Bowmanville Rail Service Extension, Farewell Street/Wilson Road/Green Road/500 Howard Street/Grandview Feedermain Area – Arborist Report

November 25, 2025

Prepared for:

Metrolinx
20 Bay Street, 6th Floor
Toronto ON M5J 2W3

Prepared by:

Rooted Tree Services

Project Number: 165011019

Limitations and Sign-off

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Prepared by _____
(signature)

Jack Legault, ISA Certified Arborist ON-2888A

Reviewed by _____
(signature)

Ted Heagle, ISA Certified Arborist ON-1740A

Approved by _____
(signature)

Landon Black, ISA Certified Arborist ON-1876A

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Abbreviations

BHA	Butternut Health Assessment
CAA	*Conservation Authority Act*
CLOCA	Central Lake Ontario Conservation Authority
CPKC Rail	Canadian Pacific Kansas City Rail
CUS1	Mineral Cultural Savanna
CUW1	Mineral Cultural Woodland
DBH	Diameter at Breast Height
DNA	Designated Natural Area
DVI	Detailed Vegetation Inventory
ELC	Ecological Land Classification
EPR	Environmental Project Report
ESA	Endangered Species Act
ha	hectare
GTHA	Greater Toronto and Hamilton Area
GVI	General Vegetation Inventory
HE1	Tree Deciduous Hedgerow
ISA	International Society of Arboriculture
MBCA	*Migratory Bird Conservation Act*
NETR	Natural Environment Technical Report
O. Reg.	Ontario Regulation
ROW	Right-of-way
SAR	species at risk
SARA	*Species at Risk Act*

TOC	Transit Oriented Community
TPAP	Transit Project Assessment Process
TPF	Tree Protection Fencing
TPZ	Tree Protection Zone

1.0 Introduction

1.1 Land Acknowledgement

Metrolinx acknowledges that we connect communities by building and operating transit within the traditional lands of the Anishinaabe, the Haudenosaunee and the Wendat peoples, for whom these lands continue to have great importance.

Treaties between First Nations and governments cover these lands, and the promises contained in these Treaties remain relevant to this day.

Metrolinx and its employees are committed to understanding the history of these lands and the continued impacts of colonization and take responsibility for actions to advance reconciliation.

Metrolinx will continue to seek the knowledge, expertise and experience of Indigenous partners and commits to doing business in a manner that is built on a foundation of trust, respect, and collaboration.

1.2 Project Description

1.2.1 Project Overview

Stantec Consulting Ltd. (Stantec) was retained by Metrolinx, an agency of the Province of Ontario, to complete an Arborist Report for the Bowmanville Rail Service Extension Project (the Project) formerly referred to as the Oshawa to Bowmanville Rail Service Expansion Project in the 2011 Environmental Project Report (EPR).

All-day rail service currently operates on the Lakeshore East Rail Corridor between Union Station in Downtown Toronto and the Durham College Oshawa GO (DC Oshawa GO) Station[1]. The Lakeshore East Rail Corridor extension from Oshawa to Bowmanville was originally identified as one of 52 rapid transit improvements and expansion projects in the *MoveOntario* 2020 plan, Ontario's multi-year $17.5 billion Rapid Transit Action Plan for the Greater Toronto and Hamilton Area (GTHA). More recently, the expansion initiative was supported through the Initial Business Case Update (Metrolinx 2020) and a preferred alignment option was selected.

[1] In October 2022, Metrolinx announced that the Oshawa GO Station has been renamed Durham College Oshawa GO. Therefore, throughout the EPR Addendum and this Project, the Oshawa GO Station is referred to as Durham College Oshawa GO, or DC Oshawa GO.

The Oshawa to Bowmanville Rail Service Expansion and Rail Maintenance Facility Environmental Project Report (EPR) was completed in 2011, in accordance with the Transit Project Assessment Process (TPAP) outlined in Ontario Regulation (O. Reg.) 231/08 – Transit Projects and Metrolinx Undertakings, to assess Metrolinx's plan to expand GO Transit rail services from Oshawa to Bowmanville utilizing the Canadian Pacific Kansas City (CPKC) Rail corridor.

The Oshawa to Bowmanville Rail Service Extension EPR Addendum was made available for a 30-day Public review on October 5, 2023, which was followed by a 35-day Minister's review period. The Minister issued the notice to allow a change to a transit project in accordance with an Addendum on December 11, 2023.

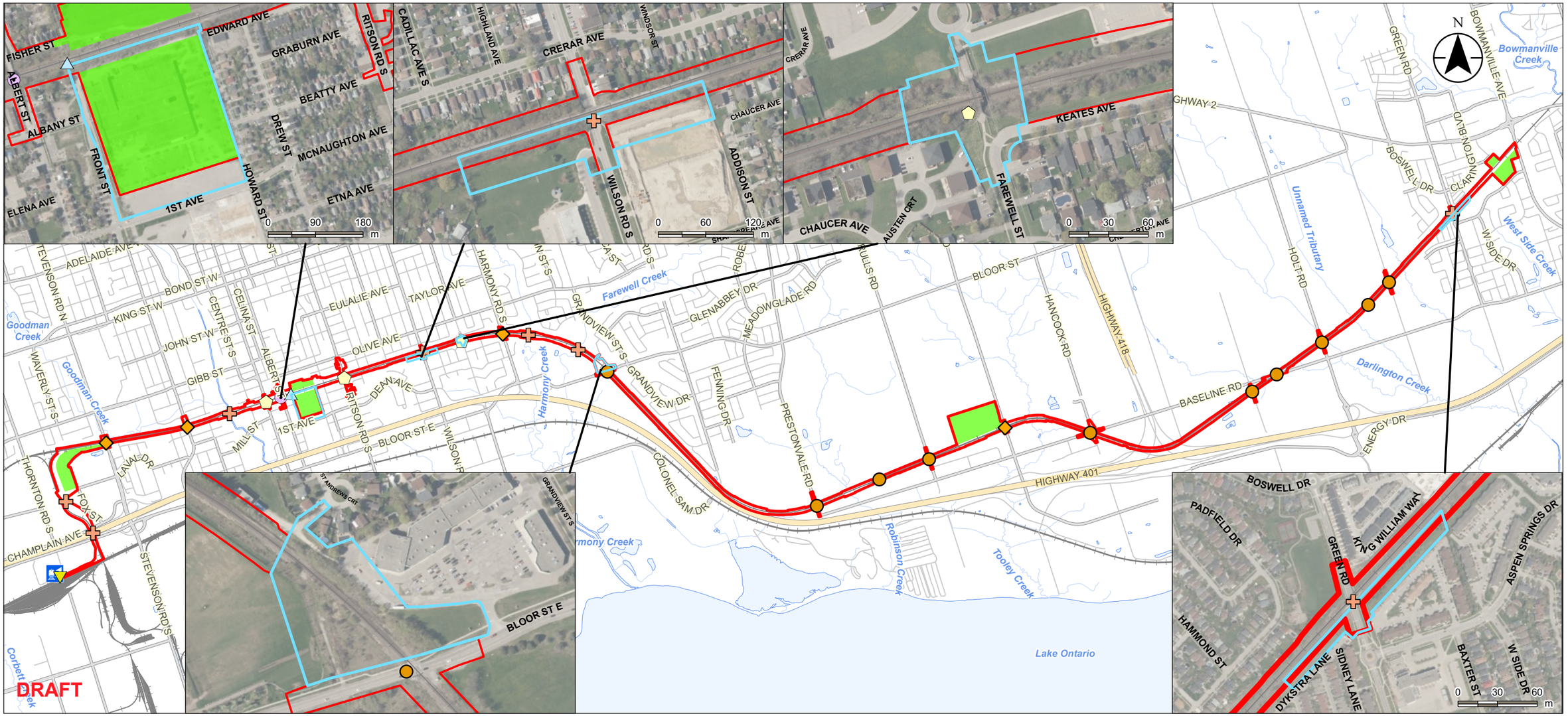
Construction of the Project is planned to be carried out under two phases - an initial phase referred to as Early Works and a second phase referred to as Main Civil Works where the remainder of the Project components are constructed. The focus of this Arborist Report is on specific work areas referred to as the 'Project Area' for this report (refer to Section 1.2.2 for a description). It should be noted that a separate Arborist Report was previously completed for the Simcoe Street/Albert Street Early Works Area, and additional Arborist Reports will be prepared at a future date to address the Target Price 1 areas within Section 10 and 11 of the alignment, the remaining Target Price 1 areas and all other remaining construction areas.

1.2.2 Project Site and Location

The Project Area represents the area required to carry out all physical works and activities either directly for infrastructure or for associated Project uses (e.g., construction laydown areas). The Project Area is located on or adjacent to the rail corridor between approximately 500 Howard Street in the City of Oshawa and Green Road in the Municipality of Clarington.

This portion of the Project Area is located within the City of Oshawa and Municipality of Clarington, within the Regional Municipality of Durham, Ontario. Figure 1.1 provides an overview of the Project Area and Figures 1.2 to Figure 1.6 highlight the inventory areas.

A review of sensitive areas (i.e., Areas of Natural and Scientific Interest, wetlands, waterbodies, wooded areas, the Greenbelt Natural Heritage System, Central Lake Ontario Conservation Authority (CLOCA) regulated areas and natural heritage system, etc.) was conducted and mapped (please refer to Figure 1.2 to Figure 1.6) according to Metrolinx's Vegetation Guidelines (2023).



Legend

- Project Footprint
- Early Works Area
- Existing Durham College Oshawa GO Station
- Proposed Pedestrian Bridge Extension
- Proposed New Bridge
- Proposed Bridge Replacement
- Proposed Bridge Removal
- Proposed New Multi-Use Grade-Separated Crossing
- Proposed Upgrades to At-Grade Crossing
- Proposed Bridge Expansion
- Proposed GO Station Location
- Existing Railway
- Highway
- Major Road
- Minor Road
- Watercourse
- Waterbody

Notes

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Project Location: 165011019_EW_Fig1-1_Project_Overview_REVA
Prepared by ABC on 2025-07-17 Technical Review by JR on 2025-07-16
Region of Durham

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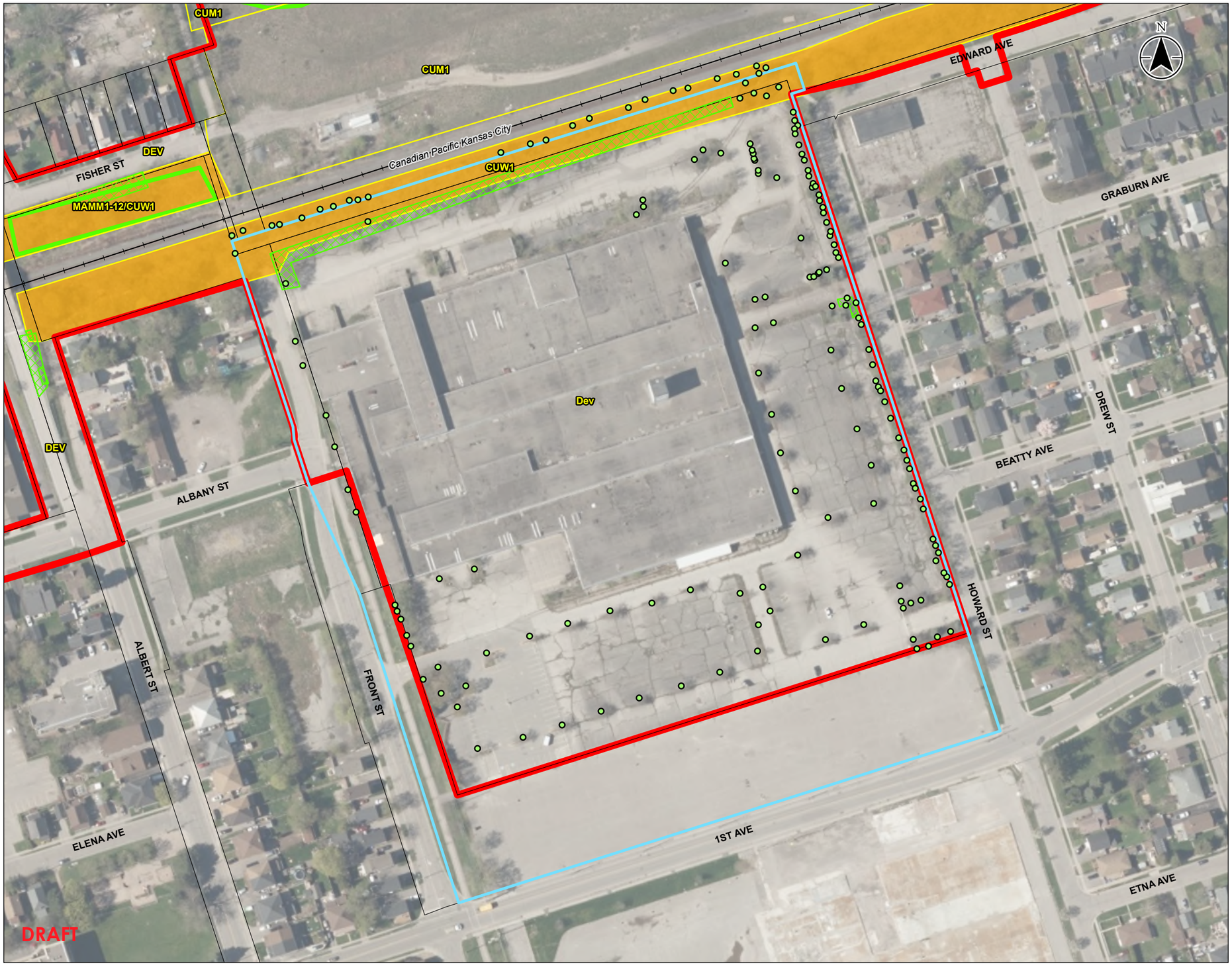
BOWMANVILLE RAIL SERVICE EXTENSION
EARLY WORKS ARBORIST REPORT

Figure No.
1.1

DRAFT

Title
Project Overview



Stantec

Legend

- Project Footprint
- Tree Inventory Area
- Tree Location
- Vegetation Unit
- Railway
- Wooded Area
- Potential SAR Bat Habitat / Identified Designated Natural Area
- Designated Natural Area
- ELC

ELC Description

CUM1 - Mineral Cultural Meadow

CUW1 - Mineral Cultural Woodland

MAMM1-12/CUW1,Common Reed Graminoid Mineral Meadow Marsh Type/Mineral Cultural Woodland

DEV - Developed Area

0 40 80 Metres

1:1,750 (At original document size of 11x17)

Notes

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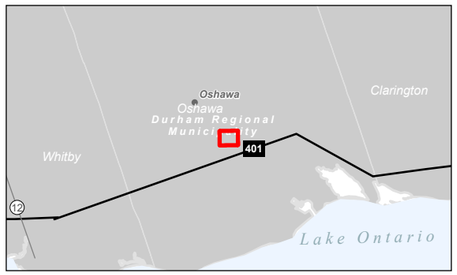

Project Location
Regional Municipality of Durham

165011019 REV4
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Figure No.
1.2

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Title
Sensitive Areas in the Project Area - 500 Howard Street

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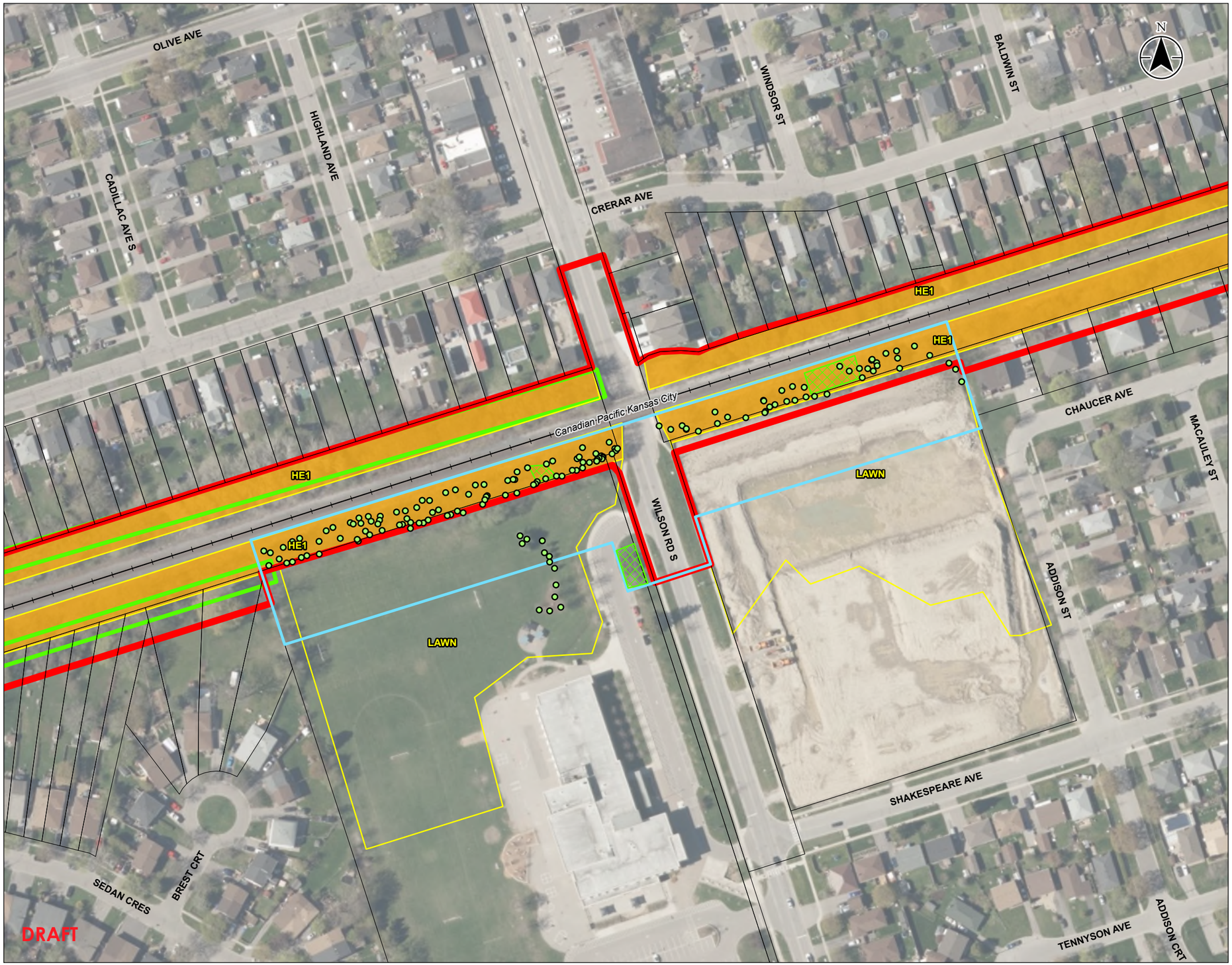

