Tree Conservation Report

150 Kanata Avenue

April 6, 2022

Prepared for:

EMD-Batimo Group

Prepared by:

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Prepared by 
(signature)

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Glossary

Critical Root Zone (CRZ)	Zone under a tree where there should be no disturbance before, during and after construction. The CRZ is established as being 10 centimetres from the trunk of a tree for every centimetre of trunk diameter.
Diameter at Breast Height (DBH)	Diameter of a tree trunk measured at 1.4 metre above ground, standardized by the Council of Tree and Landscape Appraisers and the International Society of Arboriculture. DBH are generally measured in centimetres.
Dieback	Condition in which the ends of the branches are dying.
Distinctive Tree	Any tree, growing on a private property with a • DBH of 30 centimetres or greater, within the City of Ottawa Inner Urban Area (City of Ottawa Tree Protection By-law 2020-340); and • DBH of 50 centimetres or greater, within the City of Ottawa Suburban Area (City of Ottawa Tree Protection By-law 2020-340).
Drip Line	Perimeter of the area under a tree delineated by the crown.
Health Condition	Tree Health Condition of each trees is defined as one of the following: • Good: Defects, if present, are minor (i.e., twig dieback, small wounds) and canopy foliage is full with limited defective parts (i.e. limb up to 5cm in diameter). Overall colour and terminal shoot growth appear normal for the species. • Fair: Defects are visually present (i.e., dead scaffold limbs) and canopy foliage may be thinner than normal compared to the species with defective parts considered moderate in size

	(i.e. limb greater than 5cm in diameter). Overall colour and terminal shoot growth appear abnormal for the species. • Poor: Defects are visually severe (i.e. trunk cavities) and canopy foliage is thin with significant defective parts (i.e. majority of crown). Overall colour appear abnormal for the species with minimal terminal shoot growth. • Declining / Dead: Tree is dead or in severe decline with low chance for recovery. Canopy foliage is sparse, if present.
Leader	The primary terminal shoot or trunk of a tree.
Ownership (Tree)	As defined by the City of Ottawa Tree Protection By-law 2020-340: • Private: Tree growing on the subject site. • Boundary: Tree of which any part of the trunk is growing across one of more property lines. • Adjacent: Tree whose trunk is growing on a property sharing a boundary with the subject site. • City / Municipal: Tree municipally owned.
Sapling	A young tree measuring one (1) to two (2) metres high and having a DBH of two (2) to four (4) centimetres.
Scaffold Branches	The permanent or structural branches of a tree.
Seedling	A plant grown from a seed with a height of not more than one (1) metre.
Significant Tree	Tree / shrub deemed valuable because it is unusually beautiful or distinctive, comparatively old, distinctive in size or structure for its species, rare or unusual in the subject area, provides a habitat for rare or unusual wildlife species in the subject area, or has an historical, cultural, or landmark significance.

Significant Woodland	Woodland that contains mature stands of trees 80 years or older, have interior forest habitat more than 100 metres from forest edge, and are adjacent to a surface water feature.
Specimen Tree	Individual tree located in the middle of a field or open space. A specimen tree is not automatically a significant tree.
Stress	Any factor that negatively affects the health of a tree.
Structural Defect	Flaws, decay, or other faults in the trunk, branches, or root collar of a tree, which may lead to failure.
Topping (Topped)	Cutting back a tree to buds, stubs, or laterals not large enough to become a new leader on the tree.
Tree Protection Zone (TPZ)	The area surrounding a tree that is marked and fenced off and where there is no storage of materials of any kind, no parking or moving of vehicles, and no disturbance of the soil or grade.
Tree Shoots	Tree shoots are sprouts that emerge from dormant buds along the trunk or branch of a tree. In an urban environment, shoots are often associated with stress to the tree. Trees with severe dieback due to winter injury, drought and salt spray often produce many shoots as a means of compensating for the loss of leaf surface due to stress or injury.
Tree Suckers	Tree suckers are sprouts that form from the roots of existing trees and tend to form new trees or shrubs. In an urban environment suckers can be associated with stress to the tree and are prevalent after a disturbance such as when mature trees are cut down. Some tree species have the tendency to sucker.
Vigour	Overall health; capacity to grow and resist stress.

1.0 INTRODUCTION

1.1 BACKGROUND AND OBJECTIVES

Stantec Consulting Ltd. was retained by EMD-Batimo Group to complete a Tree Conservation Report in support of the development of the property located at 150 Kanata Avenue with a new building primarily tailored for seniors. The site is part of a larger site known as 6301 Campeau Drive owned by the City of Ottawa and is planned to have the eastern portion of the site divided into development parcels. In early 2020, an *Environmental Impact Statement and Tree Conservation Report* (Stantec 2020) was prepared by Stantec in support for the future redevelopment of this land including an expansion of Bill Teron Park, an existing City Park, and parcels to be sold to prospective developers for new residential and/or commercial buildings.

This Tree Conservation Report provides a review of the site development and anticipated impacts to trees growing on this property. The objectives of this report are to:

- Describe the existing trees growing on site. The description of the trees includes species, size, and health condition.
- Assess the environmental value and tolerance to site disturbances for retention of the existing trees based on construction clearances.
- Evaluate the anticipated impact(s) of the proposed development on the existing trees.
- Provide recommendations related to tree protection and mitigation measures to reduce negative impacts on the trees to be retained.
- Provide recommendations for the development of a compensation planting plan.

1.2 SUBJECT SITE

The Subject Site, or 150 Kanata Avenue, is located northwest of Highway 417, south of Campeau Drive, and north of the commercial area known as Kanata Centrum. The Subject Site is more specifically located on Kanata Avenue, a major arterial roadway, at the corner of Maritime Way, a roadway leading to a new community mixing residential buildings and hotels as illustrated on **Figure 1** below. Currently, the site is forested and slopes towards Kanata Avenue. The eastern and southern properties are developed with commercials and residential developments. The future lot to the west of the Subject Site will be developed with a mixed-use building. Bill Teron Park is located west with a future extension of the park planned to extend north of the Subject Site. Because of the proximity of the Subject Site to Bill Teron Park and mixed-used development and due to its current forested state, trails and other anthropogenic elements are visible on the Subject Site.

Figure 1 Study Area

The property is 1.57 hectares (3.89 acres) in size. The Subject Site will be purchased by EMD-Batimo Group in early 2022 to the City of Ottawa with the intent to develop the property with a mixed-use building including commercial and residential units. By its location within the City of Ottawa, the project site is situated within the City of Ottawa Suburban Area as defined by Schedule F of the *City of Ottawa's Tree Protection By-law* (By-law No. 2020-340) (City of Ottawa 2021a). The *City of Ottawa's Tree Protection By-law* was used to framework the tree assessment and tree retention mitigation recommendations for this project. Trees 10 centimetres (cm) DBH or greater have been assessed in terms of species, sizes, and overall health conditions; as required by the City of Ottawa.

2.0 TREE ASSESSMENT

On March 4, 2022, Stantec carried out an inventory of trees found within the identified study area of 150 Kanata Avenue in Ottawa. The tree inventory was completed using the framework outlined by the *City of Ottawa's Tree Protection By-law* (By-law No. 2020-340) (City of Ottawa 2021a) for tree assessments. Tree species were determined, diameter at breast height (DBH) were measured, and overall health conditions were assessed during this tree assessment investigation.

2.1 METHODOLOGY

The assessment of trees growing at 150 Kanata Avenue and along property boundaries was completed as part of this tree investigation. Prior to the field investigation carried out on March 4, 2022, the vegetation communities were classified during a 2019 field investigation (Stantec 2020) using Ontario's Ecological Land Classification (ELC) system (Lee et al. 1998) and included Dry-Fresh Sugar Maple-Ironwood Deciduous Forest Type (FODM5-4). The 2019 field investigation consisted in a general review of the larger Bill Teron Park area.

As part of the current tree assessment, a detailed review of municipal trees growing inside the roads rights-of-way and those trees growing within the Subject Site but near the property line was completed. Additional trees providing special characteristics different from surrounding trees such as species, sizes, or health have also been recorded during this tree assessment investigation. All existing trees growing along the property lines and with a DBH of 10 cm or greater were assessed as required by the *City of Ottawa's Tree Protection By-law.* Considering the Subject Site is wooded and the proposed development is for a mixed commercial and residential property as approved by the City of Ottawa Planning and Realty groups, trees growing inside the Subject Site was not completed individually but rather average sizes and health conditions were provided; the distribution of tree species within the grouping was also determined on site. Trees were measured using a metric measuring tape. Tree locations was determined using the topographical survey prepared by Annis O'Sullivan Vollebekk (AOV) Ltd and providing tree locations for those growing near property lines. In total, 201 individual trees were assessed on site or adjacent to the subject site and three (3) groupings were reviewed.

During the tree assessment investigation, the species were determined based on bark and buds identification. Furthermore, a visual assessment was conducted of their health condition where the vigor was assessed based on visible defects only.

2.2 OBSERVATIONS

Currently, the site is forested and slopes towards Kanata Avenue. On March 4, 2022, a snow fence was installed along the western property line; some preliminary survey works or establishment of the boundary lines for 180 Kanata Avenue, the adjacent property to be developed, were visible. Some trees included in this tree assessment were located within the "fenced" area outlined as part of the adjacent development.

Within the tree inventory survey area, a total of 201 trees with a DBH equal to or greater than 10 cm were assessed, and three (3) groupings of vegetation were reviewed. On site, Stantec identified 15 different tree species. A total of 14 trees or 7% of the trees are distinctive trees (i.e. tree 50cm DBH or greater (City of Ottawa 2021a)) and were surveyed on site and on the adjacent property. The tree health for all trees in this surveyed area varied from good to poor with presence of dead trees.

The trees are generally evenly naturally distributed on site with some open "pockets" without any trees; the presence of snow did not provide the opportunity to determine if these openings are the result of bedrock being at the surface. Other openings are created by fallen trees; a number of fallen trees have been observed on the Subject site.

The understorey layer inside the Subject Site is minimal visually with the presence of shrubs (buckthorn and sumac) observable at the edges of the Subject Site along Kanata Avenue and Maritime Way where more light is available during the growing season.

The Tree Assessment Table (i.e. species, DBH, and health conditions) is provided in **Appendix A** of this report with photographs depicting the overall existing forest conditions provided in **Appendix B**. The locations of all trees inventoried as part of this tree investigation are provided on the accompanying ***Current Vegetation Plan (TC01)*** included in **Appendix C** of this report. Although trees are shown on the drawings inserted in Appendix C of this report not all trees on this forested lots have been surveyed by a surveyor; all trees should be confirmed on site at time of the layout of the new site features.

The following sections provide the description of the qualities of the trees growing on the Subject Site. Only the information related to individual trees assessed during the tree investigation is included in the sections below; the tree species, sizes and health information for the larger groupings are not included in the site statistics however it should be noted the trees inventoried are representative of the overall forested area. The tables below should be considered as the average indication of the species, sizes, and health distribution for the Subject Site.

2.2.1 Tree Species Distribution

Overall, the Subject Site offers a good diversity of tree species. Although a total of 15 different species were inventoried during the tree assessment investigation and listed below in **Table 1**, the presence of yellow birch (*Betula alleghaniensis*) was observed on site as part of the larger grouping 204 and as such is not included in Table 1; only 3 individuals of this species were observed. Additional white birch trees were also growing in the larger grouping 204. In addition, a mix of different oak species were observed on site including red oak and white oak; it was not possible to identify the species on some oak trees and as such a general oak genus is listed in Table 1. All species observed on site are native tree species.

As indicated in the *2020 Environmental Impact Statement and Tree Conservation Report* (Stantec 2020), the dominant tree species is the sugar maple counting for almost 50% of all tree species present on the Subject Site. The ironwood is the second tree species growing on this site. The white pines are the predominant coniferous species on the Subject Site; more white pines are present north of the Subject Site.

All trees inventoried with the exception of the honeylocust are part of the natural wooded area; all eight (8) honeylocust were planted when Maritime Way was construted approximately ten years ago (around 2010-2011 based on aerial imagery provided on geoOttawa).

Table 1 Tree Species Summary

Species - Botanical Name	Species – Common Name	Quantity	Distribution (%)
Acer saccharum	Sugar Maple	89	44
Ostrya virginiana	Ironwood	55	27.5
Tilia americana	Basswood	15	7.5
Fraxinus pennsylvanica	Red Ash	9	4.5
Gleditsia triacanthos	Honeylocust	8	4
Quercus spp.	Oak	6	3
Undefined - Dead	Undefined - Dead	5	2.5
Pinus strobus	Eastern White Pine	4	2
Populus tremuloides	Trembling Aspen	3	1.5
Picea glauca	White Spruce	2	1
Thuja occidentalis	Eastern White Cedar	2	1
Abies balsamea	Balsam Fir	1	0.5
Betula papyrifera	White Birch	1	0.5
Prunus serotina	Black Cherry	1	0.5
	TOTAL	**201**	**100%**

The largest grouping of vegetation #204, although not included in Table 1 above, is similar to what is described in this table with the two (2) main species of the grouping composing the majority of the species.

2.2.2 Tree Size Distribution

Overall, the predominant size of trees growing on and along the Subject Site included almost 75% of trees with a DBH of less than 30 cm. Although saplings are present on the Subject Site, the majority of the trees have a DBH of 10cm or more. The size distribution for the trees inventoried and growing within the entire study area is depicted in **Table 2** below. It should be noted all dead trees or trees in declining health are also included in the Tree Size Summary Table below.

Of interest, although a total of 14 trees (7%) are considered distinctive trees as defined by the *City of Ottawa's Tree Protection By-law* (By-law No. 2020-340) (City of Ottawa 2021a), these distinctive trees are rarely in good condition (only 2 out of 14) with five (5) distinctive trees being in a poor or declining health or being dead.

Table 2 Tree Size Summary (based on DBH)

	10 to 29cm DBH	30 to 49 cm DBH	Equal or Over 50cm DBH	TOTAL
No. of Trees	148	39	14	**201**
Distribution (%)	74	19	7	**100%**

2.2.3 Tree Health Condition Distribution

The condition or health of trees on the Subject Site was found to be good, with 51% in good to good/fair conditions. Some common health observations include the following:

- The ash trees are showing signs of Emerald Ash Borer. These trees are usually in poor health conditions, showing signs of severe declining health or dead. As indicated in Table 1 above, a total of nine (9) red ash or 4.5% were inventoried during the tree assessment investigation.
- When combining the poor to poor/declining and dead trees it is observed that approximately 20.5% of the trees are not showing good health condition. This is observable through the presence of fallen trees over the entire Subject Site and dead standing trees.
- Most trees with a DBH equals or greater than 50 cm are in overall fair to poor health condition with three (3) of these trees being dead and two (2) others in declining health.

The health condition distribution for the trees inventoried inside the Subject Site is depicted in Ta**ble 3** below.

Table 3 Tree Health Condition Distribution

	Good to Good/Fair	Fair to Fair/Poor	Poor to Poor/Declining	Dead	TOTAL
No. of Trees	103	57	25	16	**201**
Distribution (%)	51.25	28.25	12.50	8	**100%**

2.2.4 Species-at-Risk and Other Trees of Interest

No Species-at-Risk tree (i.e., Butternut trees and Black Ash) were observed on site during the tree assessment investigation. It should be noted the *2020 Environmental Impact Statement and Tree Conservation Report* (Stantec 2020) reported two (2) dead butternuts and one (1) butternut Category 2. As part of the environmental assessment for the detailed development and site plan application for the Subject Site, another Butternut Health Assessment will be completed late Spring 2022. Updated information related to butternut trees will be provided in the SAR report once available.

2.3 VEGETATION QUALITY AND SUITABILITY FOR RETENTION

Although a good portion of trees growing on this property show good health conditions, other factors should be evaluated when establishing the suitability for retention of a tree. These factors include the following:

- Location of the tree within the construction area;
- Structural condition of the tree;
- Age and expected longevity of the tree;
- Species response and tolerance to disturbance; and
- Species invasiveness.

By considering all the factors listed above, trees recommended for retention will have a higher chance of responding positively to new site conditions for an extended period of time providing a safe environment for the property users.

3.0 PROPOSED DEVELOPMENT & TREE PROTECTION RECOMMENDATIONS

3.1 PROPOSED DEVELOPMENT

For this project, EMD-Batimo intend to develop the property located at 150 Kanata Avenue, at the intersection of Kanata Avenue and Maritime Way, with a new building primarily tailored for seniors. The site plan and civil design developed for this project were used to determine tree retention and recommendations for tree removals where impacts to trees are anticipated as a result of the development of the site. A copy of the Site Plan and civil design are included in **Appendix D** of this report.

The proposed development includes a building along the roadway edges and wrapping the corner of the site with parking areas and access to an underground parking behind the building. The accesses to the parking areas and back of building will be through a future roadway extending Canadian Shield Avenue to Maritime Way and a new driveway connection fronting an existing road into Kanata Centrum, the southern commercial development.

3.1.1 IMPACTS OF PROPOSED DEVELOPMENT

The following is a summary of the anticipated impacts on existing trees as a result of the proposed development of the Subject Site. All trees impacted by the proposed development on the subject sites are illustrated on drawing ***TC03 – Proposed Development and Conserved Vegetation***, inserted in Appendix C.

3.1.1.1 Excavation Requirements

The excavation approach for this development project, as described by the structural engineer in the excavation recommendation letter and inserted as **Appendix E**, requires a setback of 3 m from underground structures proposed in Phase 1 and a setback of 4 m from underground structures in phase 2 with the exception of shoring the front walls during Phase 2. The difference in setbacks is based on the depth of the underground parking as illustrated in the architectural set of drawings.

3.1.1.2 Tree Removals

Tree removals will be required for the majority of the site to accommodate construction requirements. Trees proposed for removal are predominantly located on the Subject Site with an estimated construction zone established to 1.32 hectares. In addition, trees to be removed include 15 boundary trees due to the proximity of the proposed site features including grading and 22 municipal trees for the drive aisle access between 150 Kanata Avenue and 180 Kanata Avenue. The list of all trees to be removed is provided on drawing ***TC04 – Tree Protection Table*** inserted in Appendix C.

