar maple	Good	11	-	3	Young tree, on slope	2023-10-26
1722	*Quercus macrocarpa*	Bur oak	Good	9.5	-	2	Young tree	2023-10-26
1723	*Quercus macrocarpa*	Bur oak	Good	9.5	-	2	Young tree	2023-10-26
1724	*Acer saccharum*	Sugar maple	Good	12	-	3	Young tree	2023-10-26
1725	*Acer × freemanii*	Freeman's maple	Good	10	-	3	Young tree	2023-10-26
1726	*Quercus macrocarpa*	Bur oak	Good	7	-	2	Young tree	2023-10-25
1727	*Quercus macrocarpa*	Bur oak	Good	7.5	-	2	Young tree	2023-10-25
1728	*Quercus macrocarpa*	Bur oak	Potential trouble	6	-	2	Young tree, leaning (l), beaning trunk (m)	2023-10-25
1729	*Quercus macrocarpa*	Bur oak	Good	7.5	-	1	Young tree	2023-10-25
1730	*Quercus macrocarpa*	Bur oak	Good	7	-	2	Young tree	2023-10-25
1731	*Quercus macrocarpa*	Bur oak	Good	7	-	2	Young tree	2023-10-25
1732	*Quercus macrocarpa*	Bur oak	Potential trouble	6.5	-	2	Young tree, leaning (l), beaning trunk (m)	2023-10-25
1733	*Populus deltoides*	Eastern cottonwood	Potential trouble	6.5	-	2	Young tree, poor taper (m)	2023-10-25
1734	*Salix alba*	White willow	Potential trouble	6.5	-	2	Young tree, poor taper (m)	2023-10-25
1735	*Salix alba*	White willow	Satisfactory	12, 11	16	4	Young tree, co-dominant trunks	2023-10-25
1736	*Populus deltoides*	Eastern cottonwood	Potential trouble	9.5	-	2	Young tree, poor taper (m)	2023-10-25
1737	*Salix alba*	White willow	Potential trouble	7	-	2	Young tree, poor taper (m)	2023-10-25
1738	*Salix alba*	White willow	Satisfactory	7.5	-	2	Young tree, poor taper (l)	2023-10-25
1739	*Salix alba*	White willow	Satisfactory	9, 8, 7	14	4	Young tree, multiple stems	2023-10-25

SCHOLLEN & Company Inc.

City of Oshawa - Esterbrook to Conlin Trail - Tree Inventory & Assessment Matrix

PROJECT NO. 2023031

LEGEND

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****Condition Ratings:** Good, Satisfactory, Potential Trouble, Declining, Death Imminent, Dead

*****DBH:** Diameter at Breast Height (1.4m off finished grade).

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Tree Tag No.	Species		Condition Rating **	DBH of Ind. Stems(cm)***	Cumulative DBH (cm)****	Approx. Canopy Width (m)	Notes	Date of Assessment
	Botanical Name	Common Name						
1740	*Salix alba*	White willow	Good	10	-	2	Young tree	2023-10-25
1741	*Salix alba*	White willow	Potential trouble	9.5, 8.5	12.5	3	Young tree, co-dominant trunks, included bark	2023-10-25
1742	*Salix alba*	White willow	Satisfactory	11	-	3	Young tree, leaning (l)	2023-10-25
1743	*Salix alba*	White willow	Good	16.5	-	4	-	2023-10-25
1744	*Salix alba*	White willow	Potential trouble	16, 10, 9, 6	21.5	5	Young tree, multiple stems, included bark	2023-10-25
1745	*Acer saccharinum*	Silver maple	Good	7	-	2	Young tree	2023-10-25
1746	*Acer saccharinum*	Silver maple	Good	13.5	-	4	Young tree	2023-10-25
1747	*Acer × freemanii*	Freeman's maple	Good	15	-	4	Young tree	2023-10-25
1748	*Acer × freemanii*	Freeman's maple	Satisfactory	7.5	-	2	Young tree, low branching (l)	2023-10-25
1749	*Acer saccharinum*	Silver maple	Good	12	-	3	Young tree	2023-10-25
1750	*Quercus macrocarpa*	Bur oak	Good	6.5	-	2	Young tree	2023-10-25
1751	*Acer saccharum*	Sugar maple	Potential trouble	13	-	2	Young tree, on slope, co-dominant leaders, included bark	2023-10-25
1752	*Populus tremuloides*	Trembling aspen	Satisfactory	7	-	2	Young tree, leaning (m)	2023-10-25
1753	*Populus tremuloides*	Trembling aspen	Good	6	-	2	Young tree	2023-10-25
1754	*Salix alba*	White willow	Potential trouble	9, 7.5	11.5	2	Young tree, co-dominant trunks, included bark, poor taper	2023-10-25
1755	*Acer saccharinum*	Silver maple	Satisfactory	11	-	2	Young tree, co-dominant leaders, wound on trunk (l)	2023-10-25
1756	*Populus tremuloides*	Trembling aspen	Good	6.5	-	2	Young tree	2023-10-25
1757	*Populus tremuloides*	Trembling aspen	Good	6.5	-	2	Young tree	2023-10-25
1758	*Populus tremuloides*	Trembling aspen	Good	9	-	2	Young tree	2023-10-25
1759	*Populus tremuloides*	Trembling aspen	Satisfactory	8	-	2	Young tree, leaning (l)	2023-10-25

SCHOLLEN & Company Inc.

City of Oshawa - Esterbrook to Conlin Trail - Tree Inventory & Assessment Matrix

PROJECT NO. 2023031

LEGEND

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****Condition Ratings:** Good, Satisfactory, Potential Trouble, Declining, Death Imminent, Dead