Stantec

Legend

- Project Footprint
- Tree Inventory Area
- Tree Location
- Vegetation Unit
- Railway
- Wooded Area
- Potential SAR Bat Habitat / Identified Designated Natural Area
- Designated Natural Area
- ELC

ELC Description

HE1 - Treed Deciduous Hedgerow
LAWN
DEV - Developed Area

0 40 80 Metres

1:1,750 (At original document size of 11x17)

Notes

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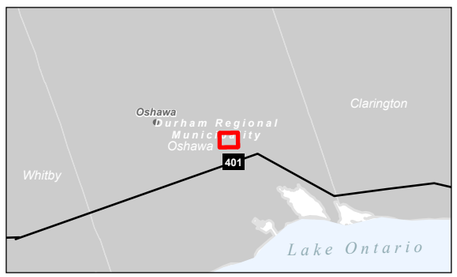

Project Location
Regional Municipality of Durham

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Title
Sensitive Areas in the Project Area - Wilson Rd

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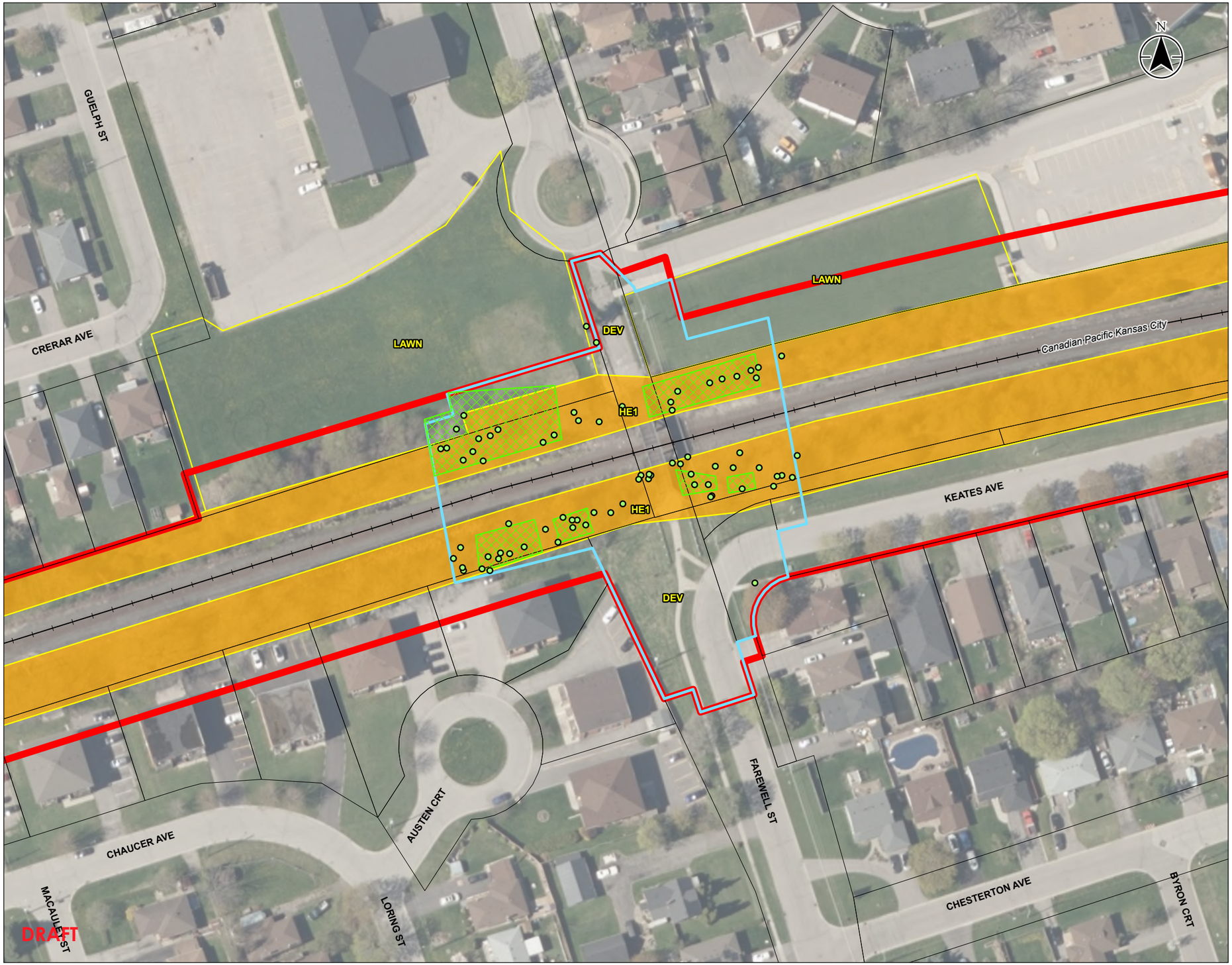

Stantec

Legend

- Project Footprint
- Tree Inventory Area
- Tree Location
- Vegetation Unit
- Railway
- Potential SAR Bat Habitat / Identified Designated Natural Area
- Designated Natural Area
- ELC

ELC Description

HE1 - Treed Deciduous Hedgerow
LAWN
DEV - Developed Area

0 20 40 Metres

1:1,000 (At original document size of 11x17)

Notes

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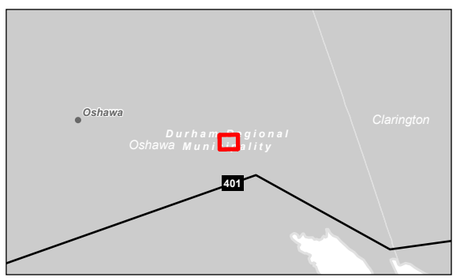

Project Location
Regional Municipality of Durham

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Sensitive Areas in the Project Area - Farewell St

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Stantec

Legend

- Project Footprint
- Tree Inventory Area
- Tree Location
- Vegetation Unit
- Railway
- Regulated Area (CLOCA)
- Potential SAR Bat Habitat / Identified Designated Natural Area
- Designated Natural Area
- ELC

ELC Description

AG - Hay,Agriculture - Hay
CUM1 - Mineral Cultural Meadow
CUM1-a - Dry - Fresh Graminoid Meadow Ecosite
CUT1-a,Dry - Fresh Deciduous Shrub Thicket Ecosite
HE1 - Treed Deciduous Hedgerow
HE2,Treed Coniferous Hedgerow
LAWN
DEV - Developed Area

0 30 60 Metres

1:1,250 (At original document size of 11x17)

Notes

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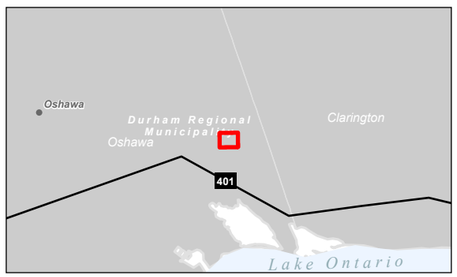

Project Location
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Sensitive Areas in the Project Area - Bloor St Intersection

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Stantec

Legend

- Project Footprint
- Tree Inventory Area
- Tree Location
- Vegetation Unit
- Railway
- Potential SAR Bat Habitat / Identified Designated Natural Area
- Designated Natural Area
- ELC

ELC Description

CUM1 - Mineral Cultural Meadow
LAWN
DEV - Developed Area

0 40 80 Metres

1:1,750 (At original document size of 11x17)

Notes

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Project Location
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Figure No.
1.6

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Title
Sensitive Areas in the Project Area - Green Rd

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Portions of the Project Area were identified as CLOCA regulated areas (see Appendix A), and some of the proposed works will occur within the CLOCA regulated areas.

Ecological Land Classification (ELC) vegetation communities identified as part of the EPR were also reviewed and are shown within Figure 1.2 through Figure 1.6. The ELC vegetation communities in the Project Area include:

- Treed Deciduous Hedgerow (HE1) - These communities are comprised mainly of naturalized treed areas that are too narrow to qualify as a forest or woodland ELC community. Naturalized HE1 communities are comprised of native and/or non-native tree species, including Manitoba Maple, Trembling Aspen, and Black Walnut.
- Treed Coniferous Hedgerow – HE2 - The HE2 community code is assigned coniferous treed hedgerows. Unlike the HE1 communities, the coniferous hedgerows in the Study Area are planted. Species in these hedgerows are comprised of Norway Spruce and Austrian Pine.
- Mineral Cultural Meadow (CUM1) - An open, disturbed vegetation community dominated by non-woody herbaceous plants growing on mineral soil, resulting from past human activity such as agriculture or clearing.
- Mineral Cultural Thicket (CUT1-a) - A mineral cultural thicket community where hawthorn species (Crataegus spp.) are the dominant shrubs. These areas have formed typically on abandoned agricultural lands or disturbed sites and are in early stages of natural succession.
- Mineral Cultural Woodland (CUW1) - The CUW1 woodland communities are comprised of a canopy of tree cover of 35% to ≤60%. The CUW1 ELC code is a high-level classification that was used to assign a generic vegetation community description for woodland communities where a definitive species composition was not determined. Common tree species in the woodland communities include Black Walnut, Black Locust, Sugar Maple, Black Cherry, White Ash, White Spruce, Manitoba Maple, While Elm, and Siberian Elm.
- Lawn (LAWN) – The LAWN community code is assigned to manicured lawn with planted trees associated with developed lands.
- Agriculture – Hay – The AG-Hay community code describes agricultural fields comprised of hay.
- Development – DEV – The DEV Community Code includes development lands (e.g. residential, commercial and industrial land uses).

1.2.3 Project Implementation

The key activities to be undertaken during this phase includes:

- Farewell Street pedestrian bridge replacement.
- Bloor St. E at-grade crossing for the Grandview Feedermain relocation.
- Laydown area at 500 Howard Street, including the removal of existing infrastructure and grading.
- Construction of new rail bridges next to the existing bridges at Wilson Road and Green Road.

Areas of impact associated with the construction footprint include bridge work, roadway construction, retaining wall construction, watermain construction, feedermain relocation, and grading associated with the construction of these elements. Access and laydown areas were also considered, and these impacts have resulted in recommended tree removals beyond Zone 2 (refer to Section 3.2 for a discussion on zones).

The following equipment is anticipated to be used for tree removal:

- Excavator (1)
- Mini Excavator (1)
- Skid Steer (1)
- Stump Grinder (1)
- Dump Truck (1)
- Chainsaw (4)
- Grinder and Chipper (1)

Tree removal will be limited to the areas required for construction, access, and laydown. Impacts on adjacent trees and vegetation will be limited to the extent feasible.

A Tree Preservation and Removal Plan (Appendix A), which builds upon the considerations and elements set out in Metrolinx's Vegetation Guideline (2023), has been developed to document tree protection and mitigation measures that follow Municipal By-laws and will be implemented in adherence with Best Practices, Standards and Regulations on safety, environmental and wildlife protections.

The mitigation hierarchy has been and will continue to be considered throughout design development, whereby environmental impacts will be avoided whenever possible, then minimized, mitigated and as a last resort only, compensated. In recognition of the mitigation hierarchy, there will be an ongoing effort to avoid and minimize environmental impacts throughout Project and design development. As it applies to vegetation impacts and removals, the implementation of the mitigation hierarchy has been and will be documented as applicable in Arborist Report updates or future reports.

1.3 Regulatory Framework and Guidelines

Metrolinx, as a Provincial Agency, is not subject to Municipal Permits and Approvals for tree removals within Metrolinx Owned Lands and the rail corridor; however, Metrolinx's approach to vegetation management is not intended to replace existing tree By-law but rather complement existing By-law and ensure a consistent approach in municipalities where Tree By-laws do not exist. Metrolinx will adhere to all applicable municipal tree By-law requirements including applicable Permits for trees outside of Metrolinx Owned Lands and rail corridor. For trees within public or private lands, including those on the boundary between the Metrolinx Owned Lands or rail corridor and public or private lands will comply with Applicable By-laws/Regulations including compensation requirements, in which case, a combined approach will be taken.

Following are the By-laws, Regulations and Policies that must be adhered to through the Project.

1.3.1 Migratory Birds Convention Act

The *Migratory Birds Convention Act*, 1994 (MBCA) is a federal law in Canada that protects migratory birds and their habitats. The MBCA makes it illegal to harm, take, or possess migratory birds, their nests, or eggs without a Permit. This includes activities such as cutting down trees with active bird nests. In relation to tree removal, the MBCA requires individuals and organizations to consider the potential impact on migratory birds before cutting down trees. It is important for property owners and Contractors to consider the MBCA when planning tree removal activities, and to obtain the necessary Permits and take the appropriate measures to minimize harm to migratory birds and their habitats. It is recommended that tree removal is completed outside of the migratory breeding bird window (March 1 – September 30). Trees may be permitted to be removed within simple habitats during the migratory breeding bird window if a pre-clearing nest search is completed by a Qualified Biologist or Ornithologist, and bird nests are confirmed as absent from the tree removal area. Refer to Section 3.5 for the results of the Migratory Bird Risk Assessment for ELC communities in the Project Areas that have been identified as simple habitats. Nest searches are **not** effective during the leaf-on period for **complex habitats**.

1.3.1.1 Migratory Birds Regulations (MBR)

The *Migratory Birds Regulations (MBR)*, established under the federal *Migratory Birds Convention Act*, protect migratory birds, their nests, and eggs from harm or disturbance in Canada. The regulations prohibit activities such as destroying active nests or conducting disruptive land clearing during the nesting season without appropriate authorization. The MBR applies to a wide range of bird species that depend on Canadian forests, wetlands, and other ecosystems. Compliance with the MBR is critical for forestry and land development projects, which must schedule vegetation removal outside the nesting window or undertake nest surveys to mitigate impacts on migratory bird populations.

1.3.2 Species at Risk Act

The *Species at Risk Act* (SARA) is a Canadian law enacted in 2002 with the objective of preventing the extinction and promoting the recovery of Species at Risk (SAR) in Canada. SARA provides a legal framework for the identification, protection, and recovery of endangered or threatened species and their habitats. The Law stabilizes a list of SAR, which includes both flora and fauna. SARA mandates the creation of recovery strategies and action plans for listed species, as well as the development of critical habitat protection measures. SARA plays a crucial role in safeguarding Canada's biodiversity and addressing the conservation needs of vulnerable species, including those that rely on trees and forests as their habitats.

1.3.3 Endangered Species Act

The *Endangered Species Act, 2007* (ESA) and its associated regulations list SAR, as classified by the Committee on the Status of Species at Risk in Ontario and afford protection for species listed as threatened or endangered, as well as their habitat. The ESA makes it illegal to harm, take, or disturb at-risk or threatened species without a permit. This includes activities such as cutting down trees, vegetation removal and significant wildlife habitat destruction. The ESA requires individuals and organizations to consider the potential impacts of habitat loss on the species. It is important for property owners and Contractors to consider the ESA when planning tree removal activities, and to obtain the necessary permits and take the appropriate measures to limit harm to SAR and their habitats.

There are seven (7) bat Species at Risk (SAR) in Ontario that may use features such as woody vegetation (i.e. trees/shrubs), or buildings and structures as maternity roosts for raising young. The following bat SAR are protected under the ESA:

- Little Brown Myotis (*Myotis lucifugus*)
- Northern Myotis (*Myotis septentrionalis)*

- Tri-coloured Bat (*Perimyotis subflavus*)
- Eastern Small Footed Myotis (*Myotis leibii*)
- Eastern Red Bat (*Lasiurus borealis*)
- Hoary Bat (*Lasiurus cinereus*)
- Silver-haired Bat (*Lasionycteris noctivagans*)

1.3.4 Ontario Forestry Act

The Ontario *Forestry Act, 1990* is Provincial Legislation that governs the management and transfer of forests between the Crown and municipalities or conservation authorities within the province of Ontario. The act establishes the definition for tree ownership including boundary trees and trees as common property.

1.3.5 Canada Food Inspection Agency (CFIA) Regulations

The *Canada Food Inspection Agency (CFIA)* is a federal agency responsible for safeguarding Canada's food supply, plant and animal resources, and the environment. CFIA regulations play a critical role in controlling the import, export, and transport of forest products and biological materials that may carry pests or diseases. The CFIA enforces policies related to invasive species management, phytosanitary certification, and quarantine measures. In forestry and natural resource projects, CFIA regulations help prevent the introduction and spread of invasive species such as the Emerald Ash Borer and Asian Longhorned Beetle, protecting both ecological integrity and economic interests in the sector.

1.3.6 Conservation Authorities Act

The *Conservation Authorities Act* is Ontario legislation that provides the legal framework for the establishment and operation of Conservation Authorities across the province. These Authorities are responsible for managing watershed-based programs that focus on natural hazard protection, water resource management, and conservation of natural environments. Under the Act, Conservation Authorities regulate activities in and around rivers, streams, wetlands, and other natural features to prevent flooding, erosion, and habitat degradation. The Act supports sustainable development and ensures that environmental impacts—particularly those affecting forests, wildlife, and water systems—are carefully managed through permitting processes and local conservation initiatives.

1.3.7 Fish and Wildlife Conservation Act (FWCA)

The Fish and Wildlife Conservation Act (FWCA) is Ontario legislation that governs the protection and management of fish and wildlife species and their habitats. The Act

regulates activities such as hunting, trapping, and the disturbance of wildlife, while also setting out rules for the protection of nests and dens of certain species. The FWCA supports sustainable biodiversity by promoting responsible wildlife stewardship and conservation practices. Projects involving vegetation clearing, watercourse alterations, or habitat modification must consider FWCA provisions to ensure compliance and minimize impacts on native species and ecosystems.

1.3.8 Metrolinx Vegetation Guideline

The Metrolinx Vegetation Guideline (2023) describes Metrolinx's approach to managing vegetation during the lifecycle of Metrolinx Projects. The Vegetation Guideline provides the frameworks for: (1) evaluation of removals; (2) vegetation compensation; (3) tree end use; and (4) integrated vegetation management. All four components outlined in the guideline have been developed to satisfy regulatory requirements, environmental assessment commitments, as well as Metrolinx Sustainability Goals and Corporate Policy priorities.