3.2

3.2 TREE PROTECTION RECOMMENDATIONS

To ensure tree survival of the trees to be retained during and after construction, mitigation measures should be in place during construction. Adequate protection of the trees to be retained and their immediate environment is crucial for the survival of these trees. As such, the Contractor shall apply the following measures to prevent damages to the trees to be retained.

3.2.1 Monitoring Tree Health

Trees located adjacent to construction works will experience change in their immediate environment. As a result, tree health should be monitored. Photographs of trees to remain should be taken prior to construction, if possible, when the trees are in full leaf, as a record of their condition.

Monitoring tree health both during and after construction should be made a priority. Actions should be taken as early as possible if / when the health of a protected tree declines. Damages may include:

- Physical damage on tree bark.
- Broken branches.
- Compaction of root systems due to equipment and materials stored within the protected areas.
- Cutting of the roots; and
- Root exposure following excavation adjacent to trees to be preserved.

Services of a Certified Arborist should be used in order to give adequate care to damaged trees.

Trees that have died or have been damaged beyond repair by the Contractor during construction shall be removed and replaced by the Contractor as directed by the Contract Administrator at no cost for the owner.

3.2.2 Protecting Trees to be Retained

All trees to remain shall be preserved and protected using a temporary tree protection fence. The roots of a tree are located in the top 150 to 250 millimetres of soil and can very easily be inadvertently damaged. To ensure protection of the root system of trees to remain, temporary tree protection fencing shall be installed at the critical root zone (CRZ) of trees located inside or adjacent to the construction area. **The CRZ of a tree is the zone around the trunk where there should be no disturbance before, during, and after construction. The CRZ is established as being 10 centimetres from the trunk for every centimetre of trunk diameter. For trees with a DBH of less than 10 centimetres, the CRZ is established as 1.5 metre from the trunk.**

Temporary tree protection fencing shall be installed according to the Tree Protection Fence detail inserted on drawing ***TC-05 – Tree Conservation Details***. Fencing shall always be maintained in good repair during construction operations and shall only be removed upon completion and when agreed by the Contract Administrator. Temporary removal of fencing shall not be permitted without the approval from the Contract Administrator.

Within the CRZ of trees, as delineated by temporary tree protection fencing there should be:

- No disturbance or alteration of the existing grade without approval including addition of fill, excavation, or scraping of the soil.
- No installation of signs, notices or posters on trees.
- No storage of construction materials, surplus soil, construction waste, or equipment.
- No disposal (dumping or flushing) of contaminants or liquids; and,
- No movement of vehicles (personal or business), equipment or pedestrians.

Should disturbances or alterations within the tree protection zone be unavoidable, the following additional mitigation strategies are recommended:

3.2.3 Clearing and Grubbing of Trees

Any trees designated for removal and located outside a tree protected area will have the stumps completely excavated and removed unless such removal will adversely affect existing trees / ecology to remain. Utility locates should be completed prior to initiate any clearing and grubbing works.

3.2.3.1 Wildlife Protection

Clearing operations are prohibited between April 8 to August 28 of any year to protect breeding migratory birds and at-risk bat species. Should tree removal during this period be unavoidable, the contractor is required to retain the services of a qualified Biologist who will conduct a breeding migratory bird screening. This screening will identify and ensure there is no evidence of breeding migratory bird activities. Tree removal will be allowed within five (5) days of conducting the screening and confirming the absence of breeding migratory bird activities.

3.2.3.2 Rock Blasting

Rock blasting completed without the preparation of a Rock Removal Plan may damage unnecessarily trees that are to remain or could have been retained. Where rock blasting is required, a Certified Arborist should be included in the preparation of such Rock Removal Plan and present on site during such blasting to review trees located adjacent to the work area. The Certified Arborist should review the Rock Removal Plan developed for the Subject Site and provide comments to retain as many trees as possible.

To reduce harm to tree roots:

- Blasting material should use explosive materials that will minimize combustible gases; and
- Pre-shearing of the rock should be completed prior to blasting.

Any roots that are exposed by blasting activities must be covered with native topsoil immediately, to prevent roots to dry out or have any further damage occur to them.

3.2.4 Working within Protected Areas

3.2.4.1 Excavation Work

To ensure the roots are not disturbed more than necessary and where excavation works are unavoidable within the CRZ of trees, the following mitigation measures shall be used:

- **All excavation within the CRZ of trees shall be by hand or hydro excavation using the smallest tools.** Root cutting shall be made using a sharp spade or knife at the limit of disturbance prior to any construction activities.
- **The Contractor shall only tunnel or bore within the CRZ, instead of creating a trench.**
- **Any roots that are exposed by construction activities must be covered with native topsoil immediately,** to ensure that the roots do not dry out or have any further damage occur to them.

In all those instances where root pruning is required, the service of a Certified Arborist or Qualified Tree Worker under the supervision of a Certified Arborist shall be retained. In addition, all remedial works must be conducted by a certified care professional to ensure proper care is administered in order to enable the continued health of the trees.

3.2.4.2 Grading Work

Where re-grading is required within the CRZ, it should be performed by hand under the supervision of a Certified Arborist.

3.2.4.3 Root Protection

If any tree roots of trees to remain are exposed during construction, they should be immediately reburied with soil or temporarily covered with burlap, filter cloth, or woodchips and kept moist (i.e watering with a soft-spray nozzle at least three times a week). A covering plastic should be used in order to retain moisture during an extended period when watering may not be possible (i.e. over weekends).

3.2.5 Additional Protection Measures

The following mitigation measures shall also be respected:

- When working near vegetation, **the Contractor shall ensure that exhaust fumes from all equipment are NOT directed towards any tree's canopy.**
- **Where limbs or portions of trees are removed to accommodate construction work, they will be removed carefully in accordance with accepted arboricultural practices.**
- **Where necessary, the trees will be given an overall pruning to restore their appearance.** Not more than one-third of the total branching shall be removed during a single operation. The services of a Certified Arborist shall be retained for this task.

3.3 COMPENSATION PLANTINGS

Considering the Subject Site is forested a complete compensation for each tree removed cannot be achieved for this project. Wherever possible, trees should be planted in all softscape areas.

In general, it is recommended to plant a mix of non-invasive, native deciduous and coniferous trees to integrate the property with its surrounding context. In addition, news trees should be a minimum of 50mm in caliper for all deciduous trees planted and minimum 200cm in height for all new coniferous trees planted. Proposed planting locations should be strategic based on site features with a goal to provide shade to site users. New trees should be planted following horticultural planting standards.

4.0 CONCLUSION

This Tree Conservation Report was intended to provide a detailed description of the quality, diversity, and sizes of the trees growing within areas to be impacted by the proposed development for 150 Kanata Avenue. The Subject Site is located within the suburban area of the City of Ottawa as defined by Schedule F of the *City of Ottawa Tree Protection By-law*. Tree removals will be required for the majority of the site to accommodate construction requirements. Trees proposed for removal are predominantly located on the Subject Site with an estimated construction zone established to 1.32 hectares. In addition, trees to be removed include 15 boundary trees and 22 municipal trees.

To ensure survival of the trees to be retained, protection measures recommended in this report shall be applied. Preservation of those trees will be possible by limiting the footprint of the work area and visually delineating the protected zones from the construction zones. By installing a tree protection fence, damages to trunks, branches, and root systems will be limited. In addition, it is recommended to plant new trees in all softscape areas to provide greenery to the Subject Site; plantings of new trees should follow horticultural planting standards.

By following the mitigation recommendations outlined in this report and ensuring new plantings are included as part of this development, we believe this development will respond and blend in with the surrounding context.

5.0 REFERENCES

City of Ottawa. 2021a. Tree Protection By-law No. 2020-340. Available: www.ottawa.ca/en/living-ottawa/laws-licences-and-permits/laws/law-z/tree-protection-law-no-2020-340.

Lee et al. 2008. Ecological Land Classification for Southern Ontario: Training Manual. Ontario Ministry of Natural Resources, SCSIS Training Manual TM-01. North Bay: Ontario Ministry of Natural Resources.

Stantec 2020. Bill Teron Park Expansion and Future Development Lands – Final Report.

APPENDICES

Appendix A TREE INVENTORY TABLE

EXISTING VEGETATION SURVEY CHART

TREE ASSESSMENT CONDUCTED: March 04, 2022

PLANT ID	BOTANICAL NAME	COMMON NAME	DBH (CM)	HEALTH/ CONDITION	OWNERSHIP	REMARKS
1	*Gleditsia triacanthos*	Honeylocust	15	Poor/Fair	Municipal	Poor tree form structure.
2	*Gleditsia triacanthos*	Honeylocust	15	Poor/Fair	Municipal	Poor tree form structure.
3	*Gleditsia triacanthos*	Honeylocust	10	Poor/Fair	Municipal	Many tree suckers growing on the trunk resulting in minimal tree form structure.
4	*Gleditsia triacanthos*	Honeylocust	10	Poor/Fair	Municipal	Many tree suckers growing on the trunk resulting in minimal tree form structure.
5	*Gleditsia triacanthos*	Honeylocust	10	Poor/Fair	Municipal	Many tree suckers growing on the trunk resulting in minimal tree form structure.
6	*Gleditsia triacanthos*	Honeylocust	10	Poor/Fair	Municipal	Many tree suckers growing on the trunk resulting in minimal tree form structure.
7	*Acer saccharum*	Sugar Maple	15	Poor	Private	Many dead branches and dieback possibly due to reduced quantity of sunlight.
8	*Tilia americana*	Basswood	10	Poor	Private	Many dead branches and dieback possibly due to reduced quantity of sunlight.
9	*Gleditsia triacanthos*	Honeylocust	10	Poor/Fair	Municipal	Many tree suckers growing on the trunk resulting in minimal tree form structure.
10	*Gleditsia triacanthos*	Honeylocust	10	Poor/Fair	Municipal	Many tree suckers growing on the trunk resulting in minimal tree form structure.
11	*Ostrya virginiana*	Ironwood	From 10 to 40	Poor/Fair	Private	Many dead branches and dieback possibly due to reduced quantity of sunlight. Grouping of 6 trees.
	Quercus rubra	Red Oak		Poor/Fair	Private	
	Acer saccharum	Sugar Maple		Poor/Fair	Private	
12	*Tilia americana*	Basswood	20	Poor	Private	Many dead branches and dieback possibly due to reduced quantity of sunlight.
13	*Tilia americana*	Basswood	20	Poor	Private	Many dead branches and dieback possibly due to reduced quantity of sunlight.
14	*Tilia americana*	Basswood	30	Poor	Private	Many dead branches and dieback possibly due to reduced quantity of sunlight.
15	*Tilia americana*	Basswood	40	Poor	Private	Many dead branches and dieback possibly due to reduced quantity of sunlight.
16	*Tilia americana*	Basswood	20	Dead	Private	
17	*Ostrya virginiana*	Ironwood	15	Fair	Private	Some dead branches and dieback possibly due to reduced quantity of sunlight.
18	*Acer saccharum*	Sugar Maple	30	Poor	Private	Dead leader.
19	*Acer saccharum*	Sugar Maple	45	Good	Private	
20	*Tilia americana*	Basswood	15	Poor	Private	Many dead branches and dieback possibly due to reduced quantity of sunlight.
21	*Acer saccharum*	Sugar Maple	15	Good	Private	
22	*Acer saccharum*	Sugar Maple	15	Dead	Private	
23	*Acer saccharum*	Sugar Maple	20	Good	Private	
24	*Ostrya virginiana*	Ironwood	15	Fair	Private	Some dead branches and dieback possibly due to reduced quantity of sunlight.
25	*Ostrya virginiana*	Ironwood	15	Fair	Private	Some dead branches and dieback possibly due to reduced quantity of sunlight.
26	*Ostrya virginiana*	Ironwood	15	Poor	Private	Many dead branches and dieback possibly due to reduced quantity of sunlight.
27	*Ostrya virginiana*	Ironwood	20	Poor	Private	Many dead branches and dieback possibly due to reduced quantity of sunlight.
28	*Acer saccharum*	Sugar Maple	20	Good	Private	
29	*Acer saccharum*	Sugar Maple	20	Good	Private	
30	*Acer saccharum*	Sugar Maple	70	Fair	Private	Visible cracks on trunk.
31	*Acer saccharum*	Sugar Maple	20	Good	Private	
32	*Acer saccharum*	Sugar Maple	25	Good	Private	
33	*Ostrya virginiana*	Ironwood	20	Fair/Good	Municipal	Few dead branches and dieback possibly due to reduced quantity of sunlight.
34	*Acer saccharum*	Sugar Maple	15	Fair/Good	Municipal	Few dead branches and dieback possibly due to reduced quantity of sunlight.
35	*Acer saccharum*	Sugar Maple	20	Fair/Good	Municipal	Few dead branches and dieback possibly due to reduced quantity of sunlight.
36	*Acer saccharum*	Sugar Maple	20	Fair/Good	Municipal	Few dead branches and dieback possibly due to reduced quantity of sunlight.
37	*Ostrya virginiana*	Ironwood	10	Fair/Good	Municipal	Few dead branches and dieback possibly due to reduced quantity of sunlight.
38	*Ostrya virginiana*	Ironwood	15	Fair/Good	Municipal	Few dead branches and dieback possibly due to reduced quantity of sunlight.
39	*Ostrya virginiana*	Ironwood	20	Fair/Good	Municipal	Few dead branches and dieback possibly due to reduced quantity of sunlight.
40	*Acer saccharum*	Sugar Maple	10	Good	Private	
41	*Acer saccharum*	Sugar Maple	15	Good	Private	

EXISTING VEGETATION SURVEY CHART

42	*Acer saccharum*	Sugar Maple	15	Good	Private	
43	*Acer saccharum*	Sugar Maple	25	Good	Private	
44	*Acer saccharum*	Sugar Maple	20	Good	Private	
45	*Acer saccharum*	Sugar Maple	25	Good	Boundary	
46	*Acer saccharum*	Sugar Maple	30	Good	Private	
47	*Fraxinus pennsylvanica*	Red Ash	50	Dead	Municipal	
48	*Acer saccharum*	Sugar Maple	20	Good	Municipal	
49	*Acer saccharum*	Sugar Maple	15	Good	Boundary	
50	*Fraxinus pennsylvanica*	Red Ash	15	Dead	Boundary	
51	*Undefined - Dead*	Undefined - Dead	15	Dead	Municipal	
52	*Tilia americana*	Basswood	20	Good	Private	
53	*Tilia americana*	Basswood	20	Poor	Private	Leaning and many dead branches and dieback possibly due to reduced quantity of sunlight.
54	*Ostrya virginiana*	Ironwood	20	Good	Municipal	
55	*Ostrya virginiana*	Ironwood	15	Poor/Fair	Municipal	Many dead branches and dieback possibly due to reduced quantity of sunlight.
56	*Ostrya virginiana*	Ironwood	15	Poor/Fair	Private	Many dead branches and dieback possibly due to reduced quantity of sunlight.
57	*Ostrya virginiana*	Ironwood	20	Good	Municipal	
58	*Ostrya virginiana*	Ironwood	15	Good	Municipal	
59	*Acer saccharum*	Sugar Maple	30	Poor/Fair	Municipal	Visible crack on trunk.
60	*Acer saccharum*	Sugar Maple	15	Good	Boundary	
61	*Acer saccharum*	Sugar Maple	15	Good	Boundary	
62	*Ostrya virginiana*	Ironwood	20	Poor/Declining	Municipal	Dead leader.
63	*Acer saccharum*	Sugar Maple	25	Fair	Municipal	Some dead branches and dieback possibly due to reduced quantity of sunlight.
64	*Acer saccharum*	Sugar Maple	80	Good	Private	
65	*Ostrya virginiana* *Acer saccharum*	Ironwood Sugar Maple	From 10 to 20	Fair/Good	Private	Few dead branches and dieback possibly due to reduced quantity of sunlight. Grouping of 23
66	*Ostrya virginiana*	Ironwood	20	Fair	Private	Some dead branches and dieback possibly due to reduced quantity of sunlight.
67	*Pinus strobus*	Eastern White Pine	60	Dead	Private	
68	*Acer saccharum*	Sugar Maple	30	Good	Private	
69	*Quercus rubra*	Red Oak	50	Fair/Good	Private	Few dead branches and dieback possibly due to reduced quantity of sunlight.
70	*Acer saccharum*	Sugar Maple	12	Good	Private	
71	*Acer saccharum*	Sugar Maple	20	Good	Boundary	
72	*Acer saccharum*	Sugar Maple	20	Good	Municipal	
73	*Acer saccharum*	Sugar Maple	30	Good	Private	
74	*Acer saccharum*	Sugar Maple	15	Good	Municipal	
75	*Acer saccharum*	Sugar Maple	25	Good	Municipal	
76	*Pinus strobus*	Eastern White Pine	50	Fair	Private	Some dead branches and dieback at the bottom possibly due to reduced quantity of
77	*Tilia americana*	Basswood	90	Poor/Fair	Private	Visible cracks on trunk.
78	*Tilia americana*	Basswood	15	Poor/Fair	Private	Visible crack on trunk.
79	*Acer saccharum*	Sugar Maple	35	Good	Municipal	
80	*Undefined - Dead*	Undefined - Dead	20	Dead	Municipal	
81	*Pinus strobus*	Eastern White Pine	70	Fair	Municipal	Some dead branches and dieback at bottom possibly due to reduced quantity of
82	*Acer saccharum*	Sugar Maple	30	Good	Private	
83	*Fraxinus pennsylvanica*	Red Ash	30	Poor	Boundary	Signs of emerald ash borer and many dead branches and dieback possibly due to reduced quantity of sunlight.
84	*Acer saccharum*	Sugar Maple	12	Fair	Private	Some dead branches and dieback possibly due to reduced quantity of sunlight.