*****DBH:** Diameter at Breast Height (1.4m off finished grade).

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Tree Tag No.	Species		Condition Rating **	DBH of Ind. Stems(cm)***	Cumulative DBH (cm)****	Approx. Canopy Width (m)	Notes	Date of Assessment
	Botanical Name	Common Name						
1760	*Populus tremuloides*	Trembling aspen	Good	7.5	-	2	Young tree	2023-10-25
1761	*Salix alba*	White willow	Potential trouble	14, 9	16.5	3	Young tree, co-dominant trunks, included bark	2023-10-25
1762	*Larix laricina*	Tamarack	Good	9	-	3	Young tree	2023-10-25
1763	*Thuja occidentalis*	Eastern white-cedar	Satisfactory	7, 4, 3	8.5	3	Young tree, multiple stems	2023-10-25
1764	*Thuja occidentalis*	Eastern white-cedar	Satisfactory	7, 5	8.5	3	Young tree, co-dominant trunks	2023-10-25
1765	*Thuja occidentalis*	Eastern white-cedar	Satisfactory	6, 4, 3	8	3	Young tree, multiple stems	2023-10-25
1766	*Picea abies*	Norway spruce	Good	16	-	3	Young tree	2023-10-25
1767	*Picea abies*	Norway spruce	Good	15	-	3	Young tree	2023-10-25
1768	*Picea abies*	Norway spruce	Good	14	-	3	Young tree	2023-10-25
1769	*Thuja occidentalis*	Eastern white-cedar	Satisfactory	5, 2, 2	5.5	2	Young tree, multiple stems	2023-10-25
1770	*Thuja occidentalis*	Eastern white-cedar	Good	9	-	2	Young tree	2023-10-25
1771	*Picea abies*	Norway spruce	Good	10	-	2	Young tree, close to pond	2023-10-25
1772	*Picea abies*	Norway spruce	Good	13	-	2	Young tree, close to pond	2023-10-25
1773	*Acer saccharinum*	Silver maple	Satisfactory	17.5	-	4	Young tree, low branching (l)	2023-10-25
1774	*Acer saccharinum*	Silver maple	Potential trouble	17	-	4	Young tree, co-dominant leaders, included bark	2023-10-25
1775	*Acer saccharinum*	Silver maple	Satisfactory	18	-	5	Young tree, low branching (m)	2023-10-25
1776	*Acer saccharinum*	Silver maple	Satisfactory	14	-	4	Young tree, low branching (l)	2023-10-25
1777	*Acer saccharinum*	Silver maple	Good	15	-	3	Young tree	2023-10-25
1778	*Acer saccharinum*	Silver maple	Satisfactory	12	-	3	Young tree, wound on trunk (m)	2023-10-25
1779	*Acer saccharinum*	Silver maple	Good	17	-	3	Young tree, bird nest	2023-10-25

SCHOLLEN & Company Inc.

City of Oshawa - Esterbrook to Conlin Trail - Tree Inventory & Assessment Matrix

PROJECT NO. 2023031

LEGEND

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Tree Tag No.	Species		Condition Rating **	DBH of Ind. Stems(cm)***	Cumulative DBH (cm)****	Approx. Canopy Width (m)	Notes	Date of Assessment
	Botanical Name	Common Name						
1780	*Acer saccharinum*	Silver maple	Good	13.5	-	3	Young tree	2023-10-25
1781	*Salix alba*	White willow	Potential trouble	14.5, 12.5, 9, 6.5	22	4	Young tree, multiple stems, included bark	2023-10-25
1782	*Populus deltoides*	Eastern cottonwood	Good	19	-	4	Young tree	2023-10-25
1783	*Populus deltoides*	Eastern cottonwood	Good	11	-	2	Young tree	2023-10-25
1784	*Salix alba*	White willow	Satisfactory	17, 14, 10, 8	25.5	4	Young tree, multiple stems	2023-10-25
1785	*Acer saccharum*	Sugar maple	Good	10	-	3	Young tree	2023-10-25
1786	*Acer saccharum*	Sugar maple	Good	9.5	-	2	Young tree	2023-10-25
1787	*Populus tremuloides*	Trembling aspen	Good	7.5	-	2	Young tree	2023-10-25
1788	*Populus deltoides*	Eastern cottonwood	Good	13	-	3	Young tree	2023-10-25
1789	*Populus deltoides*	Eastern cottonwood	Good	17	-	3	Young tree	2023-10-25
1790	*Acer saccharinum*	Silver maple	Good	12.5	-	2	Young tree	2023-10-25
1791	*Acer saccharum*	Sugar maple	Good	12.5	-	3	Young tree	2023-10-25
1792	*Acer saccharum*	Sugar maple	Good	13	-	3	Young tree	2023-10-25
1793	*Acer saccharum*	Sugar maple	Good	13	-	3	Young tree	2023-10-25
1794	-	Dead tree	Dead	7.5	-	3	Dead crown, bark de-attachment	2023-10-25
1795	*Salix alba*	White willow	Potential trouble	10, 5	11	2	Young tree, included bark	2023-10-25
1796	*Salix alba*	White willow	Good	8	-	3	Young tree	2023-10-25
1797	*Populus deltoides*	Eastern cottonwood	Good	9.5	-	3	Young tree	2023-10-25
1798	*Acer saccharinum*	Silver maple	Satisfactory	23.5	-	5	Imbalanced crown (l)	2023-10-25
1799	*Acer × freemanii*	Freeman's maple	Good	22.5	-	5	-	2023-10-25

SCHOLLEN & Company Inc.

