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**Tree Conservation Report
Proposed Development Application
788 March Road
Ottawa, Ontario**



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Submitted to:

SINA
3030 Boul. Le Carrefour, Suite 1200
Laval, Quebec
H7T 2P5

**Tree Conservation Report
Proposed Development Application
788 March Road
Ottawa, Ontario**

September 20, 2024
Project: 103027.001

TABLE OF CONTENTS

LIST OF TABLES..... II

LIST OF APPENDICES II

1.0 INTRODUCTION..... 1

 1.1 Purpose 1

 1.2 Definitions..... 1

2.0 METHODOLOGY..... 2

 2.1 Desktop Review 2

 2.2 Field Investigations 2

3.0 RESULTS..... 3

 3.1 Existing Conditions 3

 3.2 Tree Inventory Summary..... 4

4.0 CONCLUSIONS AND RECOMMENDATIONS..... 5

 4.1 Tree Conservation Recommendations 5

 4.2 Recommended Mitigation Measures 6

5.0 CLOSURE..... 8

6.0 REFERENCES..... 9

LIST OF TABLES

Table 3.1 Summary of Natural Features Present On-site or Adjacent to Site 3

Table 3.2 Summary of Distinctive Trees Present On-Site or Adjacent..... 4

LIST OF APPENDICES

| | |
|------------|---|
| Appendix A | Report Figures |
| Appendix B | Site Photographs |
| Appendix C | Tree Inventory Summary Table |
| Appendix D | City of Ottawa: Tree Protection Specification |

1.0 INTRODUCTION

GEMTEC Consulting Engineers and Scientists Limited (GEMTEC) was retained by SINA to carry out a Tree Conservation Report (TCR) for the property located at 788 March Road, in Ottawa, Ontario, hereafter referred to as the “subject property”. The site location is provided in Figure A.1 in Appendix A.

1.1 Purpose

The proponent is seeking a development application for the property located at 788 March Road, in Ottawa, Ontario for future residential development. As a component of the development application, the City of Ottawa is requesting a TCR for the collective property. In accordance with the City of Ottawa’s Tree Protection By-law (No. 2020-340) a TCR is required to identify trees to be retained and protected under future development scenarios and, where feasible, identify opportunities to offset the loss of trees that cannot be retained or contribute to the City’s forest cover targets.

The property has an approximate size of 1.21 hectares (ha). The proposed site development includes a mixed-use apartment building with road access via March Road and Klondike Road. The existing site layout and proposed development is provided in Figure A.2 and Figure A.3, respectively, in Appendix A.

1.2 Definitions

Terms and abbreviations used throughout the remainder of this report are summarized below.

Diameter at Breast Height (DBH), is defined as the diameter of the tree trunk measured at a height of 1.2 metres (m) above ground surface for trees of 10 centimeters (cm) in diameter and greater.

Critical Root Zone (CRZ), is defined as the ground area within a circumference around the tree trunk calculated as 10 cm from the trunk of the tree for every one centimeter of tree trunk diameter at breast height.

Distinctive Tree, within the City of Ottawa, is defined as any tree with a DBH of 30 cm or greater within the inner urban area and with a DBH of 50 cm or greater within the suburban area and rural area. For the purposes of this report, a distinctive tree is considered to be a tree with a DBH of 50 cm or greater, as the subject property is located within the suburban boundary.

2.0 METHODOLOGY

2.1 Desktop Review

To complete the TCR, digital colour air photos of the site available from GeoOttawa were reviewed from 1965 to 2022 to identify natural features, including historical trees, present on-site and in the vicinity of the site.

Based on a review of historical air photos, the general surrounding area has seen an increase in residential and commercial development since 1991. Development was present on-site between 1965-1991 but became vacant until present day configuration in 2021. No alterations to land use were noted during review.

2.2 Field Investigations

In addition to the completion of a desktop review of historical air photos, a site visit was conducted on September 22, 2023, from 12:15 to 16:15, to document and identify all trees on-site with a DBH greater than 10 cm. The site investigation utilized transects bisecting the property to document the health of each tree greater than 10 cm in DBH, the tree location, and the tree species.

An additional tree survey was completed in conjunction with topographic surveys by J.D. Barnes Ltd. on May 23, 2024. All stems greater than 10cm DBH within 5 m of the proposed bicycle path were surveyed and given a tree identifier. Many of these surveyed trees were previously identified by GEMTEC during the September 2023 tree inventory; however, some additional stems were added.

To determine the presence or absence of species at risk on-site and adjacent to site, butternut were searched for during the transect surveys.

Site conditions during the site investigation were as follows: 21°C, no cloud cover, Beaufort 2 and no precipitation.

Site photographs taken during the field investigations are provided in Appendix B.

3.0 RESULTS

3.1 Existing Conditions

Development on-site currently consists of a vacant development area. No development exists on site, but the area of previous disturbance occupies an approximate area of 0.35 ha.

Outside of the existing disturbed area, the subject site consists of the riparian areas of Shirley's Brook that flows along the eastern property boundary. Numerous trees are present on the property, primarily along Shirley's Brook and within the riparian area. A summary of all trees on-site is provided in Section 3.2 below.

The land use in the vicinity of the site is characterized by commercial and residential land uses. Natural environmental features in the vicinity of the project, as summarized in Table 3.1 below, include surface water features. Surface water features on-site include Shirley's Brook.

Based on NHIC observation data, the following threatened and endangered Species at Risk (SAR) have been observed within 1 km of the subject property: bobolink, eastern meadowlark, eastern whip-poor-will, least bittern, eastern small-foot myotis, little brown myotis, tri-colored bat, Blanding's turtle and black ash, butternut. No SAR species were identified on-site or in the area immediately adjacent to the property during the site investigation. However, based conservatively on the NHIC observation data, the KNUEA EMP (DST, 2015; Novatech, 2016), and observation data from the McKinley EIS (2020), the subject site contains regulated Category 2 and Category 3 habitat for Blanding's turtle. Butternut trees were specifically targeted for presence/absence during the survey, however no butternut were observed on-site or within the study area.

There are no other natural environmental features in the vicinity of the project, as summarized in Table 3.1 below.

Table 3.1 Summary of Natural Features Present On-site or Adjacent to Site

| Natural Feature | Present On-site or Adjacent |
|---|---|
| Surface water or wetlands present | Present – Shirley's Brook |
| Steep slopes, valleys or escarpments | None |
| Urban Natural Features or Natural Environment Areas | None |
| Significant Woodlands | None |
| Greenspace Linkages | None |
| High Quality Specimen Trees | None |
| Rare plant communities or unique environmental features | None |
| Presence of Species at Risk | Present – Blanding's turtle, and SAR Bats |

3.2 Tree Inventory Summary

A tree inventory was conducted on September 22, 2023. Trees on-site were identified, enumerated, and assessed for visual signs of distress and disease. Table C.1 in Appendix C provides a summary of all tree specimens on-site whose DBH was greater than 10 cm. CRZ values for trees with DBH greater than 10 cm are also present in Table C.1 in Appendix C. CRZ was not calculated for dead trees. The square root of the sum of squares method was used to calculate the DBH of trees with multiple stems. All trees with a DBH greater than 10 cm and their CRZ are illustrated on Figure A.4, in Appendix A.

Additional trees surveyed on May 23, 2024 by J.D. Barnes Ltd. were reviewed and compared to those inventoried by GEMTEC in 2023. Corresponding trees that were surveyed by both GEMTEC and J.D. Barnes were enumerated accordingly. Any trees that either party did not both identify, were added to Table C.1 in Appendix C.

Per the City of Ottawa's Tree Protection By-law (No. 2020-340), 11 trees on the subject site, were identified as a distinctive tree (DBH > 50 cm). Table 3.2 below details the results. For this report, dead standing trees were not included in the distinctive tree list, even if the DBH was greater than 50 cm.

Table 3.2 Summary of Distinctive Trees Present On-Site or Adjacent

| Tree # | Species | DBH (cm) | Condition |
|--------|----------------|----------|-----------|
| 1 | Red Maple | 59 | Healthy |
| 8 | Manitoba Maple | 86 | Healthy |
| 11 | Manitoba Maple | 52 | Good |
| 15 | Red Maple | 71 | Healthy |
| 29 | Manitoba Maple | 66 | Healthy |
| 35 | Manitoba Maple | 69 | Poor |
| 45 | Manitoba Maple | 79 | Good |
| 46 | Manitoba Maple | 57 | Poor |
| 64 | Manitoba Maple | 58 | Poor |
| 91 | Manitoba Maple | 50 | Healthy |
| 106 | Manitoba maple | 73 | Healthy |

None of the trees identified on-site are listed under the provincial Endangered Species Act.

In general, the tree community assemblage can be described as containing mature and semi-mature trees. Dominant tree species on-site were represented by Manitoba maple (*Acer*

negundo). Most of the observed ash species identified on-site were of poor health or dead, likely due to the presence of emerald ash borer. Many of the ash species were observed to have epicormic shoots (young shoots growing from near the base of the tree) indicative of stress and poor health conditions. Most other tree species were observed to be in good or healthy conditions.

4.0 CONCLUSIONS AND RECOMMENDATIONS

Based on a review of the information summarized in Section 3.2, Table C.1 in Appendix C and the proposed development concept illustrated on Figure A.3, the following conclusions are provided:

- Out of 113 trees identified by GEMTEC on-site with a DBH greater or equal to 10 cm, 97 were identified as retainable and 16 trees were identified as conflict. The 16 trees identified as conflict, illustrated on Figures A.4a, A.4b. and A.4c, are considered non-retainable as they are in direct conflict with the development plan or greater than 30% of the trees CRZ will be impacted by the grading from the building and/or the approximate location of the pathway;
- 7 additional trees were identified by J.D. Barnes Limited on-site on May 23, 2024, with a DBH greater or equal to 10 cm, 3 were identified as retainable and 4 were identified as conflict. These additional trees are not included within the assessment of species, health or potential wildlife habitat. All additional trees are illustrated on Figures A.4a, A.4b and A.4c.
- 11 distinctive trees, meeting the City of Ottawa's Tree Protection (By-law No. 2020-340), requirements of DBH > 50 cm, were identified on-site, 3 of which were identified as conflict, and are likely not retainable under the current development plan;
- Trees on-site are of a typical upland or early successional species;
- 97 trees are in good/healthy condition and 16 trees are in poor or dead condition;
- 17 of the trees present on-site were observed to provide potential wildlife habitat (snag, active nest), 4 of which were identified as conflict and are considered not retainable under the current development plan;
- No Butternut [END] or Black Ash [END] trees were identified on-site or in the area immediately adjacent to site;
- None of the trees present on-site are protected under the Endangered Species Act, Ontario 2007;
- None of the trees on-site were identified to represent High Quality Specimen Tree; and
- All trees identified to be retained, including those within the limit of grading, will have their existing elevations around the critical root zone maintained.