The 2023 Metrolinx Vegetation Guideline provides criteria for identifying Designated Natural Areas (DNAs) to assist with determining protection, restoration, and compensation requirements. According to the Guideline, "DNA refers to Natural Heritage Systems made up of natural heritage features, linkages, and areas intended to provide connectivity (at the regional or site level) and support natural processes which are necessary to maintain biological and geological diversity, natural functions, viable populations of native species and ecosystems. These areas may be identified by resource agencies, municipalities, and the government through legislation, policies or approved management plans. Furthermore, Indigenous communities, Nations and Knowledge Keepers can identify areas of natural significance that should be included within the DNA. Site- specific natural heritage studies are also critical to identify wildlife".

As per the 2023 Metrolinx Vegetation Guideline, if identified, compensation for the removal of DNAs is to follow the Toronto Region Conservation Authority (TRCA) Guideline for Determining Ecosystem Compensation (TRCA 2023).

Methods for identification of DNAs are detailed in Section 2.3.2 of this report.

The analysis of tree recommendations presented in this report was conducted based on the Metrolinx Vegetation Guideline (2023) for non-electrified corridors. The guideline classifies zones based on offsets from the proposed track centreline and recommends vegetation density and height requirements in these zones. Zone classification and recommendations are detailed in Section 3.2 of this report.

1.4 Communication and Engagement

1.4.1 Notification of Tree Removal

1.4.1.1 City of Oshawa

City of Oshawa has agreed to follow the Metrolinx Vegetation Guideline (2023) for tree removal and compensation, and permits will not be required for trees removed under Road Occupancy Permit or on any temporary or permanent property acquisitions on City of Oshawa owned lands.

Metrolinx will consult the City of Oshawa regarding tree removal, compensation and restoration within City of Oshawa owned lands during detailed design review, as well as notifying when tree removal works will be commencing.

1.4.1.2 Municipality of Clarington

The Municipality of Clarington has by-laws related to woodlots (97-35) which are not applicable to the Project based on the criteria used to define a woodlot in the by-laws and the amount of area proposed for removal for the Project. However, the Municipality of Clarington will be notified of tree removal works within its municipal boundaries Regional Municipality of Durham

Removal of trees from woodlands within the Regional Municipality of Durham is governed by By-law Number 30-2020. Woodlands are defined as having an area greater than 1 hectare (ha) and meeting several other characteristics as specified in By-law Number 30-2020. Metrolinx consulted with the Regional Municipality regarding tree removal, compensation, and restoration during detailed design review. The Regional Municipality of Durham confirmed Metrolinx is exempt from the Region By-law Number 30-2020, mentioned above.

1.4.1.3 Central Lake Ontario Conservation Authority

Metrolinx as a Crown Agency of the Province of Ontario is not subject to the Conservation Authorities Act (CAA); however, Metrolinx will engage with the Central Lake Ontario Conservation Authority (CLOCA) through voluntary approval to incorporate their requirements as a best practice, where practical, and may obtain associated permits and approvals if agreement is reached with CLOCA to facilitate their review.

Communication and engagement with the CLOCA will continue as design and construction planning progress to address matters related to their mandate. Although no permits from CLOCA are required, Metrolinx will consult with CLOCA regarding tree

removal, restoration, and compensation, including permissible seed type and mixes for areas outside of CPKC ROW, during detailed design review.

1.4.2 Indigenous Communities

As part of the Project's ongoing Indigenous community engagement, a draft of the Arborist Report will be shared with the following Indigenous communities:

- Williams Treaties First Nations:
  - Alderville First Nation
  - Beausoleil First Nation
  - Chippewas of Georgina Island
  - Chippewas of Rama First Nation
  - Curve Lake First Nation
  - Hiawatha First Nation
  - Mississaugas of Scugog Island First Nation

[NTD: The list of Indigenous communities may be updated prior to finalization of the report.]

Table 1-1 summarizes the feedback received from Indigenous communities on this Arborist Report.

Table 1-1: Summary of Engagement with Indigenous Communities

Indigenous Community	Summary of Engagement
TBD	TBD

1.4.2.1 Bio-cultural Species

On February 3, 2022, Curve Lake First Nation submitted comments on the NETR (Stantec 2023), which was prepared in support of the EPR Addendum. Curve Lake First Nation recommended black ash protection and restoration if impacted.

Black ash (*Fraxinus nigra*) was added to the Species at Risk in Ontario list on January 26, 2022. Although it is listed as Endangered, the Ministry of the Environment,

Conservation and Parks has suspended protections for the species for two years from the date it was added to the list. Black ash was not found in the Project Area during field surveys. Nevertheless, if it is identified that any phase of the Project works may negatively impact this species, compensation planting and mitigation plans will be developed, which will include protection of trees to the extent possible. Compensation and mitigation plans will be developed in consultation with Indigenous communities.

Several species documented, including, but not limited to Apple sp., Basswood, Black Cherry, Black Walnut, Choke Cherry, Eastern White Cedar, Freeman's Maple, Green Ash, Red Maple, Silver Maple, Staghorn Sumac, Sugar Maple, Trembling Aspen and White Ash, were identified to be bio-culturally significant to Indigenous communities through previous Metrolinx consultation. While these trees may not have provincially or federally recognizes significant status, they are still used by Indigenous peoples today and, as such, are deemed significant outside of Western science and worldviews.

Impacts to bio-culturally significant trees has been avoided to the extent possible, but could not be avoided entirely. As such, bio-culturally significant species should be considered in future restoration plantings.

2.0 Tree Inventory Methodology and Criteria

2.1 Tree Assessment Methodology

2.1.1 Tree Inventory Area

The assessment included a review of trees located within the Project Area plus any tree dripline that intersects the plane of the area impacted. The Project Area is shown on Appendix A and includes the anticipated Project Footprint (including laydown areas, access points, grading limits etc.) plus a 6 m buffer area (i.e., the standard arboriculture buffer for non-regulated areas) and a 12 m buffer in designated natural areas.

2.1.2 Data Collection

Gary Grewal, International Society of Arboriculture (ISA) Certified Arborist completed the inventory and assessment of the Project Footprint, between June 5 and 12, 2024, and later on between January 30 and April 30 - May 12, 2025, to complete and update the inventory and assessment for Project Area.

The Project Area was reviewed for the presence of any rare or endangered tree species that may require additional protection and warrant further review. A detailed inventory was conducted according to the Metrolinx Vegetation Guideline (2023) data collection procedures and is clearly represented on tree inventory plans provided within Appendix A.

Please note that a bat and bird SAR memo was finalized on August 20, 2025, which included documentation of bat maternity roost assessment surveys within the Simcoe Street/Albert Street Area. Based on the findings of the surveys, it was recommended that that a conservative approach be undertaken to assume there is potential for bat SAR habitat within ELC communities: FOD, FOM, FOC, SWD, SWC, SWM, CUP, CUW, CUS and HE. As this memo was finalized following the completion of the tree inventory for this report, the above listed ELC communities were not inventoried as DNAs within the project limits of this report, to capture all trees between 1cm DBH and 10 cm DBH. Instead, they were inventoried according to the Metrolinx Vegetation Guideline (2023) for areas outside of DNAs to capture trees greater than 10 cm DBH. To account for this within the limits of this report, all potential bat SAR habitat has been mapped within the Figures 1.1 through 1.6 and Appendix A of this report as ‘Potential Bat SAR Habitat / Identified Designated Natural Areas’ and have been considered as DNAs through the compensation calculations of this report, as discussed within Section 4.1.

For areas outside of DNAs, and trees within the later Identified DNAs, trees greater than 10 cm DBH were inventoried individually. For areas within DNAs known at the time of

tree inventory, all trees greater than 1 cm DBH were inventoried individually, including shrub thickets which were documented as polygon figures. Please see Section 3.1 for further discussion regarding areas mapped as DNA versus Identified DNA.

The tree inventory was carried out in accordance with the Metrolinx Vegetation Guideline (2023) to provide a comprehensive understanding of existing vegetation within the Project area. For each tree, data were collected on species (identified by common and scientific names where possible), diameter at breast height (DBH) measured in centimetres, health condition, and other parameters outlined within the guideline, such as crown spread, growth form, maintenance concerns, and proximity to infrastructure. Both live and dead trees were recorded to ensure the inventory captured the full range of ecological and management considerations, recognizing the value of standing deadwood for habitat as well as potential safety risks. All information was compiled into a Vegetation Inventory, which provides a complete record of individual trees within the Project limits. The Detailed Vegetation Inventory (DVI), included in Appendix B, Table A, documents each tree's attributes and field observations to support informed decision-making regarding vegetation preservation, mitigation, or removal during Project planning and implementation.

A Woodland Inventory is included in Appendix B, Table B, this inventory includes all trees from the DVI (Table A) that are part of a significant woodland, including dead trees. Data for sub-canopy (i.e., trees below 5 cm DBH) and ground cover within DNA woodlands is included in Appendix B, Table B. Sub-canopy and ground cover data was not delineated. The individual trees from Appendix B, Table B are included within Appendix B, Table A, along with any associated compensation and permits. Trees included in the detailed tree inventory were tagged with a numbered metal tree tag; however, vegetation below 10 cm DBH could not be physically tagged. All trees regardless of DBH were inventoried and located with a handheld GPS unit, with an accuracy of 30 cm, including dead trees.

A General Vegetation Inventory (GVI) was conducted where it was necessary to apply the data collection procedures to multiple stems, such as within dense colonies, for classification of large shrub species, or for areas deemed unsafe to traverse. Homogeneous clumps of trees with similar size and species were inventoried as vegetation units, with each tree in the vegetation unit identified as a stem. Information for vegetation units include tree species, DBH range, and health condition. This data is included in Appendix B, Table C.

Photos were taken of individual trees throughout the Project Area, where possible, and are presented in Appendix C. Exceptions exist where no clear line of sight for a tree was available, or where it was unsafe to take a photograph.

2.1.3 Access Limitations

Due to the presence of sharps at the Farewell Street location, the DBH for approximately 2 trees were estimated (Trees 1555 and 328). There were no other access limitations for the Project Area.

2.2 Tree Assessment Criteria

Tree assessment includes specific measurements as part of the field review. Outlined below are measurements taken as part of the tree review:

- **DBH:** Measurement of the trunk at 1.4 m above grade. Expressed as diameter in centimetres.
- **Dripline:** Measurement of the approximate extents of the branches, or the area beneath the outermost branch tips, as measured from the trunk of the tree. This also represents the general root zone of the tree. Expressed as a radius in metres.
- **Height:** An estimate of the total height of the tree.

2.2.1 Tree Condition Assessment

The condition of inventoried trees was assessed using the following three categories:

- **Trunk Integrity:** Assessment of the trunk for any defects.
- **Canopy Structure:** Assessment of the scaffold branches and canopy of the tree.
- **Canopy Vigour:** Assessment of the amount of deadwood versus live growth in the tree crown, also considers size, colour, and amount of foliage.

Outlined below are the detailed guidelines utilized for the condition classification:

- **Good:** Defects if present are minor (e.g., twig dieback, small wounds), defective tree part is small (e.g., 5-8 cm diameter limb) providing little if any risk.
- **Fair:** Defects are numerous or significant (e.g., dead scaffold limbs), defective parts are moderate in size (e.g., limb greater than 5-8 cm in diameter).
- **Poor:** Defects are severe (trunk cavity in excess of 50%), defective parts are large (e.g., majority of crown).
- **Dead:** Tree exhibits no signs of life.

2.3 Additional Tree Criteria

The following additional tree criteria were applied during the inventory.

- **Complex Habitat:** Habitat that is large and/or complex with many potential nesting areas, such as woodland and scrubland and not captured in the simple habitat definition.
- **Boundary Tree:** A tree situated with any portion of the trunk growing across both Metrolinx-owned-lands and an existing private or public property.
- **Hazard Tree:** a destabilized or structurally compromised tree in imminent danger of causing damage or injury to life or property.
- **Heritage Tree:** A tree containing sensitive and/or significant natural features and functions typically designated by a municipality and identified by western values.
- **Memorial Tree:** A memorial tree is a living tree planted as living tribute to honor the memory of the deceased.
- **SAR:** a species included on the Species at Risk in Ontario List.
- **Simple Habitat:** Habitat that includes anthropogenic structures, urban areas and manicured lawns with few and isolated trees.
- **Significant Tree:** Significant trees identified by western values that include those species identified by the TRCA as regionally rare (rank L1, L2, or L3, with L1 being the rarest). These trees include those identified as rare by the Credit Valley Conservation Authority.
- **Bio-culturally Significant Tree:** species of exceptional significance to a culture or a people, often identified by their prevalence in language, cultural practices, spiritual practices, traditions, diet, medicines, material items, histories of a community, and resource acquisition. Such species have intrinsic value, symbolic value, high-use value and fulfil psycho-socio-cultural functions within a given culture. Bio-culturally significant species, or cultural keystone species, are often embedded within social and ecological systems where they are thought to play critical roles in maintaining cultural or ecological stability at a local level, to be irreplaceable and, therefore, the loss of these species is predicted to have a significant effect on cultural integrity and ecological equilibrium.

2.3.1 Butternut Health Assessment Methodology

No butternuts were observed in the Project Area.

2.3.2 Designated Natural Areas

DNAs have been mapped by the Project's Biologist through a desktop exercise. As per Appendix A of the 2023 Metrolinx Vegetation Guideline, the mapped DNAs encapsule and build upon the following features that are already identified by resource agencies, municipalities, and government:

- Provincially mapped natural heritage features (Provincially Significant Wetlands (PSWs), Areas of Natural and Scientific Interest (ANSIs), Natural Heritage System (NHS), Deer Wintering Yards, etc.).
- Conservation authority NHS Mapping (including consideration of the conservation authority's Targeted NHS).
- Natural Areas, NHS and Linkages identified in Municipal Official Plans.
- Regulated and/or Significant Wetlands.
- Regulated and/or Significant Woodlands.
- Environmentally Significant Areas.
- Species at Risk (SAR) Habitat.
- Confirmed Significant Wildlife Habitat (SWH).
- Other mapped natural resources as identified by the Biologist's desktop review.

The following areas have been mapped for inclusion as a DNA based on the desktop assessment completed by the Biologist and/or identified in the EPR (Stantec 2023):

- SAR Habitat (potential and confirmed) in naturalized areas, including the following ELC Codes found in this report:
    - CUW
    - HE
    - MAMM
- Potential and Confirmed SWH in naturalized areas identified by the Biologist in the study area such as:
    - Seasonal Concentration Areas of Animals
    - Rare Vegetation Communities

  - Specialized Habitat for Wildlife
  - Habitat for Species of Conservation Concern
  - Animal Movement Corridors
- Sensitive features (e.g. woodlands/ woodlots) and hydrological features (e.g., wetlands) that were not already identified by other resource agencies, municipalities, and government.
- Lands, structures and species with significant to Indigenous communities.
- Potential linkages between natural heritage features (detailed linkages criteria provided in Appendix A of the 2023 Metrolinx Vegetation Guideline).

2.3.3 Migratory Bird Risk Assessment

Tree removal should occur outside of the migratory breeding bird window (March 1 – September 30) to avoid harm to birds or their nests in accordance with the MBCA. If tree removal must occur within the migratory breeding bird window, a nest search may be completed prior to tree removal if there is a low risk to disturbing or destroying migratory birds or their nests.

In accordance with the 2023 Metrolinx Vegetation Guideline, *Environment and Climate Change Canada (ECCC) Guidelines to Avoid Harm to Migratory Birds* (ECCC 2023) were used to assess potential risks to migratory bird nests in the Project Areas, including the identification of Simple and Complex Habitats. ECCC's risk level examples (including the Habitat Factor Associated with Protection of Nests) that have been considered in this migratory bird risk assessment are provided in Table 2-1.

Table 2-1 Risk Examples Associated with Protection of Bird Nests

Factor Associated with Protection of Nests	Example of Lower Risk Level	Example of Higher Risk Level
Likelihood of the presence of occupied nests (live bird or viable egg) or nest of species in Schedule 1	When planning your project, you have identified: • available bird habitats • migratory bird species likely to be found in these habitats. • time periods when migratory bird species are likely to be nesting, with nests containing migratory birds or viable eggs. Methods used to prevent disturbance of nests are non-intrusive.	No understanding of local bird presence in space or time. Active nest searches, except when the nests searched are known to be easy to locate without disturbing them.

Table 2-1 Risk Examples Associated with Protection of Bird Nests

Factor Associated with Protection of Nests	Example of Lower Risk Level	Example of Higher Risk Level
Habitat	Habitat where your activities will occur is small and simple, such as: • human-made structure (bridge, beacon, tower, and building) • man-made setting or those with few potential nesting spots or few species of migratory birds • urban park made mostly of lawns with few and isolated trees. • vacant lot with sparse vegetation	Habitat is large and/or complex with many potential nesting areas, such as woodland and scrubland.
Nest type	Presence of nests that are: • easy to find and avoid, such as nests of: ▪ Great Blue Heron ▪ Bank Swallow ▪ Chimney Swift • easy-to-find cavity nests in snags, such as nests of: ▪ woodpeckers ▪ goldeneyes ▪ nuthatches • nests of colonial-breeding species, such as terns or gull, that can be located from a distance.	Presence of nest difficult to locate (in other words cryptic or small nests), such as nest of songbirds (this applies to nests of most species)
Timing	Project occurs when nests do not contain live birds or viable eggs (so generally outside the nesting period) and won't affect nests that are reused in the following year(s) and are protected under Schedule 1 of the MBR 2022.	Operations occur: • during the general nesting period, when they are likely to contain a live bird or viable egg. • throughout the year **and** could affect nests that may be reused by migratory birds in the following year(s) and are protected under Schedule 1 of the MBR 2022 (such as nests of Great Blue Heron).

Criteria to determine whether nest searches can be completed in the Project Areas during the migratory breeding bird window were based on whether the following risks to migratory bird nests identified in ECCC's guidelines in Table 2 could be effectively mitigated or avoided.

Nest searches are **not** recommended during the migratory breeding bird window if:

- The area is identified as Complex Habitat according to Table 2; It is Metrolinx's interpretation of ECCC's risk level examples, that if the habitat is not small and simple, the habitat is to be considered complex.
- The ability to detect nests is very low while the risk of disturbing or damaging active nests is high.
- Flushing nesting birds increases the risk of predation of the eggs or young or may cause the adults to abandon the nest or the eggs.
- Disturbing or damaging nests is still likely to occur during disruptive activities even when active nest searches are conducted prior to these activities.