EXISTING VEGETATION SURVEY CHART

85	*Ostrya virginiana*	Ironwood	15	Poor/Declining	Private	Trunk almost cut in half.
86	*Ostrya virginiana*	Ironwood	15	Fair	Municipal	Some dead branches and dieback possibly due to reduced quantity of sunlight.
87	*Acer saccharum*	Sugar Maple	45	Good	Private	
88	*Quercus rubra*	Red Oak	30	Good	Private	
89	*Acer saccharum*	Sugar Maple	50	Fair	Private	Visible bruise on trunk.
90	*Ostrya virginiana*	Ironwood	15	Poor/Fair	Private	Many dead branches and dieback possibly due to reduced quantity of sunlight.
91	*Acer saccharum*	Sugar Maple	30	Good	Private	
92	*Acer saccharum*	Sugar Maple	40	Fair	Private	Visible bruise on trunk.
93	*Acer saccharum*	Sugar Maple	35	Fair/Good	Private	Few dead branches and dieback possibly due to reduced quantity of sunlight.
94	*Acer saccharum*	Sugar Maple	25	Good	Boundary	
95	*Acer saccharum*	Sugar Maple	40	Good	Municipal	
96	*Acer saccharum*	Sugar Maple	40	Good	Municipal	
97	*Betula papyrifera*	Paper Birch	20	Fair	Private	Some dead branches and dieback possibly due to reduced quantity of sunlight.
98	*Acer saccharum*	Sugar Maple	30	Good	Private	
99	*Acer saccharum*	Sugar Maple	25	Good	Boundary	
100	*Acer saccharum*	Sugar Maple	15	Poor/Fair	Private	Small crown.
101	*Ostrya virginiana*	Ironwood	15	Fair	Boundary	Some dead branches and dieback possibly due to reduced quantity of sunlight.
102	*Ostrya virginiana*	Ironwood	15	Fair	Private	Some dead branches and dieback possibly due to reduced quantity of sunlight.
103	*Ostrya virginiana*	Ironwood	20	Good	Boundary	
104	*Ostrya virginiana*	Ironwood	20	Good	Municipal	
105	*Ostrya virginiana*	Ironwood	15	Poor	Municipal	Many dead branches and dieback possibly due to reduced quantity of sunlight.
106	*Ostrya virginiana*	Ironwood	10	Fair	Private	Some dead branches and dieback possibly due to reduced quantity of sunlight.
107	*Ostrya virginiana*	Ironwood	10	Fair	Private	Some dead branches and dieback possibly due to reduced quantity of sunlight.
108	*Fraxinus pennsylvanica*	Red Ash	20	Dead	Private	
109	*Fraxinus pennsylvanica*	Red Ash	20	Dead	Private	
110	*Acer saccharum*	Sugar Maple	40	Fair/Good	Private	Few dead branches and dieback possibly due to reduced quantity of sunlight.
111	*Acer saccharum*	Sugar Maple	15	Good	Municipal	
112	*Acer saccharum*	Sugar Maple	15	Good	Municipal	
113	*Acer saccharum*	Sugar Maple	18	Good	Municipal	
114	*Acer saccharum*	Sugar Maple	20	Good	Municipal	
115	*Fraxinus pennsylvanica*	Red Ash	25	Poor	Private	Signs of emerald ash borer and many dead branches and dieback possibly due to reduced quantity of sunlight.
116	*Acer saccharum*	Sugar Maple	20	Fair	Private	Some dead branches and dieback possibly due to reduced quantity of sunlight.
117	*Fraxinus pennsylvanica*	Red Ash	20	Poor/Declining	Private	Signs of emerald ash borer and many dead branches and dieback possibly due to reduced quantity of sunlight.
118	*Acer saccharum*	Sugar Maple	30	Fair	Private	Some dead branches and dieback possibly due to reduced quantity of sunlight.
119	*Fraxinus pennsylvanica*	Red Ash	20	Poor/Declining	Private	Signs of emerald ash borer and many dead branches and dieback possibly due to reduced quantity of sunlight.
120	*Fraxinus pennsylvanica*	Red Ash	45	Dead	Boundary	Signs of emerald ash borer.
121	*Ostrya virginiana*	Ironwood	12	Poor/Declining	Boundary	Many dead branches and dieback possibly due to reduced quantity of sunlight.
122	*Acer saccharum*	Sugar Maple	40	Poor/Fair	Private	Visible hole in trunk.
123	*Ostrya virginiana*	Ironwood	25	Fair	Municipal	Some dead branches and dieback possibly due to reduced quantity of sunlight.

EXISTING VEGETATION SURVEY CHART

124	*Acer saccharum*	Sugar Maple	12	Poor/Fair	Private	Many dead branches and dieback possibly due to reduced quantity of sunlight.
125	*Ostrya virginiana*	Ironwood	15	Fair	Municipal	Some dead branches and dieback possibly due to reduced quantity of sunlight.
126	*Acer saccharum*	Sugar Maple	45	Fair	Municipal	Some dead branches and dieback possibly due to reduced quantity of sunlight.
127	*Acer saccharum*	Sugar Maple	30	Fair	Municipal	Some dead branches and dieback possibly due to reduced quantity of sunlight.
128	*Acer saccharum*	Sugar Maple	30	Fair/Good	Private	Few dead branches and dieback possibly due to reduced quantity of sunlight.
129	*Ostrya virginiana*	Ironwood	10	Good	Private	
130	*Acer saccharum*	Sugar Maple	50	Good	Private	
131	*Ostrya virginiana*	Ironwood	15	Good	Municipal	
132	*Ostrya virginiana*	Ironwood	15	Good	Boundary	
133	*Ostrya virginiana*	Ironwood	15	Good	Boundary	
134	*Ostrya virginiana*	Ironwood	15	Good	Boundary	
135	*Ostrya virginiana*	Ironwood	15	Good	Private	
136	*Ostrya virginiana*	Ironwood	15	Good	Private	
137	*Ostrya virginiana*	Ironwood	15	Good	Private	
138	*Thuya occidentalis*	Eastern White Cedar	50; 30; 20; 20	Poor/Declining	Municipal	Multistem (4 stems).
139	*Picea glauca*	White Spruce	60	Dead	Municipal	
140	*Ostrya virginiana*	Ironwood	15	Good	Private	
141	*Acer saccharum*	Sugar Maple	45	Good	Private	
142	*Acer saccharum*	Sugar Maple	30	Fair	Private	Some dead branches and dieback possibly due to reduced quantity of sunlight.
143	*Ostrya virginiana*	Ironwood	20	Good	Private	
144	*Ostrya virginiana*	Ironwood	10	Good	Private	
145	*Ostrya virginiana*	Ironwood	20	Fair/Good	Private	Few dead branches and dieback possibly due to reduced quantity of sunlight.
146	*Ostrya virginiana*	Ironwood	15	Good	Private	
147	*Acer saccharum*	Sugar Maple	35	Good	Private	
148	*Ostrya virginiana*	Ironwood	12	Good	Boundary	
149	*Acer saccharum*	Sugar Maple	25	Good	Private	
150	*Acer saccharum*	Sugar Maple	35	Fair	Municipal	A 15-20cm branch from the canopy is dead.
151	*Ostrya virginiana*	Ironwood	23	Fair	Municipal	Some dead branches and dieback possibly due to reduced quantity of sunlight.
152	*Ostrya virginiana*	Ironwood	20	Fair	Municipal	Some dead branches and dieback possibly due to reduced quantity of sunlight.
153	*Tilia americana*	Basswood	30	Good	Boundary	
154	*Tilia americana*	Basswood	30	Good	Municipal	
155	*Ostrya virginiana*	Ironwood	15	Good	Boundary	
156	*Prunus serotina*	Black Cherry	70	Poor/Declining	Municipal	Many dead branches and dieback possibly due to reduced quantity of sunlight.
157	*Ostrya virginiana*	Ironwood	20	Fair	Municipal	Some dead branches and dieback possibly due to reduced quantity of sunlight.
158	*Thuya occidentalis*	Eastern White Cedar	15; 10	Fair	Municipal	Multistem (2 stems). Some dead branches and dieback possibly due to reduced quantity of sunlight.

EXISTING VEGETATION SURVEY CHART						
159	*Tilia americana*	Basswood	10	Dead	Private	
160	*Ostrya virginiana*	Ironwood	20; 12	Good	Municipal	Multistem (2 stems).
161	*Acer saccharum*	Sugar Maple	40	Fair/Good	Municipal	Few dead branches and dieback possibly due to reduced quantity of sunlight.
162	*Acer saccharum*	Sugar Maple	10	Poor	Municipal	Visible crack on trunk.
163	*Acer saccharum*	Sugar Maple	16	Fair	Municipal	Some dead branches and dieback possibly due to reduced quantity of sunlight.
164	*Ostrya virginiana*	Ironwood	10	Good	Municipal	
165	*Acer saccharum*	Sugar Maple	15	Good	Municipal	
166	*Acer saccharum*	Sugar Maple	15	Good	Municipal	
167	*Acer saccharum*	Sugar Maple	10	Good	Municipal	
168	*Acer saccharum*	Sugar Maple	10	Good	Municipal	
169	*Acer saccharum*	Sugar Maple	10	Good	Municipal	
170	*Acer saccharum*	Sugar Maple	10	Good	Municipal	
171	*Acer saccharum*	Sugar Maple	25	Good	Municipal	
172	*Tilia americana*	Basswood	35; 30; 20	Fair	Boundary	Multistem (3 stems). Some dead branches and dieback possibly due to reduced quantity of sunlight.
173	*Acer saccharum*	Sugar Maple	20	Good	Municipal	
174	*Acer saccharum*	Sugar Maple	15	Good	Municipal	
175	*Acer saccharum*	Sugar Maple	20	Good	Municipal	
176	*Ostrya virginiana*	Ironwood	10	Good	Boundary	
177	*Ostrya virginiana*	Ironwood	10	Good	Private	
178	*Ostrya virginiana*	Ironwood	10	Good	Boundary	
179	*Ostrya virginiana*	Ironwood	10	Good	Boundary	
180	*Acer saccharum*	Sugar Maple	45	Good	Boundary	Few dead branches
181	*Acer saccharum*	Sugar Maple	15	Good	Municipal	
182	*Pinus strobus*	Eastern White Pine	50	Good	Boundary	
183	*Acer saccharum*	Sugar Maple	35	Good	Private	
184	*Ostrya virginiana*	Ironwood	20	Good	Private	
185	*Ostrya virginiana*	Ironwood	20	Poor	Private	Many dead branches and dieback possibly due to reduced quantity of sunlight.
186	*Acer saccharum*	Sugar Maple	25	Good	Private	
187	*Undefined - Dead*	Undefined - Dead	25	Dead	Private	
188	*Acer saccharum*	Sugar Maple	10	Fair	Private	Some dead branches and dieback possibly due to reduced quantity of sunlight.
189	*Undefined - Dead*	Undefined - Dead	25	Dead	Private	
190	*Undefined - Dead*	Undefined - Dead	25	Dead	Private	
191	*Quercus Alba*	White Oak	30	Fair	Private	Some dead branches and dieback possibly due to reduced quantity of sunlight.
192	*Quercus spp.*	Oak	30	Fair/Good	Private	Few dead branches and dieback possibly due to reduced quantity of sunlight.
193	*Populus tremuloides*	Trembling aspen	35	Poor	Private	Dead leader.
194	*Populus tremuloides*	Trembling aspen	20	Fair	Private	visible crown galls.
195	*Picea glauca*	White Spruce	20	Poor/Fair	Private	Many dead branches and dieback possibly due to reduced quantity of sunlight.
196	*Abies balsamea*	Balsam Fir	20	Fair	Private	Some dead branches and dieback possibly due to reduced quantity of sunlight.
197	*Quercus spp.*	Oak	10	Poor/Fair	Private	Visible hole in trunk.

EXISTING VEGETATION SURVEY CHART						
198	*Populus tremuloides*	Trembling aspen	20	Fair	Private	visible crown galls.
199	*Quercus spp.*	Oak	10	Fair	Boundary	Some broken branches.
200	*Acer saccharum*	Sugar Maple	15	Dead	Private	
201	*Acer saccharum*	Sugar Maple	10	Poor	Private	Many dead branches and dieback possibly due to reduced quantity of sunlight.
202	*Acer saccharum*	Sugar Maple	20	Fair/Good	Private	Few dead branches and dieback possibly due to reduced quantity of sunlight.
203	*Acer saccharum*	Sugar Maple	25	Fair	Private	Some dead branches and dieback possibly due to reduced quantity of sunlight.
204	*Acer saccharum*	Sugar Maple	From 10 to 60	From Poor to Good	Private	Large treed area. Quantity and location of trees was not surveyed / counted. Tree spacing between trees in this grouping is similar to other areas surveyed and shown on the survey plan. The most prevailing tree species in this grouping are Acer saccharum (approximately 45%) and Ostrya virginiana (approximately 45%) with a few individuals of the other species indicated in the tree species column.
	Betula alleghaniensis	Yellow Birch				
	Betula papytifera	White Birch				
	Fraxinus pennsylvanica	Red Ash				
	Ostrya virginiana	Ironwood				
	Picea glauca	White Spruce				
	Pinus strobus	Eastern White Pine				
	Populus tremuloides	Trembling aspen				
	Quercus spp.	Oak				
	Tilia americana	Basswood				

Appendix B PHOTOGRAPHS

Appendix B PHOTOGRAPHS

Photograph 1 – Presence of trails within the treed lot

Photograph 2 – Variety of tree sizes

Photograph 3 – Sloped land

Photograph 4 – Openings in the treed area

Photograph 5 – Presence of fallen trees

Photograph 6 – Opening to the right for the future roadway

Appendix C TREE CONSERVATION DRAWINGS

Stantec

Stantec Consulting Ltd.
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Ottawa ON
Tel. 613.722.4420
www.stantec.com

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Legend

000	TREE IDENTIFICATION NUMBER
	EXISTING DECIDUOUS TREE
	EXISTING CONIFEROUS TREE
	EXISTING VEGETATION GROUPING
	CRITICAL ROOT ZONE
	EXISTING DEAD TREE
	PROPERTY LINE

Notes

1. TOPOGRAPHICAL SURVEY PLAN BY ANNIS O'SULLIVAN VOLLEBEKK (AOV) LTD. AS PROVIDED MARCH 2022.
2. REFER TO DRAWING TC02 FOR CURRENT VEGETATION SURVEY CHART.
3. REFER TO DRAWING TC03 FOR PROPOSED DEVELOPMENT AND CONSERVED VEGETATION.

Revision		By	Appd.	YY.MM.DD
1	ISSUED FOR REVIEW	CA	ILL	2022.04.06

File Name: 160410404-LB.dwg	CA	ILL	ILL	22.03.03
	Dwn.	Chkd.	Dsgn.	YY.MM.DD

Permit-Seal

ONTARIO ASSOCIATION OF LANDSCAPE ARCHITECTS
ISABELLE L LALONDE
OALA
2022-04-06
MEMBER

Client/Project

EMD-BATIMO GROUP

150 KANATA AVENUE

OTTAWA, ON

Title

CURRENT VEGETATION

Project No.	Scale
160410404	1:400 (0, 4, 12, 20m)

Drawing No.	Sheet	Revision
TC01	1 of 5	1

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2022/04/06 7:47 AM By: Acar, Charbel