City of Oshawa - Esterbrook to Conlin Trail - Tree Inventory & Assessment Matrix

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LEGEND

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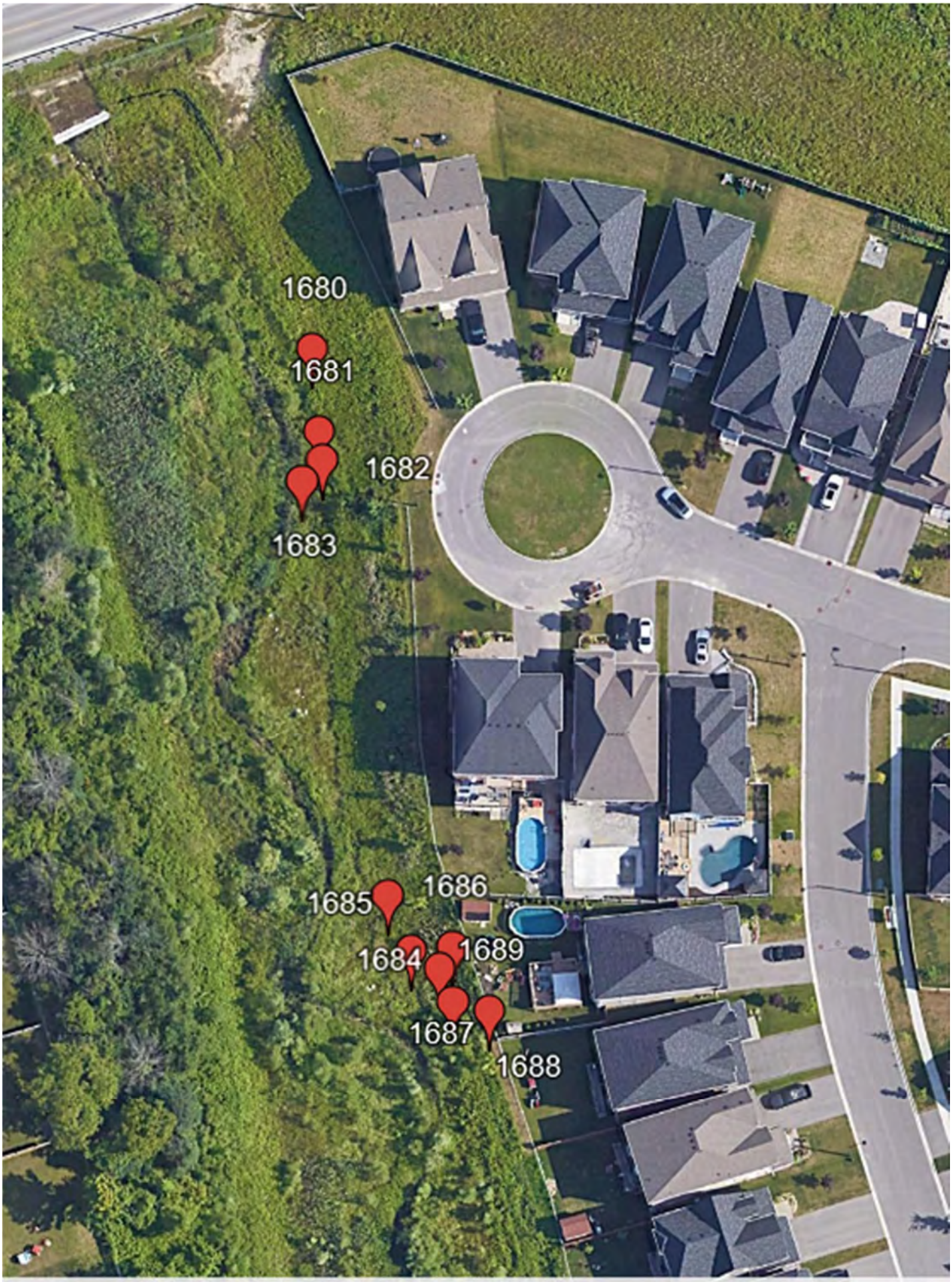
Tree Tag No.	Species		Condition Rating **	DBH of Ind. Stems(cm)***	Cumulative DBH (cm)****	Approx. Canopy Width (m)	Notes	Date of Assessment
	Botanical Name	Common Name						
1800	*Acer saccharum*	Sugar maple	Good	6.5	-	2	Young tree	2023-10-25
End of Tree Inventory & Assessment Matrix								