A desktop migratory bird risk assessment was completed for the Project Areas, with a focus on assessing the "Habitat" factor in Table 2 and whether risks to migratory bird nests could be effectively mitigated or avoided.

A conservative approach has been taken to define simple and complex habitat. Simple habitat has been identified in areas that appeared to be clearly accessible/visible, with sparse vegetation and limited depth/density. Otherwise, if there is a reasonable expectation that the area(s) could provide difficulty with visibility/access for the purpose of nest searches, it has been identified as "complex", as per the habitat definitions provided by ECCC.

The desktop assessment included:

- A review of natural heritage data from the EPR for the Project Areas (i.e., ELC vegetation community type and characteristics, presence of SAR, SOCC, or SWH).
- Satellite imagery assessment using ArcGIS to record approximate size of the ELC vegetation communities (i.e., area, width, length).
- A review of Google Streetview imagery to view the vegetation communities.

2.4 Criteria for Determination of Injury/ Removal

The following criteria were used to determine injury, removal and pruning of trees:

- Canopy pruning is generally defined as less than 25-30% trimming of a live crown above ground, and no activity within the Tree Protection Zone (TPZ).
- Injury is generally defined as:
  - greater than 30% trimming above ground.
  - any activity within TPZ.
  - arborist to determine if the tree will remain viable after injury and rationale for the determination.
  - consider existing conditions (species, the health of the tree, softscape vs. hardscape, barriers to root growth, etc.) to determine survivability.

2.4.1 Hazard Risk

Hazard Risk estimates the probability of a failure of tree through a visual assessment. The risk was assessed using the recommendations provided in Metrolinx Vegetation Guideline (2023).

In addition to the above criteria, all tree health characteristics, defects, and symptoms were measured using the recommendations provided in Appendix A of Metrolinx Vegetation Guideline (2023).

2.5 Tree Protection Zones

The Metrolinx standards from the Metrolinx Vegetation Guideline (2023) were used to calculate TPZs as there were no applicable municipal standards. Table 2-2 summarizes the TPZ requirements.

Table 2-2: Recommended Minimum Protection Distances

Trunk Diameter (DBH)	TPZ for Trees Outside DNA	TPZ for Trees Within DNA
< 10 cm	The drip line or 1.2 m	The drip line or 1.2 m
10 – 30 cm	The drip line or 1.8 m	The drip line or 3.6 m
31 – 40 cm	The drip line or 2.4 m	The drip line or 4.8 m
41 – 50 cm	The drip line or 3.0 m	The drip line or 6.0 m
51 – 60 cm	The drip line or 3.6 m	The drip line or 7.2 m
61 – 70 cm	The drip line or 4.2 m	The drip line or 8.4 m
71 – 80 cm	The drip line or 4.8 m	The drip line or 9.6 m
81 – 90 cm	The drip line or 5.4 m	The drip line or 10.8 m
91 – 100 cm	The drip line or 6.0 m	The drip line or 12.0 m
> 100 cm	The larger of: 6 cm protection for each 1 cm diameter, or the dripline	The larger of: 12 cm protection for each 1 cm diameter, or the dripline

3.0 Tree Assessment Results and Impacts

3.1 Regulated or Designated Natural Areas

Based on the results of the desktop assessment and the review of the EPR, DNAs have been identified in the Project Area as summarized below and shown in Figures 1.2 to 1.5.

500 Howard Street

SAR bats (Hoary Bat, Silver-haired Bat, and Eastern Red Bat) were recorded at bat acoustic monitoring stations in a forest community on the opposite side of the railway tracks from the linear CUW1 ELC community north of 500 Howard Street (Figure 1.2). Trees and shrubs in the CUW1 community in the Project Area also have the potential to support SAR bats and the CUW1 community is therefore considered as a DNA. The CUW1 community is not considered as a potential linkage between features in the urban landscape because it is within a linear area that is greater than 1 km (approximately 3km) between vegetation pockets.

Wilson Road

Trees and shrubs in the HE1 communities on the south side of the railway tracks on either side of Wilson Road have the potential to support SAR bats and are therefore considered as DNAs (Figure 1.3). The HE1 communities are not considered as potential linkages between features in the urban landscape because they are within a linear area that is greater than 1 km (approximately 3km) between vegetation pockets.

Farewell Street

Trees and shrubs in the HE1 communities on the north and south side of the railway tracks at the north end of Farewell Street have the potential to support SAR bats and are therefore considered as DNAs (Figure 1.4). The HE1 communities are not considered as potential linkages between features in the urban landscape because they are within a linear area that is greater than 1 km (approximately 3km) between vegetation pockets.

Grandview Feedermain Area

Portions of the Project Area at the Grandview Feedermain Area (near the Bloor Street at-grade crossing) are within CLOCA's regulated area (Figure 1.5). The regulated area extends beyond the NHS boundary; therefore, the CLOCA regulated area is not considered as a DNA based on the NHS criteria. The CUM1 community is considered as a linkage between features in the urban landscape because it is within a linear area

that is less than 1 km between vegetation pockets (between the NHS associated with Harmony Creek to the north and a large, naturalized area of thicket (CUT1), meadow (CUM1), and plantation (CUP1) to the south.

Green Road

There were no significant features identified within the EPR that were associated with the CUM1 vegetation communities on the south side of the railway tracks at Green Road; therefore, these communities do not meet the criteria to be considered as DNAs (Figure 1.6). The CUM1 communities are not considered as a potential linkages between features in the urban landscape because they are within a linear area that is greater than 1 km between vegetation pockets.

As discussed within Section 2.1.2, the above-described potential bat SAR habitat was not identified as DNA until after the completion of the tree inventory for this report, and were thus not inventoried as DNAs (i.e., trees between 1 cm DBH and 10 cm DBH were not captured). As such, they have been mapped as ‘Potential bat SAR habitat/Identified Designated Natural Area” within the figures and drawings, and have been considered as DNA within the compensation calculations of this report through ecological compensation.

3.2 Tree Assessment Results

The analysis of tree recommendations was conducted based on the Metrolinx Vegetation Guideline (2023) for non-electrified corridors. This document classifies zones based on offsets from the proposed track centreline and recommends vegetation density and height requirements in these zones. Zones 1 to 2 include the first 4.5 m in both directions from the proposed track centreline. Complete tree removals are recommended within this area. Zones 3 and 4 include the first 9.0 m wide section of land beyond Zones 1 to 2. Tree removal is not required in Zones 3 and 4 so trees in these zones have been recommended for removal only when they were observed to be dead or potentially hazardous. Refer to Figure 3.1 and drawings in Appendix A.

A total of 617 trees and 545 stems have been included in the inventory. Species from 11 tree families were observed. Species diversity is consistent with other surveys conducted in the area and includes several introduced species and a high proportion of invasive species.

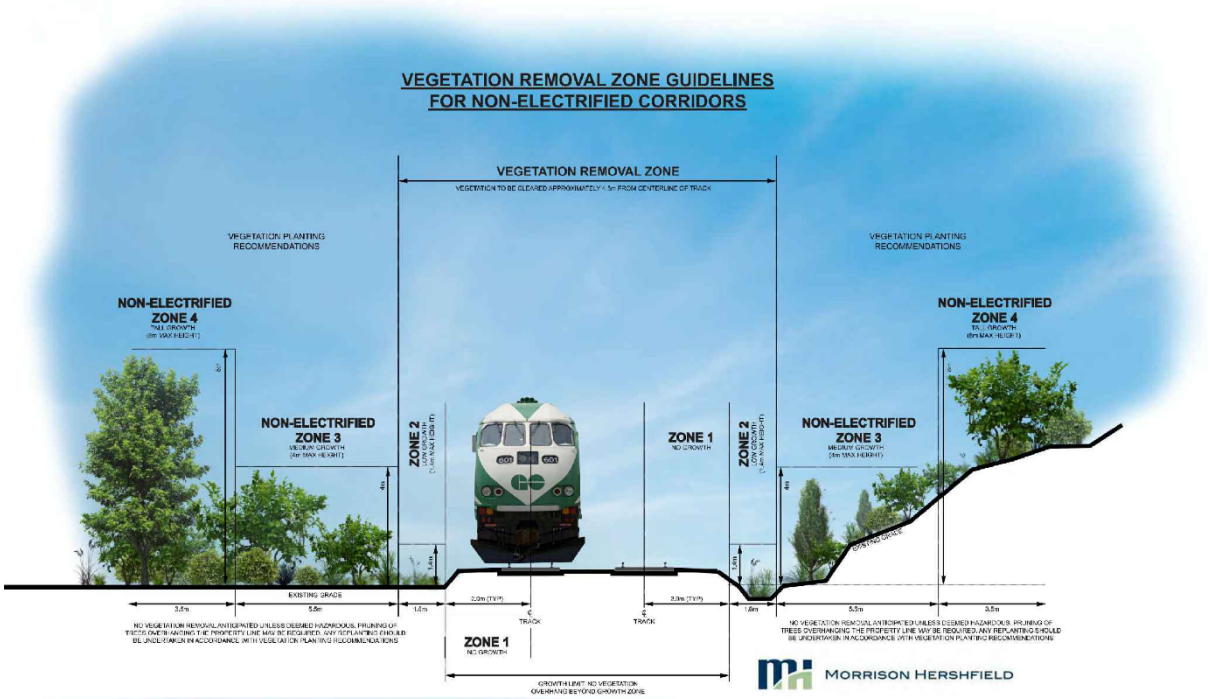
Table 3-1 summarizes the observed species by family. Classification by family provides a basic benchmark for site diversity. Please note that due to tree quality and/or technical error species data is missing for 1 tree. Based on the current design at the time of writing this report, this tree is not anticipated to be impacted; however, should it be

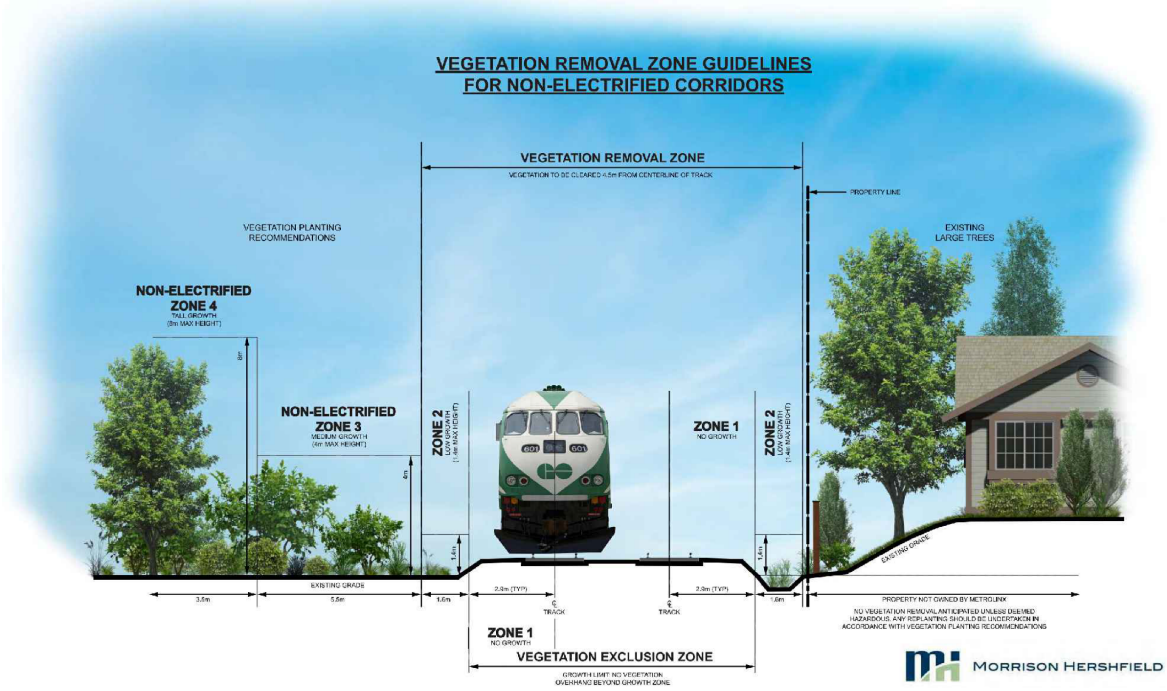
identified for removal or injury the future, missing species data should be collected on-site.

Table 3-1: Observed Species

Family	Genus and Species
Cupressaceae (cypress family)	*Juniperus virginiana (eastern red cedar)* *Thuja occidentalis (white cedar)*
Fabaceae (legume family)	*Gleditsia triacanthos (honey locust)* *Robinia pseudoacacia (black locust)*
Ginkgoaceae (ginkgo family)	*Ginkgo biloba (maidenhair tree)*
Juglandaceae (walnut family)	*Carya laciniosa (shellbark hickory)* *Juglans nigra (black walnut)*
Malvaceae (Mallow family)	*Tilia americana (basswood)*
Oleaceae (olive family)	*Fraxinus sp. (ash species)*
Pinaceae (Pine family)	*Picea abies (Norway spruce)* *Picea glauca (white spruce)* *Picea pungens (blue spruce)* *Pinus resinosa (red pine)* *Pinus sylvestris (Scots pine)*
Rosaceae (rose family)	*Crataegus sp. (hawthorn species)* *Malus sp. (apple species)* *Prunus sp. (cherry species)* *Pyrus communis (common pear)* *Sorbus americana (mountain ash)*
Salicaceae (willow family)	*Populus alba (white poplar)* *Populus sp. (poplar sp.)* *Populus tremuloides (trembling aspen)* *Salix alba (white willow)* *Salix nigra (black willow)* *Salix sp. (willow species)*
Sapindaceae (soapberry family)	*Acer negundo (Manitoba maple)* *Acer platanoides (Norway maple)* *Acer rubrum (red maple)* *Acer sp. (Maple species)* *Acer saccharinum (silver maple)* *Acer x freemanii (Freeman maple)*
Ulmaceae (elm family)	*Ulmus pumila (Siberian elm)* *Ulmus sp. (elm species)*

Figure 3.1: Vegetation Removal Zone Guidelines for Non-Electrified Corridors (Also presented in Appendix A)





3.2.1 Trees Identified for Protection

Trees have been recommended for retention where they are growing in or beyond Zone 3 providing there are no other impacts such as those listed in Section 5.0. In total, 200 trees are recommended for retention with hoarding. Hoarding has been recommended where trees are adjacent to construction activities and protection from ground-level impacts will be imperative. Trees that are separated by distance, grades, or existing protection such as chain link fence can be protected without hoarding. 12 stems are listed in this category. 288 stems from vegetation units are also to be protected with hoarding. One hundred and seventeen (117 additional trees have been identified for protection with hoarding currently, however they will potentially be removed in the future. These are tree removals located at the 500 Howard Street laydown area and Farewell Street Crossing.

3.2.2 Trees Identified for Removal or Injury

A total of 292 living trees and 240 stems have been recommended for removal. These trees are located within Zones 1 to 2 and are incompatible with the vegetation management objectives of these zones, or they are located in other impact areas such as those listed in Section 5.0. Eight (8) dead standing trees and 5 dead stems have also been recommended for removal. Refer to the DVI table (Appendix B, Tables A & C) for information regarding specific tree and vegetation groups.

The 15 trees required for laydown within the 500 Howard Street parking lot will be removed earlier than the remaining areas under a separate scope.

Table 3-2 Summary of Tree Removals and Injury per Project Element

Project Element	# of Tree Removals	# of Stem Removals	# of Injuries
Temporary Impacts			
Laydown (500 Howard Street)	15	0	0
Laydown and Access (Grandview Feedermain Area)	97	205	0
Total Temporary Impacts	**112**	**205**	**0**
Permanent Impacts			
Grading (adjacent to Wilson Road bridge)	89	20	0
New bridge (Wilson Road bridge)	47	20	0
New bridge (Farewell St pedestrian bridge)	27	0	0
Grading (adjacent to Green Road bridge)	25	0	0

Project Element	# of Tree Removals	# of Stem Removals	# of Injuries
Total Permanent Impacts	**188**	**40**	**0**
GRAND TOTAL	**300**	**245**	**0**

3.2.3 Trees Identified for Pruning

No trees have been identified for pruning in the Project Area. This should be reviewed in the field prior to contractor mobilization to ensure adequate clearance for all machines that are required for the work. The review should include trees with scaffolds or branches near or encroaching on the work zone and trees with potentially hazardous scaffolds. If pruning is required, it should be undertaken by an ISA Certified Arborist and be completed in compliance with the ANSI A3000 Pruning Standard.

3.3 Tree Species at Risk

No tree SAR were observed within the Project Area limits of this report.

3.4 Invasive Plant Species

Two hundred and forty (240) individual invasive trees and one hundred and fifty-five stems (i.e., Manitoba maple, Norway maple, Black locust, White poplar, and Siberian elm) were identified within the Project Area. The invasive species have been identified in the Tree Preservation and Removal Plan and DVI (Appendix A and B, respectively). An Invasive Species Management Plan will be prepared by the contractor for the invasive species that are a concern within Ontario.

3.5 Migratory Bird Risk Assessment

A habitat description and risk level for each Project Area based on the desktop migratory bird risk assessment is provided in Table 3-3.

Table 3-3 Desktop Migratory Bird Risk Assessment

Project Area	Description	Migratory Bird Risk
500 Howard Street	• ELC community: CUW1 • Width:10m; trail present which reduces the width of the CUW1 community • Dominant tree species: Manitoba Maple, Black Walnut, Honey Locust, Siberian Elm, Ash species	Complex Habitat • Higher risk for completing nest searches due to dense canopy cover that would reduce the ability to detect bird nests.