4.1 Tree Conservation Recommendations

It is our opinion based on the results of the completed tree inventory that none of the trees on-site represent exceptional tree specimens, rare communities, nor do they provide any

conservation value or great ecological benefit. Based on the proposed development plan it is assumed that 100 of the total identified trees on the subject property are retainable and 20 of the trees were identified as conflict, non-retainable. Of the 20 conflict trees six were identified as having greater than 30% of their CRZ impacted (trees numbered 9, 8, 30, 35, 64 and T18). These trees occur within the grading area with greater than 30% of their root structures overlapping the development plan. 14 trees (trees numbered 32, 34, 37, 36, 38, 39, 40, 42, 54, 55, 81, T20, T38 and T40) were identified as directly in conflict with the development plan. The trunks of these trees occur within or on the boundary of the development plan or proposed bicycle path. Conflict trees are illustrated on Figures A.4a, A.4b and A.4c. Figure A.5 illustrates which trees are impacted by the building development (trees numbered 8, 32, 37, 38, 64, T18, T20 and T40) and which trees are impacted by the proposed bicycle path (trees numbered 9, 30, 35, 36, 40, 54, 55, 81 and T38). The proposed bicycle path will be field fit in Spring 2026 and should consider maintaining the distinctive trees identified in this report, in addition to other healthier, more mature trees.

Based on the current development plan, most of the existing treed vegetation on-site will be conserved through the implementation of the 30 m top of bank setback. The proposed building will be situated within the vacant section of the site with exclusion fencing both protecting and limiting access to the conserved vegetation on-site. The grading plan, as designed by McIntosh Perry (2023), will tie into the downward slope, already present on-site, towards Shirley's Brook. Pre- and post-drainage patterns are expected to remain the same with water being directed to roadside ditches away from the conserved vegetation and Shirley's Brook. Future development that requires vegetation clearing should be offset through landscape planting. Consideration should be given to landscape planting with native tree species indicative of the Great Lakes – St. Lawrence Forest Region, such as white cedar, white spruce, red maple and red oak.

4.2 Recommended Mitigation Measures

The following mitigation measures and best practice recommendations are provided by GEMTEC to minimize and eliminate negative impacts to trees identified in Appendix C as retainable during potential future construction. Construction contractors shall apply the following measures outlined below to prevent damage and promote long-term survival of trees identified to be retained in the redevelopment plan for the site.

- All trees identified to be retained, including those within the limit of grading, should be clearly marked and the CRZ delineated with fencing to prevent encroachment and damage during construction. General prohibitions of activities within the fencing include:
 - No placement of construction material (including fill and equipment);
 - No construction activities (i.e. grading, machine operation, etc.) to avoid soil compaction and direct injury to the tree or its root system; and
 - No refueling or disposal of liquids.

- Tree protection should follow the tree protection specification provided by the City of Ottawa (2021). The Specification is provided in Appendix D;
- As per the City of Ottawa's Tree Protection By-law (No. 2020-340), a tree compensation plan may be brought forth by the City of Ottawa, by means of offsetting overall tree and vegetation removal;
 - As shown in the Landscape Plan, as designed by GJA INC. (2024), approximately 42 trees and 20 shrubs have been proposed to be planted as well as the creation of a naturalization bed and areas with native seed mix.
- If existing pavement surface around trees to be retained is going to be removed than temporary fencing should be installed to delineate the CRZ of each tree;
- If trees to be removed overlap with the CRZ of trees to be retained, cut roots at the edge of the retained CRZ and grind down stumps after tree removal, do not pull out stumps. If roots must be cut, roots 20 cm or larger should be cut at right angles with clean, sharp, horticultural tools, without tearing, crushing, or pulling;
- All tree service activities (i.e. removal, branch / root pruning, etc.) will be completed by or under the direction of an ISA certified arborist;
- Do not attach any signs, notices or posters to any tree identified to be retained;
- Do not damage the root system, trunk, or branches or any tree identified to be retained;
- Ensure that exhaust fumes from all equipment are directed away from tree canopy; and
- For the protection of migratory birds and SAR bat species, tree removal shall occur outside of March 15 – November 30 of any given year, to avoid the key breeding bird period as identified by Environment Canada and the bat active season as identified by the Ministry of Environment, Conservation and Parks (MECP). Adhering to the timing window will also avoid contravention of the Migratory Bird Convention Act and the Endangered Species Act. If vegetation clearing activities must take place outside of the timing window than a nest and roost survey shall be conducted by a qualified professional.

5.0 CLOSURE

This letter and the work referred to within it have been undertaken by GEMTEC Consulting Engineers and Scientists Ltd. (GEMTEC), and was prepared for SINA and is intended for the exclusive use of SINA. This report may not be relied upon by any other person or entity without the express written consent of GEMTEC and SINA. Nothing in this report is intended to provide a legal opinion.

The investigation undertaken by GEMTEC with respect to this report and any conclusions or recommendations made in this report reflect the best judgements of GEMTEC based on the site conditions observed during the investigations undertaken at the date(s) identified in the report and on the information available at the time the report was prepared.

This letter has been prepared for the application notes and it is based in part, on visual observations made at the site, all as described in the report. Unless otherwise stated, the findings contained in this report cannot be extrapolated or extended to previous or future site conditions or for portions of the site that were unavailable for direct investigation.

Once the location of the multiuse pathway has been determined in Spring 2026, GEMTEC will provide an addendum for the proposed impacted trees.

Should new information become available during future work, or other studies, GEMTEC should be requested to review the information and, if necessary, re-assess the conclusions present herein.

We trust this report provides sufficient information for your present purposes. If you have any questions concerning this report, please do not hesitate to contact our office.

Sincerely,



Emily Young, B.Sc.
Junior Biologist



Zachary Anderson, B.Sc.
Biologist

6.0 REFERENCES

Ontario Ministry of Natural Resources and Forestry (OMNRF). 2019. Natural Heritage Information Centre. Make a Map: Natural Heritage Areas.

Ottawa, City of (Ottawa). 2022, City of Ottawa Official Plan.

Ottawa, City of (Ottawa), By-law No. 2020-340, Tree Protection (Updated: January, 2021).