ORIGINAL SHEET - ARCH D

EXISTING VEGETATION SURVEY CHART

TREE ASSESSMENT CONDUCTED: March 04, 2022

PLANT ID	BOTANICAL NAME	COMMON NAME	DBH (CM)	HEALTH/ CONDITION	OWNERSHIP	REMARKS
1	*Gleditsia triacanthos*	Honeylocust	15	Poor/Fair	Municipal	Poor tree form structure.
2	*Gleditsia triacanthos*	Honeylocust	15	Poor/Fair	Municipal	Poor tree form structure.
3	*Gleditsia triacanthos*	Honeylocust	10	Poor/Fair	Municipal	Many tree suckers growing on the trunk resulting in minimal tree form structure.
4	*Gleditsia triacanthos*	Honeylocust	10	Poor/Fair	Municipal	Many tree suckers growing on the trunk resulting in minimal tree form structure.
5	*Gleditsia triacanthos*	Honeylocust	10	Poor/Fair	Municipal	Many tree suckers growing on the trunk resulting in minimal tree form structure.
6	*Gleditsia triacanthos*	Honeylocust	10	Poor/Fair	Municipal	Many tree suckers growing on the trunk resulting in minimal tree form structure.
7	*Acer saccharum*	Sugar Maple	15	Poor	Private	Many dead branches and dieback possibly due to reduced quantity of sunlight.
8	*Tilia americana*	Basswood	10	Poor	Private	Many dead branches and dieback possibly due to reduced quantity of sunlight.
9	*Gleditsia triacanthos*	Honeylocust	10	Poor/Fair	Municipal	Many tree suckers growing on the trunk resulting in minimal tree form structure.
10	*Gleditsia triacanthos*	Honeylocust	10	Poor/Fair	Municipal	Many tree suckers growing on the trunk resulting in minimal tree form structure.
11	*Ostrya virginiana*	Ironwood	From 10 to 40	Poor/Fair	Private	Many dead branches and dieback possibly due to reduced quantity of sunlight. Grouping of 6 trees.
	Quercus rubra	Red Oak		Poor/Fair	Private	
	Acer saccharum	Sugar Maple		Poor/Fair	Private	
12	*Tilia americana*	Basswood	20	Poor	Private	Many dead branches and dieback possibly due to reduced quantity of sunlight.
13	*Tilia americana*	Basswood	20	Poor	Private	Many dead branches and dieback possibly due to reduced quantity of sunlight.
14	*Tilia americana*	Basswood	30	Poor	Private	Many dead branches and dieback possibly due to reduced quantity of sunlight.
15	*Tilia americana*	Basswood	40	Poor	Private	Many dead branches and dieback possibly due to reduced quantity of sunlight.
16	*Tilia americana*	Basswood	20	Dead	Private	
17	*Ostrya virginiana*	Ironwood	15	Fair	Private	Some dead branches and dieback possibly due to reduced quantity of sunlight.
18	*Acer saccharum*	Sugar Maple	30	Poor	Private	Dead leader.
19	*Acer saccharum*	Sugar Maple	45	Good	Private	
20	*Tilia americana*	Basswood	15	Poor	Private	Many dead branches and dieback possibly due to reduced quantity of sunlight.
21	*Acer saccharum*	Sugar Maple	15	Good	Private	
22	*Acer saccharum*	Sugar Maple	15	Dead	Private	
23	*Acer saccharum*	Sugar Maple	20	Good	Private	
24	*Ostrya virginiana*	Ironwood	15	Fair	Private	Some dead branches and dieback possibly due to reduced quantity of sunlight.
25	*Ostrya virginiana*	Ironwood	15	Fair	Private	Some dead branches and dieback possibly due to reduced quantity of sunlight.
26	*Ostrya virginiana*	Ironwood	15	Poor	Private	Many dead branches and dieback possibly due to reduced quantity of sunlight.
27	*Ostrya virginiana*	Ironwood	20	Poor	Private	Many dead branches and dieback possibly due to reduced quantity of sunlight.
28	*Acer saccharum*	Sugar Maple	20	Good	Private	
29	*Acer saccharum*	Sugar Maple	20	Good	Private	
30	*Acer saccharum*	Sugar Maple	70	Fair	Private	Visible cracks on trunk.
31	*Acer saccharum*	Sugar Maple	20	Good	Private	
32	*Acer saccharum*	Sugar Maple	25	Good	Private	
33	*Ostrya virginiana*	Ironwood	20	Fair/Good	Municipal	Few dead branches and dieback possibly due to reduced quantity of sunlight.
34	*Acer saccharum*	Sugar Maple	15	Fair/Good	Municipal	Few dead branches and dieback possibly due to reduced quantity of sunlight.
35	*Acer saccharum*	Sugar Maple	20	Fair/Good	Municipal	Few dead branches and dieback possibly due to reduced quantity of sunlight.
36	*Acer saccharum*	Sugar Maple	20	Fair/Good	Municipal	Few dead branches and dieback possibly due to reduced quantity of sunlight.
37	*Ostrya virginiana*	Ironwood	10	Fair/Good	Municipal	Few dead branches and dieback possibly due to reduced quantity of sunlight.
38	*Ostrya virginiana*	Ironwood	15	Fair/Good	Municipal	Few dead branches and dieback possibly due to reduced quantity of sunlight.
39	*Ostrya virginiana*	Ironwood	20	Fair/Good	Municipal	Few dead branches and dieback possibly due to reduced quantity of sunlight.
40	*Acer saccharum*	Sugar Maple	10	Good	Private	
41	*Acer saccharum*	Sugar Maple	15	Good	Private	
42	*Acer saccharum*	Sugar Maple	15	Good	Private	
43	*Acer saccharum*	Sugar Maple	25	Good	Private	
44	*Acer saccharum*	Sugar Maple	20	Good	Private	
45	*Acer saccharum*	Sugar Maple	25	Good	Boundary	
46	*Acer saccharum*	Sugar Maple	30	Good	Private	
47	*Fraxinus pennsylvanica*	Red Ash	50	Dead	Municipal	
48	*Acer saccharum*	Sugar Maple	20	Good	Municipal	
49	*Acer saccharum*	Sugar Maple	15	Good	Boundary	
50	*Fraxinus pennsylvanica*	Red Ash	15	Dead	Boundary	
51	*Undefined - Dead*	Undefined - Dead	15	Dead	Municipal	
52	*Tilia americana*	Basswood	20	Good	Private	
53	*Tilia americana*	Basswood	20	Poor	Private	Leaning and many dead branches and dieback possibly due to reduced quantity of sunlight.
54	*Ostrya virginiana*	Ironwood	20	Good	Municipal	
55	*Ostrya virginiana*	Ironwood	15	Poor/Fair	Municipal	Many dead branches and dieback possibly due to reduced quantity of sunlight.
56	*Ostrya virginiana*	Ironwood	15	Poor/Fair	Private	Many dead branches and dieback possibly due to reduced quantity of sunlight.
57	*Ostrya virginiana*	Ironwood	20	Good	Municipal	
58	*Ostrya virginiana*	Ironwood	15	Good	Municipal	
59	*Acer saccharum*	Sugar Maple	30	Poor/Fair	Municipal	Visible crack on trunk.
60	*Acer saccharum*	Sugar Maple	15	Good	Boundary	
61	*Acer saccharum*	Sugar Maple	15	Good	Boundary	
62	*Ostrya virginiana*	Ironwood	20	Poor/Declining	Municipal	Dead leader.
63	*Acer saccharum*	Sugar Maple	25	Fair	Municipal	Some dead branches and dieback possibly due to reduced quantity of sunlight.
64	*Acer saccharum*	Sugar Maple	80	Good	Private	
65	*Ostrya virginiana*	Ironwood	From 10 to 20	Fair/Good	Private	Few dead branches and dieback possibly due to reduced quantity of sunlight. Grouping of 23
	Acer saccharum	Sugar Maple				
66	*Ostrya virginiana*	Ironwood	20	Fair	Private	Some dead branches and dieback possibly due to reduced quantity of sunlight.
67	*Pinus strobus*	Eastern White Pine	60	Dead	Private	
68	*Acer saccharum*	Sugar Maple	30	Good	Private	
69	*Quercus rubra*	Red Oak	50	Fair/Good	Private	Few dead branches and dieback possibly due to reduced quantity of sunlight.
70	*Acer saccharum*	Sugar Maple	12	Good	Private	
71	*Acer saccharum*	Sugar Maple	20	Good	Boundary	
72	*Acer saccharum*	Sugar Maple	20	Good	Municipal	
73	*Acer saccharum*	Sugar Maple	30	Good	Private	
74	*Acer saccharum*	Sugar Maple	15	Good	Municipal	
75	*Acer saccharum*	Sugar Maple	25	Good	Municipal	
76	*Pinus strobus*	Eastern White Pine	50	Fair	Private	Some dead branches and dieback at the bottom possibly due to reduced
77	*Tilia americana*	Basswood	90	Poor/Fair	Private	Visible cracks on trunk.
78	*Tilia americana*	Basswood	15	Poor/Fair	Private	Visible crack on trunk.
79	*Acer saccharum*	Sugar Maple	35	Good	Municipal	
80	*Undefined - Dead*	Undefined - Dead	20	Dead	Municipal	
81	*Pinus strobus*	Eastern White Pine	70	Fair	Municipal	Some dead branches and dieback at bottom possibly due to reduced quantity of
82	*Acer saccharum*	Sugar Maple	30	Good	Private	
83	*Fraxinus pennsylvanica*	Red Ash	30	Poor	Boundary	Signs of emerald ash borer and many dead branches and dieback possibly due to reduced quantity of sunlight.
84	*Acer saccharum*	Sugar Maple	12	Fair	Private	Some dead branches and dieback possibly due to reduced quantity of sunlight.
85	*Ostrya virginiana*	Ironwood	15	Poor/Declining	Private	Trunk almost cut in half.
86	*Ostrya virginiana*	Ironwood	15	Fair	Municipal	Some dead branches and dieback possibly due to reduced quantity of sunlight.
87	*Acer saccharum*	Sugar Maple	45	Good	Private	
88	*Quercus rubra*	Red Oak	30	Good	Private	
89	*Acer saccharum*	Sugar Maple	50	Fair	Private	Visible bruise on trunk.
90	*Ostrya virginiana*	Ironwood	15	Poor/Fair	Private	Many dead branches and dieback possibly due to reduced quantity of sunlight.
91	*Acer saccharum*	Sugar Maple	30	Good	Private	
92	*Acer saccharum*	Sugar Maple	40	Fair	Private	Visible bruise on trunk.
93	*Acer saccharum*	Sugar Maple	35	Fair/Good	Private	Few dead branches and dieback possibly due to reduced quantity of sunlight.
94	*Acer saccharum*	Sugar Maple	25	Good	Boundary	
95	*Acer saccharum*	Sugar Maple	40	Good	Municipal	
96	*Acer saccharum*	Sugar Maple	40	Good	Municipal	
97	*Betula papyrifera*	Paper Birch	20	Fair	Private	Some dead branches and dieback possibly due to reduced quantity of sunlight.
98	*Acer saccharum*	Sugar Maple	30	Good	Private	
99	*Acer saccharum*	Sugar Maple	25	Good	Boundary	
100	*Acer saccharum*	Sugar Maple	15	Poor/Fair	Private	Small crown.
101	*Ostrya virginiana*	Ironwood	15	Fair	Boundary	Some dead branches and dieback possibly due to reduced quantity of sunlight.
102	*Ostrya virginiana*	Ironwood	15	Fair	Private	Some dead branches and dieback possibly due to reduced quantity of sunlight.
103	*Ostrya virginiana*	Ironwood	20	Good	Boundary	
104	*Ostrya virginiana*	Ironwood	20	Good	Municipal	
105	*Ostrya virginiana*	Ironwood	15	Poor	Municipal	Many dead branches and dieback possibly due to reduced quantity of sunlight.
106	*Ostrya virginiana*	Ironwood	10	Fair	Private	Some dead branches and dieback possibly due to reduced quantity of sunlight.
107	*Ostrya virginiana*	Ironwood	10	Fair	Private	Some dead branches and dieback possibly due to reduced quantity of sunlight.
108	*Fraxinus pennsylvanica*	Red Ash	20	Dead	Private	

EXISTING VEGETATION SURVEY CHART

TREE ASSESSMENT CONDUCTED: March 04, 2022

PLANT ID	BOTANICAL NAME	COMMON NAME	DBH (CM)	HEALTH/ CONDITION	OWNERSHIP	REMARKS
109	*Fraxinus pennsylvanica*	Red Ash	20	Dead	Private	
110	*Acer saccharum*	Sugar Maple	40	Fair/Good	Private	Few dead branches and dieback possibly due to reduced quantity of sunlight.
111	*Acer saccharum*	Sugar Maple	15	Good	Municipal	
112	*Acer saccharum*	Sugar Maple	15	Good	Municipal	
113	*Acer saccharum*	Sugar Maple	18	Good	Municipal	
114	*Acer saccharum*	Sugar Maple	20	Good	Municipal	
115	*Fraxinus pennsylvanica*	Red Ash	25	Poor	Private	Signs of emerald ash borer and many dead branches and dieback possibly due to reduced quantity of sunlight.
116	*Acer saccharum*	Sugar Maple	20	Fair	Private	Some dead branches and dieback possibly due to reduced quantity of sunlight.
117	*Fraxinus pennsylvanica*	Red Ash	20	Poor/Declining	Private	Signs of emerald ash borer and many dead branches and dieback possibly due to reduced quantity of sunlight.
118	*Acer saccharum*	Sugar Maple	30	Fair	Private	Some dead branches and dieback possibly due to reduced quantity of sunlight.
119	*Fraxinus pennsylvanica*	Red Ash	20	Poor/Declining	Private	Signs of emerald ash borer and many dead branches and dieback possibly due to reduced quantity of sunlight.
120	*Fraxinus pennsylvanica*	Red Ash	45	Dead	Boundary	Signs of emerald ash borer.
121	*Ostrya virginiana*	Ironwood	12	Poor/Declining	Boundary	Many dead branches and dieback possibly due to reduced quantity of sunlight.
122	*Acer saccharum*	Sugar Maple	40	Poor/Fair	Private	Visible hole in trunk.
123	*Ostrya virginiana*	Ironwood	25	Fair	Municipal	Some dead branches and dieback possibly due to reduced quantity of sunlight.
124	*Acer saccharum*	Sugar Maple	12	Poor/Fair	Private	Many dead branches and dieback possibly due to reduced quantity of sunlight.
125	*Ostrya virginiana*	Ironwood	15	Fair	Municipal	Some dead branches and dieback possibly due to reduced quantity of sunlight.
126	*Acer saccharum*	Sugar Maple	45	Fair	Municipal	Some dead branches and dieback possibly due to reduced quantity of sunlight.
127	*Acer saccharum*	Sugar Maple	30	Fair	Municipal	Some dead branches and dieback possibly due to reduced quantity of sunlight.
128	*Acer saccharum*	Sugar Maple	30	Fair/Good	Private	Few dead branches and dieback possibly due to reduced quantity of sunlight.
129	*Ostrya virginiana*	Ironwood	10	Good	Private	
130	*Acer saccharum*	Sugar Maple	50	Good	Private	
131	*Ostrya virginiana*	Ironwood	15	Good	Municipal	
132	*Ostrya virginiana*	Ironwood	15	Good	Boundary	
133	*Ostrya virginiana*	Ironwood	15	Good	Boundary	
134	*Ostrya virginiana*	Ironwood	15	Good	Boundary	
135	*Ostrya virginiana*	Ironwood	15	Good	Private	
136	*Ostrya virginiana*	Ironwood	15	Good	Private	
137	*Ostrya virginiana*	Ironwood	15	Good	Private	
138	*Thuya occidentalis*	Eastern White Cedar	50; 30; 20; 20	Poor/Declining	Municipal	Multistem (4 stems).
139	*Picea glauca*	White Spruce	60	Dead	Municipal	
140	*Ostrya virginiana*	Ironwood	15	Good	Private	
141	*Acer saccharum*	Sugar Maple	45	Good	Private	
142	*Acer saccharum*	Sugar Maple	30	Fair	Private	Some dead branches and dieback possibly due to reduced quantity of sunlight.
143	*Ostrya virginiana*	Ironwood	20	Good	Private	
144	*Ostrya virginiana*	Ironwood	10	Good	Private	
145	*Ostrya virginiana*	Ironwood	20	Fair/Good	Private	Few dead branches and dieback possibly due to reduced quantity of sunlight.
146	*Ostrya virginiana*	Ironwood	15	Good	Private	
147	*Acer saccharum*	Sugar Maple	35	Good	Private	
148	*Ostrya virginiana*	Ironwood	12	Good	Boundary	
149	*Acer saccharum*	Sugar Maple	25	Good	Private	
150	*Acer saccharum*	Sugar Maple	35	Fair	Municipal	A 15-20cm branch from the canopy is dead.
151	*Ostrya virginiana*	Ironwood	23	Fair	Municipal	Some dead branches and dieback possibly due to reduced quantity of sunlight.
152	*Ostrya virginiana*	Ironwood	20	Fair	Municipal	Some dead branches and dieback possibly due to reduced quantity of sunlight.
153	*Tilia americana*	Basswood	30	Good	Boundary	
154	*Tilia americana*	Basswood	30	Good	Municipal	
155	*Ostrya virginiana*	Ironwood	15	Good	Boundary	
156	*Prunus serotina*	Black Cherry	70	Poor/Declining	Municipal	Many dead branches and dieback possibly due to reduced quantity of sunlight.
157	*Ostrya virginiana*	Ironwood	20	Fair	Municipal	Some dead branches and dieback possibly due to reduced quantity of sunlight.
158	*Thuya occidentalis*	Eastern White Cedar	15; 10	Fair	Municipal	Multistem (2 stems). Some dead branches and dieback possibly due to reduced quantity of sunlight.
159	*Tilia americana*	Basswood	10	Dead	Private	
160	*Ostrya virginiana*	Ironwood	20; 12	Good	Municipal	Multistem (2 stems).
161	*Acer saccharum*	Sugar Maple	40	Fair/Good	Municipal	Few dead branches and dieback possibly due to reduced quantity of sunlight.
162	*Acer saccharum*	Sugar Maple	10	Poor	Municipal	Visible crack on trunk.
163	*Acer saccharum*	Sugar Maple	16	Fair	Municipal	Some dead branches and dieback possibly due to reduced quantity of sunlight.
164	*Ostrya virginiana*	Ironwood	10	Good	Municipal	
165	*Acer saccharum*	Sugar Maple	15	Good	Municipal	
166	*Acer saccharum*	Sugar Maple	15	Good	Municipal	
167	*Acer saccharum*	Sugar Maple	10	Good	Municipal	
168	*Acer saccharum*	Sugar Maple	10	Good	Municipal	
169	*Acer saccharum*	Sugar Maple	10	Good	Municipal	
170	*Acer saccharum*	Sugar Maple	10	Good	Municipal	
171	*Acer saccharum*	Sugar Maple	25	Good	Municipal	
172	*Tilia americana*	Basswood	35; 30; 20	Fair	Boundary	Multistem (3 stems). Some dead branches and dieback possibly due to reduced quantity of sunlight.
173	*Acer saccharum*	Sugar Maple	20	Good	Municipal	
174	*Acer saccharum*	Sugar Maple	15	Good	Municipal	
175	*Acer saccharum*	Sugar Maple	20	Good	Municipal	
176	*Ostrya virginiana*	Ironwood	10	Good	Boundary	
177	*Ostrya virginiana*	Ironwood	10	Good	Private	
178	*Ostrya virginiana*	Ironwood	10	Good	Boundary	
179	*Ostrya virginiana*	Ironwood	10	Good	Boundary	
180	*Acer saccharum*	Sugar Maple	45	Good	Boundary	Few dead branches
181	*Acer saccharum*	Sugar Maple	15	Good	Municipal	
182	*Pinus strobus*	Eastern White Pine	50	Good	Boundary	
183	*Acer saccharum*	Sugar Maple	35	Good	Private	
184	*Ostrya virginiana*	Ironwood	20	Good	Private	
185	*Ostrya virginiana*	Ironwood	20	Poor	Private	Many dead branches and dieback possibly due to reduced quantity of sunlight.
186	*Acer saccharum*	Sugar Maple	25	Good	Private	
187	*Undefined - Dead*	Undefined - Dead	25	Dead	Private	
188	*Acer saccharum*	Sugar Maple	10	Fair	Private	Some dead branches and dieback possibly due to reduced quantity of sunlight.
189	*Undefined - Dead*	Undefined - Dead	25	Dead	Private	
190	*Undefined - Dead*	Undefined - Dead	25	Dead	Private	
191	*Quercus Alba*	White Oak	30	Fair	Private	Some dead branches and dieback possibly due to reduced quantity of sunlight.
192	*Quercus spp.*	Oak	30	Fair/Good	Private	Few dead branches and dieback possibly due to reduced quantity of sunlight.
193	*Populus tremuloides*	Trembling aspen	35	Poor	Private	Dead leader.
194	*Populus tremuloides*	Trembling aspen	20	Fair	Private	visible crown galls.
195	*Picea glauca*	White Spruce	20	Poor/Fair	Private	Many dead branches and dieback possibly due to reduced quantity of sunlight.
196	*Abies balsamea*	Balsam Fir	20	Fair	Private	Some dead branches and dieback possibly due to reduced quantity of sunlight.
197	*Quercus spp.*	Oak	10	Poor/Fair	Private	Visible hole in trunk.
198	*Populus tremuloides*	Trembling aspen	20	Fair	Private	visible crown galls.
199	*Quercus spp.*	Oak	10	Fair	Boundary	Some broken branches.
200	*Acer saccharum*	Sugar Maple	15	Dead	Private	
201	*Acer saccharum*	Sugar Maple	10	Poor	Private	Many dead branches and dieback possibly due to reduced quantity of sunlight.
202	*Acer saccharum*	Sugar Maple	20	Fair/Good	Private	Few dead branches and dieback possibly due to reduced quantity of sunlight.
203	*Acer saccharum*	Sugar Maple	25	Fair	Private	Some dead branches and dieback possibly due to reduced quantity of sunlight.
204	*Acer saccharum*	Sugar Maple	From 10 to 60	From Poor to Good	Private	Large treed area. Quantity and location of trees was not surveyed / counted. Tree spacing between trees in this grouping is similar to other areas surveyed and shown on the survey plan. The most prevailing tree species in this grouping are Acer saccharum (approximately 45%) and Ostrya virginiana (approximately 45%) with a few individuals of the other species indicated in the tree species column.
	Betula alleghaniensis	Yellow Birch				
	Betula papytifera	White Birch				
	Fraxinus pennsylvanica	Red Ash				
	Ostrya virginiana	Ironwood				
	Picea glauca	White Spruce				
	Pinus strobus	Eastern White Pine				
	Populus tremuloides	Trembling aspen				
	Quercus spp.	Oak				
	Tilia americana	Basswood				