Table 3-3 Desktop Migratory Bird Risk Assessment

Project Area	Description	Migratory Bird Risk
Wilson Road	• ELC communities: HE1 • Width:10-13m • Dominant tree species: Manitoba Maple, Black Walnut	Complex Habitat • Higher risk for completing nest searches due to dense canopy cover that would reduce the ability to detect bird nests.
Farewell Street	• ELC communities: HE1 • Width:10-13m • Dominant tree species: Black Walnut, Manitoba Maple, Norway Maple, Trembling Aspen	Complex Habitat • Higher risk for completing nest searches due to dense canopy cover that would reduce the ability to detect bird nests.
Grandview Feedermain Area	• ELC communities: HE, CUM1 • HE1 ▪ Width: 10-15m ▪ Dominant tree species: Manitoba Maple, Trembling Aspen, Ash Species • CUM1 (triangular feature) ▪ Area 0.4ha ▪ Starting to succeed to thicket ▪ Dominant Plant Species: Goldenrod, Manitoba Maple, Ash species • CUM1 (linear feature) ▪ Width: 13m ▪ Goldenrod, Manitoba Maple, Ash species	HE1: Complex Habitat • Higher risk for completing nest searches due to dense canopy cover that would reduce the ability to detect bird nests. CUM1 (triangular feature) Simple Habitat • Lower risk for completing nest searches due to open habitat with good visibility of potential nest sites; however, area is starting to succeed to thicket and may need to be reassessed. CUM1 (linear feature): Simple Habitat • Low risk for completing nest searches due to open, narrow habitat with good visibility of potential nest sites.
Green Road	• ELC communities: CUM1 and Lawn • CUM1 ▪ Width: 18m ▪ Dominant plant species: Goldenrod, grasses • Lawn ▪ Width: 25m ▪ Dominant plant species: manicured grasses and planted trees (Red Pine, White Spruce, Silver Maple, Freeman's Maple	CUM1: Simple Habitat Lawn: Simple Habitat • Both communities are low risk for completing nest searches due to open habitat with good visibility of potential nest sites.

4.0 Permits and Compensation

4.1 By-laws and Permitting

The Regional Municipality of Durham, Municipality of Clarington and the City of Oshawa all have tree By-laws within the Project Area.

A Permit under the City of Oshawa's Tree By-law (i.e., By-law 78-2008) would typically be required for tree removal, however the City of Oshawa has agreed to follow the Metrolinx Vegetation Guideline (2023) for tree removal and compensation. Therefore, a Permit will not be required under By-law 78-2008. The Municipality of Clarington has a by-law related to woodlots which are not applicable to the Project based on the criteria used to define a woodlot in the by-laws and the amount of area proposed for removal for the Project.

There is one Woodland identified in the Project Area (refer to Appendix A) that is currently listed to be retained with hoarding but may require removal under future works, and therefore would qualify for a permit under the Regional Municipality of Durham By-law Number 30-2020. As the Regional Municipality of Durham does not have a compensation protocol for tree removals, the compensation approach outlined in the Metrolinx Vegetation Guideline (2023) will apply to these woodlands. The Regional Municipality of Durham confirmed that Metrolinx is exempt from permits under By-law 30-2020.

Table 4.1 provides a summary of the anticipated tree removals, injury, and preservation within the Project Area. The Metrolinx Vegetation Guideline (2023) defines the compensation approach for private, public, and Metrolinx lands as baseline compensation (outside DNAs). The compensation approach outlined in the Metrolinx Vegetation Guideline (2023) will apply to Metrolinx-owned lands as well as lands within the CPKC Rail ROW that will be affected by the Project; however, compensation trees will not be planted within the CPKC Rail ROW and other opportunities for compensation will be further explored. Note that public and private trees have been separated from the compensation table within the DVI summary as By-law compensation to differentiate from CPKC Rail ROW lands, however with no By-law they default to baseline compensation.

As discussed within Section 3.1, multiple known DNAs (e.g., linkages between natural heritage features) and DNAs identified after the completion of the tree inventory (e.g., potential bat SAR habitat) were identified within the Project Area and therefore ecological compensation (e.g., an approach to compensation where trees are replaced at a ratio representative of their ecosystem functions and services) is applicable for

those 300 tree removals and 245 stem removals (Appendix B, Tables A & C). A shrub thicket was also identified within Project Area and within a DNA.

Baseline compensation is 1:1 compensation for living trees ranging from 10-29 cm DBH and 3:1 compensation for living trees greater or equal to 30 cm DBH (Metrolinx Vegetation Guidelines, 2023). In additional compensation of 1:1 will also be used for dead DNA and non-DNA trees (Metrolinx Vegetation Guideline, 2025). Based on these methods, a total of 2126 compensation trees (79 Baseline, and 2047 Ecological and Ecological Woodland Thickets) are required for the Project Area. One thousand eight hundred eighty-one (1881) of these compensation trees are from the DVI, and 245 compensation trees are from the GVI. Table 4-2 provides further clarification on the compensation approach based on tree location, as summarized in the Metrolinx Vegetation Guideline (2023). One hundred ninety (190) trees (183 living and 7 dead), and 55 stems (50 living and 5 dead) are being removed within a potential SAR bat habitat area. These removals will require an ESA Permit. Eighteen (18) Private Removal Permits will be required for individual trees removed on private land that are above 10 cm DBH.

Metrolinx as a Crown Agency of the Province of Ontario is not subject to the *Conservation Authorities Act* (CAA); however, Metrolinx will engage with CLOCA through voluntary approval to incorporate their requirements as a best practice, where practical, and may obtain associated permits and approvals if agreement is reached with CLOCA to facilitate their review. Communication and engagement with CLOCA will continue as design and construction planning progress to address matters related to their mandate.

Metrolinx will continue to consult with the City of Oshawa, Municipality of Clarington, Regional Municipality of Durham, CPKC and CLOCA regarding tree removal, restoration, and compensation, which includes tree replanting and landscape restoration, during detailed design review.

Table 4.1: Anticipated Action for Trees within the Project Area

Category	Remove	Injure	Preserve and Future Removals	Total
Public trees (City of Oshawa)	1	0	29	30
Public trees (City of Clarington)	0	0	0	0

Table 4.1: Anticipated Action for Trees within the Project Area

Category	Remove	Injure	Preserve and Future Removals	Total
Trees on CPKC owned lands (rail corridor)	480 + 13 dead	0	378	871
Trees on Metrolinx-owned lands	14	0	120	134
Trees on private property	37	0	90	127
Total	**545**	**0**	**617**	**1162**

Table 4-2: Compensation Approach Based on Tree Location

Location	Applicable By-law with Compensation Approach[2]	Within a DNA	Compensation Approach
CPKC ROW/ Metrolinx-owned Lands	No	No	Baseline Compensation
CPKC ROW/ Metrolinx-owned Lands	No	Yes	Ecological Compensation
Public/Private Land	Yes[3]	No	Baseline Compensation
Public/Private Land	Yes[3]	Yes	Ecological Compensation
Public/Private Land	No	Yes	Ecological Compensation
Public/Private Land	No	No	Baseline Compensation

[3] While the Regional Municipality of Durham, City of Oshawa, and Municipality of Clarington have by-laws pertaining to tree removal, both have agreed to follow Metrolinx's Vegetation Guideline (2023) for tree removal and compensation.

Table 4-3: Compensation Based on Ecological Replacement Ratio

DBH (cm)	Replacement Ratio
1-10	1:1
10-20	3:1
20.1-30	10:1
30.1-40	15:1
40.1-50	20:1
50.1-60	30:1
60.1-70	40:1
70.1+	50:1

4.2 Vegetation Replacement Strategy

Property specific landscape/restoration plans will be required for tree removals in natural areas. The landscape/restoration plans will identify areas for suitable restoration/compensation that shall accommodate site-specific impacts, mitigation, and replacement measures to offset vegetation losses. A summary of tree replacement requirements is provided in Appendix D.

The landscaping/restoration plan will be prepared as design progresses. The Municipality of Clarington by-law 97-35 exempts Metrolinx from providing compensation as per email received from the Municipality on April 19, 2024. [NTD: Further discussions with City of Oshawa/Municipality of Clarington/Regional Municipality of Durham/Metrolinx/ CLOCA / Indigenous communities are required to confirm landscaping and restoration plans.]

4.3 Additional Agencies to Review

This Arborist Report will be circulated to the City of Oshawa, Municipality of Clarington Regional Municipality of Durham, CLOCA, CPKC and Indigenous communities listed in Section 1.4.2 for review and comment.

5.0 Mitigation Measures and Best Management Practices

5.1 Potential Construction Impacts to Trees

Trees are living organisms that react to changes in their environment. Trees can be damaged during construction without showing signs of injury until some years later. Most construction-related impacts can be attributed to the removal or impacts to the roots that result in the slow death of the tree. This occurs due to the tree's inability to absorb sufficient water and nutrients. Contained within this section are descriptions of the potential impacts this Project may have on the trees and impact mitigation methods that are intended to aid in the design and construction process.

5.1.1 Soil Compaction and Root Damage

The leading cause of construction damage to trees is compaction of the soil around the roots or within the TPZ. The TPZ is the area around the tree or group of trees in which no grading or construction activity may occur. Equipment entering into a TPZ compresses the air pockets around the roots inhibiting the tree from absorbing nutrients and water. This damage ultimately degrades the health of the tree. Accordingly, during the removal stage, equipment use within the preservation zones should be restricted to ensure that the trees' roots are not disturbed, thereby assisting in maintaining their continued health.

The success of tree preservation is dependent not only on protecting the root zone from compaction and damage; it is also contingent upon the ability to ensure that the structural roots within the root plate are not disturbed. Root damage can take various forms. The most common is compaction. Compaction can occur when vehicles, equipment or storage occur within on the soil under the canopy of the tree. Compaction reduces the voids within the soil structure and limits the tree's ability to grow new roots and uptake water and nutrients. Compaction is a slow killer, and the effects can often take several years to be observed within the tree. Root damage can also occur when the roots of the trees are physically damaged through cutting, excavation, or other site servicing work. The removal of roots negatively impacts the health of the trees by reducing its ability to uptake nutrients but in severe cases the impacts can result in damage to the structural roots and tree failures can result.

5.1.2 Mechanical Damage

Equipment can physically damage the trees through striking the trunk, limbs and/or roots. Felled trees can also cause damage during the tree removal stage of construction. The Contractor should be held responsible for all damage to the trees

during all stages of construction. Removal trees shall always be felled away from adjacent trees to be retained.

Tree canopy damage can occur through physical damage to the branches, limbs and even the foliage. When working adjacent to the canopy of trees care must be taken when operating equipment to not strike any overhanging limbs. Idling machines can also cause damage to foliage and small branches by burning them with the heat from the exhaust and pollution. The work zones and types of equipment that will be operating adjacent to the trees must be considered and discussed with the contractor onsite to ensure that proper mitigation occurs through the construction process.

5.1.3 Root Damage

Excavation requires the removal of roots. Root pruning must clean cut the roots to promote continued health and discourage rot. Ideally the roots will be exposed using an air spade or hydro-vacuum excavation and then pruned at the limits of excavation. Pruning cuts shall be made at a maximum of 150 mm inside the limits of excavation and backfilled immediately to protect the roots from drying out. Root pruning must be completed by or under the direct supervision of a Certified Arborist and in compliance to ANSI A3000 Root Pruning. The following are considerations to be addressed by the pruning Arborist. Root pruning:

- Shall be timed appropriately to increase survivability and should occur prior to the start of grading and after leaves have fallen from deciduous plants in fall or before bud break in the spring.
- Pruned root ends shall be neatly and squarely trimmed with clean and approved root-pruning equipment.
- The area shall be backfilled with healthy soils soon as possible to prevent desiccation and promote root growth. Soil quality report shall be provided to Metrolinx for review prior to root pruning.
- Texture of backfill soil should maximize the permeation and percolation of water and promote proper root growth and structure post-transplant.
- Exposed roots shall not be allowed to dry out such as with the application of mulch and an appropriate watering schedule shall be undertaken for temporary exposure (e.g., water twice weekly between June 1st and September 15th) so that the roots maintain optimum soil moisture during Construction and backfilling operations.

5.2 Pruning

Pruning a tree results in a wound that a tree must respond to. Trees' ability to respond to wounds changes as they age. Pruning in mature trees should be selective and calculated. Deadwood removal is essential to personal safety and should be completed regularly. Corrective pruning in mature trees may be required. This may include crown reduction, large limb removal or removal of defective structural form. Further corrective actions may be required to stabilize and protect mature trees from failure. These may include cabling systems, bracing and/or retrenchment pruning. All pruning must be completed by or overseen by an ISA Certified Arborist and in compliance to ANSI A3000 Root Pruning. The following are considerations to be addressed by the pruning Arborist.

- All limbs damaged or broken during Construction shall be pruned cleanly, utilizing by-pass secateurs in accordance with best arboricultural practices.
- All pruning cuts should be made to a growing point such as a bud, twig, or branch, cut just outside the branch collar (i.e., the swollen area at the base of the branch that sometimes has a bark ridge), and perpendicular to the branch being pruned rather than as close to the trunk as possible to minimize the site of the wound. Avoid leaving stubs, living or dead.
- Extensive pruning is best completed during the dormant/winter season. Pruning should be limited to the removal of no more than 1/3 of the total bud and leaf bearing branches.
- Where branches are likely to be damaged during Construction, branches shall be pruned to avoid branches being broken off, so that bark is not torn, and wounds are not more extensive than necessary.

5.3 Best Management Practices

Construction fencing will be installed and maintained to clearly define the construction footprint and prevent accidental damage or intrusion into adjacent DNAs, vegetation / ecological communities, or habitat features. Seed collection and tree translocation were also considered as part of the assessment in alignment with the Metrolinx Vegetation Guideline (2023). However, no trees within the Project area were identified as candidates for seed collection or suitable for translocation based on species, size, condition, or site constraints.

Precautions will be taken to reduce the risk of the spread of invasive species by implementing the Clean Equipment Protocol for Industry (Halloran et al. 2013) on equipment and machinery prior to arriving on site. Further, during removal of invasive

species, care will be taken to confine mulched invasive species within the same removal area to reduce spread. The contractor will follow applicable regulations and best management practices.

5.3.1 Protecting and Managing Trees During Construction

The following recommendations are presented to provide appropriate tree protection and management during the construction for this Project.

1. Tree protection fencing shall be installed to protect trees identified for preservation. TPF installation must conform to current details provided on the Tree Preservation and Removal Plan located in Appendix A and in the Metrolinx Vegetation Guideline (2023), and subsequent amendments. Upon installation of the tree protection fencing, the Contractor shall contact the Project Arborist to review and approve the fencing and its location prior to commencement of any site work. This shall be coordinated with municipal staff for approval. The protection fencing shall remain intact throughout the entire protection. The fencing will be inspected weekly and, if required, repaired. The fencing shall be removed at the completion of all site works.

2. The TPZ is the area around a retained tree that is to be protected by tree protection fencing. The TPZ is not to be used for any type of storage (e.g., storage of debris, construction material, surplus soils, and construction equipment). No trenching or tunneling for underground services shall be located within the TPZ. Construction equipment shall not be allowed to idle or exhaust within the TPZ. No trees are marked for injury based on the current design. Should a tree be injured during construction, the Arborist should be notified for assessment immediately as the tree could pose a risk of falling.

3. Upon receiving the necessary Project approvals and prior to the commencement of tree removals, all trees designated for preservation must be flagged in the field. All designated preservation areas must be left standing and undamaged during site works. Removals are to be completed outside of migratory bird nesting season from, approximately, March 1 to September 30. Removals may take place during this restricted time only if the requirements of the Migratory Birds Convention Act are met and nesting activity is routinely monitored by qualified individuals (i.e., wildlife biologist or ornithologist).

4. Trees shall not have any rigging cables or hardware of any sort attached or wrapped around them, nor shall any contaminants be dumped within the protective areas. Furthermore, no contaminants shall be dumped or flushed where they may come into contact with the feeder roots of the trees. In the event that roots from retained trees are exposed, or if it is necessary to remove limbs or portions of trees after

construction has commenced, the Project Arborist shall be informed and the proper actions conforming to municipal policies and by-laws shall be carried out.

5. Retained trees that are impacted by construction (injured) shall be watered and monitored. These trees shall be watered twice weekly during construction between June 1st and September 15th if there is less than 25 mm rainfall (forecasted) over a period of 7 days. Tree health and soil condition should be assessed in the spring and fall for retained trees and soil amendments added including fertilizer when indicated by the Arborist, as required.

6. Upon completion of the tree removals, all felled trees are to be removed from the site. No lumber or brush from the clearing is to be stored on the site. Any chipping, cutting or brush cleanup are to be completed outside of the bird nesting season.

5.3.2 Protection of Migratory Birds During Tree Removal

Tree removal is recommended to be completed outside of the migratory breeding bird window (March 1 to September 30) in accordance with the MBCA. Trees removal may be permitted within simple habitats during the migratory breeding bird window if a pre-clearing nest search is completed by a Qualified Biologist or Ornithologist, and bird nests are confirmed as absent from the tree removal area.

An assessment was completed in Section 3.5 to identify whether ELC vegetation communities are simple habitats that can easily be searched for nests during the breeding bird window, or whether they are complex habitats that could not be effectively searched to confirm the presence/absence of bird nests. Refer to Section 3.5 for the results of the Migratory Bird Risk Assessment for ELC communities in the Project Areas that have been identified as simple habitats. Nest searches are **not** effective during the leaf-on period for **complex habitats**.

Nest searches shall be carried out in simple habitats if tree removals are proposed during the breeding bird window in accordance with the MBCA as follows::

- For simple habitats only, contact a qualified individual (i.e., wildlife biologist or ornithologist) to determine if bird nests or nesting birds are within the tree removal disturbance area. Stantec has a qualified specialists on staff that can be contacted. Note: tree removals cannot take place within complex habitat during the breeding bird window.

- In simple habitats: If the wildlife biologist / ornithologist has determined that there are nesting birds or a bird nest onsite, there will be no tree removals/chipping conducted within the boundary set out by the specialist and approved by Metrolinx. Tree removals can resume within this area at the end of the nesting season

(September 30) and/or if the wildlife biologist / ornithologist has determined the birds have left the area.

- In simple habitats: If the wildlife biologist / ornithologist determines there are no migratory birds nesting or bird nests within the disturbance area, the Contractor has 48 hours to conduct removals. At the end of 48 hours, if removals and chipping is not complete, the wildlife biologist / ornithologist will return to the site and proceed with another assessment. If there are still no birds, or nests work can resume for another 48 hours. This process will continue until all removals and chipping is complete.

5.3.3 Protection of Species at Risk Bats During Tree Removal

Trees and shrubs removals shall follow the timing windows outlined in the ESA permit.