APPENDIX A

Report Figures

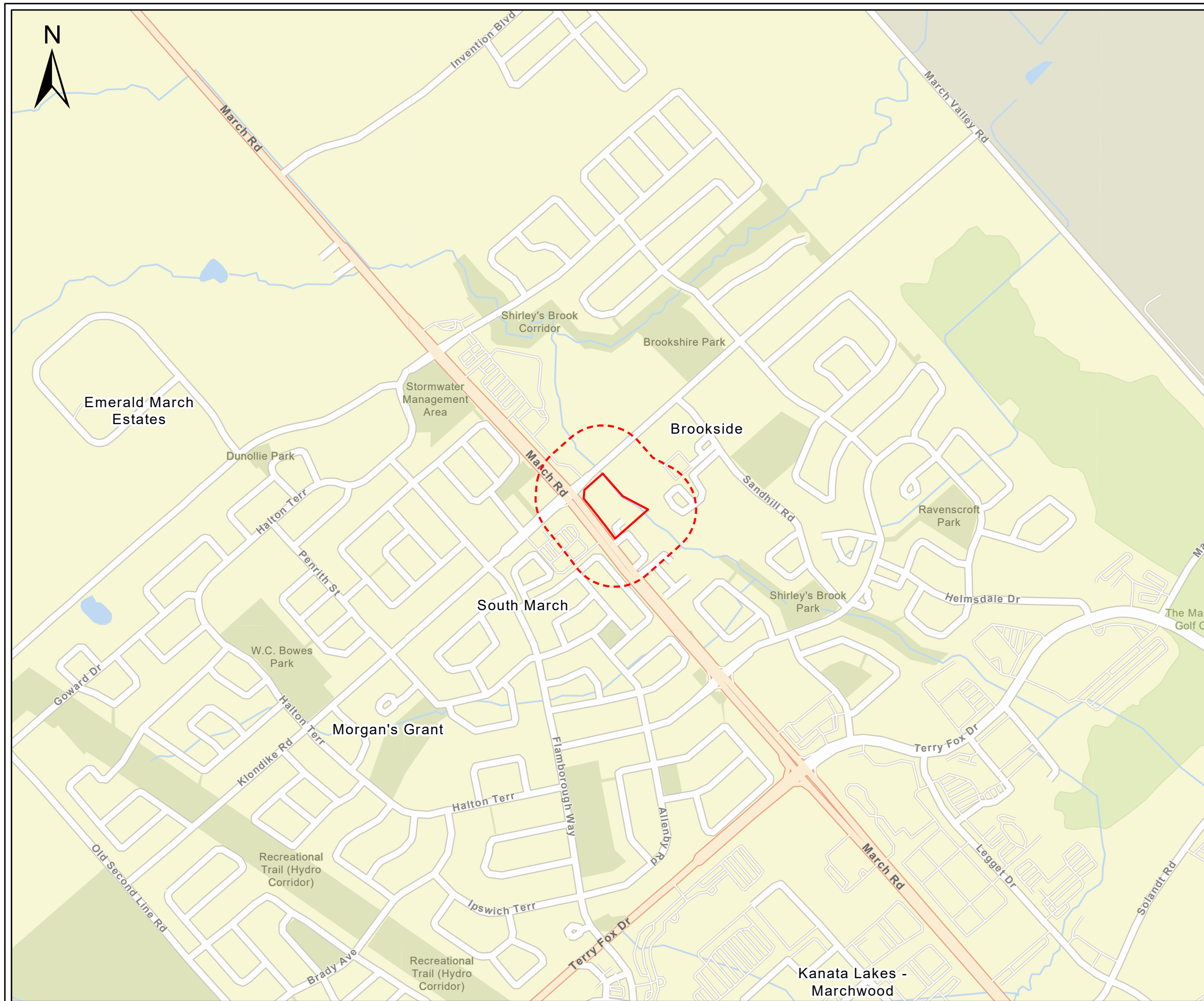
Figure A.1 – Site Location

Figure A.2 – Site Layout

Figure A.3 – Development Plan

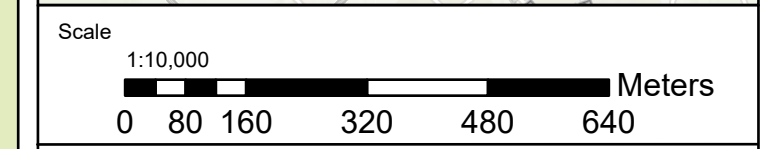
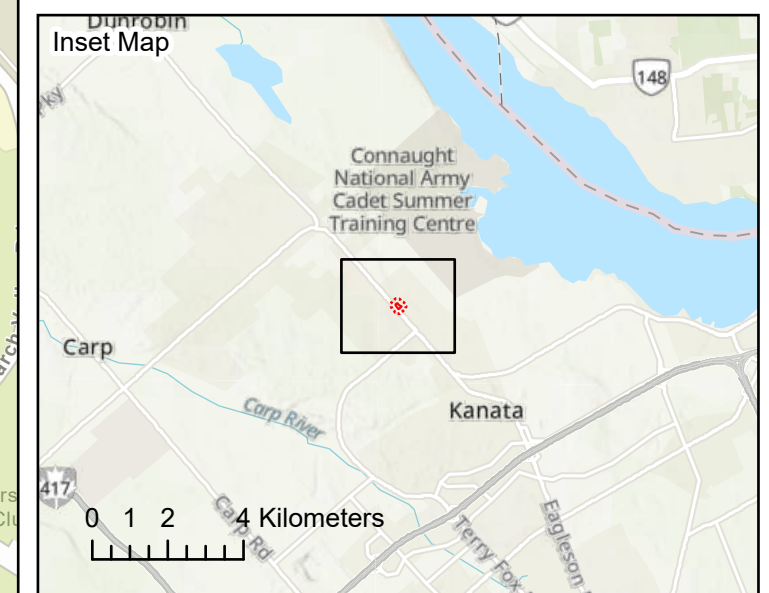
Figure A.4 – Tree Inventory

Figure A.5 – Conflict Trees



Legend

- Property Boundary
- Study Area



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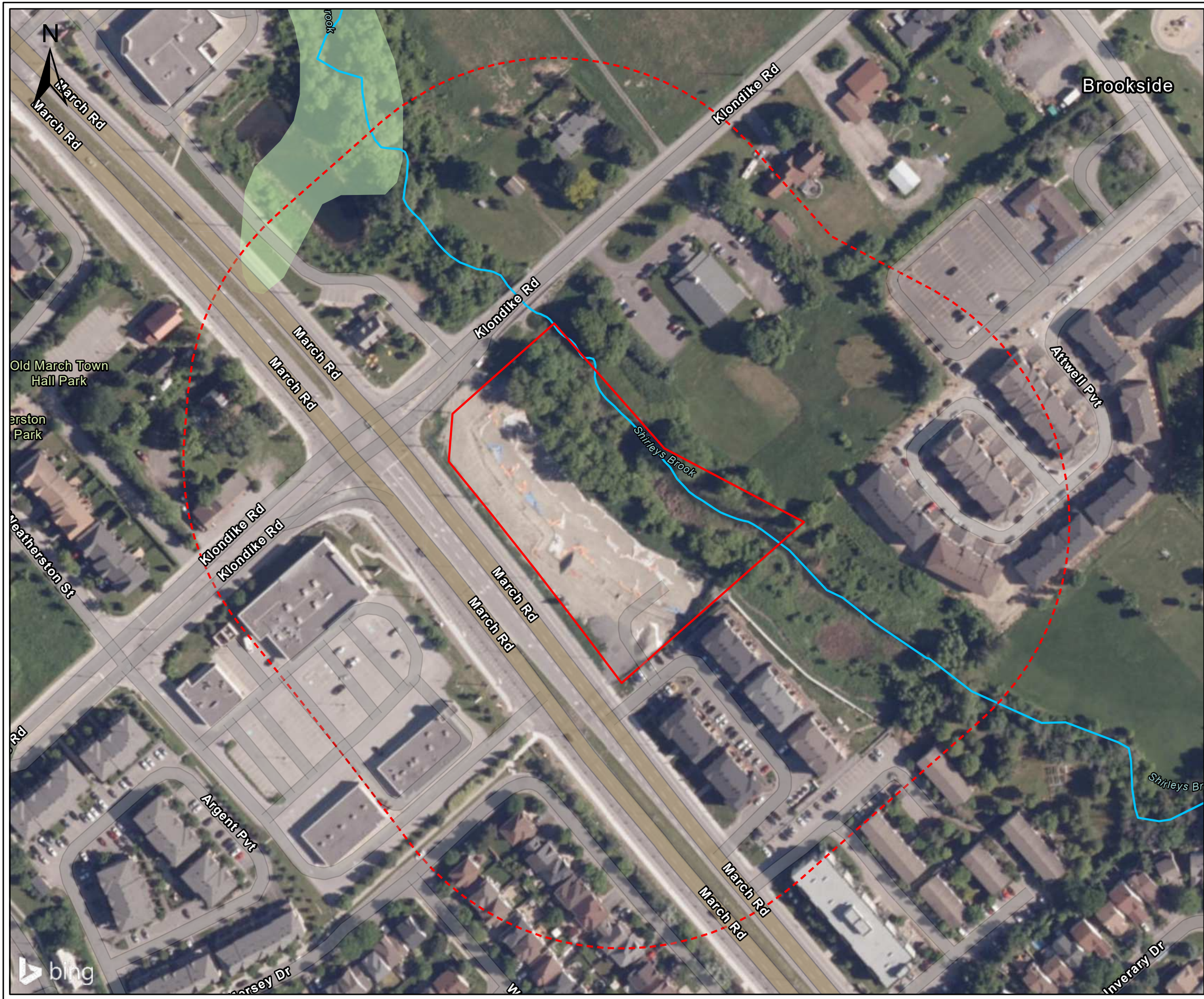
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| Client: SINA | Project: 103027.001 |
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| Location | 788 March Road Ottawa, Ontario |
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| Drwn By: E.P. | Chkd By: T.W. | Site Location |
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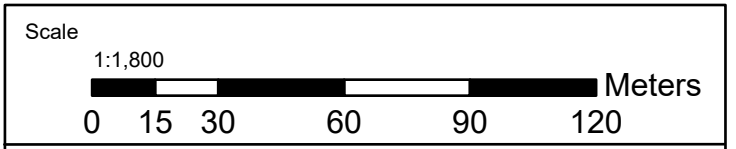
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 World Street Map: Esri Community Maps Contributors, City of Ottawa, Province of Ontario, Esri Canada, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, NRCAN, Parks Canada



Legend

- Property Boundary
- Study Area
- Local Wetland
- Watercourse



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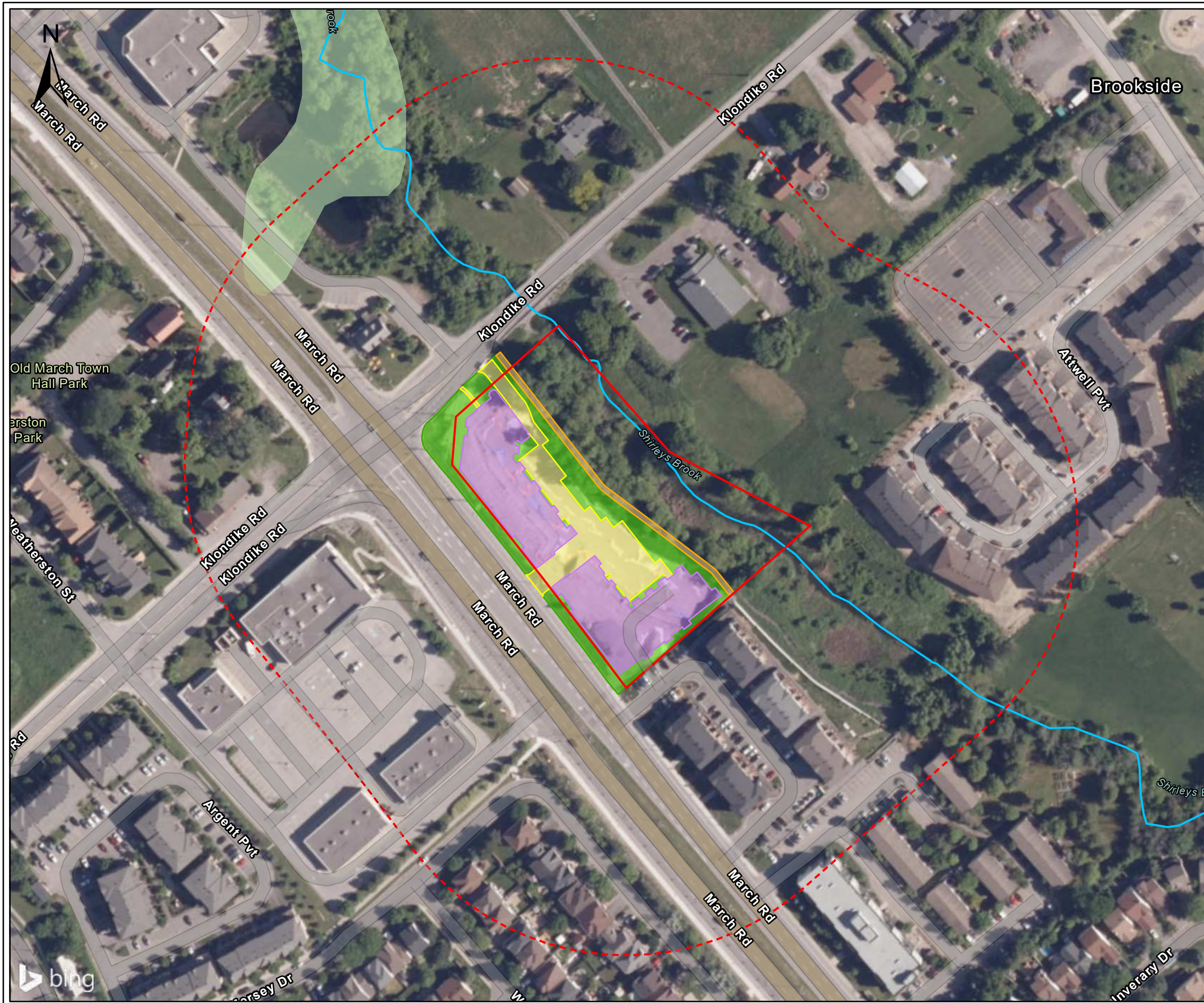
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Location
**788 March Road
Ottawa, Ontario**