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Legend

Notes

1. REFER TO DRAWING TC01 FOR CURRENT VEGETATION.

Revision		By	Appd.	YY.MM.DD
1	ISSUED FOR REVIEW	CA	ILL	2022.04.06

File Name: 160410404-LB.dwg	Dwn.	Chkd.	Dsgn.	YY.MM.DD
	CA	ILL	ILL	22.03.03

Permit-Seal

Client/Project
EMD-BATIMO GROUP

150 KANATA AVENUE

OTTAWA, ON

Title
CURRENT VEGETATION SURVEY CHART

Project No.	Scale	
160410404	N.T.S.	
Drawing No.	Sheet	Revision
TC02	2 of 5	1

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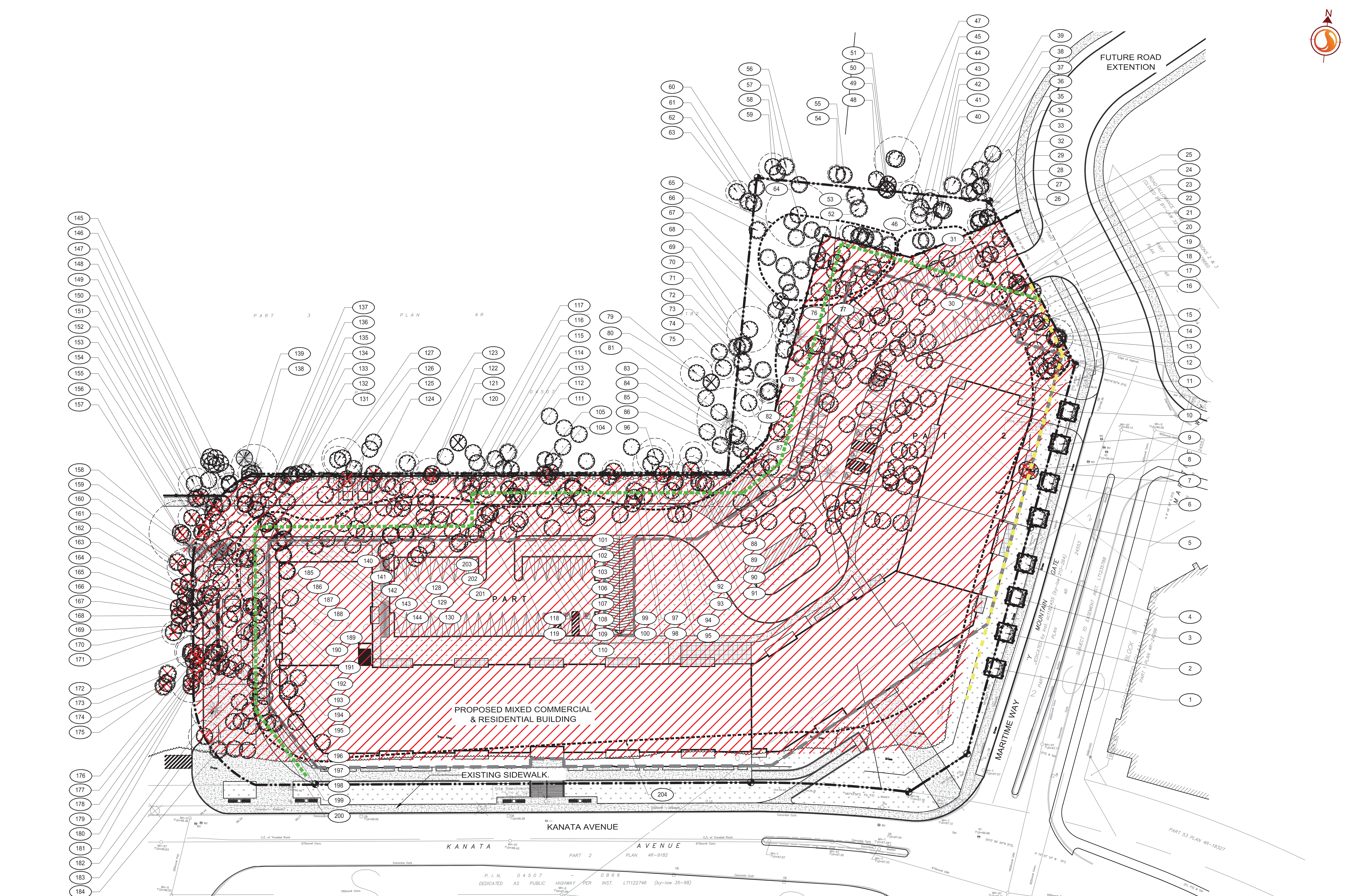

1 TREE PRESERVATION PLAN

1:400

TREE PRESERVATION NOTES

1. NO VEGETATION SHALL BE REMOVED WITHOUT MUNICIPAL WRITTEN APPROVAL.
2. LOCATION OF EXISTING TREES IS FOR REFERENCE ONLY AND SHALL BE CONFIRMED BY AN ARBORIST AND SURVEYOR.
3. NO VEGETATION REMOVAL SHALL OCCUR BETWEEN APRIL 8 AND AUGUST 28 OF ANY YEAR TO PROTECT BREEDING MIGRATORY BIRDS, AS WELL AS AT RISK BAT SPECIES. SHALL TREE REMOVAL DURING THIS PERIOD BY UNAVOIDABLE, THE CONTRACTOR IS REQUIRED TO CONDUCT A NESTING SURVEY BY A REGISTERED PROFESSIONAL AVIAN BIOLOGIST TO IDENTIFY AND ENSURE NO NESTING ACTIVITIES ARE PRESENT. TREE REMOVAL WILL BE ALLOWED WITHIN FIVE (5) DAYS OF CONDUCTING THE SURVEY.
4. CONTRACTOR SHALL ENSURE THE PROTECTION OF MATURE TREES IDENTIFIED TO BE RETAINED. TREE PROTECTION FENCING SHALL BE INSTALLED AT THE CRITICAL ROOT ZONE (CRZ) OF TREES WHERE THE CRZ IS ESTABLISHED AS BEING 10 CENTIMETRES FROM THE TRUNK OF A TREE FOR EVERY CENTIMETRE OF TRUNK DIAMETER AT BREAST HEIGHT (DBH). THE CRZ IS CALCULATED AS DBH X 10 CM. TREE PROTECTION FENCING SHALL BE INSTALLED AS SPECIFIED.
5. DURING EXCAVATION EQUIPMENT MUST BE MAINTAINED WITHIN THE CONFINES OF THE WORK AREA SO AS NOT TO DISRUPT ANY TURF OR TREE ROOTS UNNECESSARILY. DO NOT PLACE ANY MATERIAL OR EQUIPMENT WITHIN THE CRITICAL ROOT ZONE (CRZ) OF ANY TREE TO BE RETAINED.
6. CONTRACTOR SHALL ENSURE THAT NO FILL WILL BE ALLOWED TO OCCUR ON THE SURFACE ABOVE THE CRITICAL ROOT ZONE (CRZ) OF TREES.
7. ALL EXCAVATED MATERIAL, INCLUDING IMPORTED MATERIAL, MUST BE REMOVED IMMEDIATELY AND NOT PLACED ON GRASS OR NEAR TREES IN ORDER TO PREVENT ROOT DAMAGE. ACCIDENTAL HITTING OF ADJACENT TREES, AND TURF DAMAGE OUTSIDE OF WORK AREA.
8. CONTRACTOR SHALL MINIMIZE SOIL COMPACTION BY KEEPING OPERATION OF MACHINERY AND EQUIPMENT CONFINED TO DESIGNATED WORK AREA.
9. CONTRACTOR SHALL KEEP A SPILL KIT ON SITE.
10. CONTRACTOR SHALL DEVELOP AN EMERGENCY RESPONSE PLAN.
11. CONTRACTOR SHALL AVOID SOIL CONTAMINATION AND FUTURE LIABILITY BY CONFINING THE OILING AND REFUELING OF MACHINERY AND EQUIPMENT TO DESIGNATED STAGING AREA.
12. NO FUEL IS TO BE STORED WITHIN THE CRITICAL ROOT ZONE (CRZ) OF ANY TREE AND EXHAUST FUMES FROM ALL EQUIPMENT MUST NOT BE DIRECTED TOWARDS ANY TREE'S CANOPY.
13. CONTRACTOR SHALL PREVENT ANY DAMAGE TO THE ROOT SYSTEM, TRUNK OR BRANCHES OF ANY TREES TO BE RETAINED ON SITE AND ON ADJACENT PROPERTIES.
14. STORAGE OF EQUIPMENT AND VEHICLES WITHIN THE CRITICAL ROOT ZONE (CRZ) OF EXISTING TREES IS STRICTLY PROHIBITED.
15. WHERE LIMBS OR PORTIONS OF TREES ARE REMOVED TO ACCOMMODATE CONSTRUCTION WORK, THEY WILL BE REMOVED CAREFULLY IN ACCORDANCE WITH ACCEPTED ARBORICULTURAL PRACTICES.
16. WHERE NECESSARY, THE TREES WILL BE GIVEN AN OVERALL PRUNING TO RESTORE THEIR APPEARANCE. NOT MORE THAN ONE THIRD OF THE TOTAL BRANCHING SHALL BE REMOVED DURING A SINGLE OPERATION. THE SERVICES OF A CERTIFIED ARBORIST SHALL BE RETAINED FOR THIS TASK.

WORK WITHIN PROTECTED AREAS

1. EXCAVATION WORK:
   a. TO ENSURE THE ROOTS ARE NOT DISTURBED MORE THAN NECESSARY AND WHERE EXCAVATION WORKS ARE UNAVOIDABLE WITHIN THE CRZ OF TREES, THE FOLLOWING MITIGATION MEASURES SHALL BE USED:
      i. ALL EXCAVATION WITHIN THE CRZ OF TREES SHALL BE BY HAND OR HYDRO EXCAVATION USING THE SMALLEST TOOLS. ROOT CUTTING SHALL BE MADE USING A SHARP SPADE OR KNIFE AT THE LIMIT OF DISTURBANCE PRIOR TO ANY CONSTRUCTION ACTIVITIES.
      ii. THE CONTRACTOR SHALL ONLY TUNNEL OR BORE WITHIN THE CRZ. INSTEAD OF CREATING A TRENCH.
      iii. ANY ROOTS THAT ARE EXPOSED BY CONSTRUCTION ACTIVITIES MUST BE COVERED WITH NATIVE TOPSOIL IMMEDIATELY, TO ENSURE THAT THE ROOTS DO NOT DRY OUT OR HAVE ANY FURTHER DAMAGE OCCUR TO THEM.
   b. IN ALL THOSE INSTANCES WHERE ROOT PRUNING IS REQUIRED, THE SERVICE OF A CERTIFIED ARBORIST OR QUALIFIED TREE WORKER UNDER THE SUPERVISION OF A CERTIFIED ARBORIST SHALL BE RETAINED. IN ADDITION, ALL REMEDIAL WORKS MUST BE CONDUCTED BY A CERTIFIED CARE PROFESSIONAL TO ENSURE PROPER CARE IS ADMINISTERED IN ORDER TO ENABLE THE CONTINUED HEALTH OF THE TREES.
2. GRADING WORK

WHERE RE-GRADING IS REQUIRED WITHIN THE CRZ, IT SHOULD BE PERFORMED BY HAND UNDER THE SUPERVISION OF A CERTIFIED ARBORIST.

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Legend

- 000 — TREE IDENTIFICATION NUMBER
- EXISTING DECIDUOUS TREE
- EXISTING CONIFEROUS TREE
- EXISTING VEGETATION GROUPING
- CRITICAL ROOT ZONE
- EXISTING DEAD TREE
- EXISTING VEGETATION GROUPING TO BE REMOVED
- EXISTING TREE TO BE REMOVED
- TREE PROTECTION FENCE REFER TO DETAIL 1/TC05
- PROPOSED SOFTSCAPE
- PROPOSED HARDSCAPE
- PROPOSED FENCE
- PROPOSED LIMIT OF UNDERGROUND PARKING
- PROPOSED EXCAVATION SETBACK
- PROPOSED SHORING. REFER TO STRUCTURE RECOMMENDATIONS
- PROPERTY LINE

Notes

1. REFER TO SITE PLAN PREPARED BY ROSSMANN ACHITECTURE AND DATED MARCH 2022 FOR PROPOSED DETAILS ON SITE DEVELOPMENT.
2. REFER TO CIVIL DRAWINGS PREPARED BY EQUIPE LAURENCE AND DATED MARCH 2022 FOR PROPOSED GRADING AND SERVICING.
3. TOPOGRAPHICAL SURVEY PLAN BY ANNIS O'SULLIVAN VOLLEBEKK (AOV) LTD. AS PROVIDED MARCH 2022.
4. REFER TO DRAWING TC01 FOR CURRENT VEGETATION
5. REFER TO DRAWING TC02 FOR CURRENT VEGETATION SURVEY CHART
6. REFER TO DRAWING TC04 FOR TREE PROTECTION TABLE
7. REFER TO DRAWING TC05 FOR TREE CONSERVATION DETAILS.

1	ISSUED FOR REVIEW	CA	ILL	2022.04.06
Revision		By	Appd.	YY.MM.DD

File Name: 160410404-LB.dwg	CA	ILL	ILL	22.03.03
	Dwn.	Chkd.	Dsgn.	YY.MM.DD

Permit-Seal

ONTARIO ASSOCIATION OF LANDSCAPE ARCHITECTS — ISABELLE L LALONDE — OALA — 2022-04-06 — MEMBER

Client/Project

EMD-BATIMO GROUP

150 KANATA AVENUE

OTTAWA, ON

Title

PROPOSED DEVELOPMENT AND CONSERVED VEGETATION

Project No. 160410404

Scale 1:400 (0 4 12 20m)