There are six (6) SAR bat that may use woody vegetation (i.e. trees/shrubs) as maternity roosts for raising young. The following bat SAR are protected under the ESA:

• Little Brown Myotis (Myotis lucifugus)

• Northern Myotis (Myotis septentrionalis)

• Tri-coloured Bat (Perimyotis subflavus)

• Eastern Red Bat (Lasiurus borealis)

• Hoary Bat (Lasiurus cinereus)

• Silver-haired Bat (Lasionycteris noctivagans)

One (1) SAR bat may roost in or on buildings (barns/sheds) or in crevices in rock faces, talus slopes, cliffs, rock barrens, or concrete structures and has been assumed as present within the Project Area. The following SAR bat is protected under the ESA:

• Eastern Small Footed Myotis (Myotis leibii)

Suitable habitat shall only be removed during the timing windows described in the ESA permit.

Based on the potential use of trees and shrubs by SAR bats, the FOM, FOC, SWD, SWC, SWM, CUP, CUW, CUS, HE communities in the Project Areas should be considered as having the potential to support SAR bat habitat.

6.0 Summary

A total of 617 trees and 545 stems were inventoried for this Arborist Report. Two Hundred (200) trees and 288 stems will be protected with hoarding and 7 additional trees and 12 stems will be retained without hoarding as they are sufficient distance away from the limit of disturbance. A total of 117 trees were identified to be retained during this phase of the Project; however, these trees will potentially be removed for future works. For this phase of the Project, 300 trees and 245 stems were identified for removal including hazardous dead trees. 2126 total compensation trees have been calculated for the Project Area within this report using the Metrolinx Vegetation Guideline, 2023 and Metrolinx Vegetation Guideline, 2025 for dead trees.

The 15 trees required for laydown within the 500 Howard Street parking lot will be removed earlier than the remaining areas under a separate scope.

7.0 References

Halloran, J., H. Anderson and D. Tassie. 2013. *Clean Equipment Protocol for Industry. Prepared for the Peterborough Stewardship Council and Ontario Invasive Plant Council*. Peterborough, ON. Printed April 2013. Updated May 2016.

Metrolinx. 2020. *Bowmanville Rail Service Extension, Initial Business Case Update, February 2020*. Available online at: http://www.metrolinx.com/en/regionalplanning/projectevaluation/benefitscases/2020-02-20-Bowmanville-Rail-Service-Extension-IBC-Update-FINAL.pdf.

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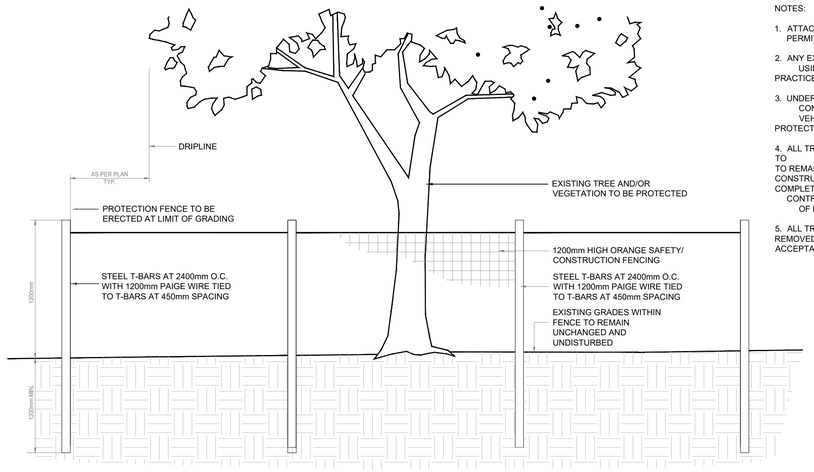
Stantec Consulting Ltd. 2023. *Addendum to Oshawa to Bowmanville Rail Service Extension Environmental Project Report: Natural Environment Technical Report*. Prepared by Stantec, dated September 26, 2023 (Project Number: 165011019).

TRCA (Toronto Region Conservation Authority). 2023. *Guideline for Determining Ecosystem Compensation (After the decision to compensate has been made).* Updated June 2023.

Stantec Consulting Ltd. 2025. SAR bat/bird/ELC memo – Finalized as of August 20, 2025

Appendix A:
Tree Preservation and Removal Plan

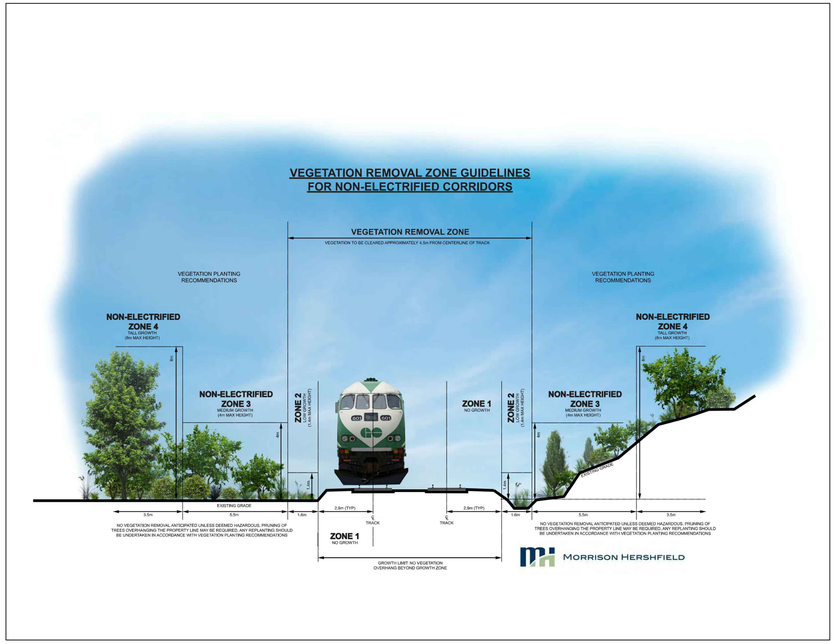
ANSI D (34.00 x 22.00 Inches)

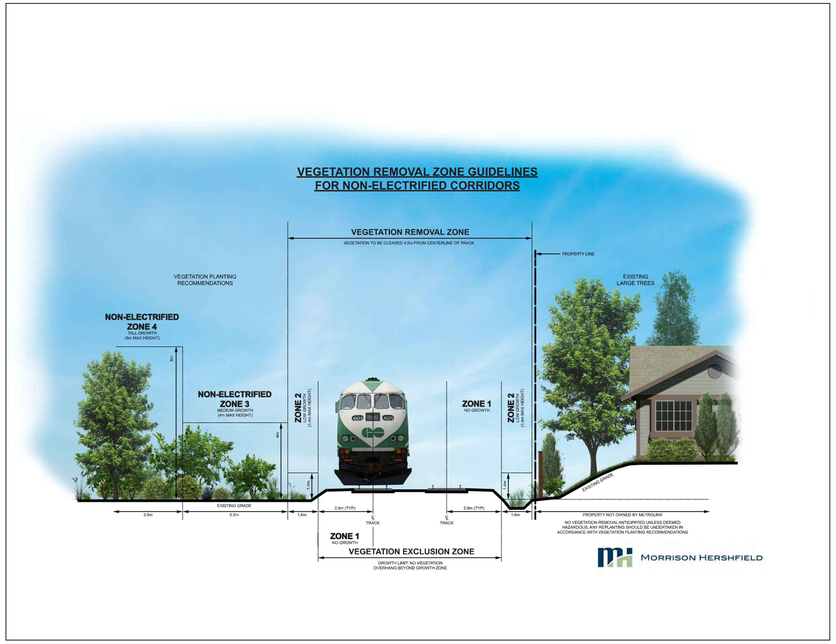


NOTES:

1. ATTACHMENT OF FENCE TO TREES WILL NOT BE PERMITTED.
2. ANY EXPOSED ROOTS ARE TO BE HAND PRUNED USING PROPER ARBORICULTURAL PRACTICES.
3. UNDER NO CIRCUMSTANCES SHALL ANY CONSTRUCTION MATERIALS, EQUIPMENT OR VEHICLES BE PLACED WITHIN THE TREE PROTECTION ZONE.
4. ALL TREE PROTECTION TO BE ERECTED PRIOR TO ANY CONSTRUCTION ACTIVITY AND IS TO REMAIN IN PLACE UNTIL ALL CONSTRUCTION HAS BEEN COMPLETED. OBTAIN WRITTEN APPROVAL FROM CONTRACT ADMINISTRATOR PRIOR TO REMOVAL OF FENCING.
5. ALL TREE PROTECTION FENCING SHALL BE REMOVED PRIOR TO PROJECT FINAL ACCEPTANCE.

TD 1 — PROPOSED TREE PROTECTION FENCING
N.T.S.





GENERAL

1. The Tree Management/Preservation Plan is to be read in conjunction with the associated Arborist Report and shall not be utilized as a standalone document.

TREE PROTECTION FENCING

1. The Contractor shall install Tree Protection Fencing (TPF) to protect trees identified for preservation.
2. All TPF will conform with the Arborist Report and detail(s) included on these plans. Where current governing Municipal/City standards differ, contact Project Arborist or Contract Administrator for direction.
3. No substitutions of materials, products or quantities will be accepted without the prior written permission of the Project Arborist.
4. Upon installation of the TPF, the Contractor shall contact the Project Arborist to review and approve the fencing and location(s) in writing prior to commencement of any site work.
5. The TPF shall remain in the approved locations throughout the duration of the site works and shall not be moved at any time to accommodate construction or site work.
6. The Contractor shall inspect TPF weekly and maintain as required through all stages of development/construction. The TPF shall be removed at the completion of all site works and disturbed areas shall be restored to original condition.

TREE PRESERVATION

1. The Tree Protection Zone (TPZ) is protected and delineated by the TPF or as otherwise defined in the approved Arborist Report. The Contractor is not to proceed in uncertainty.
2. Any potential or incurred injury/damage to adjacent tree(s) identified to be preserved shall be immediately reported to the Project Arborist and reviewed on site. Injury/damage includes any required arboricultural treatment including but not limited to: limb pruning, trunk damage, root exposure or required cutting/removal or any other activity that has the potential to harm the tree.
3. The TPZ is not to be used for any type of storage including materials, equipment or stockpiles.
4. No trenching or tunneling for underground services shall occur within the TPZ.
5. Any equipment use within the TPZ will be restricted throughout all stages of development. This applies to TPZs within or outside of the project limit line.
6. Absolutely no alteration of grades or construction activity is permitted within the TPF and TPZ. Absolutely no flushing of contaminant shall be permitted towards or within the TPZ.
7. When working adjacent to trees to be preserved site preparation measures such as pruning for overhead clearance may be required. Preparatory pruning shall only be performed when completed by or under the direct supervision of an ISA Certified Arborist (or approved qualified person as approved by the Project Arborist).
8. All pruning work shall be performed by a qualified individual and shall be in accordance with current horticultural practices including but not limited to:
   a. Pruning cuts shall be made just beyond the branch collar and should be limited to thinning cuts. Heading cuts will only be accepted in specific cases as directed by an arborist and should be avoided where possible.
   b. Pruning of all stems greater than 50 mm in diameter should be made with a three-cut method to avoid tearing living bark tissue.
   c. No wound dressings shall be applied.
16. Where soil excavation/grading work is required within the rooting zone of a tree to be preserved (the rooting zone often extends beyond the identified TPZ and can be 3 times the dripline radius or more):
   a. Roots shall be cleanly severed before stripping and removing soil to avoid damage to the tree and the root system. Roots to be cut using appropriate equipment (i.e. trencher adapted to this specific use/chainsaw/root pruning machine). Roots may be severed using the clean edge of a straight excavator bucket under supervision of an ISA Certified Arborist.
   b. No attempts to cut existing roots with the digging bucket of any heavy machinery will be permitted as it can cause the roots to tear and pull and be harmful to root regeneration and recovery.
   c. Any exposed roots of a tree to be preserved with a diameter greater than 2.5cm (1 inch) shall be pruned back to the soil face.
   d. An excavation area within the TPZ shall be backfilled immediately and/or roots shall be kept constantly moist with burlap covered with white plastic and checked a minimum of 2 times a day, for a maximum of 48 hours. If roots are to be exposed for a period greater than 48 hours, the exposed area shall be covered with a minimum of 150 mm (6 inches) of mulch and maintained in a moist condition during construction until the area can be properly backfilled.
17. Trees shall not have any rigging cables, fencing, signage or hardware of any sort attached or wrapped around them.
18. No contaminants or toxic materials shall be dumped or flushed where they may come into contact with the feeder roots of trees to be preserved.
19. The Contractor will be held responsible for all avoidable damage to preserved trees during all stages of construction.
20. Watering or other maintenance of trees to be preserved may be required if construction activities are observed to be causing stress or impacting health as determined by the Project Arborist.

TREE REMOVALS

1. Prior to the commencement of tree removals, all trees designated for removal must be clearly identified in the field.
2. Where possible, removals, chipping, and/or brush removal is to be completed outside of migratory bird nesting season from April 1 to August 31. If removals are to occur within the restricted activity period, due diligence measures, including pre-clearing nest sweeps will be employed to reduce risk to nesting birds protected under the Migratory Birds Convention Act, 1994 and Migratory Birds Regulations. These surveys must be completed by a qualified biologist or ornithologist.
3. Trees shall always be felled away from adjacent preserved trees to prevent avoidable damage to the crowns and stems

METRIC

ALL DIMENSIONS SHOWN ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED.

Legend

- Existing Deciduous Tree
- Existing Coniferous Tree
- Existing Tree Outside EW4 Boundary
- 0000 — Tree to be Retained and Protected Identification Tag
- 0000 — Tree to be Removed Identification Tag
- 0000 — Tree to be Potentially Removed as Part of Future Works (Protected during Current Phase)
- Proposed Tree Protection Fencing
- Dead Standing Tree
- Required Tree Protection Zone (Minimum Distance)
- Proposed Track Centre Line
- Vegetation Zone 1 Limit (No Growth)
- Vegetation Zone 2 Limit (1.4m Maximum Height)
- Vegetation Zone 3 Limit (Hazard Removals Only)
- Vegetation Zone 4 Limit (Hazard Removals Only)
- Property Line
- Project Footprint
- 6m Arboriculture Offset from Project Footprint
- ELC Boundary
- Woodland Area (>1Ha)
- DNA Boundary (Not Known at Time of Inventory)
- DNA Boundary (Known at Time of Inventory)
- Vegetation Unit to be Retained
- Vegetation Unit to be Removed
- Potential SAR Bat Habitat / Identified Designated Natural Area
- CLOCA Regulated Area
- CLOCA Regulated Area 12m Buffer
- 500 Howard Laydown Area
- 500 Howard Heritage Building Zone
- 500 Howard GO Transit Zone
- 500 Howard Fountain Area

METROLINX PROJECT NO. 126701

REFERENCE DRAWINGS		ISSUE			REVISIONS		
		2	25/11/07	PER UPDATED INVENTORY			
		1	24/10/28	EARLY WORKS SUBMISSION			
DWG NO.	TITLE	NO.	DATE	ISSUED FOR	REV.	DATE	

DRAWN BY: J.L. 25/11/07 | DESIGNED BY: J.L. 25/11/07
CHECKED BY: T.H. 25/11/07 | APPROVED BY: T.H. 25/11/07
SCALE: 1:500 FULL SIZE ONLY
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CERTIFIED ARBORIST ISA
JACK LEGAULT
ON-2888A

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BOWMANVILLE RAIL SERVICE EXTENSION

DETAILS AND NOTES

TREE PRESERVATION AND REMOVAL PLAN

CONTRACT NO.	DWG. NO.	REV.	SHEET
RQQ-2017-CLE-010	L-0000	2	1

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ANSI D (34.00 x 22.00 Inches)

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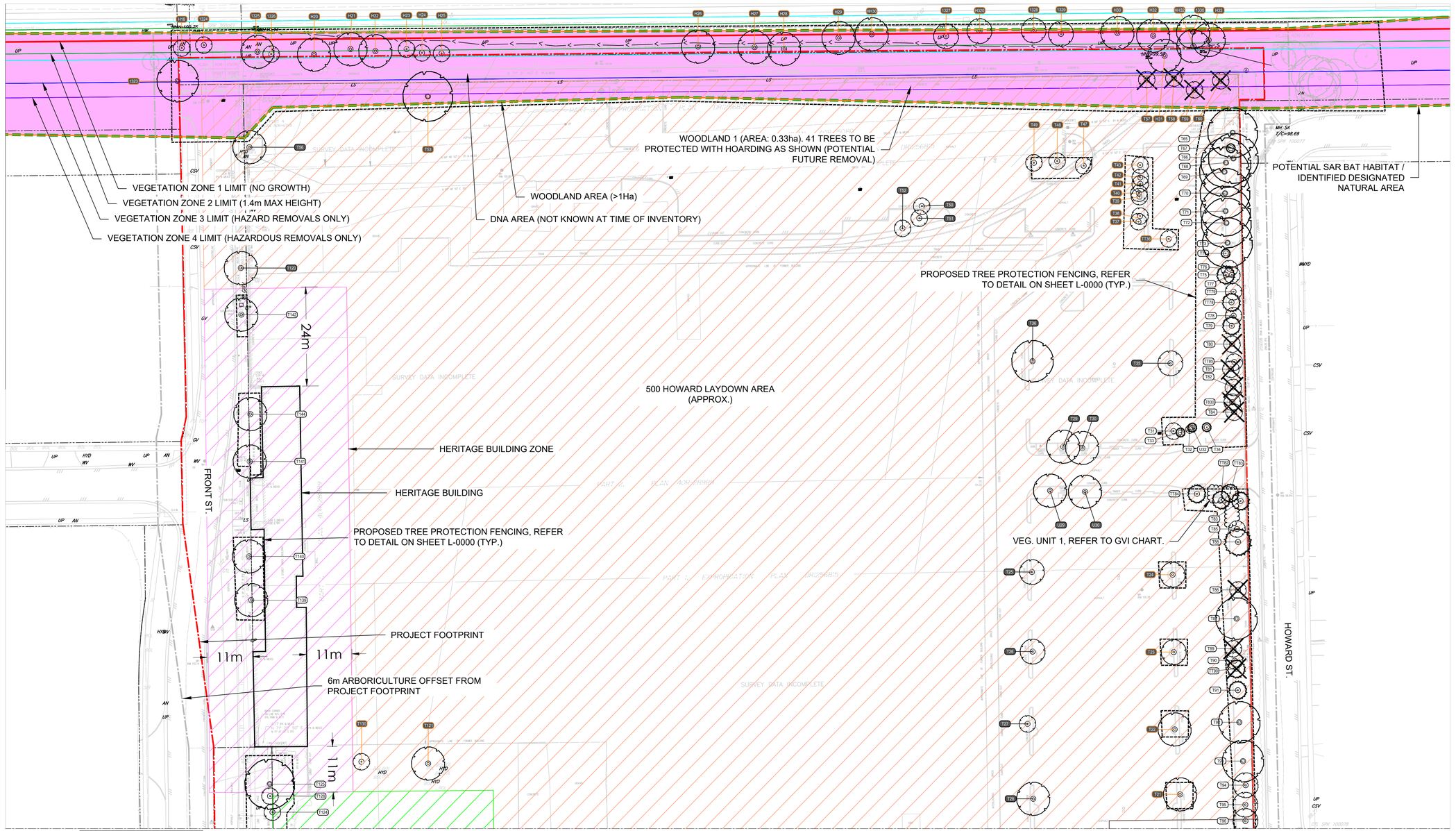