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| Drwn By: E.P. | Chkd By: T.W. | Site Layout |
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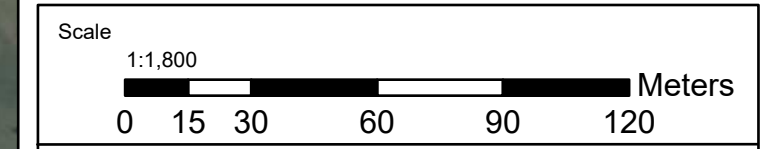
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 City of Ottawa 2022 Imagery:



Legend

- Property Boundary
- Study Area
- Local Wetland
- Watercourse
- Proposed Paved Area
- Proposed Building Footprint
- Proposed Soft Landscape Area
- Proposed Conceptual Bicycle Path

* Pathway is conceptual and will be 'field fit' Spring 2026



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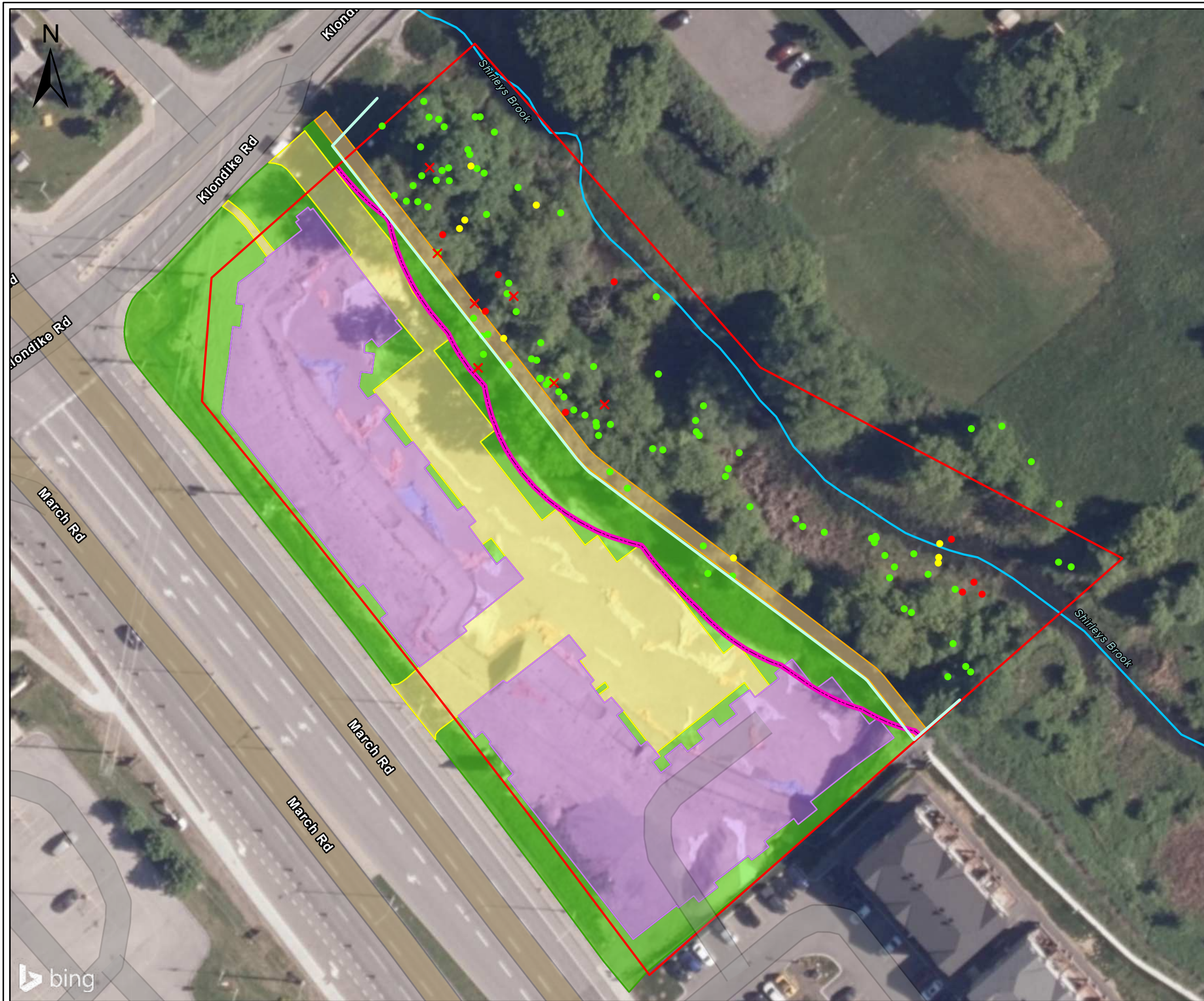
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| Client: SINA | Project: 103027.001 |
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Location
**788 March Road
Ottawa, Ontario**

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| Drwn By: E.P. | Chkd By: T.W. | Development Plan |
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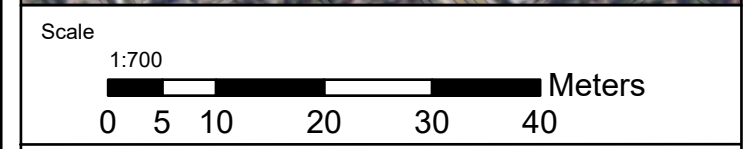
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 City of Ottawa 2022 Imagery:



- Legend**
- Property Boundary
 - Study Area
 - Watercourse
 - 30 m Setback
 - Tree Protection Fencing
 - Proposed Building Footprint
 - Proposed Paved Area
 - Conceptual Proposed Bicycle Path
 - Proposed Soft Landscape Area
- Tree Location**
- Healthy
 - Good
 - Poor
 - ✕ Dead

* Pathway is conceptual and will be 'field fit' Spring 2026



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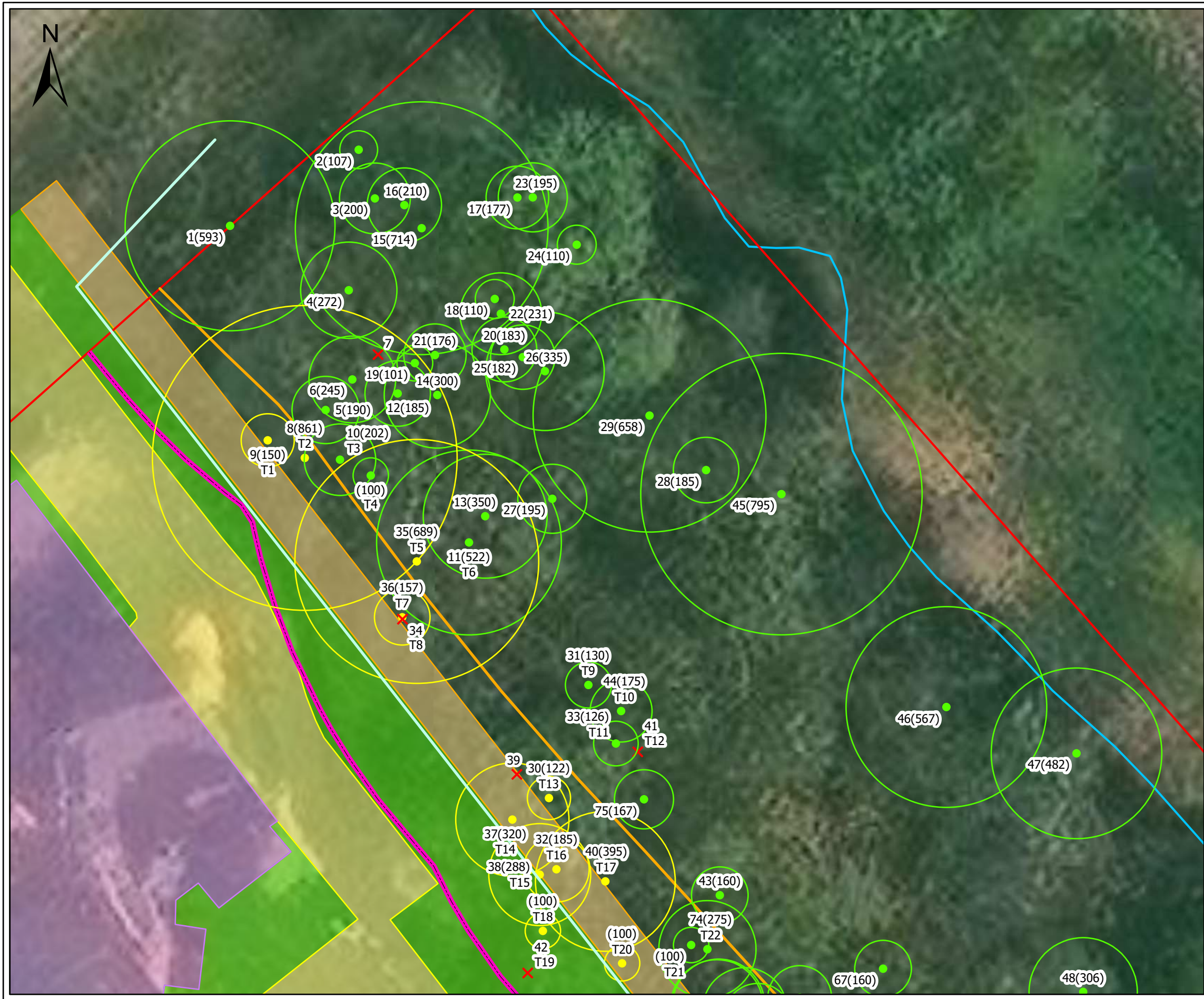
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Location
**788 March Road
Ottawa, Ontario**

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| Drwn By: E.P. | Chkd By: T.W. | Tree Inventory |
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City of Ottawa 2022 Imagery:



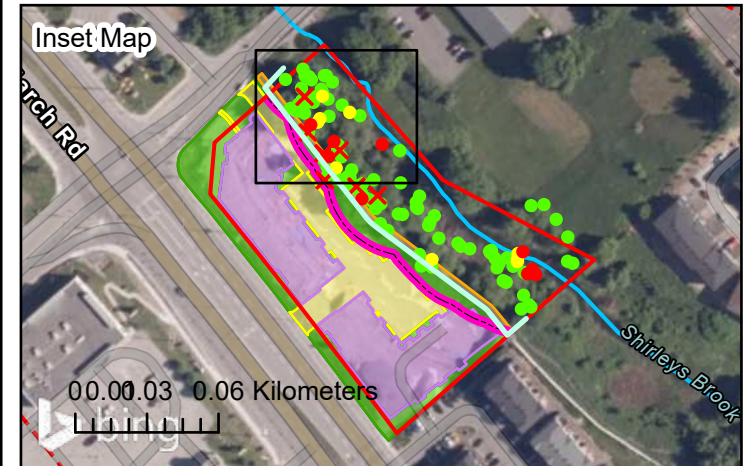
Legend

| | | | |
|--|-------------------------------|--|----------------------------------|
| | Property Boundary | | Tree Protection Fencing |
| | Study Area | | Proposed Building Footprint |
| | Watercourse | | Proposed Paved Area |
| | Approximate Limits Of Grading | | Proposed Soft Landscape Area |
| | 30 m Setback | | Conceptual Proposed Bicycle Path |

Tree Number (Critical Root Zone [cm])

- Retainable
- Conflict
- Dead

*JD Barnes Tree Number → T#
 *Pathway is conceptual and will be 'field fit' Spring 2026



Scale
 1:225

 0 5 10 Meters

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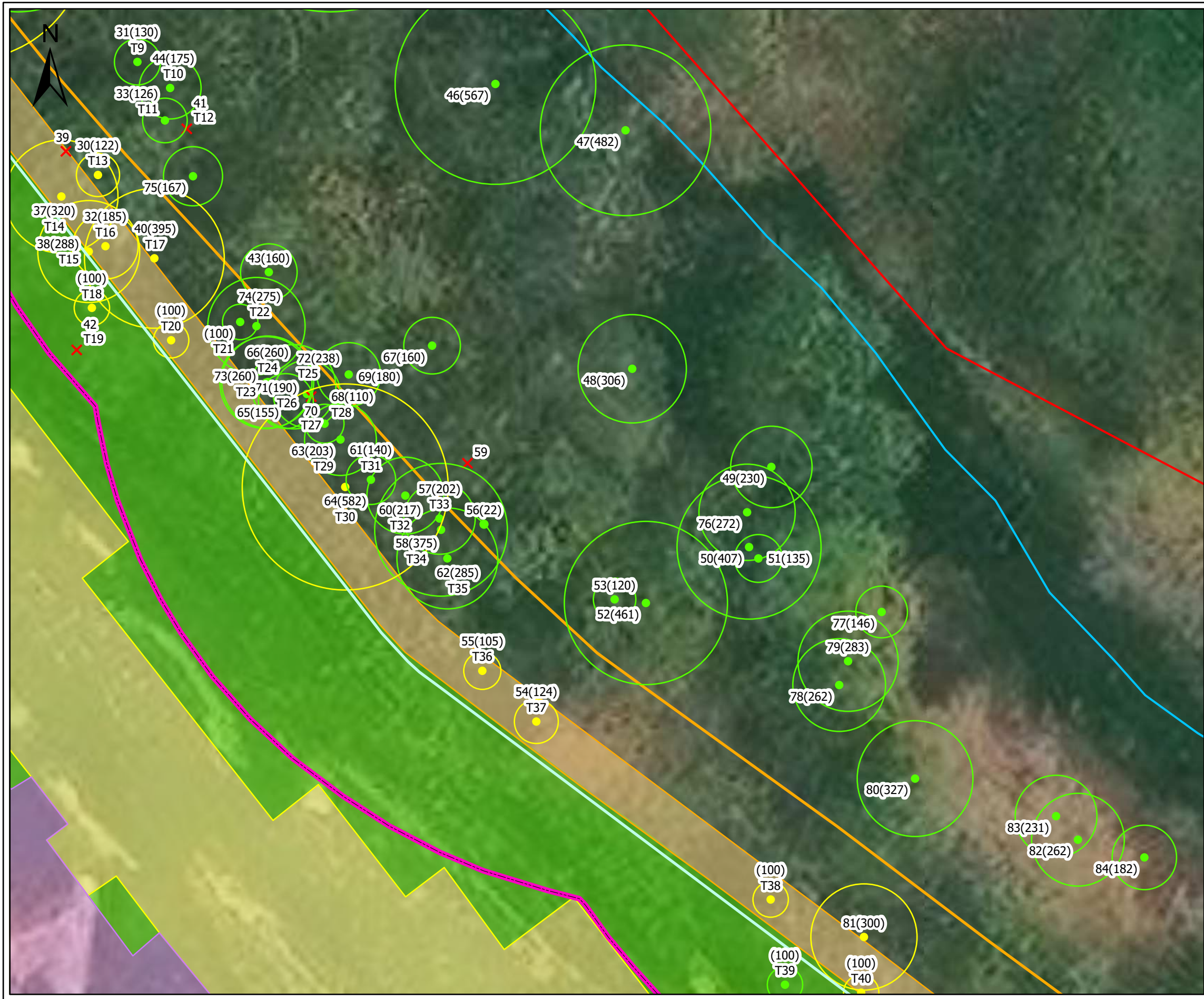
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| Location: | 788 March Road Ottawa, Ontario | | |
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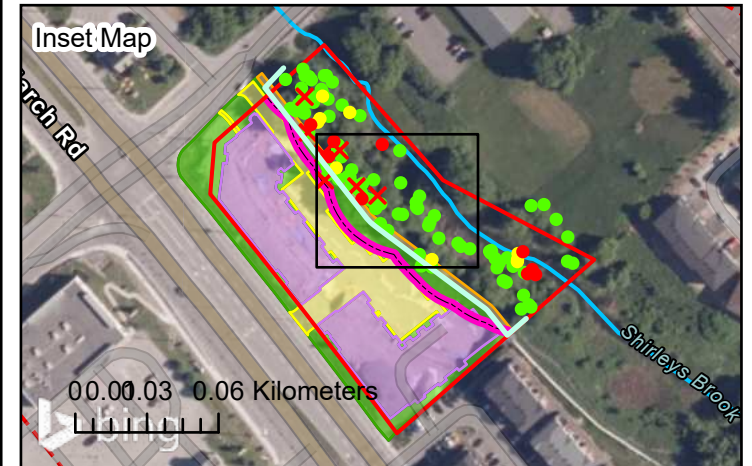
Legend

- Property Boundary
- Study Area
- Watercourse
- 30 m Setback
- Approximate Limits Of Grading
- Tree Protection Fencing
- Proposed Building Footprint
- Proposed Paved Area
- Proposed Soft Landscape Area
- Conceptual Proposed Bicycle Path

Tree Number (Critical Root Zone [cm])

- Retainable
- Conflict
- Dead

*JD Barnes Tree Number → T#
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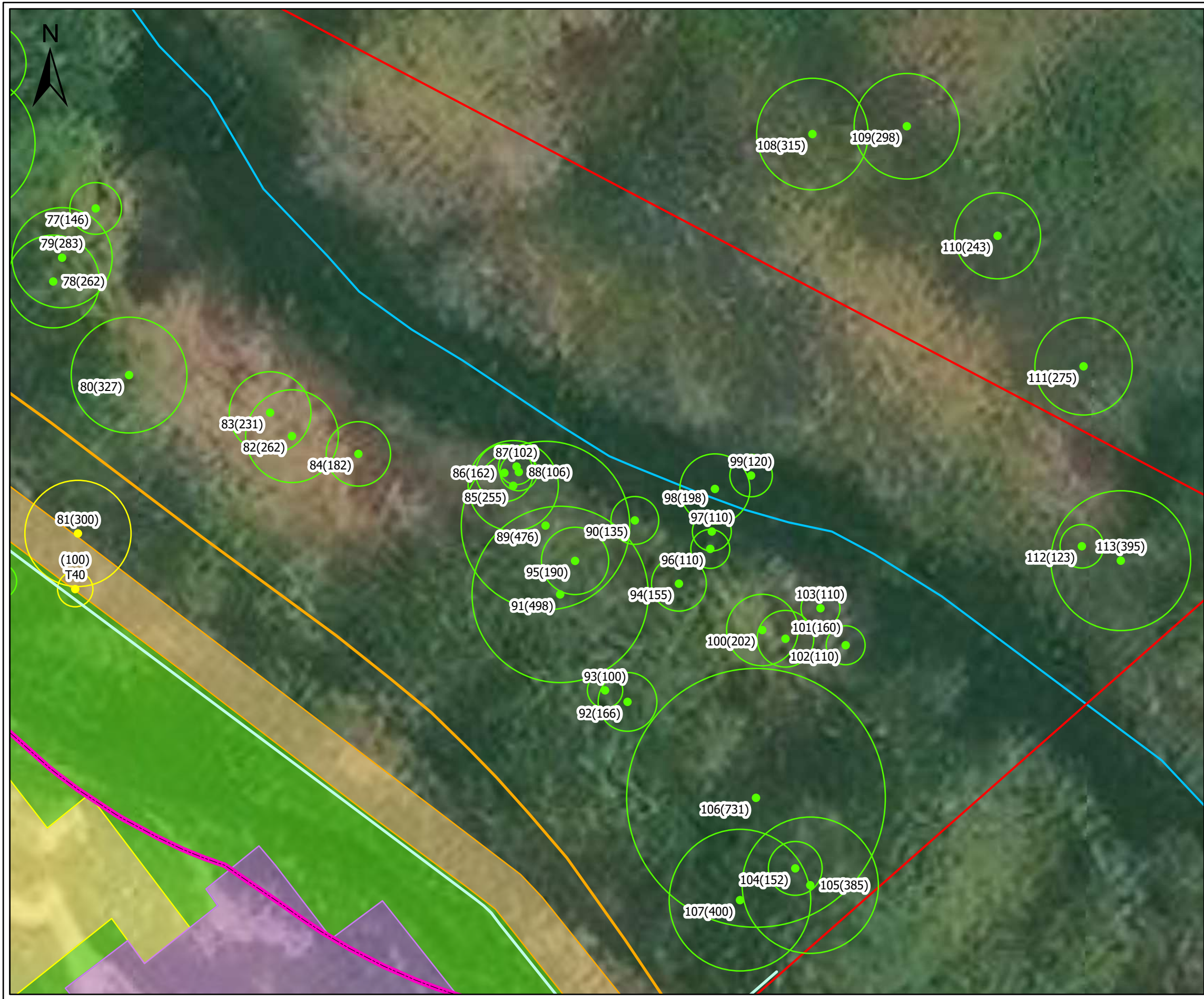
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Location
**788 March Road
 Ottawa, Ontario**