Drawing No. TC03

Sheet 3 of 5

Revision 1

CONSERVED VEGETATION SURVEY CHART

TREE ASSESSMENT CONDUCTED: March 04, 2022

PLANT ID	BOTANICAL NAME	COMMON NAME	DBH (CM)	HEALTH/ CONDITION	OWNERSHIP	REMARKS	RECOMMENDATIONS
1	*Gleditsia triacanthos*	Honeylocust	15	Poor/Fair	Municipal	Poor tree form structure.	TO REMAIN AND BE PROTECTED.
2	*Gleditsia triacanthos*	Honeylocust	15	Poor/Fair	Municipal	Poor tree form structure.	TO REMAIN AND BE PROTECTED.
3	*Gleditsia triacanthos*	Honeylocust	10	Poor/Fair	Municipal	Many tree suckers growing on the trunk resulting in minimal tree form structure.	TO REMAIN AND BE PROTECTED.
4	*Gleditsia triacanthos*	Honeylocust	10	Poor/Fair	Municipal	Many tree suckers growing on the trunk resulting in minimal tree form structure.	TO REMAIN AND BE PROTECTED.
5	*Gleditsia triacanthos*	Honeylocust	10	Poor/Fair	Municipal	Many tree suckers growing on the trunk resulting in minimal tree form structure.	TO REMAIN AND BE PROTECTED.
6	*Gleditsia triacanthos*	Honeylocust	10	Poor/Fair	Municipal	Many tree suckers growing on the trunk resulting in minimal tree form structure.	TO REMAIN AND BE PROTECTED.
7	*Acer saccharum*	Sugar Maple	15	Poor	Private	Many dead branches and dieback possibly due to reduced quantity of sunlight.	TO BE REMOVED DUE TO PROPOSED BUILDING.
8	*Tilia americana*	Basswood	10	Poor	Private	Many dead branches and dieback possibly due to reduced quantity of sunlight.	TO BE REMOVED DUE TO PROPOSED BUILDING.
9	*Gleditsia triacanthos*	Honeylocust	10	Poor/Fair	Municipal	Many tree suckers growing on the trunk resulting in minimal tree form structure.	TO REMAIN AND BE PROTECTED.
10	*Gleditsia triacanthos*	Honeylocust	10	Poor/Fair	Municipal	Many tree suckers growing on the trunk resulting in minimal tree form structure.	TO REMAIN AND BE PROTECTED.
11	*Ostrya virginiana* *Quercus rubra* *Acer saccharum*	Ironwood Red Oak Sugar Maple	From 10 to 40	Poor/Fair Poor/Fair Poor/Fair	Private Private Private	Many dead branches and dieback possibly due to reduced quantity of sunlight. Grouping of 6 trees.	TO BE REMOVED DUE TO UNDERGROUND PARKING.
12	*Tilia americana*	Basswood	20	Poor	Private	Many dead branches and dieback possibly due to reduced quantity of sunlight.	TO BE REMOVED DUE TO REGRADING, NEW VEHICULAR ACCESS AND PARKING.
13	*Tilia americana*	Basswood	20	Poor	Private	Many dead branches and dieback possibly due to reduced quantity of sunlight.	TO BE REMOVED DUE TO REGRADING, NEW VEHICULAR ACCESS AND PARKING.
14	*Tilia americana*	Basswood	30	Poor	Private	Many dead branches and dieback possibly due to reduced quantity of sunlight.	TO BE REMOVED DUE TO REGRADING, NEW VEHICULAR ACCESS AND PARKING.
15	*Tilia americana*	Basswood	40	Poor	Private	Many dead branches and dieback possibly due to reduced quantity of sunlight.	TO BE REMOVED DUE TO REGRADING, NEW VEHICULAR ACCESS AND PARKING.
16	*Tilia americana*	Basswood	20	Dead	Private		TO BE REMOVED DUE TO REGRADING, NEW VEHICULAR ACCESS AND PARKING.
17	*Ostrya virginiana*	Ironwood	15	Fair	Private	Some dead branches and dieback possibly due to reduced quantity of sunlight.	TO BE REMOVED DUE TO REGRADING, NEW VEHICULAR ACCESS AND PARKING.
18	*Acer saccharum*	Sugar Maple	30	Poor	Private	Dead leader.	TO BE REMOVED DUE TO REGRADING, NEW VEHICULAR ACCESS AND PARKING.
19	*Acer saccharum*	Sugar Maple	45	Good	Private		TO BE REMOVED DUE TO REGRADING, NEW VEHICULAR ACCESS AND PARKING.
20	*Tilia americana*	Basswood	15	Poor	Private	Many dead branches and dieback possibly due to reduced quantity of sunlight.	TO BE REMOVED DUE TO REGRADING, NEW VEHICULAR ACCESS AND PARKING.
21	*Acer saccharum*	Sugar Maple	15	Good	Private		TO BE REMOVED DUE TO REGRADING, NEW VEHICULAR ACCESS AND PARKING.
22	*Acer saccharum*	Sugar Maple	15	Dead	Private		TO BE REMOVED DUE TO REGRADING, NEW VEHICULAR ACCESS AND PARKING.
23	*Acer saccharum*	Sugar Maple	20	Good	Private		TO BE REMOVED DUE TO REGRADING, NEW VEHICULAR ACCESS AND PARKING.
24	*Ostrya virginiana*	Ironwood	15	Fair	Private	Some dead branches and dieback possibly due to reduced quantity of sunlight.	TO BE REMOVED DUE TO REGRADING, NEW VEHICULAR ACCESS AND PARKING.
25	*Ostrya virginiana*	Ironwood	15	Fair	Private	Some dead branches and dieback possibly due to reduced quantity of sunlight.	TO BE REMOVED DUE TO REGRADING, NEW VEHICULAR ACCESS AND PARKING.
26	*Ostrya virginiana*	Ironwood	15	Poor	Private	Many dead branches and dieback possibly due to reduced quantity of sunlight.	TO REMAIN AND BE PROTECTED.
27	*Ostrya virginiana*	Ironwood	20	Poor	Private	Many dead branches and dieback possibly due to reduced quantity of sunlight.	TO REMAIN AND BE PROTECTED.
28	*Acer saccharum*	Sugar Maple	20	Good	Private		TO REMAIN AND BE PROTECTED.
29	*Acer saccharum*	Sugar Maple	20	Good	Private		TO REMAIN AND BE PROTECTED.
30	*Acer saccharum*	Sugar Maple	70	Fair	Private	Visible cracks on trunk.	TO BE REMOVED DUE TO REGRADING, NEW VEHICULAR ACCESS AND PARKING.
31	*Acer saccharum*	Sugar Maple	20	Good	Private		TO REMAIN AND BE PROTECTED.
32	*Acer saccharum*	Sugar Maple	25	Good	Private		TO REMAIN AND BE PROTECTED.
33	*Ostrya virginiana*	Ironwood	20	Fair/Good	Municipal	Few dead branches and dieback possibly due to reduced quantity of sunlight.	TO REMAIN AND BE PROTECTED.
34	*Acer saccharum*	Sugar Maple	15	Fair/Good	Municipal	Few dead branches and dieback possibly due to reduced quantity of sunlight.	TO REMAIN AND BE PROTECTED.
35	*Acer saccharum*	Sugar Maple	20	Fair/Good	Municipal	Few dead branches and dieback possibly due to reduced quantity of sunlight.	TO REMAIN AND BE PROTECTED.
36	*Acer saccharum*	Sugar Maple	20	Fair/Good	Municipal	Few dead branches and dieback possibly due to reduced quantity of sunlight.	TO REMAIN AND BE PROTECTED.
37	*Ostrya virginiana*	Ironwood	10	Fair/Good	Municipal	Few dead branches and dieback possibly due to reduced quantity of sunlight.	TO REMAIN AND BE PROTECTED.
38	*Ostrya virginiana*	Ironwood	15	Fair/Good	Municipal	Few dead branches and dieback possibly due to reduced quantity of sunlight.	TO REMAIN AND BE PROTECTED.
39	*Ostrya virginiana*	Ironwood	20	Fair/Good	Municipal	Few dead branches and dieback possibly due to reduced quantity of sunlight.	TO REMAIN AND BE PROTECTED.
40	*Acer saccharum*	Sugar Maple	10	Good	Private		TO REMAIN AND BE PROTECTED.
41	*Acer saccharum*	Sugar Maple	15	Good	Private		TO REMAIN AND BE PROTECTED.
42	*Acer saccharum*	Sugar Maple	15	Good	Private		TO REMAIN AND BE PROTECTED.
43	*Acer saccharum*	Sugar Maple	25	Good	Private		TO REMAIN AND BE PROTECTED.
44	*Acer saccharum*	Sugar Maple	20	Good	Private		TO REMAIN AND BE PROTECTED.
45	*Acer saccharum*	Sugar Maple	25	Good	Boundary		TO REMAIN AND BE PROTECTED.
46	*Acer saccharum*	Sugar Maple	30	Good	Private		TO REMAIN AND BE PROTECTED.
47	*Fraxinus pennsylvanica*	Red Ash	50	Dead	Municipal		TO REMAIN.
48	*Acer saccharum*	Sugar Maple	20	Good	Municipal		TO REMAIN AND BE PROTECTED.
49	*Acer saccharum*	Sugar Maple	15	Good	Boundary		TO REMAIN AND BE PROTECTED.
50	*Fraxinus pennsylvanica*	Red Ash	15	Dead	Boundary		TO REMAIN.
51	*Undefined - Dead*	Undefined - Dead	15	Dead	Municipal		TO REMAIN.
52	*Tilia americana*	Basswood	20	Good	Private		TO REMAIN AND BE PROTECTED.
53	*Tilia americana*	Basswood	20	Poor	Private	Leaning and many dead branches and dieback possibly due to reduced quantity of sunlight.	TO REMAIN AND BE PROTECTED.
54	*Ostrya virginiana*	Ironwood	20	Good	Municipal		TO REMAIN AND BE PROTECTED.
55	*Ostrya virginiana*	Ironwood	15	Poor/Fair	Municipal	Many dead branches and dieback possibly due to reduced quantity of sunlight.	TO REMAIN AND BE PROTECTED.
56	*Ostrya virginiana*	Ironwood	15	Poor/Fair	Private	Many dead branches and dieback possibly due to reduced quantity of sunlight.	TO REMAIN AND BE PROTECTED.
57	*Ostrya virginiana*	Ironwood	20	Good	Municipal		TO REMAIN AND BE PROTECTED.
58	*Ostrya virginiana*	Ironwood	15	Good	Municipal		TO REMAIN AND BE PROTECTED.
59	*Acer saccharum*	Sugar Maple	30	Poor/Fair	Municipal	Visible crack on trunk.	TO REMAIN AND BE PROTECTED.
60	*Acer saccharum*	Sugar Maple	15	Good	Boundary		TO REMAIN AND BE PROTECTED.
61	*Acer saccharum*	Sugar Maple	15	Good	Boundary		TO REMAIN AND BE PROTECTED.
62	*Ostrya virginiana*	Ironwood	20	Poor/Declining	Municipal	Dead leader.	TO REMAIN AND BE PROTECTED.
63	*Acer saccharum*	Sugar Maple	25	Fair	Municipal	Some dead branches and dieback possibly due to reduced quantity of sunlight.	TO REMAIN AND BE PROTECTED.
64	*Acer saccharum*	Sugar Maple	80	Good	Private		TO REMAIN AND BE PROTECTED.
65	*Ostrya virginiana* *Acer saccharum*	Ironwood Sugar Maple	From 10 to 20	Fair/Good	Private	Few dead branches and dieback possibly due to reduced quantity of sunlight. Grouping of 23	TREES AS INDICATED ON DRAWING TC03 TO BE REMOVED DUE TO PROPOSED UNDERGROUND UTILITIES AND UNDERGROUND PARKING.
66	*Ostrya virginiana*	Ironwood	20	Fair	Private	Some dead branches and dieback possibly due to reduced quantity of sunlight.	TO REMAIN AND BE PROTECTED.
67	*Pinus strobus*	Eastern White Pine	60	Dead	Private		TO REMAIN.
68	*Acer saccharum*	Sugar Maple	30	Good	Private		TO REMAIN AND BE PROTECTED.
69	*Quercus rubra*	Red Oak	50	Fair/Good	Private	Few dead branches and dieback possibly due to reduced quantity of sunlight.	TO REMAIN AND BE PROTECTED.
70	*Acer saccharum*	Sugar Maple	12	Good	Private		TO REMAIN AND BE PROTECTED.
71	*Acer saccharum*	Sugar Maple	20	Good	Boundary		TO REMAIN AND BE PROTECTED.
72	*Acer saccharum*	Sugar Maple	20	Good	Municipal		TO REMAIN AND BE PROTECTED.
73	*Acer saccharum*	Sugar Maple	30	Good	Private		TO REMAIN AND BE PROTECTED.
74	*Acer saccharum*	Sugar Maple	15	Good	Municipal		TO REMAIN AND BE PROTECTED.
75	*Acer saccharum*	Sugar Maple	25	Good	Municipal		TO REMAIN AND BE PROTECTED.
76	*Pinus strobus*	Eastern White Pine	50	Fair	Private	Some dead branches and dieback at the bottom possibly due to reduced quantity of sunlight.	TREES AS INDICATED ON DRAWING TC03 TO BE REMOVED DUE TO REGRADING NEW VEHICULAR ACCESS AND PARKING.
77	*Tilia americana*	Basswood	90	Poor/Fair	Private	Visible cracks on trunk.	TO BE REMOVED DUE TO REGRADING, NEW VEHICULAR ACCESS AND PARKING.
78	*Tilia americana*	Basswood	15	Poor/Fair	Private	Visible crack on trunk.	TO REMAIN AND BE PROTECTED.
79	*Acer saccharum*	Sugar Maple	35	Good	Municipal		TO REMAIN AND BE PROTECTED.
80	*Undefined - Dead*	Undefined - Dead	20	Dead	Municipal		TO REMAIN.
81	*Pinus strobus*	Eastern White Pine	70	Fair	Municipal	Some dead branches and dieback at bottom possibly due to reduced quantity of sunlight.	TO REMAIN AND BE PROTECTED.
82	*Acer saccharum*	Sugar Maple	30	Good	Private		TO REMAIN AND BE PROTECTED.
83	*Fraxinus pennsylvanica*	Red Ash	30	Poor	Boundary	Signs of emerald ash borer and many dead branches and dieback possibly due to reduced quantity of sunlight.	TO REMAIN AND BE PROTECTED.
84	*Acer saccharum*	Sugar Maple	12	Fair	Private	Some dead branches and dieback possibly due to reduced quantity of sunlight.	TO REMAIN AND BE PROTECTED.
85	*Ostrya virginiana*	Ironwood	15	Poor/Declining	Private	Trunk almost cut in half.	TO REMAIN AND BE PROTECTED.
86	*Ostrya virginiana*	Ironwood	15	Fair	Municipal	Some dead branches and dieback possibly due to reduced quantity of sunlight.	TO REMAIN AND BE PROTECTED.
87	*Acer saccharum*	Sugar Maple	45	Good	Private		TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
88	*Quercus rubra*	Red Oak	30	Good	Private		TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
89	*Acer saccharum*	Sugar Maple	50	Fair	Private	Visible bruise on trunk.	TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
90	*Ostrya virginiana*	Ironwood	15	Poor/Fair	Private	Many dead branches and dieback possibly due to reduced quantity of sunlight.	TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
91	*Acer saccharum*	Sugar Maple	30	Good	Private		TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
92	*Acer saccharum*	Sugar Maple	40	Fair	Private	Visible bruise on trunk.	TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
93	*Acer saccharum*	Sugar Maple	35	Fair/Good	Private	Few dead branches and dieback possibly due to reduced quantity of sunlight.	TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
94	*Acer saccharum*	Sugar Maple	25	Good	Boundary		TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
95	*Acer saccharum*	Sugar Maple	40	Good	Municipal		TO REMAIN AND BE PROTECTED.
96	*Acer saccharum*	Sugar Maple	40	Good	Municipal		TO REMAIN AND BE PROTECTED.
97	*Betula papyrifera*	Paper Birch	20	Fair	Private	Some dead branches and dieback possibly due to reduced quantity of sunlight.	TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
98	*Acer saccharum*	Sugar Maple	30	Good	Private		TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
99	*Acer saccharum*	Sugar Maple	25	Good	Boundary		TO BE REMOVED DUE TO REGRADING AND NEW FENCING.
100	*Acer saccharum*	Sugar Maple	15	Poor/Fair	Private	Small crown.	TO BE REMOVED DUE TO REGRADING AND NEW FENCING.
101	*Ostrya virginiana*	Ironwood	15	Fair	Boundary	Some dead branches and dieback possibly due to reduced quantity of sunlight.	TO BE REMOVED DUE TO REGRADING AND NEW FENCING.
102	*Ostrya virginiana*	Ironwood	15	Fair	Private	Some dead branches and dieback possibly due to reduced quantity of sunlight.	TO BE REMOVED DUE TO REGRADING AND NEW FENCING.
103	*Ostrya virginiana*	Ironwood	20	Good	Boundary		TO BE REMOVED DUE TO REGRADING AND NEW FENCING.
104	*Ostrya virginiana*	Ironwood	20	Good	Municipal		TO REMAIN AND BE PROTECTED.
105	*Ostrya virginiana*	Ironwood	15	Poor	Municipal	Many dead branches and dieback possibly due to reduced quantity of sunlight.	TO REMAIN AND BE PROTECTED.
106	*Ostrya virginiana*	Ironwood	10	Fair	Private	Some dead branches and dieback possibly due to reduced quantity of sunlight.	TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
107	*Ostrya virginiana*	Ironwood	10	Fair	Private	Some dead branches and dieback possibly due to reduced quantity of sunlight.	TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
108	*Fraxinus pennsylvanica*	Red Ash	20	Dead	Private		TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.