METROLINX PROJECT NO. 126701

REFERENCE DRAWINGS		ISSUE			REVISIONS		
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BOWMANVILLE RAIL SERVICE EXTENSION
500 HOWARD STREET
TREE PRESERVATION AND REMOVAL PLAN

CONTRACT NO.	DWG. NO.	REV.	SHEET
RQQ-2017-CLE-010	L-2700	2	2

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MATCHLINE
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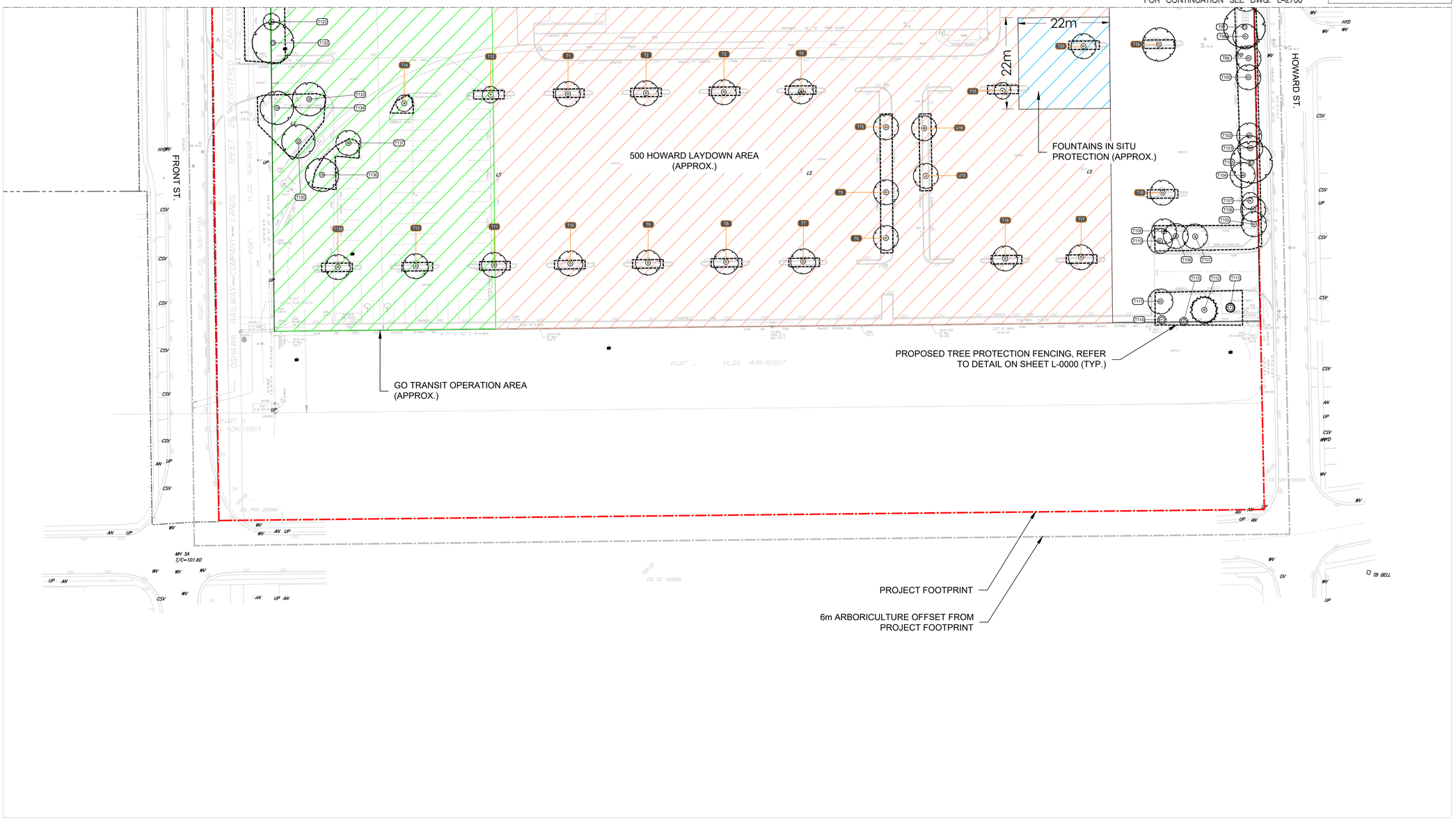

WINDOW 2

METROLINX PROJECT NO. 126701

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		1	24/10/28	EARLY WORKS SUBMISSION			
DWG NO.	TITLE	NO.	DATE	ISSUED FOR	REV.	DATE	

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500 HOWARD STREET
TREE PRESERVATION AND REMOVAL PLAN

CONTRACT NO.	DWG. NO.	REV.	SHEET
RQQ-2017-CLE-010	L-2710	2	3

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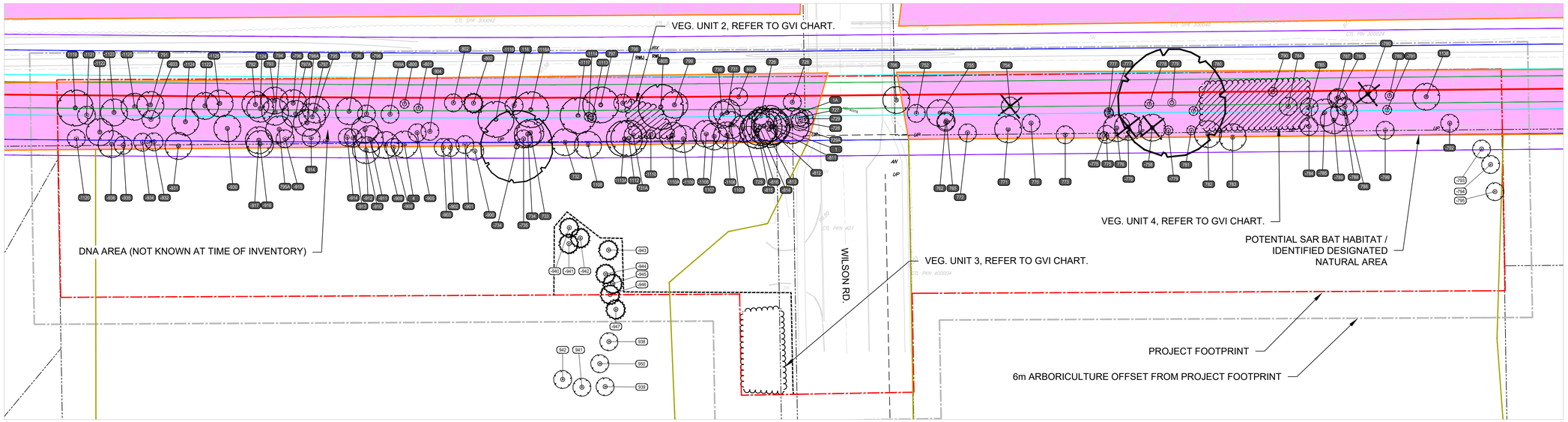

METROLINX PROJECT NO. 126701

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BOWMANVILLE RAIL SERVICE EXTENSION
WILSON ROAD
TREE PRESERVATION AND REMOVAL PLAN

CONTRACT NO.	DWG. NO.	REV.	SHEET
RQQ-2017-CLE-010	L-2800	2	4

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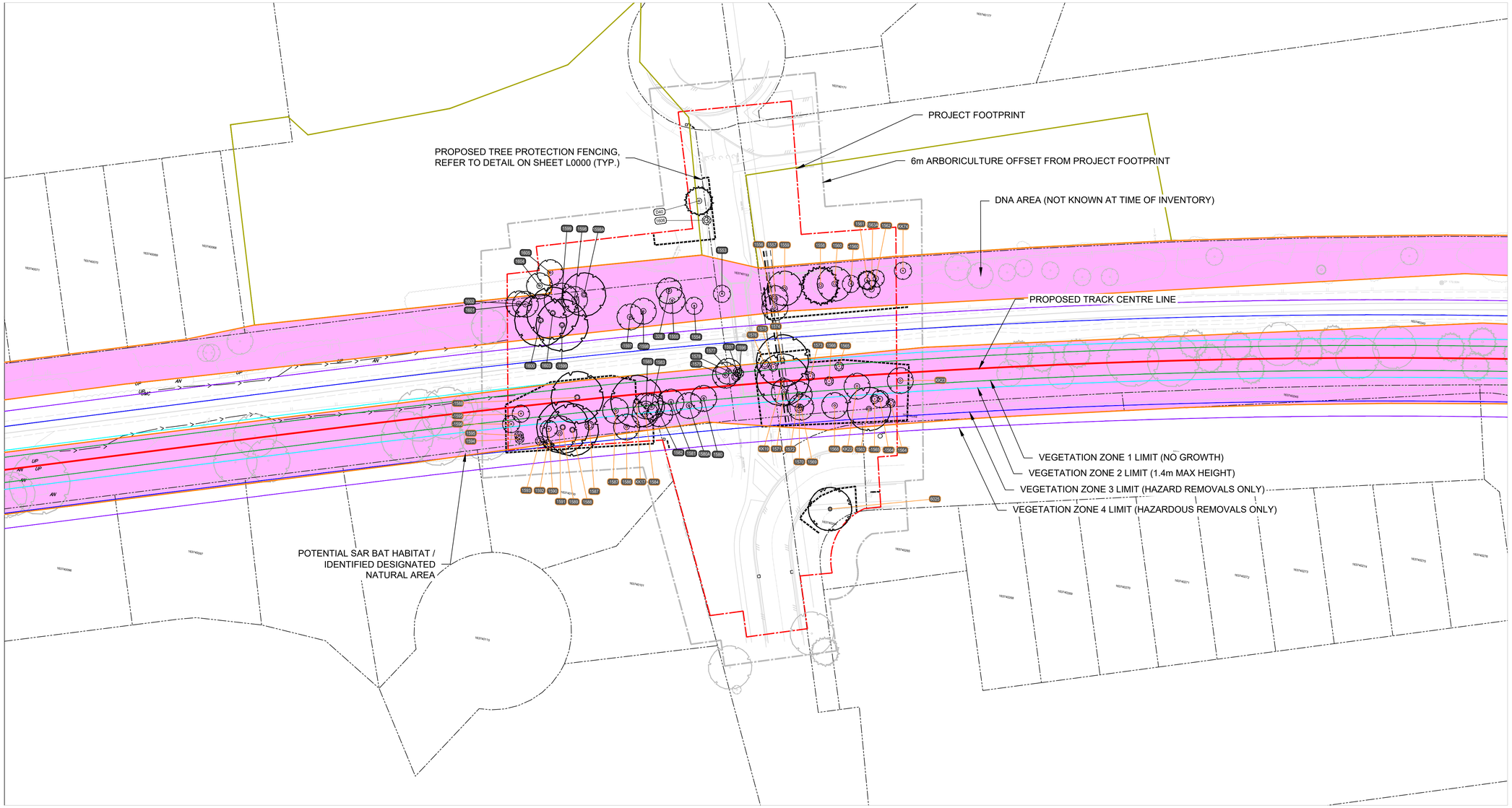

METROLINX PROJECT NO. 126701

REFERENCE DRAWINGS		ISSUE			REVISIONS		
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		1	24/10/28	EARLY WORKS SUBMISSION			
DWG NO.	TITLE	NO.	DATE	ISSUED FOR	REV.	DATE	

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ON-2888A

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BOWMANVILLE RAIL SERVICE EXTENSION

FAREWELL STREET

TREE PRESERVATION AND REMOVAL PLAN

CONTRACT NO.	DWG. NO.	REV.	SHEET
RQQ-2017-CLE-010	L-3100	2	5

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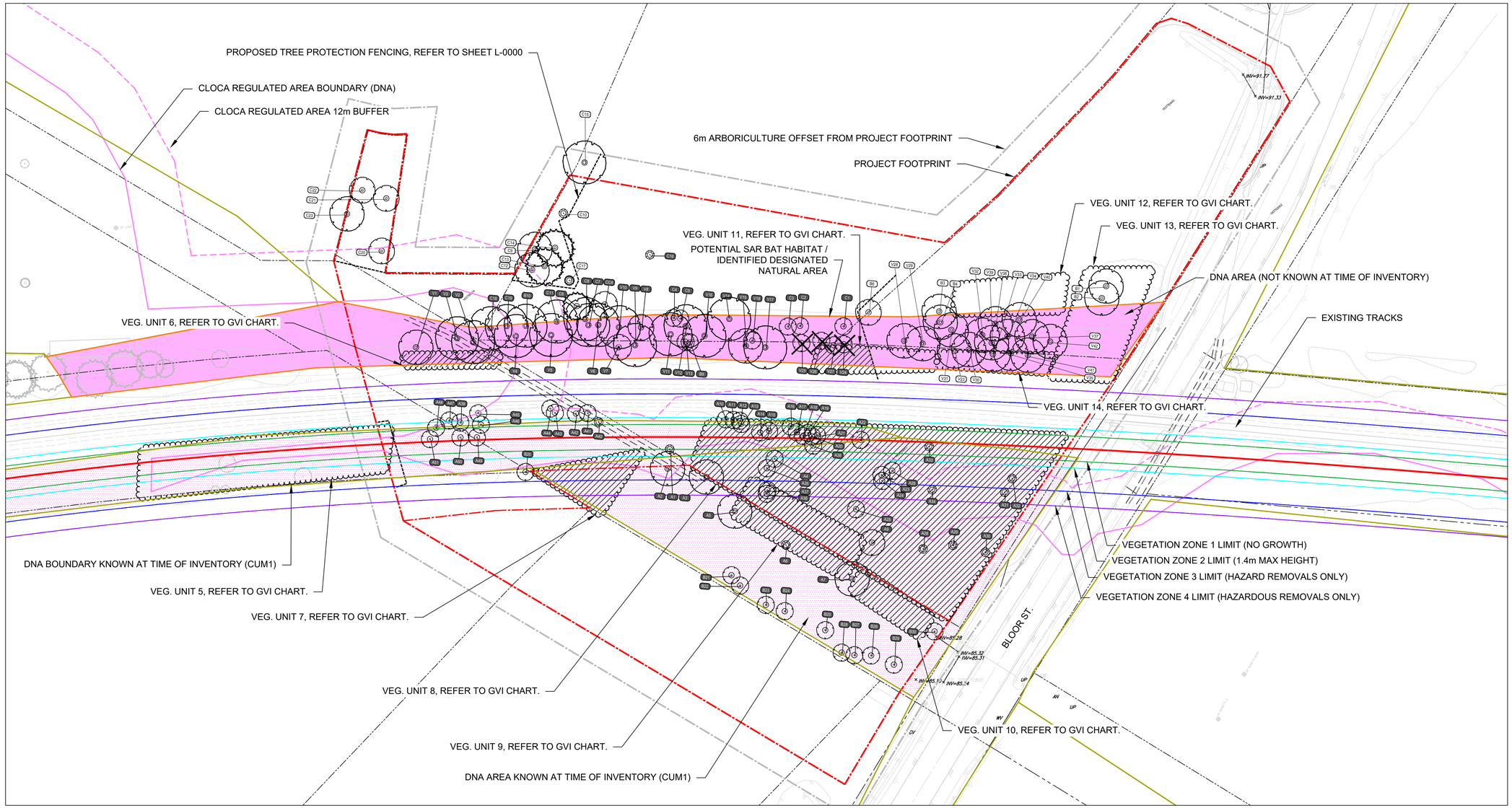

WINDOW 5

METROLINX PROJECT NO. 126701

REFERENCE DRAWINGS		ISSUE			REVISIONS		
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DWG NO.	TITLE	NO.	DATE	ISSUED FOR	REV.	DATE	

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BOWMANVILLE RAIL SERVICE EXTENSION
GRANDVIEW FEEDERMAIN AREA
TREE PRESERVATION AND REMOVAL PLAN