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| Drwn By: E.P. | Chkd By: T.W. | Tree Inventory | |
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| Date: September 2024 | Rev. 3 | Figure: A.4b |
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Coordinate System: NAD 1983 UTM Zone 18N
 Service Layer Credits: World Imagery: Maxar, Microsoft
 Hybrid Reference Layer: Esri Community Maps Contributors, City of Ottawa, Province of Ontario, Esri Canada, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, NRCan, Parks Canada



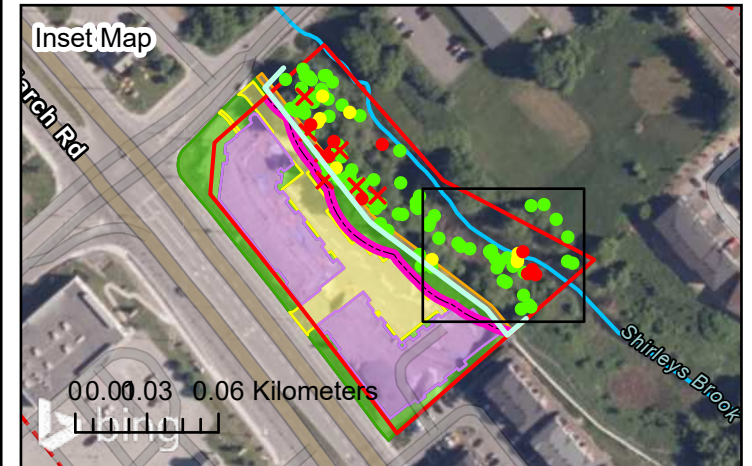
Legend

- Property Boundary
- Study Area
- Watercourse
- Approximate Limits Of Grading
- 30 m Setback
- Tree Protection Fencing
- Proposed Building Footprint
- Proposed Paved Area
- Conceptual Proposed Bicycle Path
- Proposed Soft Landscape Area

Tree Number (Critical Root Zone [cm])

- Retainable
- Conflict
- Dead

*JD Barnes Tree Number → T#
 *Pathway is conceptual and will be 'field fit' Spring 2026



GEMTEC
 CONSULTING ENGINEERS AND SCIENTISTS

32 Steacie Drive,
 Ottawa, ON K2K 2A9
 T: (613) 836-1422
 www.gemtec.ca
 ottawa@gemtec.ca

| | | | |
|---------|------|----------|------------|
| Client: | SINA | Project: | 103027.001 |
|---------|------|----------|------------|

| | | | |
|-----------|-----------------------------------|--|--|
| Location: | 788 March Road Ottawa, Ontario | | |
|-----------|-----------------------------------|--|--|

| | | | |
|----------|----------|----------------|--|
| Drwn By: | Chkd By: | Tree Inventory | |
| E.P. | T.W. | | |

| | | |
|------------------------------|--------|--------------|
| Date: September 2024 | Rev. 3 | Figure: A.4c |
| © King's Printer for Ontario | | |

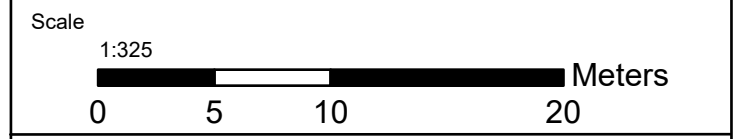
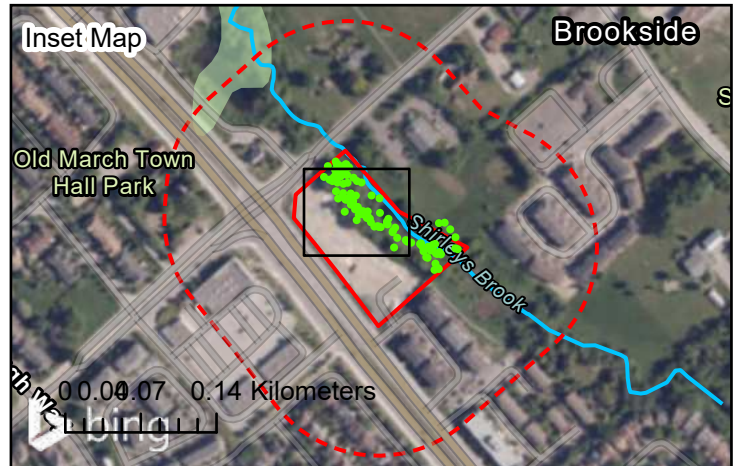
Coordinate System: NAD 1983 UTM Zone 18N
 Service Layer Credits: World Imagery: Maxar, Microsoft
 Hybrid Reference Layer: Esri Community Maps Contributors, City of Ottawa, Province of Ontario, Esri Canada, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, NRCan, Parks Canada



Legend

- Property Boundary
- Study Area
- Watercourse
- 30 m Setback
- Conflict - Build
- Conflict - Pathway
- Tree Protection Fencing
- Proposed Building Footprint
- Proposed Paved Area
- Conceptual Proposed Bicycle Path
- Proposed Soft Landscape Area

* Pathway is conceptual and will be 'field fit' Spring 2026



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| | |
|---------------------|---------------------|
| Client: SINA | Project: 103027.001 |
|---------------------|---------------------|

| |
|---|
| 788 March Road Ottawa, Ontario |
|---|

| | | |
|---------------|---------------|-----------------------|
| Drwn By: E.P. | Chkd By: T.W. | Conflict Trees |
|---------------|---------------|-----------------------|

| | | |
|------------------------------|--------|--------------------|
| Date: September 2024 | Rev. 3 | Figure: A.5 |
| © King's Printer for Ontario | | |

Coordinate System: NAD 1983 UTM Zone 18N
 Service Layer Credits: Hybrid Reference Layer: Esri Community Maps Contributors, City of Ottawa, Province of Ontario, Esri Canada, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, NRCAN, Parks Canada
 City of Ottawa 2022 Imagery:



APPENDIX B

Site Photographs



Site Photograph 1 – Wooded Area



Site Photograph 2 – Wooded Area



Site Photograph 3 – Disturbed Area and Wooded Area



Site Photograph 4 – Shirley's Brook and Riparian Area



APPENDIX C

Tree Inventory Summary Table

**TABLE C.1
TREE INVENTORY**

| Tree Number GEMTEC | Tree Number JD Barnes | Common Name | Scientific Name | Diameter (cm DBH) | Critical Root Zone (cm) | Condition | Retainable or Conflict | Significant Tree (> 50 cm) | Wildlife Tree |
|-----------------------|--------------------------|----------------|-------------------------------|-------------------|----------------------------|-----------|---------------------------|-------------------------------|---------------|
| 1 | -- | Red Maple | <i>Acer rubrum</i> | 59 | 593 | Healthy | Retainable | Yes | Yes |
| 2 | -- | Sugar Maple | <i>Acer saccharum</i> | 11 | 107 | Healthy | Retainable | No | No |
| 3 | -- | Manitoba Maple | <i>Acer negundo</i> | 20 | 200 | Healthy | Retainable | No | Yes |
| 4 | -- | Manitoba Maple | <i>Acer negundo</i> | 27 | 272 | Healthy | Retainable | No | No |
| 5 | -- | Manitoba Maple | <i>Acer negundo</i> | 19 | 190 | Healthy | Retainable | No | No |
| 6 | -- | Manitoba Maple | <i>Acer negundo</i> | 25 | 245 | Healthy | Retainable | No | No |
| 7 | -- | Manitoba Maple | <i>Acer negundo</i> | 16 | -- | Dead | Retainable | No | No |
| 8 | T2 | Manitoba Maple | <i>Acer negundo</i> | 86 | 861 | Healthy | Conflict | Yes | Yes |
| 9 | T1 | American Elm | <i>Ulmus americana</i> | 15 | 150 | Healthy | Conflict | No | No |
| 10 | T3 | American Elm | <i>Ulmus americana</i> | 20 | 202 | Healthy | Retainable | No | No |
| 11 | T6 | Manitoba Maple | <i>Acer negundo</i> | 52 | 522 | Good | Retainable | Yes | Yes |
| 12 | -- | American Elm | <i>Ulmus americana</i> | 19 | 185 | Healthy | Retainable | No | No |
| 13 | -- | Manitoba Maple | <i>Acer negundo</i> | 35 | 350 | Good | Retainable | No | Yes |
| 14 | -- | Manitoba Maple | <i>Acer negundo</i> | 30 | 300 | Healthy | Retainable | No | No |
| 15 | -- | Red Maple | <i>Acer rubrum</i> | 71 | 714 | Healthy | Retainable | Yes | Yes |
| 16 | -- | Manitoba Maple | <i>Acer negundo</i> | 21 | 210 | Healthy | Retainable | No | No |
| 17 | -- | Red Maple | <i>Acer rubrum</i> | 18 | 177 | Healthy | Retainable | No | No |
| 18 | -- | Red Maple | <i>Acer rubrum</i> | 11 | 110 | Healthy | Retainable | No | No |
| 19 | -- | Sugar Maple | <i>Acer saccharum</i> | 10 | 101 | Healthy | Retainable | No | No |
| 20 | -- | Manitoba Maple | <i>Acer negundo</i> | 18 | 183 | Good | Retainable | No | Yes |
| 21 | -- | Sugar Maple | <i>Acer saccharum</i> | 18 | 176 | Healthy | Retainable | No | No |
| 22 | -- | Sugar Maple | <i>Acer saccharum</i> | 23 | 231 | Healthy | Retainable | No | No |
| 23 | -- | Sugar Maple | <i>Acer saccharum</i> | 20 | 195 | Healthy | Retainable | No | No |
| 24 | -- | American Elm | <i>Ulmus americana</i> | 11 | 110 | Healthy | Retainable | No | No |
| 25 | -- | Manitoba Maple | <i>Acer negundo</i> | 18 | 182 | Healthy | Retainable | No | No |
| 26 | -- | Manitoba Maple | <i>Acer negundo</i> | 34 | 335 | Healthy | Retainable | No | No |
| 27 | -- | Bur Oak | <i>Quercus macrocarpa</i> | 20 | 195 | Healthy | Retainable | No | No |
| 28 | -- | Manitoba Maple | <i>Acer negundo</i> | 19 | 185 | Good | Retainable | No | Yes |
| 29 | -- | Manitoba Maple | <i>Acer negundo</i> | 66 | 658 | Healthy | Retainable | Yes | Yes |
| 30 | T13 | Green Ash | <i>Fraxinus pennsylvanica</i> | 12 | 122 | Poor | Conflict | No | No |
| 31 | T9 | Green Ash | <i>Fraxinus pennsylvanica</i> | 13 | 130 | Poor | Retainable | No | No |
| 32 | T16 | Manitoba Maple | <i>Acer negundo</i> | 19 | 185 | Healthy | Conflict | No | No |
| 33 | T11 | Manitoba Maple | <i>Acer negundo</i> | 13 | 126 | Healthy | Retainable | No | No |
| 34 | T8 | Manitoba Maple | <i>Acer negundo</i> | 16 | -- | Dead | Conflict | No | No |
| 35 | T5 | Manitoba Maple | <i>Acer negundo</i> | 69 | 689 | Poor | Conflict | Yes | Yes |
| 36 | T7 | Bur Oak | <i>Quercus macrocarpa</i> | 16 | 157 | Healthy | Conflict | No | No |
| 37 | T14 | Manitoba Maple | <i>Acer negundo</i> | 32 | 320 | Healthy | Conflict | No | No |
| 38 | T15 | Manitoba Maple | <i>Acer negundo</i> | 29 | 288 | Healthy | Conflict | No | No |
| 39 | -- | Green Ash | <i>Fraxinus pennsylvanica</i> | 20 | -- | Dead | Conflict | No | Yes |
| 40 | T17 | Manitoba Maple | <i>Acer negundo</i> | 40 | 395 | Good | Conflict | No | No |
| 41 | T12 | Green Ash | <i>Fraxinus pennsylvanica</i> | 13 | -- | Dead | Retainable | No | No |
| 42 | T19 | Manitoba Maple | <i>Acer negundo</i> | 25 | -- | Dead | Conflict | No | No |
| 43 | -- | Manitoba Maple | <i>Acer negundo</i> | 16 | 160 | Healthy | Retainable | No | No |
| 44 | T10 | Manitoba Maple | <i>Acer negundo</i> | 18 | 175 | Healthy | Retainable | No | No |
| 45 | -- | Manitoba Maple | <i>Acer negundo</i> | 79 | 795 | Healthy | Retainable | Yes | Yes |
| 46 | -- | Manitoba Maple | <i>Acer negundo</i> | 57 | 567 | Poor | Retainable | Yes | Yes |
| 47 | -- | Manitoba Maple | <i>Acer negundo</i> | 48 | 482 | Healthy | Retainable | No | No |
| 48 | -- | Manitoba Maple | <i>Acer negundo</i> | 31 | 306 | Healthy | Retainable | No | No |
| 49 | -- | Manitoba Maple | <i>Acer negundo</i> | 23 | 230 | Healthy | Retainable | No | No |
| 50 | -- | Manitoba Maple | <i>Acer negundo</i> | 41 | 407 | Healthy | Retainable | No | No |
| 51 | -- | Manitoba Maple | <i>Acer negundo</i> | 14 | 135 | Healthy | Retainable | No | No |
| 52 | -- | Manitoba Maple | <i>Acer negundo</i> | 46 | 461 | Healthy | Retainable | No | No |