Appendix B

Tree Inventory and Assessment Plans (TI-)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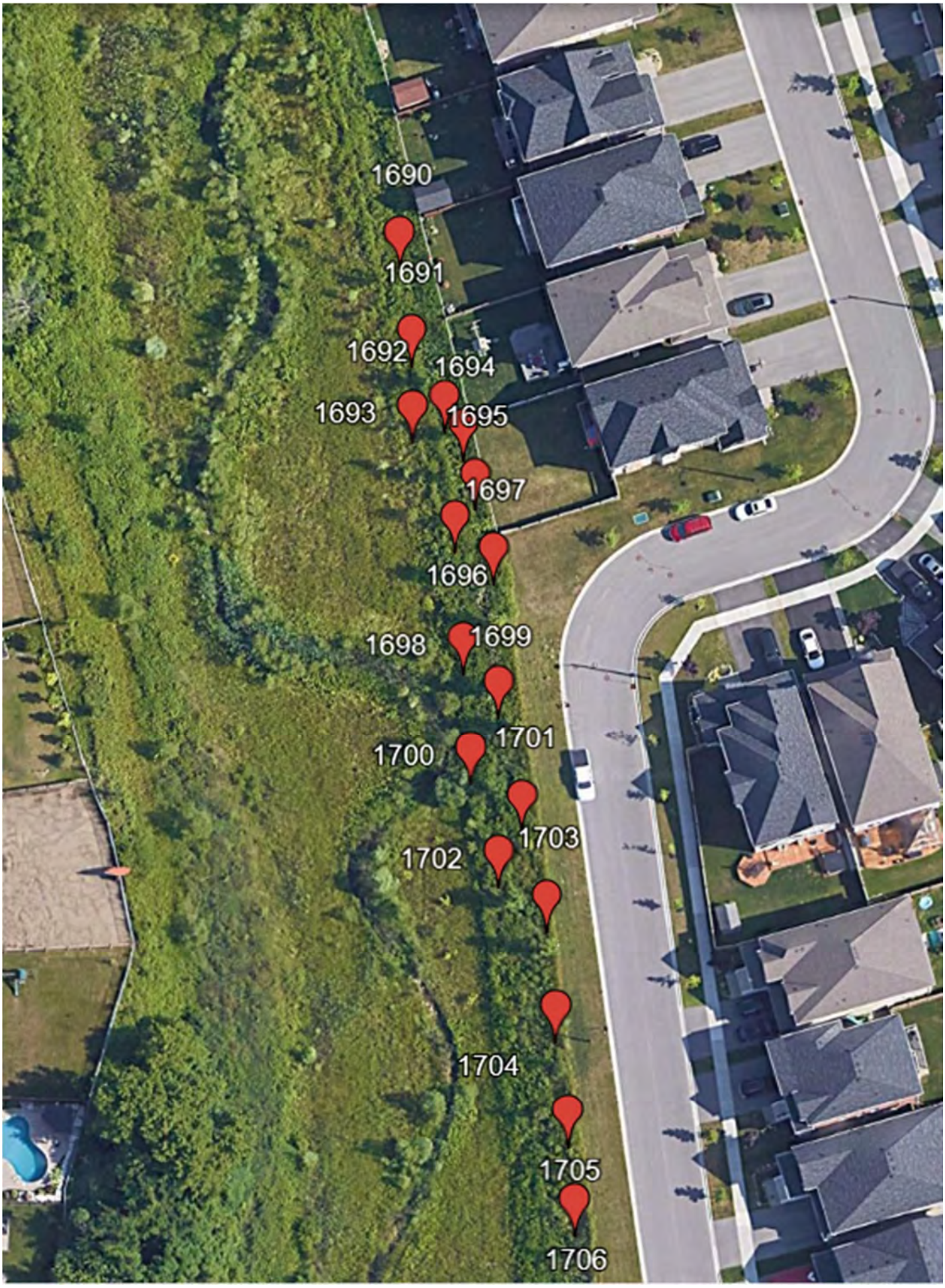
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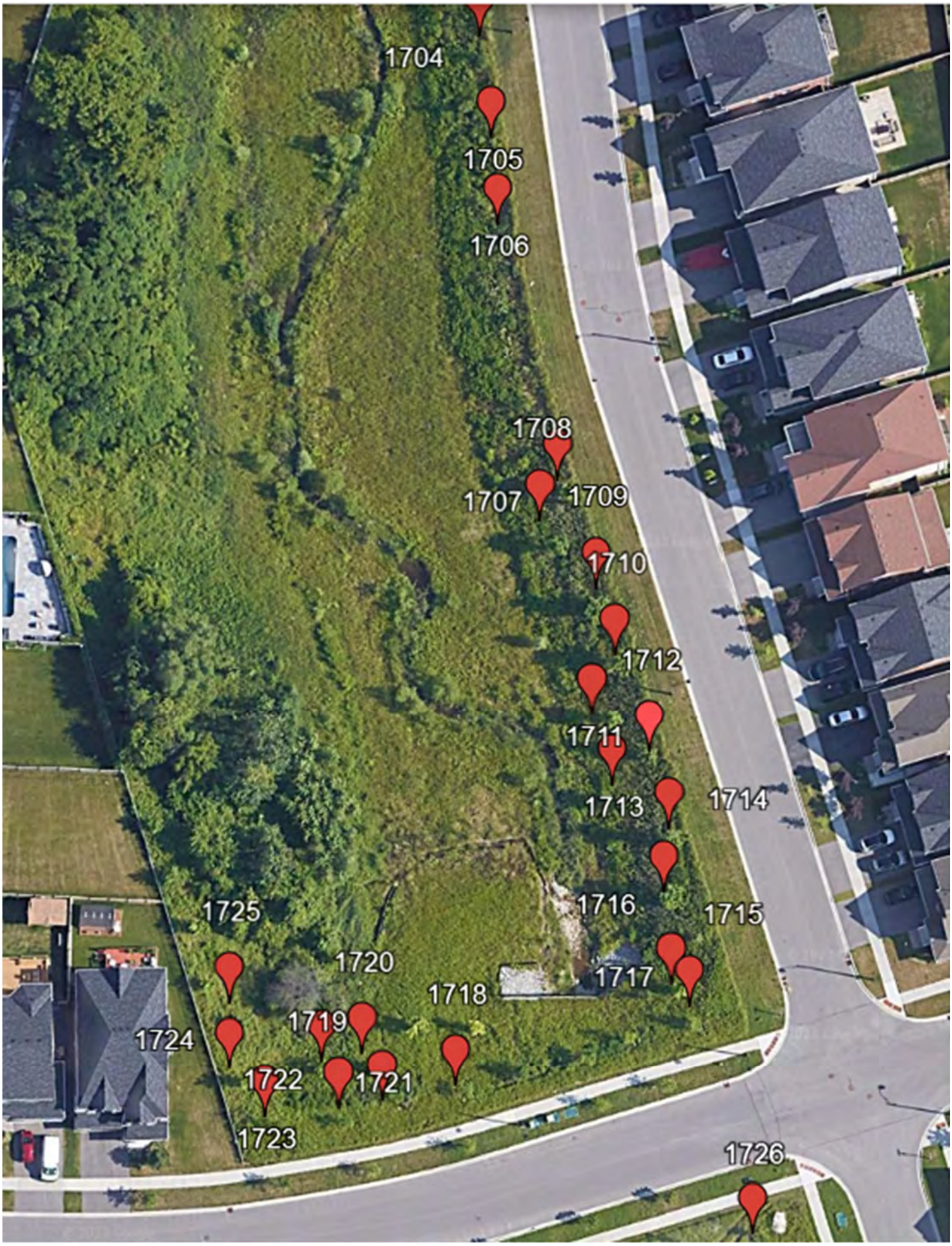