CONSERVED VEGETATION SURVEY CHART

TREE ASSESSMENT CONDUCTED: March 04, 2022

PLANT ID	BOTANICAL NAME	COMMON NAME	DBH (CM)	HEALTH/ CONDITION	OWNERSHIP	REMARKS	RECOMMENDATIONS
109	*Fraxinus pennsylvanica*	Red Ash	20	Dead	Private		TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
110	*Acer saccharum*	Sugar Maple	40	Fair/Good	Private	Few dead branches and dieback possibly due to reduced quantity of sunlight.	TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
111	*Acer saccharum*	Sugar Maple	15	Good	Municipal		TO REMAIN AND BE PROTECTED.
112	*Acer saccharum*	Sugar Maple	15	Good	Municipal		TO REMAIN AND BE PROTECTED.
113	*Acer saccharum*	Sugar Maple	18	Good	Municipal		TO REMAIN AND BE PROTECTED.
114	*Acer saccharum*	Sugar Maple	20	Good	Municipal		TO REMAIN AND BE PROTECTED.
115	*Fraxinus pennsylvanica*	Red Ash	25	Poor	Private	Signs of emerald ash borer and many dead branches and dieback possibly due to reduced quantity of sunlight.	TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
116	*Acer saccharum*	Sugar Maple	20	Fair	Private	Some dead branches and dieback possibly due to reduced quantity of sunlight.	TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
117	*Fraxinus pennsylvanica*	Red Ash	20	Poor/Declining	Private	Signs of emerald ash borer and many dead branches and dieback possibly due to reduced quantity of sunlight.	TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
118	*Acer saccharum*	Sugar Maple	30	Fair	Private	Some dead branches and dieback possibly due to reduced quantity of sunlight.	TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
119	*Fraxinus pennsylvanica*	Red Ash	20	Poor/Declining	Private	Signs of emerald ash borer and many dead branches and dieback possibly due to reduced quantity of sunlight.	TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
120	*Fraxinus pennsylvanica*	Red Ash	45	Dead	Boundary	Signs of emerald ash borer.	TO REMAIN.
121	*Ostrya virginiana*	Ironwood	12	Poor/Declining	Boundary	Many dead branches and dieback possibly due to reduced quantity of sunlight.	TO BE REMOVED DUE TO REGRADING AND NEW FENCING.
122	*Acer saccharum*	Sugar Maple	40	Poor/Fair	Private	Visible hole in trunk.	TO BE REMOVED DUE TO REGRADING AND NEW FENCING.
123	*Ostrya virginiana*	Ironwood	25	Fair	Municipal	Some dead branches and dieback possibly due to reduced quantity of sunlight.	TO REMAIN AND BE PROTECTED.
124	*Acer saccharum*	Sugar Maple	12	Poor/Fair	Private	Many dead branches and dieback possibly due to reduced quantity of sunlight.	TO BE REMOVED DUE TO REGRADING AND NEW FENCING.
125	*Ostrya virginiana*	Ironwood	15	Fair	Municipal	Some dead branches and dieback possibly due to reduced quantity of sunlight.	TO REMAIN AND BE PROTECTED.
126	*Acer saccharum*	Sugar Maple	45	Fair	Municipal	Some dead branches and dieback possibly due to reduced quantity of sunlight.	TO REMAIN AND BE PROTECTED.
127	*Acer saccharum*	Sugar Maple	30	Fair	Municipal	Some dead branches and dieback possibly due to reduced quantity of sunlight.	TO REMAIN AND BE PROTECTED.
128	*Acer saccharum*	Sugar Maple	30	Fair/Good	Private	Few dead branches and dieback possibly due to reduced quantity of sunlight.	TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
129	*Ostrya virginiana*	Ironwood	10	Good	Private		TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
130	*Acer saccharum*	Sugar Maple	50	Good	Private		TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
131	*Ostrya virginiana*	Ironwood	15	Good	Municipal		TO REMAIN AND BE PROTECTED.
132	*Ostrya virginiana*	Ironwood	15	Good	Boundary		TO REMAIN AND BE PROTECTED.
133	*Ostrya virginiana*	Ironwood	15	Good	Boundary		TO REMAIN AND BE PROTECTED.
134	*Ostrya virginiana*	Ironwood	15	Good	Boundary		TO REMAIN AND BE PROTECTED.
135	*Ostrya virginiana*	Ironwood	15	Good	Private		TO BE REMOVED DUE TO REGRADING AND NEW FENCING.
136	*Ostrya virginiana*	Ironwood	15	Good	Private		TO BE REMOVED DUE TO REGRADING AND NEW FENCING.
137	*Ostrya virginiana*	Ironwood	15	Good	Private		TO BE REMOVED DUE TO REGRADING AND NEW FENCING.
138	*Thuya occidentalis*	Eastern White Cedar	50; 30; 20; 20	Poor/Declining	Municipal	Multistem (4 stems).	TO REMAIN AND BE PROTECTED.
139	*Picea glauca*	White Spruce	60	Dead	Municipal		TO REMAIN.
140	*Ostrya virginiana*	Ironwood	15	Good	Private		TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
141	*Acer saccharum*	Sugar Maple	45	Good	Private		TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
142	*Acer saccharum*	Sugar Maple	30	Fair	Private	Some dead branches and dieback possibly due to reduced quantity of sunlight.	TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
143	*Ostrya virginiana*	Ironwood	20	Good	Private		TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
144	*Ostrya virginiana*	Ironwood	10	Good	Private		TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
145	*Ostrya virginiana*	Ironwood	20	Fair/Good	Private	Few dead branches and dieback possibly due to reduced quantity of sunlight.	TO REMAIN AND BE PROTECTED.
146	*Ostrya virginiana*	Ironwood	15	Good	Private		TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
147	*Acer saccharum*	Sugar Maple	35	Good	Private		TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
148	*Ostrya virginiana*	Ironwood	12	Good	Boundary		TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
149	*Acer saccharum*	Sugar Maple	25	Good	Private		TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
150	*Acer saccharum*	Sugar Maple	35	Fair	Municipal	A 15-20cm branch from the canopy is dead.	TO REMAIN AND BE PROTECTED.
151	*Ostrya virginiana*	Ironwood	23	Fair	Municipal	Some dead branches and dieback possibly due to reduced quantity of sunlight.	TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
152	*Ostrya virginiana*	Ironwood	20	Fair	Municipal	Some dead branches and dieback possibly due to reduced quantity of sunlight.	TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
153	*Tilia americana*	Basswood	30	Good	Boundary		TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
154	*Tilia americana*	Basswood	30	Good	Municipal		TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
155	*Ostrya virginiana*	Ironwood	15	Good	Boundary		TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
156	*Prunus serotina*	Black Cherry	70	Poor/Declining	Municipal	Many dead branches and dieback possibly due to reduced quantity of sunlight.	TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
157	*Ostrya virginiana*	Ironwood	20	Fair	Municipal	Some dead branches and dieback possibly due to reduced quantity of sunlight.	TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
158	*Thuya occidentalis*	Eastern White Cedar	15; 10	Fair	Municipal	Multistem (2 stems). Some dead branches and dieback possibly due to reduced quantity of sunlight.	TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
159	*Tilia americana*	Basswood	10	Dead	Private		TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
160	*Ostrya virginiana*	Ironwood	20; 12	Good	Municipal	Multistem (2 stems).	TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
161	*Acer saccharum*	Sugar Maple	40	Fair/Good	Municipal	Few dead branches and dieback possibly due to reduced quantity of sunlight.	TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
162	*Acer saccharum*	Sugar Maple	10	Poor	Municipal	Visible crack on trunk.	TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
163	*Acer saccharum*	Sugar Maple	16	Fair	Municipal	Some dead branches and dieback possibly due to reduced quantity of sunlight.	TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
164	*Ostrya virginiana*	Ironwood	10	Good	Municipal		TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
165	*Acer saccharum*	Sugar Maple	15	Good	Municipal		TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
166	*Acer saccharum*	Sugar Maple	15	Good	Municipal		TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
167	*Acer saccharum*	Sugar Maple	10	Good	Municipal		TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
168	*Acer saccharum*	Sugar Maple	10	Good	Municipal		TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
169	*Acer saccharum*	Sugar Maple	10	Good	Municipal		TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
170	*Acer saccharum*	Sugar Maple	10	Good	Municipal		TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
171	*Acer saccharum*	Sugar Maple	25	Good	Municipal		TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
172	*Tilia americana*	Basswood	35; 30; 20	Fair	Boundary	Multistem (3 stems). Some dead branches and dieback possibly due to reduced quantity of sunlight.	TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
173	*Acer saccharum*	Sugar Maple	20	Good	Municipal		TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
174	*Acer saccharum*	Sugar Maple	15	Good	Municipal		TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
175	*Acer saccharum*	Sugar Maple	20	Good	Municipal		TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
176	*Ostrya virginiana*	Ironwood	10	Good	Boundary		TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
177	*Ostrya virginiana*	Ironwood	10	Good	Private		TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
178	*Ostrya virginiana*	Ironwood	10	Good	Boundary		TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
179	*Ostrya virginiana*	Ironwood	10	Good	Boundary		TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
180	*Acer saccharum*	Sugar Maple	45	Good	Boundary	Few dead branches	TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
181	*Acer saccharum*	Sugar Maple	15	Good	Municipal		TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
182	*Pinus strobus*	Eastern White Pine	50	Good	Boundary		TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
183	*Acer saccharum*	Sugar Maple	35	Good	Private		TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
184	*Ostrya virginiana*	Ironwood	20	Good	Private		TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
185	*Ostrya virginiana*	Ironwood	20	Poor	Private	Many dead branches and dieback possibly due to reduced quantity of sunlight.	TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
186	*Acer saccharum*	Sugar Maple	25	Good	Private		TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
187	*Undefined - Dead*	Undefined - Dead	25	Dead	Private		TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
188	*Acer saccharum*	Sugar Maple	10	Fair	Private	Some dead branches and dieback possibly due to reduced quantity of sunlight.	TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
189	*Undefined - Dead*	Undefined - Dead	25	Dead	Private		TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
190	*Undefined - Dead*	Undefined - Dead	25	Dead	Private		TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
191	*Quercus Alba*	White Oak	30	Fair	Private	Some dead branches and dieback possibly due to reduced quantity of sunlight.	TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
192	*Quercus spp.*	Oak	30	Fair/Good	Private	Few dead branches and dieback possibly due to reduced quantity of sunlight.	TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
193	*Populus tremuloides*	Trembling aspen	35	Poor	Private	Dead leader.	TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
194	*Populus tremuloides*	Trembling aspen	20	Fair	Private	Visible crown galls.	TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
195	*Picea glauca*	White Spruce	20	Poor/Fair	Private	Many dead branches and dieback possibly due to reduced quantity of sunlight.	TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
196	*Abies balsamea*	Balsam Fir	20	Fair	Private	Some dead branches and dieback possibly due to reduced quantity of sunlight.	TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
197	*Quercus spp.*	Oak	10	Poor/Fair	Private	Visible hole in trunk.	TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
198	*Populus tremuloides*	Trembling aspen	20	Fair	Private	Visible crown galls.	TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
199	*Quercus spp.*	Oak	10	Fair	Boundary	Some broken branches.	TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
200	*Acer saccharum*	Sugar Maple	15	Dead	Private		TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
201	*Acer saccharum*	Sugar Maple	10	Poor	Private	Many dead branches and dieback possibly due to reduced quantity of sunlight.	TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
202	*Acer saccharum*	Sugar Maple	20	Fair/Good	Private	Few dead branches and dieback possibly due to reduced quantity of sunlight.	TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
203	*Acer saccharum*	Sugar Maple	25	Fair	Private	Some dead branches and dieback possibly due to reduced quantity of sunlight.	TO BE REMOVED DUE TO PROXIMITY OF PROPOSED HARDSURFACES AND REGRADING.
204	*Acer saccharum* *Betula alleghaniensis* *Betula papytifera* *Fraxinus pennsylvanica* *Ostrya virginiana* *Picea glauca* *Pinus strobus* *Populus tremuloides* *Quercus spp.* *Tilia americana*	Sugar Maple Yellow Birch White Birch Red Ash Ironwood White Spruce Eastern White Pine Trembling aspen Oak Basswood	From 10 to 60	From Poor to Good	Private	Large treed area. Quantity and location of trees was not surveyed / counted. Tree spacing between trees in this grouping is similar to other areas surveyed and shown on the survey plan. The most prevailing tree species in this grouping are Acer saccharum (approximately 45%) and Ostrya virginiana (approximately 45%) with a few individuals of the other species indicated in the tree species column.	TREES AS INDICATED ON DRAWING TC03 TO BE REMOVED TO DEVELOP THE PROPERTY WITH PROPOSED BUILDING, UNDERGROUND PARKING LOT, ABOVE GROUND PARKING, VEHICULAR ACCESS ROAD, AND UNDERGROUND UTILITIES. ONLY A FEW TREES FROM THIS GROUPING ARE GROWING OUTSIDE THE LIMITS OF WORK AND WILL BE PROTECTED.

Stantec

Stantec Consulting Ltd.
300 - 1331 Clyde Avenue
Ottawa ON
Tel. 613.722.4420
www.stantec.com

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Legend

- TREE TO BE REMOVED (shaded)
- TREE TO REMAIN AND BE PROTECTED (unshaded)

Notes

1. REFER TO DRAWING TC03 FOR PROPOSED DEVELOPMENT AND CONSERVED VEGETATION.

1 ISSUED FOR REVIEW	CA	ILL	2022.04.06
Revision	By	Appd.	YY.MM.DD

File Name: 160410404-LB.dwg	CA	ILL	ILL	22.03.03
	Dwn.	Chkd.	Dsgn.	YY.MM.DD

Permit-Seal

ONTARIO ASSOCIATION OF LANDSCAPE ARCHITECTS
ISABELLE L LALONDE
OALA
2022-04-06
MEMBER

Client/Project
EMD-BATIMO GROUP

150 KANATA AVENUE

OTTAWA, ON

Title
TREE PROTECTION TABLE

Project No. 160410404
Scale N.T.S.
Drawing No. TC04
Sheet 4 of 5
Revision 1

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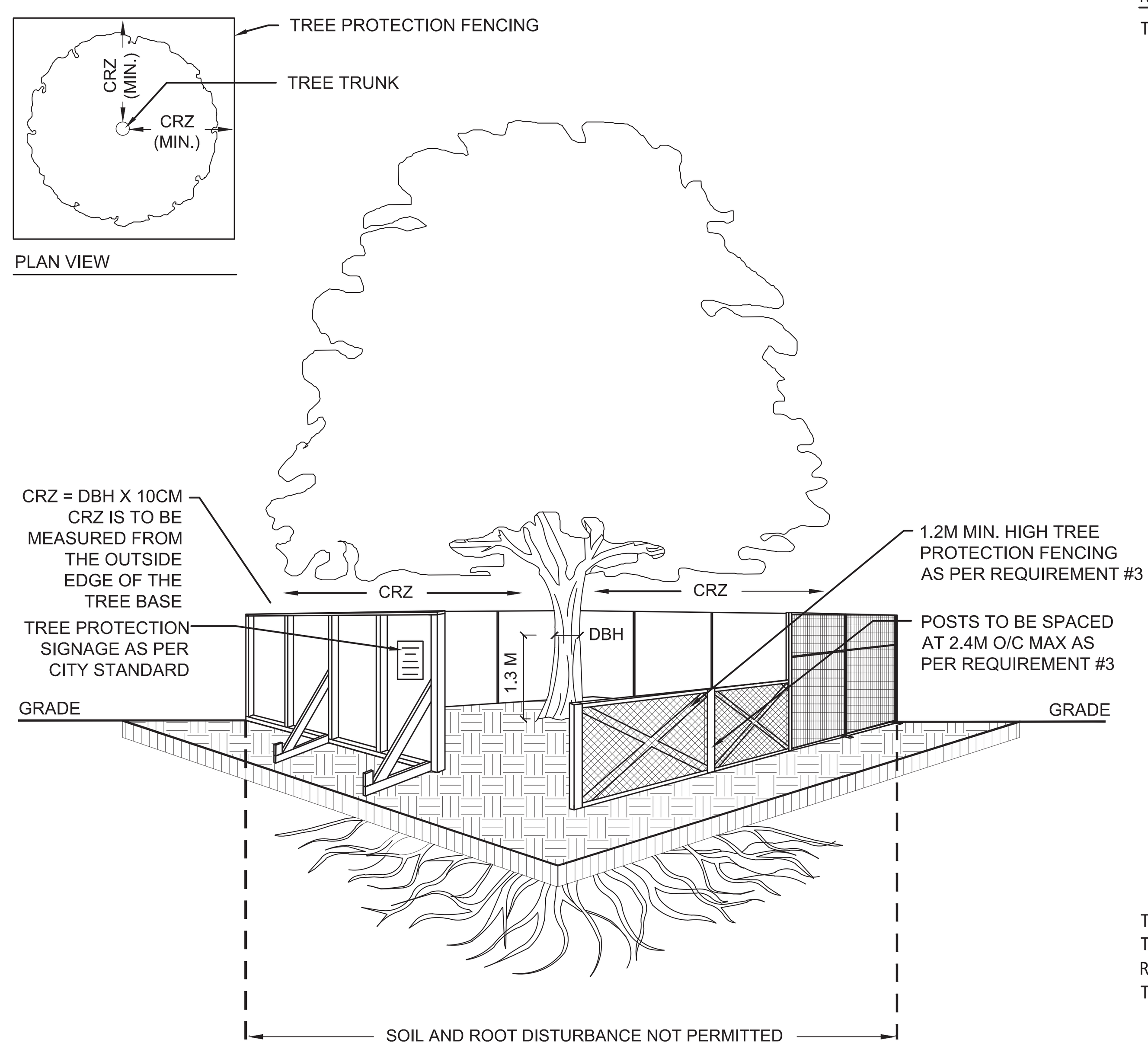
2022/04/06 7:44 AM By: Acar, Charbel

ORIGINAL SHEET - ARCH D



NOTES:

TREE PROTECTION REQUIREMENTS:

1. PRIOR TO ANY WORK ACTIVITY WITHIN THE CRITICAL ROOT ZONE (CRZ = 10X 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 OF 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 AS INDICATED ON THE TREE PRESERVATION PLAN WITHIN THIS SET OF DRAWINGS. THE PLAN AND CONSTRUCTED FENCING MUST BE APPROVED BY CITY FORESTRY STAFF PRIOR TO 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.

1 TREE PROTECTION FENCE
N.T.S.

Stantec

Stantec Consulting Ltd.
300 - 1331 Clyde Avenue
Ottawa ON
Tel. 613.722.4420
www.stantec.com

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Legend

Notes

1	ISSUED FOR REVIEW	CA	ILL	2022.04.06
Revision		By	Appd.	YY.MM.DD

File Name: 160410404-LB.dwg	CA	ILL	ILL	22.03.03
	Dwn.	Chkd.	Dsgn.	YY.MM.DD

Permit-Seal

ONTARIO ASSOCIATION OF LANDSCAPE ARCHITECTS
ISABELLE L LALONDE
OALA
2022-04-06
MEMBER

Client/Project
EMD-BATIMO GROUP

150 KANATA AVENUE

OTTAWA, ON

Title
TREE CONSERVATION DETAILS

Project No.	Scale	
160410404	AS NOTED	
Drawing No.	Sheet	Revision
TC05	5 of 5	1

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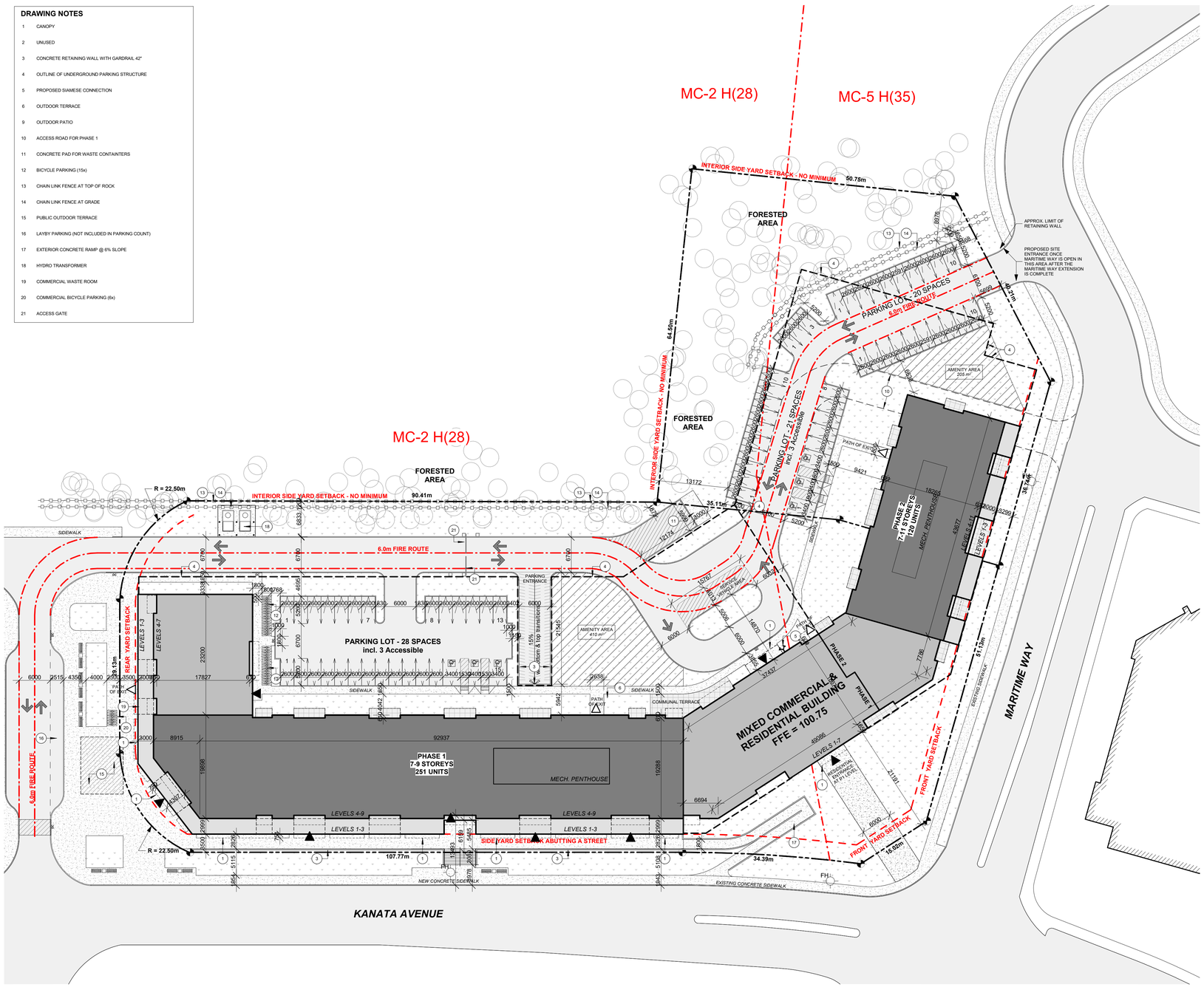
2022/04/06 7:43 AM By: Acar, Charbel