**TABLE C.1
TREE INVENTORY**

| Tree Number GEMTEC | Tree Number JD Barnes | Common Name | Scientific Name | Diameter (cm DBH) | Critical Root Zone (cm) | Condition | Retainable or Conflict | Significant Tree (> 50 cm) | Wildlife Tree |
|-----------------------|--------------------------|----------------|-------------------------------|-------------------|----------------------------|-----------|---------------------------|-------------------------------|---------------|
| 53 | -- | Manitoba Maple | <i>Acer negundo</i> | 12 | 120 | Healthy | Retainable | No | No |
| 54 | T37 | Manitoba Maple | <i>Acer negundo</i> | 12 | 124 | Healthy | Conflict | No | No |
| 55 | T36 | Green Ash | <i>Fraxinus pennsylvanica</i> | 11 | 105 | Healthy | Conflict | No | No |
| 56 | -- | Manitoba Maple | <i>Acer negundo</i> | 22 | 22 | Healthy | Retainable | No | No |
| 57 | T33 | Manitoba Maple | <i>Acer negundo</i> | 20 | 202 | Healthy | Retainable | No | No |
| 58 | T34 | Manitoba Maple | <i>Acer negundo</i> | 38 | 375 | Healthy | Retainable | No | No |
| 59 | -- | Manitoba Maple | <i>Acer negundo</i> | 20 | -- | Dead | Retainable | No | No |
| 60 | T32 | Manitoba Maple | <i>Acer negundo</i> | 22 | 217 | Healthy | Retainable | No | No |
| 61 | T31 | Manitoba Maple | <i>Acer negundo</i> | 14 | 140 | Healthy | Retainable | No | No |
| 62 | T35 | Manitoba Maple | <i>Acer negundo</i> | 28 | 285 | Healthy | Retainable | No | No |
| 63 | T29 | Manitoba Maple | <i>Acer negundo</i> | 20 | 203 | Healthy | Retainable | No | No |
| 64 | T30 | Manitoba Maple | <i>Acer negundo</i> | 58 | 582 | Poor | Conflict | Yes | Yes |
| 65 | -- | Manitoba Maple | <i>Acer negundo</i> | 16 | 155 | Healthy | Retainable | No | No |
| 66 | T24 | Manitoba Maple | <i>Acer negundo</i> | 26 | 260 | Healthy | Retainable | No | No |
| 67 | -- | Manitoba Maple | <i>Acer negundo</i> | 16 | 160 | Healthy | Retainable | No | No |
| 68 | T28 | Manitoba Maple | <i>Acer negundo</i> | 11 | 110 | Healthy | Retainable | No | No |
| 69 | -- | Manitoba Maple | <i>Acer negundo</i> | 18 | 180 | Healthy | Retainable | No | No |
| 70 | T27 | Manitoba Maple | <i>Acer negundo</i> | 18 | -- | Dead | Retainable | No | No |
| 71 | T26 | Manitoba Maple | <i>Acer negundo</i> | 19 | 190 | Healthy | Retainable | No | No |
| 72 | T25 | Manitoba Maple | <i>Acer negundo</i> | 24 | 238 | Healthy | Retainable | No | No |
| 73 | T23 | Manitoba Maple | <i>Acer negundo</i> | 26 | 260 | Healthy | Retainable | No | No |
| 74 | T22 | Manitoba Maple | <i>Acer negundo</i> | 27 | 275 | Healthy | Retainable | No | No |
| 75 | -- | Manitoba Maple | <i>Acer negundo</i> | 17 | 167 | Healthy | Retainable | No | No |
| 76 | -- | Manitoba Maple | <i>Acer negundo</i> | 27 | 272 | Healthy | Retainable | No | Yes |
| 77 | -- | Manitoba Maple | <i>Acer negundo</i> | 15 | 146 | Healthy | Retainable | No | No |
| 78 | -- | Manitoba Maple | <i>Acer negundo</i> | 26 | 262 | Healthy | Retainable | No | No |
| 79 | -- | Manitoba Maple | <i>Acer negundo</i> | 28 | 283 | Healthy | Retainable | No | No |
| 80 | -- | Manitoba Maple | <i>Acer negundo</i> | 33 | 327 | Healthy | Retainable | No | No |
| 81 | -- | Green Ash | <i>Fraxinus pennsylvanica</i> | 30 | 300 | Good | Conflict | No | No |
| 82 | -- | Manitoba Maple | <i>Acer negundo</i> | 26 | 262 | Healthy | Retainable | No | No |
| 83 | -- | Manitoba Maple | <i>Acer negundo</i> | 23 | 231 | Healthy | Retainable | No | No |
| 84 | -- | Manitoba Maple | <i>Acer negundo</i> | 18 | 182 | Healthy | Retainable | No | No |
| 85 | -- | Manitoba Maple | <i>Acer negundo</i> | 26 | 255 | Healthy | Retainable | No | No |
| 86 | -- | Manitoba Maple | <i>Acer negundo</i> | 16 | 162 | Healthy | Retainable | No | No |
| 87 | -- | Manitoba Maple | <i>Acer negundo</i> | 10 | 102 | Healthy | Retainable | No | No |
| 88 | -- | Manitoba Maple | <i>Acer negundo</i> | 11 | 106 | Healthy | Retainable | No | No |
| 89 | -- | Manitoba Maple | <i>Acer negundo</i> | 48 | 476 | Healthy | Retainable | No | Yes |
| 90 | -- | Manitoba Maple | <i>Acer negundo</i> | 14 | 135 | Healthy | Retainable | No | No |
| 91 | -- | Manitoba Maple | <i>Acer negundo</i> | 50 | 498 | Healthy | Retainable | Yes | No |
| 92 | -- | Manitoba Maple | <i>Acer negundo</i> | 17 | 166 | Healthy | Retainable | No | No |
| 93 | -- | Manitoba Maple | <i>Acer negundo</i> | 10 | 100 | Healthy | Retainable | No | No |
| 94 | -- | Manitoba Maple | <i>Acer negundo</i> | 16 | 155 | Healthy | Retainable | No | No |
| 95 | -- | Manitoba Maple | <i>Acer negundo</i> | 19 | 190 | Healthy | Retainable | No | No |
| 96 | -- | Manitoba Maple | <i>Acer negundo</i> | 11 | 110 | Good | Retainable | No | No |
| 97 | -- | Manitoba Maple | <i>Acer negundo</i> | 11 | 110 | Good | Retainable | No | No |
| 98 | -- | Manitoba Maple | <i>Acer negundo</i> | 20 | 198 | Good | Retainable | No | No |
| 99 | -- | Manitoba Maple | <i>Acer negundo</i> | 12 | 120 | Poor | Retainable | No | No |
| 100 | -- | Manitoba Maple | <i>Acer negundo</i> | 20 | 202 | Healthy | Retainable | No | No |
| 101 | -- | Green Ash | <i>Fraxinus pennsylvanica</i> | 16 | 160 | Poor | Retainable | No | No |
| 102 | -- | Green Ash | <i>Fraxinus pennsylvanica</i> | 11 | 110 | Poor | Retainable | No | No |
| 103 | -- | Green Ash | <i>Fraxinus pennsylvanica</i> | 11 | 110 | Poor | Retainable | No | No |