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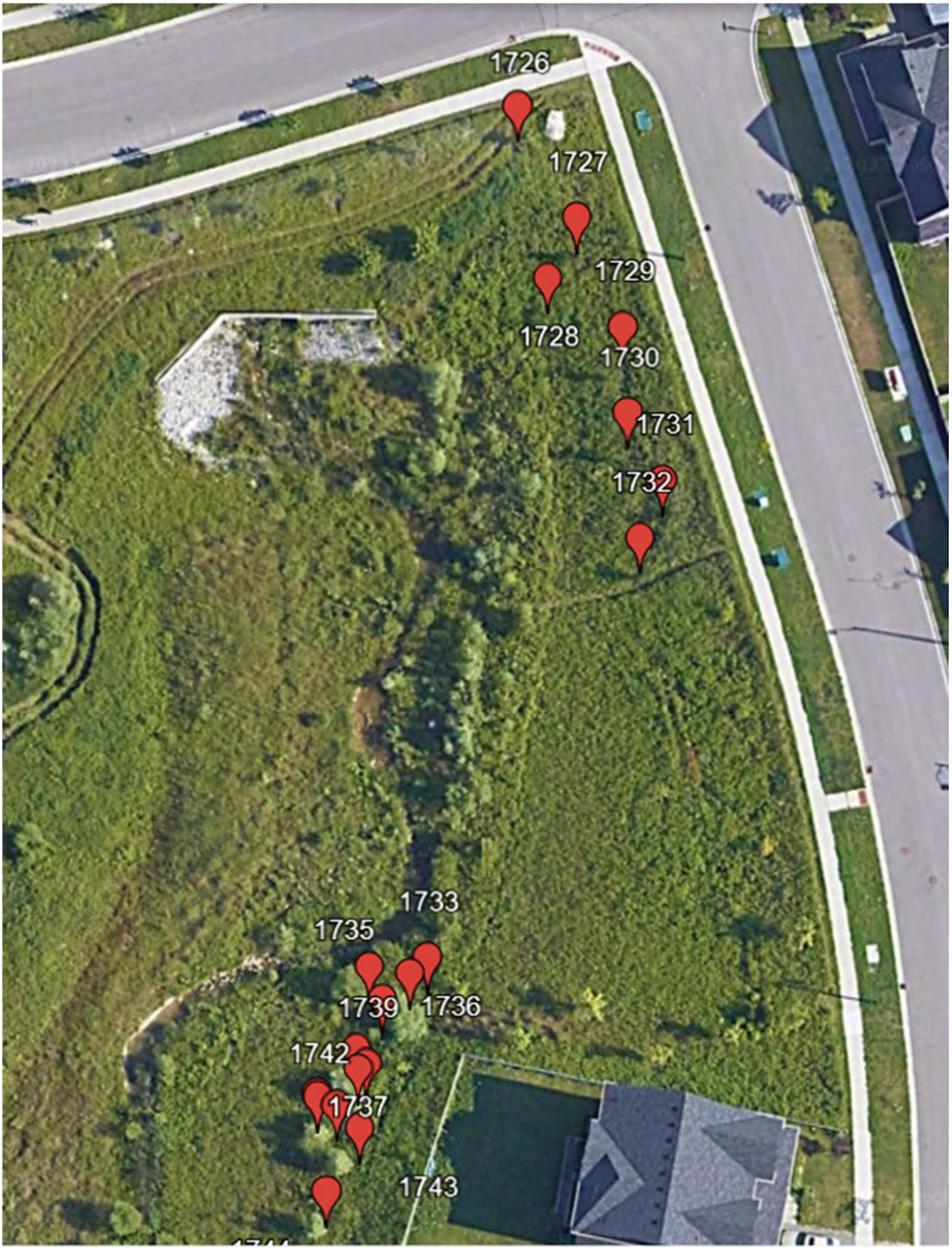
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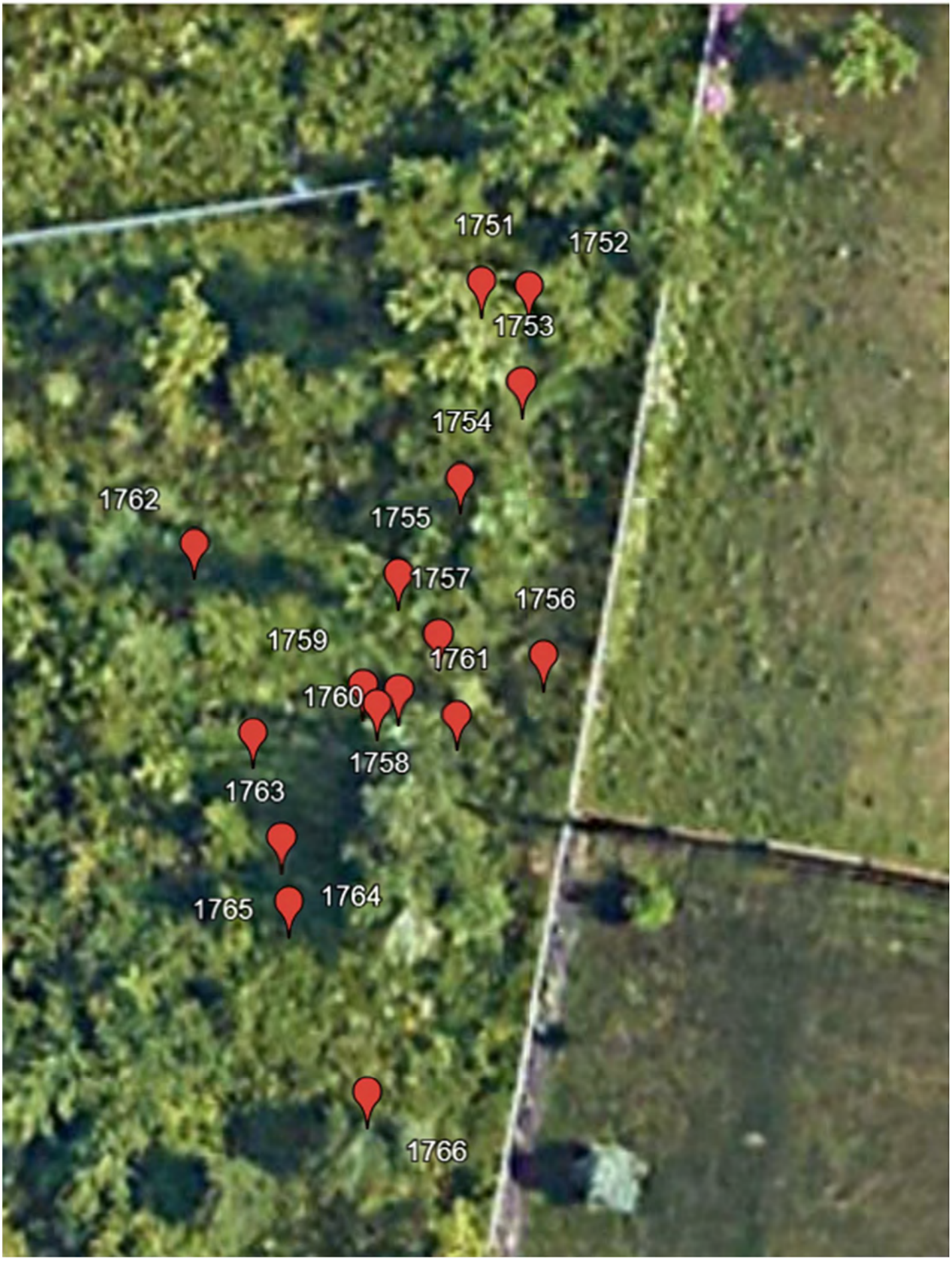
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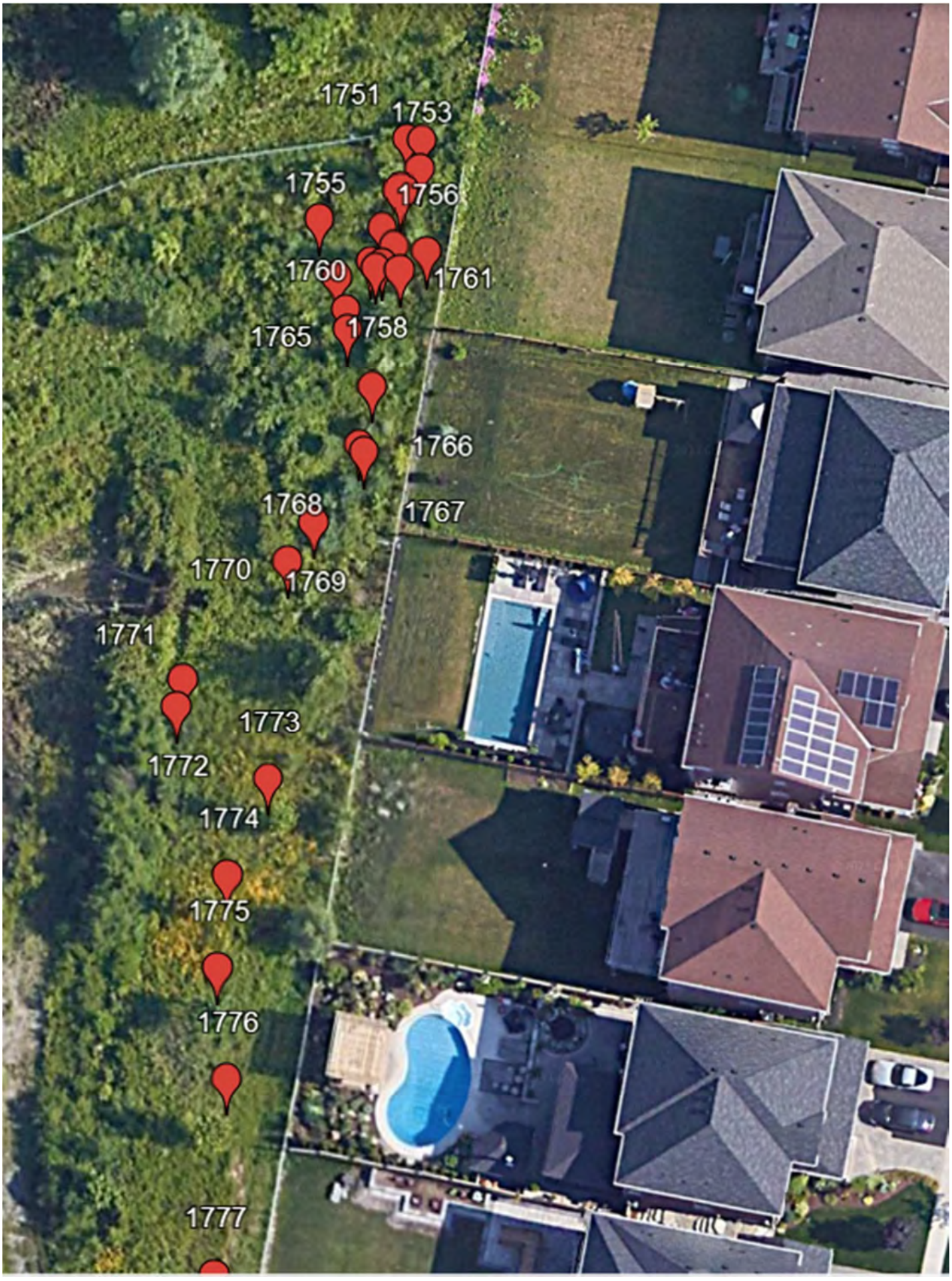