ORIGINAL SHEET - ARCH D

Appendix D SITE PLAN AND CIVIL DESIGN

DRAWING NOTES

1	CANOPY
2	UNUSED
3	CONCRETE RETAINING WALL WITH GARDRAIL 42"
4	OUTLINE OF UNDERGROUND PARKING STRUCTURE
5	PROPOSED SIAMESE CONNECTION
6	OUTDOOR TERRACE
9	OUTDOOR PATIO
10	ACCESS ROAD FOR PHASE 1
11	CONCRETE PAD FOR WASTE CONTAINTERS
12	BICYCLE PARKING (15x)
13	CHAIN LINK FENCE AT TOP OF ROCK
14	CHAIN LINK FENCE AT GRADE
15	PUBLIC OUTDOOR TERRACE
16	LAYBY PARKING (NOT INCLUDED IN PARKING COUNT)
17	EXTERIOR CONCRETE RAMP @ 6% SLOPE
18	HYDRO TRANSFORMER
19	COMMERCIAL WASTE ROOM
20	COMMERCIAL BICYCLE PARKING (6x)
21	ACCESS GATE



1 SITE PLAN
1 : 400

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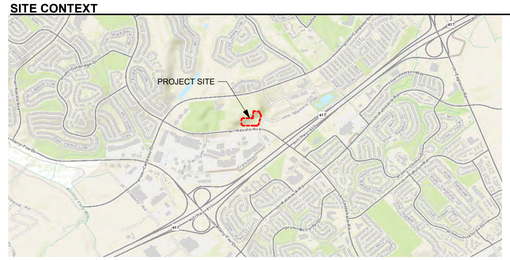
SITE CONTEXT



LEGEND

SURFACES

- GRASS
- RIVERSTONE
- CONCRETE PAVERS
- POURED CONCRETE
- ASPHALT PAVING
- PROPOSED NEW BUILDING
- EXISTING BUILDING TO REMAIN
- EXISTING BUILDING TO BE DEMOLISHED

LINES

- PROPERTY LINE
- SETBACK LINE
- EXISTING FENCE
- NEW FENCE
- OHW — OVERHEAD WIRES

VEGETATION

- TREE: EXISTING TO REMAIN
- TREE: EXISTING TO BE REMOVED
- TREE: NEW PROPOSED
- SHRUB: NEW PROPOSED

SYMBOLS

- DIRECTIONAL ARROWS
- BUILDING ACCESS
- BUILDING EGRESS
- SIAMESE CONNECTION
- UP — UTILITY POLE
- FH — FIRE HYDRANT
- CATCH BASIN / MANHOLE
- DEPRESSED CURB
- LANDSCAPE LIGHT
- LIGHT POLE
- WALL MOUNTED LIGHT
- XX.XXm — EXISTING GRADE ELEVATION
- XX.XXm — PROPOSED GRADE ELEVATION
- LOT CORNERS

PARKING

- BIKE PARKING H: HORIZONTAL 0.6M x 1.8M V: VERTICAL 0.5M x 1.5M S: STACKED 0.37M x 1.8M
- CAR PARKING R: RESIDENTIAL V: VISITOR
- BF PARKING R: RESIDENTIAL V: VISITOR
- BF PARKING (TYPE A) R: RESIDENTIAL V: VISITOR
- BF PARKING (TYPE B) R: RESIDENTIAL V: VISITOR

GENERAL NOTES

NOTE-A :
- ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS AND SPECIFICATIONS, INCLUDING OTHER CONSULTANTS DRAWINGS AND SPECIFICATIONS. ANY DISCREPANCIES BETWEEN DRAWINGS WILL BE REPORTED TO THE PROJECT LEAD IMMEDIATELY FOR CLARIFICATION PRIOR TO COMMENCING ANY CONSTRUCTION.

NOTE-B :
- ALL GENERAL SITE INFORMATION AND CONDITIONS HAVE BEEN COMPILED FROM EXISTING PLANS AND SURVEYS.

NOTE-C :
- CONTRACTOR IS RESPONSIBLE TO CHECK AND VERIFY ALL DIMENSIONS ON SITE AND REPORT ALL ERRORS AND / OR OMISSIONS TO THE ARCHITECT.

NOTE-D :
- REFER TO LANDSCAPE PLAN FOR ALL EXTERIOR LANDSCAPING.

NOTE-E :
- DO NOT SCALE DRAWINGS.

NOTE-F :
- ALL CONTRACTORS MUST COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS.

SURVEY INFO

TOPOGRAPHIC SURVEY OF :
PART OF LOTS 2 & 3 - CONCESSION 2
GEOGRAPHIC TOWNSHIP OF MARCH
CITY OF OTTAWA
REGISTERED PLAN V-13593

PREPARED BY ANNIS, O'SULLIVAN' VOLLEBEKK LTD.

N

GRAPHIC SCALE
0 1 5 10

PROJECT INFORMATION

SITE SUMMARY

ADDRESS	150 KANATA AVENUE
CURRENT ZONING	MC-2 AND MC-5
SITE AREA	15720.00 m²
PROPOSED USE	MIXED USE RESIDENTIAL
BUILDING AREA	4716.00 m²

PROJECT INFORMATION

ZONING STANDARD	REQUIRED MC-2	REQUIRED MC-5	PROVIDED
LOT AREA	-	-	± 15720 m2
TOTAL ZONING GFA	-	-	29286.25 m2
FSI (MAX)	2	2	1.86
BUILDING HEIGHT	28 m	35 m	27.9 m & 33.7 m
Front Yard Setback (MIN. / MAX.)	0 m / 3.5 m	0 m / 3.5 m	3.5 m
Corner Side Yard Setback (MIN. / MAX.)	0 m / 3.5 m	-	3.5 m
Rear Yard Setback (MIN. / MAX.)	0 m / 3.5 m	6 m	3.5 m
Surface Parking Front & Corner Yard Setback	10 m	10 m	13.17 m
FSI Non-Residential (MIN. / MAX.)	-	0.75 (3 794 m2)	0
GFA Non-Residential (MIN. / MAX.)	1570.50 m2	-	1,389.40 m2
Amenity Space (min 6m2 per unit)	2316.00 m2		3696.05 m2
Communal amenity (min 50%)	1158.00 m2		1272.50 m2
LOT COVERAGE (MAX)	-	-	4716.00 m2
LANDSCAPED AREA	-	-	6678.0 m2 (42.5%)
Soft Landscaping	-	-	5357.00 m2
Hard Landscaping	-	-	1321.00 m2
ASPHALT AREA	-	-	3238.00 m2

BUILDING STATISTICS

	QTY.	SQ.M.
NON-RESIDENTIAL		**1,389.40**
Retail	-	1107.80
Cafe	-	281.60
RESIDENTIAL		
1 bedroom	204 (55%)	-
1 bedroom + den	52 (14%)	-
2 bedrooms	100 (27%)	-
3 bedrooms	15 (4%)	-
TOTAL	**371**	-
Barrier-free units (15% x 386 units = 58 units required)	56 (15%)	-
COMMUNAL AMENITY SPACE		**1272.50**
Outdoor amenity space at grade	-	615
Outdoor communal terrace	-	66
Gym	-	79.5
Pool	-	184
Relaxation / Luminotherapy	-	23
Lounge & bar	-	80
Billiard Room	-	60
Golf Simulator	-	30
Darts / Poker Room	-	20
Family Room w/ Kitchen	-	60
Entry Lounge	-	30
Library	-	25
PRIVATE AMENITY SPACE		**2,867**
Balconies / terraces	-	2,867

PARKING STATISTICS

DEDICATION (LOCATION)	RATE	REQUIRED	PROVIDED
APARTMENTS - RESIDENTS (U/G)	1.0	371	371
APARTMENTS - VISITORS (U/G & AT GRADE)	0.2	64	64
NON-RESIDENTIAL (AT GRADE)			
Cafe	5 / 100 m2	14	14
Retail	1.25 / 100 m2	14	14
TOTAL		473	473
BICYCLE SPACES	0.5 per unit + 1/250m² (retail)	186 + 6 = 192	192

DRIVE AISLE & BICYCLE REQUIREMENTS

TYPE	REQUIRED	COMPLIANCE
Drive Aisle - Two way at grade	6.7 m	YES
Drive Aisle - Two way at parking garage	6.0 m	YES
Bicycle Parking - Horizontal	0.6 x 1.8m & 1.5m aisle	YES
Bicycle Parking - Vertical	0.50 x 1.5m & 1.5m aisle	YES

WASTE MANAGEMENT CONTAINERS

TYPE	REQUIRED	PROVIDED
Garbage	10 x 4 yard bins	YES
Fiber	3 x 4 yard bins	YES
Glass metal plastic	2 x 3 yard bins	YES
Organics	7 x 240L carts	YES

ROSSMANN ARCHITECTURE

88 Saint-Joseph Boulevard, Gatineau QC J8Y 3W5
Tel : 819-600-1555

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PROJECT TEAM / ÉQUIPE DU PROJET :

KEY PLAN / PLAN CLÉ :

CLIENT :

emd batimo CONSTRUCTION

revision	description	date
1.1	SPC SUB #2	22-03-22
1.0	SPC SUB #1	21-09-22

PROJECT NAME / NOME DU PROJET :

EMD KANATA

DRAWING NAME / NOM DU DESSIN :

SITE PLAN

DRAWING INFORMATION / INFORMATION DU DESSIN :

PROJECT NO. / NO. DE PROJET :	**21019**
DATE :	**01/14/22**
DRAWN BY / DESSINÉ PAR :	**Author**
REVIEWED BY / VÉRIFIÉ PAR :	**Checker**
SCALE / ÉCHELLE :	**As indicated**
PROJECT PHASE / PHASE DU PROJET :	**1**

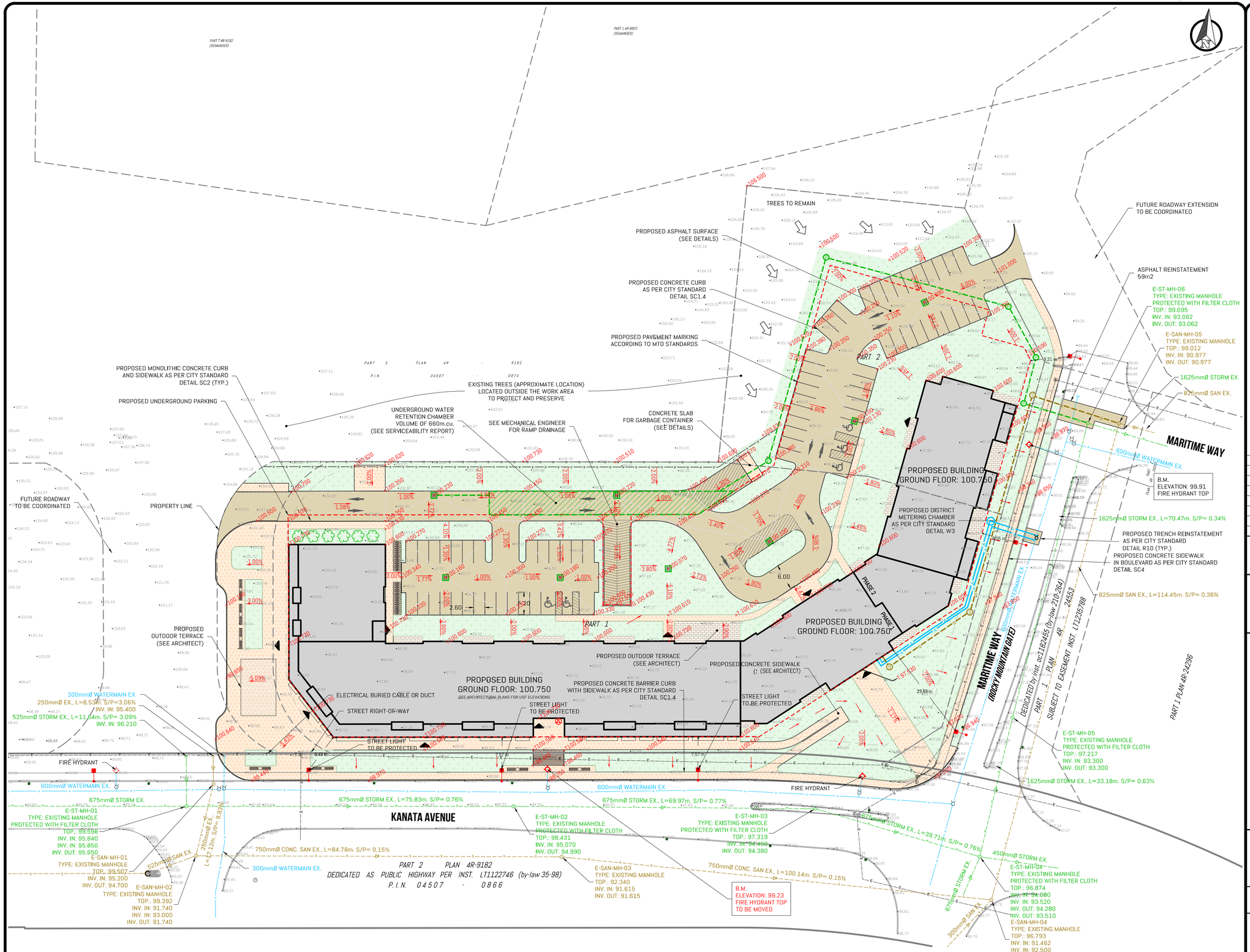
DWG NO. / NO. DESSIN :

A002

D07-12-21-0153

REVISION NO. / NO. DE RÉVISION : 1.1

#18063



NOTE:

THE EXISTING AND PROPOSED SUBDIVISION WILL HAVE TO BE VALIDATED BY THE SURVEYOR-GEOMETER ON FILE.

SURVEY AND LOTS INFORMATION PROVIDED BY
FARLEY, SMITH & DENIS SURVEYING LTD.
DATE: SEPTEMBER 13 2021
FILE NO.: 139-21
PLANIMETRIC REFERENCE SYSTEM: MTM NAD 83 ZONE 9
ALTIMETRIC REFERENCE SYSTEM: CGVD28 HT2.0

SITE PLAN PREPARED BY
ROSSMANN
ARCHITECTURE
DATE: MARCH 17 2022
PROJECT: 21019

EXISTING POWER DUCT BANK, WATERMAIN, STORM SEWER AND SANITARY SEWER FROM OTTAWA COORDINATING COMMITTEE CENTRAL REGISTRY AND CITY OF KANATA DEPARTMENT OF ENGINEERING

UNLESS OTHERWISE STATED, ALL PROPOSED ELEVATIONS SHOWN ON PLAN REPRESENT THE ELEVATION OF THE PAVEMENT SURFACE /PROJECTED TERRAIN.
ADD 0.15m TO SEE THE ELEVATION OF THE SIDEWALK OR ADJACENT

THE CONTRACTOR MUST NOTIFY ÉQUIPE LAURENCE, THE CONSULTANT, IF HE NOTICES ANY DISCREPANCIES BETWEEN THE INFORMATION PRESENTED ON THE PLANS AND THE MEASUREMENTS TAKEN ON SITE SO THAT ADJUSTMENTS CAN BE MADE.
WHEN APPLICABLE, HE MUST ALSO VERIFY THE ELEVATIONS OF EXISTING SEWERS BEFORE STARTING CONSTRUCTION AND MUST PROVIDE THE INFORMATION TO THE CONSULTANT.

REV	DESCRIPTION	BY	DATE
D	FOR SITE PLAN APPLICATION REVISION 3	A.L.	2022-03-23
C	FOR SITE PLAN APPLICATION REVISION 2	A.L.	2021-10-07
B	FOR SITE PLAN APPLICATION REVISION 1	A.L.	2021-09-24
A	FOR SITE PLAN APPLICATION	A.L.	2021-09-17

CLIENT:
emd batimo CONSTRUCTION PROMOTEUR ET GESTIONNAIRE IMMOBILIER

PROJECT:
LIB KANATA
KANATA AVENUE AND MARITIME WAY
CITY OF OTTAWA, ONTARIO

ÉQUIPE LAURENCE INGÉNIERIE CIVILE
733, chemin Jean-Adam, Piedmont (Québec) J0R 1R3
T 450 227 1857
info@equipelaurence.ca | equipelaurence.ca

PROFESSIONAL ENGINEER
A. LATOUR
100222299
PROVINCE OF ONTARIO
2022-03-23

TITLE:
SITE GRADING PLAN

SCALE: Horizontal 1:400 (0, 4, 8, 20 m)

B. BRAY, ing. / L.MENARD, CPI		C-203.dwg	
DESIGN		DRAWING	
F. LANDRY		2021-09-14	
DRAWN		DATE	
A. LATOUR, ing.	600401	C-203	
APPROVED	PROJECT NO	PLAN NO	

D07-12-21-0153

18603

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