**TABLE C.1
TREE INVENTORY**

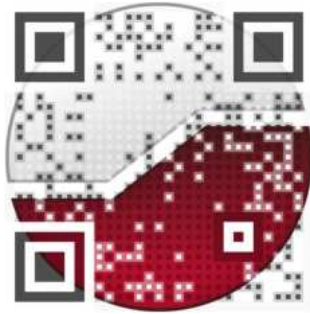
| Tree Number GEMTEC | Tree Number JD Barnes | Common Name | Scientific Name | Diameter (cm DBH) | Critical Root Zone (cm) | Condition | Retainable or Conflict | Significant Tree (> 50 cm) | Wildlife Tree |
|-----------------------|--------------------------|--------------------|-------------------------------|-------------------|----------------------------|-----------|---------------------------|-------------------------------|---------------|
| 104 | -- | Green Ash | <i>Fraxinus pennsylvanica</i> | 15 | 152 | Healthy | Retainable | No | No |
| 105 | -- | Bur Oak | <i>Quercus macrocarpa</i> | 39 | 385 | Healthy | Retainable | No | No |
| 106 | -- | Manitoba Maple | <i>Acer negundo</i> | 73 | 731 | Healthy | Retainable | Yes | Yes |
| 107 | -- | American Elm | <i>Ulmus americana</i> | 40 | 400 | Healthy | Retainable | No | No |
| 108 | -- | Black Walnut | <i>Juglans nigra</i> | 31 | 315 | Healthy | Retainable | No | No |
| 109 | -- | Black Walnut | <i>Juglans nigra</i> | 30 | 298 | Healthy | Retainable | No | No |
| 110 | -- | Black Walnut | <i>Juglans nigra</i> | 24 | 243 | Healthy | Retainable | No | No |
| 111 | -- | Black Walnut | <i>Juglans nigra</i> | 28 | 275 | Healthy | Retainable | No | No |
| 112 | -- | Manitoba Maple | <i>Acer negundo</i> | 12 | 123 | Healthy | Retainable | No | No |
| 113 | -- | Eastern White Pine | <i>Strobus pinus</i> | 40 | 395 | Healthy | Retainable | No | No |
| -- | T4 | -- | -- | 10 | 100 | -- | Retainable | -- | -- |
| -- | T18 | -- | -- | 10 | 100 | -- | Conflict | -- | -- |
| -- | T20 | -- | -- | 10 | 100 | -- | Conflict | -- | -- |
| -- | T21 | -- | -- | 10 | 100 | -- | Retainable | -- | -- |
| -- | T38 | -- | -- | 10 | 100 | -- | Conflict | -- | -- |
| -- | T39 | -- | -- | 10 | 100 | -- | Retainable | -- | -- |
| -- | T40 | -- | -- | 10 | 100 | -- | Conflict | -- | -- |



APPENDIX D

City of Ottawa Tree Protection

experience • knowledge • integrity

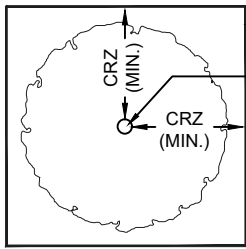


civil
geotechnical
environmental
field services
materials testing

civil
géotechnique
environnementale
surveillance de chantier
service de laboratoire des matériaux

expérience • connaissance • intégrité





PLAN VIEW

TREE PROTECTION FENCING

TREE TRUNK

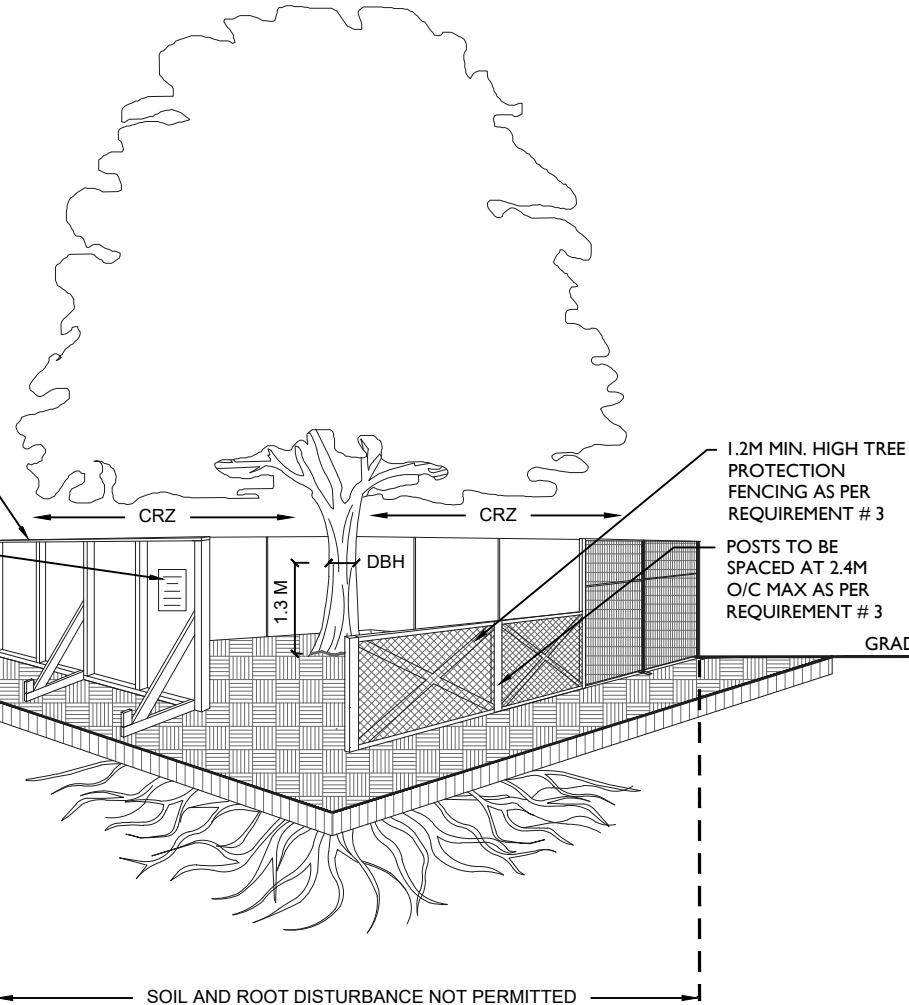
CRZ (MIN.)

CRZ (MIN.)

CRZ = DBH X 10CM.
CRZ IS TO BE MEASURED FROM THE OUTSIDE EDGE OF THE TREE BASE

TREE PROTECTION SIGNAGE AS PER CITY STANDARD

GRADE



1.2M MIN. HIGH TREE PROTECTION FENCING AS PER REQUIREMENT # 3

POSTS TO BE SPACED AT 2.4M O/C MAX AS PER REQUIREMENT # 3

SOIL AND ROOT DISTURBANCE NOT PERMITTED

TREE PROTECTION REQUIREMENTS:

1. PRIOR TO ANY WORK ACTIVITY WITHIN THE CRITICAL ROOT ZONE (CRZ = 10 X DIAMETER) OF A TREE, TREE PROTECTION FENCING MUST BE INSTALLED SURROUNDING THE CRITICAL ROOT ZONE, AND REMAIN IN PLACE UNTIL THE WORK IS COMPLETE.
2. UNLESS PLANS ARE APPROVED BY CITY FORESTRY STAFF, FOR WORK WITHIN THE CRZ:
 - DO NOT PLACE ANY MATERIAL OR EQUIPMENT - INCLUDING OUTHOUSES;
 - DO NOT ATTACH ANY SIGNS, NOTICES OR POSTERS TO ANY TREE;
 - DO NOT RAISE OR LOWER THE EXISTING GRADE;
 - TUNNEL OR BORE WHEN DIGGING;
 - DO NOT DAMAGE THE ROOT SYSTEM, TRUNK, OR BRANCHES OR ANY TREE;
 - ENSURE THAT EXHAUST FUMES FROM ALL EQUIPMENT ARE NOT DIRECTED TOWARD ANY TREE CANOPY.
 - DO NOT EXTEND HARD SURFACE OR SIGNIFICANTLY CHANGE LANDSCAPING
3. TREE PROTECTION FENCING MUST BE AT LEAST 1.2M IN HEIGHT, AND CONSTRUCTED OF RIGID OR FRAMED MATERIALS (E.G. MODULOC - STEEL, PLYWOOD HOARDING, OR SNOW FENCE ON A 2"X4" WOOD FRAME) WITH POSTS 2.4M APART, SUCH THAT THE FENCE LOCATION CANNOT BE ALTERED. ALL SUPPORTS AND BRACING MUST BE PLACED OUTSIDE OF THE CRZ, AND INSTALLATION MUST MINIMISE DAMAGE TO EXISTING ROOTS. (SEE DETAIL)
4. THE LOCATION OF THE TREE PROTECTION FENCING MUST BE DETERMINED BY AN ARBORIST AND DETAILED ON ANY ASSOCIATED PLANS FOR THE SITE (E.G. TREE CONSERVATION REPORT, TREE INFORMATION REPORT, ETC). THE PLAN AND CONSTRUCTED FENCING MUST BE APPROVED BY CITY FORESTRY STAFF PRIOR TO THE COMMENCEMENT OF WORK.
5. IF THE FENCED TREE PROTECTION AREA MUST BE REDUCED TO FACILITATE CONSTRUCTION, MITIGATION MEASURES MUST BE PRESCRIBED BY AN ARBORIST AND APPROVED BY CITY FORESTRY STAFF. THESE MAY INCLUDE THE PLACEMENT OF PLYWOOD, WOOD CHIPS, OR STEEL PLATING OVER THE ROOTS FOR PROTECTION OR THE PROPER PRUNING AND CARE OF ROOTS WHERE ENCOUNTERED.

THE CITY'S TREE PROTECTION BY-LAW, 2020-340 PROTECTS BOTH CITY-OWNED TREES, CITY-WIDE, AND PRIVATELY-OWNED TREES WITHIN THE URBAN AREA. PLEASE REFER TO WWW.OTTAWA.CA/TREEBYLAW FOR MORE INFORMATION ON HOW THE TREE BY-LAW APPLIES.

ACCESSIBLE FORMATS AND COMMUNICATION SUPPORTS ARE AVAILABLE, UPON REQUEST



TREE PROTECTION SPECIFICATION

TO BE IMPLEMENTED FOR RETAINED TREES, BOTH ON SITE AND ON ADJACENT SITES, PRIOR TO ANY TREE REMOVAL OR SITE WORKS AND MAINTAINED FOR THE DURATION OF WORK ACTIVITIES ON SITE.

SCALE: NTS

DATE: MARCH 2021

DRAWING NO.: 1 of 1