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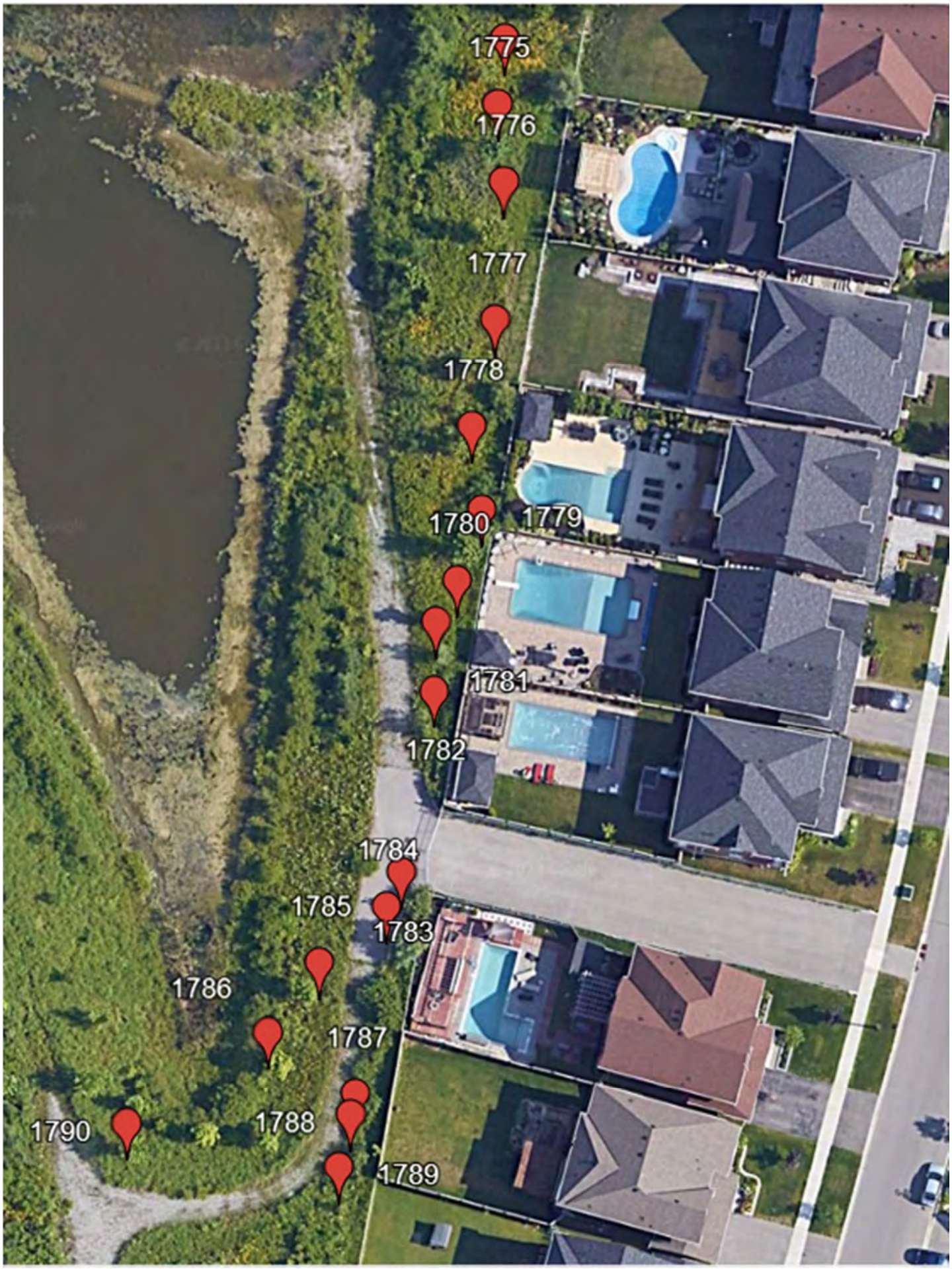
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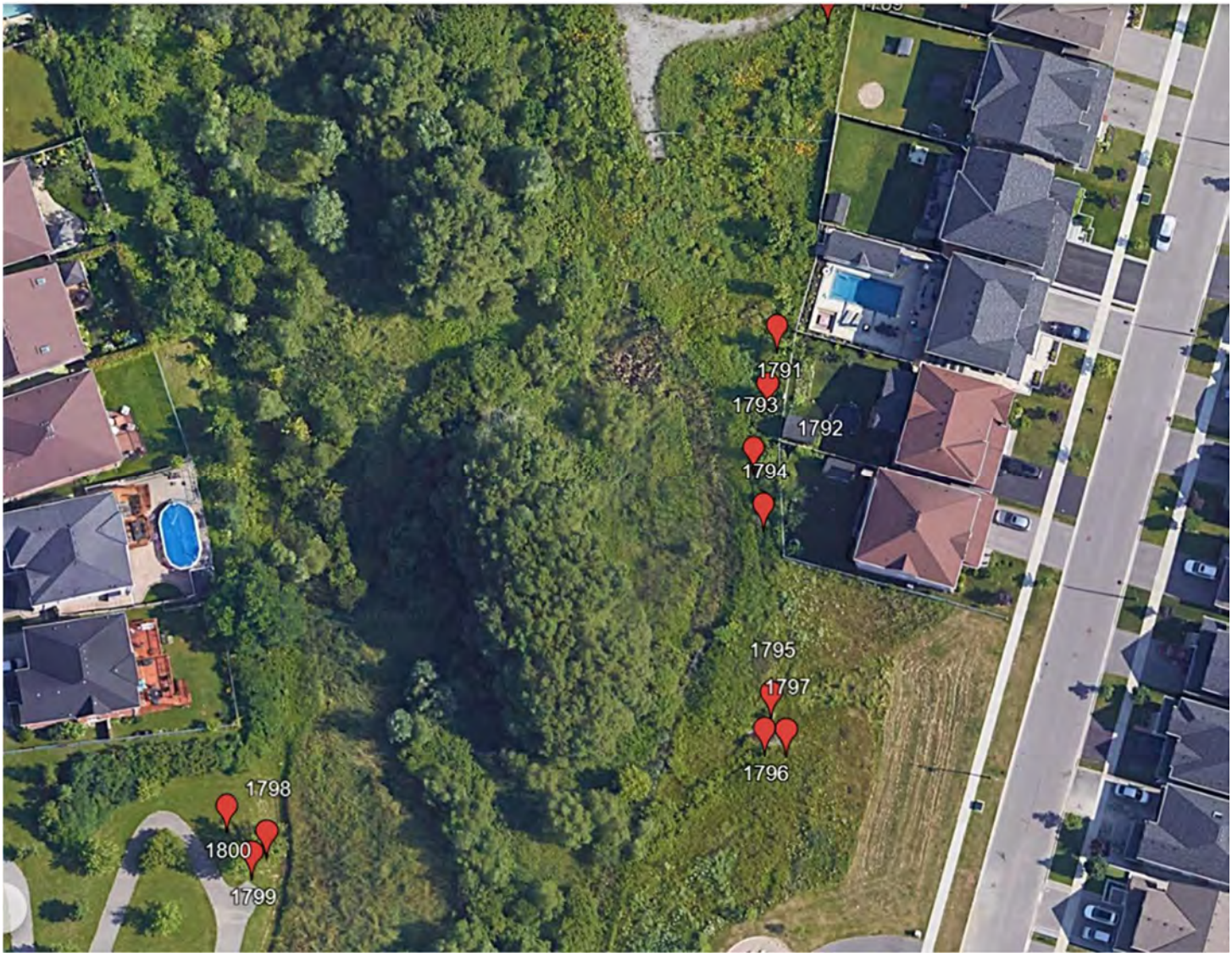
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Appendix C

Tree Inventory Photo Sheets


Tree 1680

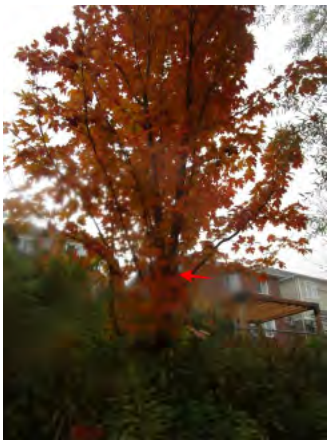

Tree 1681


Tree 1682


Tree 1683


Tree 1684


Tree 1685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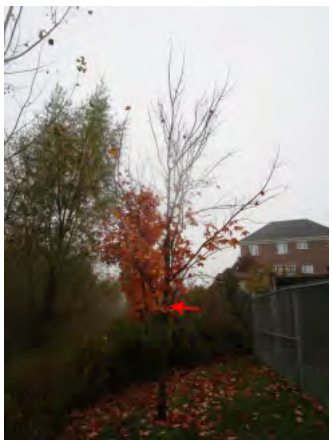
Tree 1687


Tree 1688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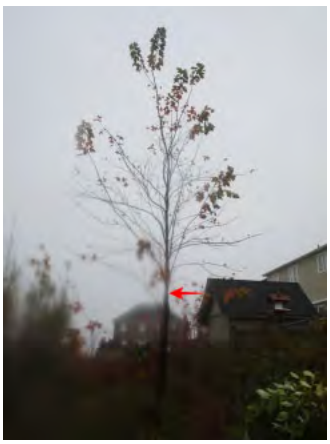
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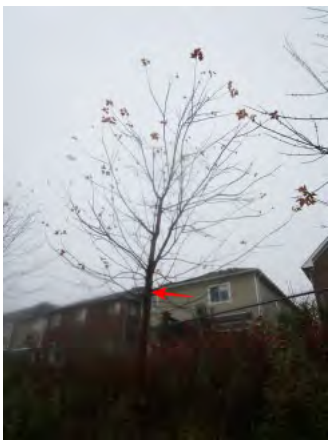
Tree 1691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Tree 1705

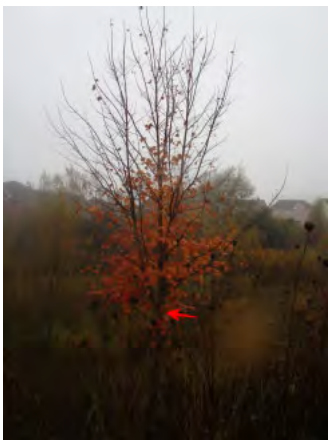

Tree 1706


Tree 1707


Tree 1708

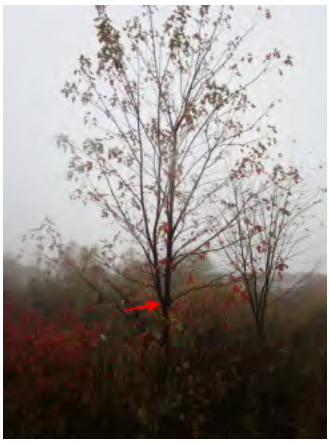

Tree 1709


Tree 1710


Tree 1711


Tree 1712


Tree 1713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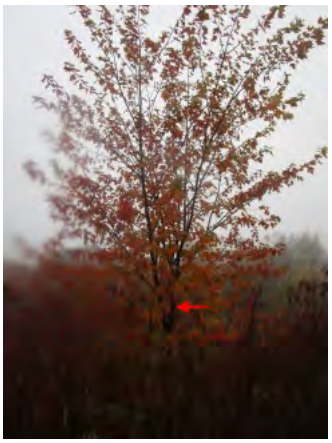
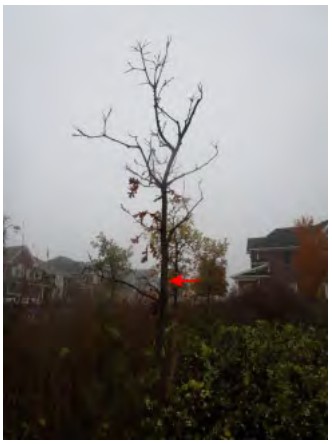
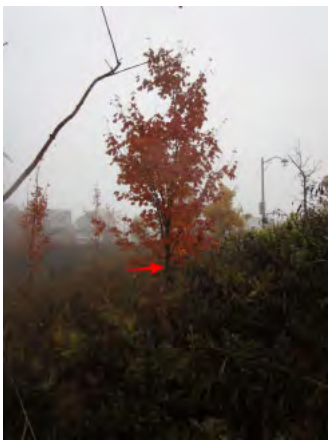

Tree 1715

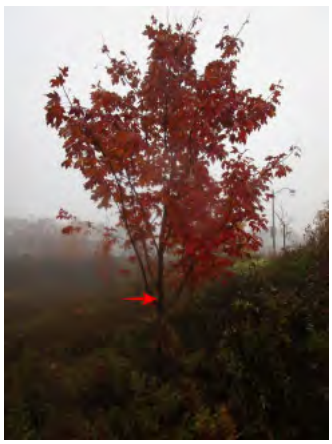

Tree 1716


Tree 1717


Tree 1718


Tree 1719


Tree 1720


Tree 1721


Tree 1722


Tree 1723


Tree 1724


Tree 1725


Tree 1726


Tree 1727


Tree 1728


Tree 1729


Tree 1730


Tree 1731


Tree 1732


Tree 1733


Tree 1734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Tree 1737


Tree 1738


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Tree 1743


Tree 1744


Tree 1745

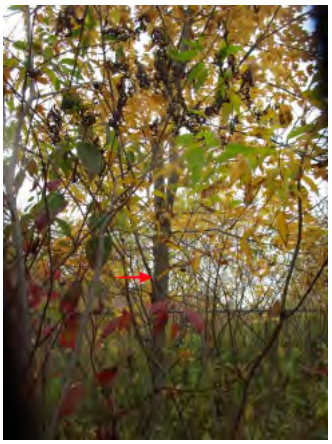

Tree 1746


Tree 1747


Tree 1748


Tree 1749


Tree 1750


Tree 1751


Tree 1752


Tree 1753


Tree 1754


Tree 1755


Tree 1756


Tree 1757


Tree 1758


Tree 1759


Tree 1760


Tree 1761


Tree 1762


Tree 1763


Tree 1764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Tree 1770


Tree 1771


Tree 1772


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Tree 1774


Tree 1775


Tree 1776


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Tree 1781


Tree 1782

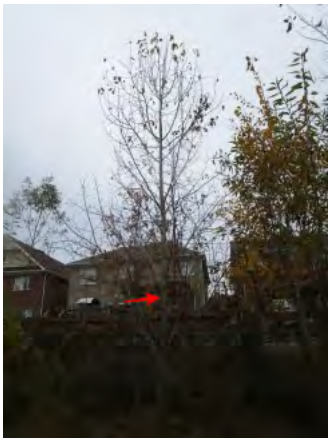

Tree 1783


Tree 1784


Tree 1785


Tree 1786

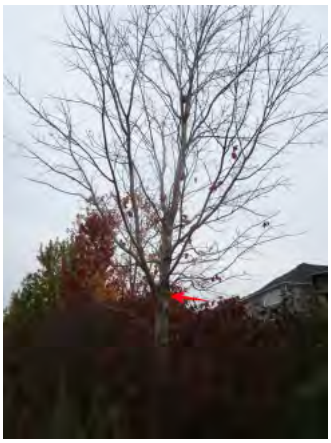

Tree 1787

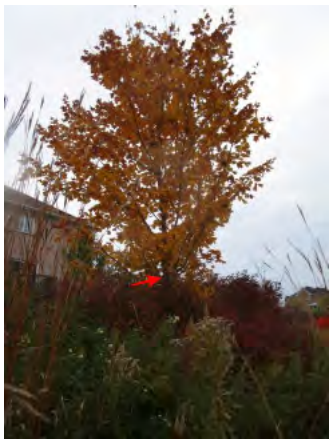

Tree 1788

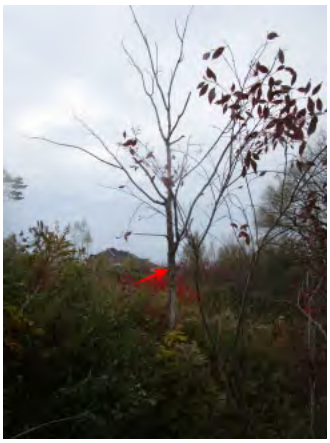

Tree 1789


Tree 1790


Tree 1791


Tree 1792


Tree 1793


Tree 1794


Tree 1795


Tree 1796


Tree 1797


Tree 1798


Tree 1799


Tree 1800