CONTRACT NO.	DWG. NO.	REV.	SHEET
RQQ-2017-CLE-010	L-3400	2	6

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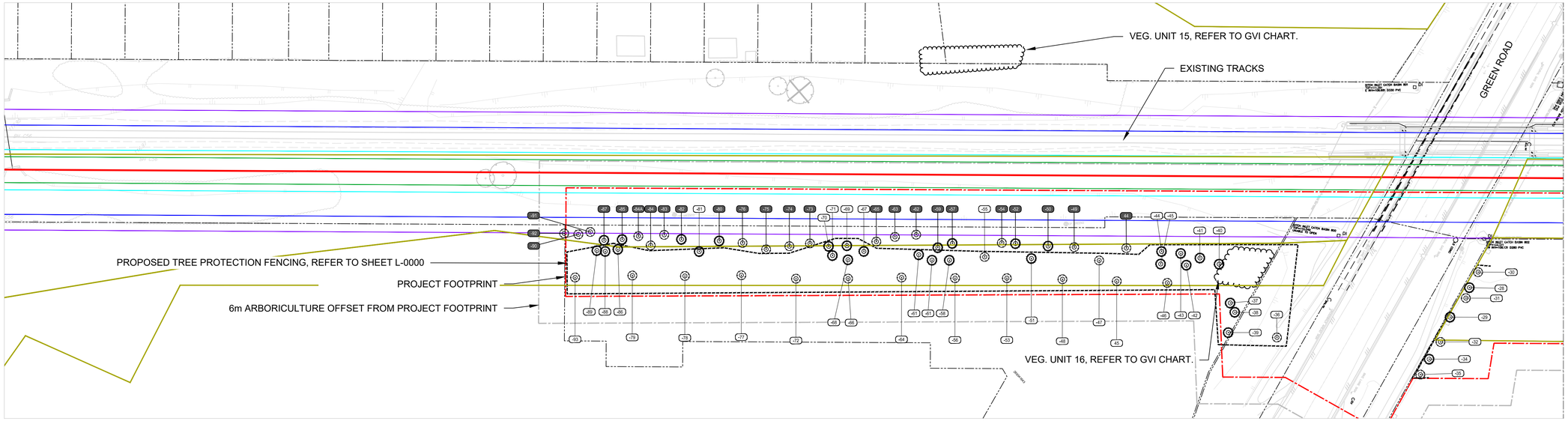
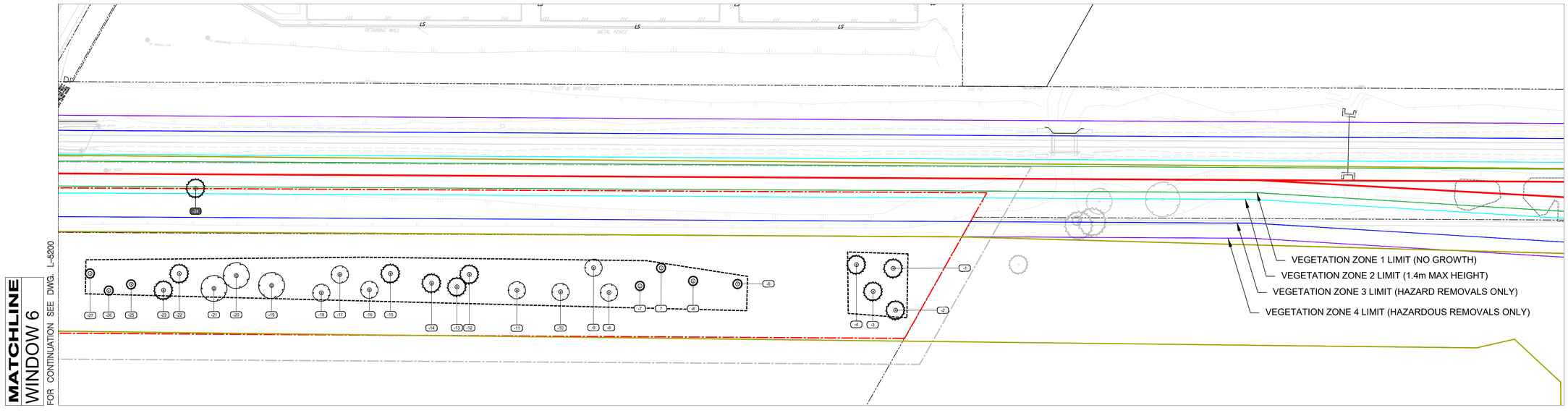


WINDOW 6



WINDOW 7

METROLINX PROJECT NO. 126701

REFERENCE DRAWINGS		ISSUE			REVISIONS		
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		1	24/10/28	EARLY WORKS SUBMISSION			
DWG NO.	TITLE	NO.	DATE	ISSUED FOR	REV.	DATE	

DRAWN BY: J.L. 25/11/07	DESIGNED BY: J.L. 25/11/07
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SCALE: 1:500	FULL SIZE ONLY
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BOWMANVILLE RAIL SERVICE EXTENSION

GREEN ROAD

TREE PRESERVATION AND REMOVAL PLAN

CONTRACT NO.	DWG. NO.	REV.	SHEET
RQQ-2017-CLE-010	L-5200	2	7

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Appendix B: Inventories

TABLE A Detailed Vegetation Inventory
Bowmanville Rail Service Extension - 500 Howard St., Wilson Rd., Farewell St. Grandview Feedermain Area, Green Rd.
Data Collected by Stantec: June 5 - 12, 2024, January 30, 2025, April 30 - May 12, 2025

| Tag # | Botanical Name | Common Name | Invasive, Pest or Disease Prone | Ownership | Boundary Tree | SAR Tree | Heritage / Memorial Tree | Municipality | Date Collected | DBH1 | DBH2 | DBH3 | DBH4 | DBH5 | Largest DBH | Total Number of Stems | Calculated DBH | Tree Protection Zone (m) | Dripline Radius (m) | Tree Height | 2025 Tree Condition (CP) | | | | | | | Tree Characteristics | | | | | | |

TABLE A Detailed Vegetation Inventory
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Tag #	Botanical Name	Common Name	Invasive, Pest or Disease Prone	Ownership	Boundary Tree	SAR Tree	Heritage / Memorial Tree	Municipality	Date Collected	DBH1	DBH2	DBH3	DBH4	DBH5	Largest DBH	Total Number of Stems	Calculated DBH	Tree Protection Zone (m)	Dripline Radius (m)	Tree Height	2025 Tree Condition (CP)						Condition (Municipality)	Hazard Tree	ELC Community	Risk	Comments	Tree Characteristics						Action	Removal/ Injury Justification	Within DNA	Permit Required	Pruning	Compensation Type	Compensation Trees	Conservation Authority Jurisdiction	Watershed	Subwatershed	TRCA L Ranking	Watershed	Subwatershed	Significant Tree	Biaculturally Significant Tree	Suggested Tree End Use	Lumber Quality	X Coordinate	Y Coordinate
																					Trunk Integrity	Crown Structure	Crown Vigour	Overall Condition	Dead Condition						Symptoms and Location	Causes	Structural Issues	Causes	Treatment	Lean Into Corridor	Treatments or Special Conditions	Location and Size Estimated																						
1	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																			
2	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
3	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
4	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
5	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
6	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
7	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
8	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
9	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
10	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
11	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
12	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
13	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
14	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
15	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
16	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
17	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
18	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
19	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
20	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
21	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
22	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
23	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
24	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
25	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
26	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
27	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
28	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
29	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
30	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
31	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
32	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
33	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
34	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
35	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
36	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
37	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
38	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
39	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
40	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
41	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
42	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
43	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
44	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
45	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
46	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
47	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
48	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
49	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
50	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
51	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
52	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
53	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
54	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
55	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
56	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
57	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
58	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
59	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
60	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
61	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
62	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
63	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
64	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
65	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
66	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
67	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
68	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
69	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
70	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
71	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
72	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
73	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
74	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
75	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
76	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
77	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
78	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
79	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
80	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
81	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
82	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
83	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
84	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
85	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
86	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
87	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
88	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
89	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
90	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
91	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
92	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
93	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
94	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
95	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
96	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
97	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
98	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
99	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
100	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
101	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
102	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
103	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
104	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
105	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
106	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
107	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
108	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
109	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
110	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
111	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
112	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
113	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
114	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4	6	3	3	3	3	3																																		
115	Acer saccharinum	Silver Maple		Public				Clarington	2025-01-30	10					10	1	10	1.2	2.4

TABLE A Woodland Inventory
Bowmanville Rail Service Extension - 500 Howard St., Wilson Rd., Farewell St. Grandview Feedermain Area, Green Rd.
Data Collected by Stantec: June 5 -12, 2024, January 30, 2025, April 30 - May 12, 2025

| Tag # | Botanical Name | Common Name | Invasive, Pest or Disease Prone | Ownership | Boundary Tree | SAR Tree | Heritage / Memorial Tree | Municipality | Date Collected | DBH1 | DBH2 | DBH3 | DBH4 | DBH5 | Largest DBH | Total Number of Stems | Calculated DBH | Tree Protection Zone (m) | Dripline Radius (m) | Tree Height | 2025 Tree Condition (CP) | | | | | Condition (Municipality) | Hazard Tree | ELC Community | Risk | Comments | Tree Characteristics | | | | | | Action | Removal/ Injury Justification | Within DNA | Permit Required | Pruning | Compensation Type | Compensation Trees | Conservation Authority Jurisdiction | Watershed | Subwatershed | TRCA 1 Ranking | Watershed | Subwatershed | Significant tree | Biocultturally Significant tree | Suggested tree End Use | Lumber Quality | X Coordinate | Y Coordinate |
|---|---|---

TABLE C **General Vegetation Inventory**
Bowmanville Rail Service Extension - 500 Howard St., Wilson Rd., Farewell St. Grandview Feedermain Area, Green Rd.
Data Collected by Stantec: June 5 - 12, 2024, January 30, 2025, April 30 - May 12, 2025

Vegetation Unit 1

Quantity	Botanical Name	Common Name	Invasive, Pest or Disease Prone	Ownership	Municipality	DBH Range	Tree Condition (CPKC)					Condition (Municipality)	Hazard Tree	ELC Community	Risk	Comments	Action	Removal/ Injury Justification	Within DNA	Permit Required	Pruning	Compensation Type	Compensation Trees	Conservation Authority Jurisdiction	Watershed	Subwatershed	SAR Habitat	Significant Tree	Bioculturally Significant Tree	Tree End Use	Lumber Suitability
							Trunk Integrity	Crown Structure	Crown Vigour	Overall Condition	Dead Condition																				
20	*Populus tremuloides*	Trembling Aspen	-	MX	Oshawa	1-10cm	Good	Good	Good	Good	-	Good	Improbable	-	Low		Protect - Hoarding		No	NA		-	-	CLOCA	Oshawa Creek	CLOCA Scientific Subwatershed	-	-	Yes	-	-

Vegetation Unit 2

Quantity	Botanical Name	Common Name	Invasive, Pest or Disease Prone	Ownership	Municipality	DBH Range	Tree Condition (CPKC)					Condition (Municipality)	Hazard Tree	ELC Community	Risk	Comments	Action	Removal/ Injury Justification	Within DNA	Permit Required	Pruning	Compensation Type	Compensation Trees	Conservation Authority Jurisdiction	Watershed	Subwatershed	SAR Habitat	Significant Tree	Bioculturally Significant Tree	Tree End Use	Lumber Suitability
							Trunk Integrity	Crown Structure	Crown Vigour	Overall Condition	Dead Condition																				
10	*Rhamnus cathartica*	European Buckthorn	Invasive	CPKC	Oshawa	1-10cm	Good	Good	Good	Good	-	Good	Improbable	FODM11	Low	-	Remove	Within Early Works Boundary	Yes	ESA	-	Ecological	10	CLOCA	Harmony Creek	CLOCA Scientific Subwatershed	Potential SAR Bat Habitat	-	-	Onsite Mulching / Chipping	-
5	*Fraxinus sp.*	Ash sp.	Pest & Disease Prone	CPKC	Oshawa	1-10cm	Dead	Dead	Dead	Dead	-	Dead	Improbable	FODM11	Low		Remove - Dead	Hazard	Yes	ESA		Ecological	5	CLOCA	Harmony Creek	CLOCA Scientific Subwatershed	Potential SAR Bat Habitat	-	Yes	-	-

Vegetation Unit 3

Quantity	Botanical Name	Common Name	Invasive, Pest or Disease Prone	Ownership	Municipality	DBH Range	Tree Condition (CPKC)					Condition (Municipality)	Hazard Tree	ELC Community	Risk	Comments	Action	Removal/ Injury Justification	Within DNA	Permit Required	Pruning	Compensation Type	Compensation Trees	Conservation Authority Jurisdiction	Watershed	Subwatershed	SAR Habitat	Significant Tree	Bioculturally Significant Tree	Tree End Use	Lumber Suitability
							Trunk Integrity	Crown Structure	Crown Vigour	Overall Condition	Dead Condition																				
6	*Prunus sp.*	Cherry sp.	-	CPKC	Oshawa	1-10cm	Good	Good	Good	Good	-	Good	Improbable		Low		Protect - Hoarding		No	NA		-	-	CLOCA	Harmony Creek	CLOCA Scientific Subwatershed	-	-	Yes	-	-

Vegetation Unit 4

Quantity	Botanical Name	Common Name	Invasive, Pest or Disease Prone	Ownership	Municipality	DBH Range	Tree Condition (CPKC)					Condition (Municipality)	Hazard Tree	ELC Community	Risk	Comments	Action	Removal/ Injury Justification	Within DNA	Permit Required	Pruning	Compensation Type	Compensation Trees	Conservation Authority Jurisdiction	Watershed	Subwatershed	SAR Habitat	Significant Tree	Bioculturally Significant Tree	Tree End Use	Lumber Suitability
							Trunk Integrity	Crown Structure	Crown Vigour	Overall Condition	Dead Condition																				
25	*Rhus typhina*	Stag-Horn Sumac	-	CPKC	Oshawa	1-10cm	Good	Good	Good	Good	-	Good	Improbable	FODM11	Low		Remove	Within Early Works Boundary	Yes	ESA		Ecological	25	CLOCA	Harmony Creek	CLOCA Scientific Subwatershed	Potential SAR Bat Habitat	-	Yes	Onsite Mulching / Chipping	-

Vegetation Unit 5

Quantity	Botanical Name	Common Name	Invasive, Pest or Disease Prone	Ownership	Municipality	DBH Range	Tree Condition (CPKC)					Condition (Municipality)	Hazard Tree	ELC Community	Risk	Comments	Action	Removal/ Injury Justification	Within DNA	Permit Required	Pruning	Compensation Type	Compensation Trees	Conservation Authority Jurisdiction	Watershed	Subwatershed	SAR Habitat	Significant Tree	Bioculturally Significant Tree	Tree End Use	Lumber Suitability
							Trunk Integrity	Crown Structure	Crown Vigour	Overall Condition	Dead Condition																				
50	*Salix sp.*	Willow sp.	-	CPKC	Oshawa	1-10cm	Good	Good	Good	Good	-	Good	Improbable	CUM1	Low	-	Protect - Hoarding	-	No	NA	-	-	-	CLOCA	Farewell Creek	CLOCA Scientific Subwatershed	-	-	-	Onsite Mulching / Chipping	-
50	*Viburnum sp.*	Viburnum sp.	-	CPKC	Oshawa	1-10cm	Good	Good	Good	Good	-	Good	Improbable	CUM1	Low	-	Protect - Hoarding	-	No	NA	-	-	-	CLOCA	Farewell Creek	CLOCA Scientific Subwatershed	-	-	-	Onsite Mulching / Chipping	-

Vegetation Unit 6

Quantity	Botanical Name	Common Name	Invasive, Pest or Disease Prone	Ownership	Municipality	DBH Range	Tree Condition (CPKC)					Condition (Municipality)	Hazard Tree	ELC Community	Risk	Comments	Action	Removal/ Injury Justification	Within DNA	Permit Required	Pruning	Compensation Type	Compensation Trees	Conservation Authority Jurisdiction	Watershed	Subwatershed	SAR Habitat	Significant Tree	Bioculturally Significant Tree	Tree End Use	Lumber Suitability
							Trunk Integrity	Crown Structure	Crown Vigour	Overall Condition	Dead Condition																				
15	*Acer negundo*	Manitoba Maple	Invasive	CPKC	Oshawa	1-10cm	Good	Good	Good	Good	-	Good	Improbable	FODM11	Low		Remove	Within Early Works Boundary	Yes	ESA	-	Ecological	15	CLOCA	Farewell Creek	CLOCA Scientific Subwatershed	Potential SAR Bat Habitat	-	-	Onsite Mulching / Chipping	-

Vegetation Unit 7

Quantity	Botanical Name	Common Name	Invasive, Pest or Disease Prone	Ownership	Municipality	DBH Range	Tree Condition (CPKC)					Condition (Municipality)	Hazard Tree	ELC Community	Risk	Comments	Action	Removal/ Injury Justification	Within DNA	Permit Required	Pruning	Compensation Type	Compensation Trees	Conservation Authority Jurisdiction	Watershed	Subwatershed	SAR Habitat	Significant Tree	Bioculturally Significant Tree	Tree End Use	Lumber Suitability
							Trunk Integrity	Crown Structure	Crown Vigour	Overall Condition	Dead Condition																				
10	*Acer negundo*	Manitoba Maple	Invasive	CPKC	Oshawa	1-10cm	Good	Good	Good	Good	-	Good	Improbable	CUM1	Low	-	Remove	Within Early Works Boundary	Yes	No	-	Ecological	10	CLOCA	Farewell Creek	CLOCA Scientific Subwatershed	-	-	-	Onsite Mulching / Chipping	-
10	*Salix sp.*	Willow sp.	-	CPKC	Oshawa	1-10cm	Good	Good	Good	Good	-	Good	Improbable	CUM1	Low	-	Remove	Within Early Works Boundary	Yes	No	-	Ecological	10	CLOCA	Farewell Creek	CLOCA Scientific Subwatershed	-	-	-	Onsite Mulching / Chipping	-

Vegetation Unit 8

Quantity	Botanical Name	Common Name	Invasive, Pest or Disease Prone	Ownership	Municipality	DBH Range	Tree Condition (CPKC)					Condition (Municipality)	Hazard Tree	ELC Community	Risk	Comments	Action	Removal/ Injury Justification	Within DNA	Permit Required	Pruning	Compensation Type	Compensation Trees	Conservation Authority Jurisdiction	Watershed	Subwatershed	SAR Habitat	Significant Tree	Bioculturally Significant Tree	Tree End Use	Lumber Suitability
							Trunk Integrity	Crown Structure	Crown Vigour	Overall Condition	Dead Condition																				
50	*Rhamnus cathartica*	European Buckthorn	Invasive	CPKC	Oshawa	1-10cm	Good	Good	Good	Good	-	Good	Improbable	CUM1	Low	-	Remove	Within Early Works Boundary	Yes	No	-	Ecological	50	CLOCA	Farewell Creek	CLOCA Scientific Subwatershed	-	-	-	Onsite Mulching / Chipping	-
25	*Salix sp.*	Willow sp.	-	CPKC	Oshawa	1-10cm	Good	Good	Good	Good	-	Good	Improbable	CUM1	Low	-	Remove	Within Early Works Boundary	Yes	No	-	Ecological	25	CLOCA	Farewell Creek	CLOCA Scientific Subwatershed	-	-	-	Onsite Mulching / Chipping	-

Vegetation Unit 9

Quantity	Botanical Name	Common Name	Invasive, Pest or Disease Prone	Ownership	Municipality	DBH Range	Tree Condition (CPKC)					Condition (Municipality)	Hazard Tree	ELC Community	Risk	Comments	Action	Removal/ Injury Justification	Within DNA	Permit Required	Pruning	Compensation Type	Compensation Trees	Conservation Authority Jurisdiction	Watershed	Subwatershed	SAR Habitat	Significant Tree	Bioculturally Significant Tree	Tree End Use	Lumber Suitability
							Trunk Integrity	Crown Structure	Crown Vigour	Overall Condition	Dead Condition																				
30	*Rhamnus cathartica*	European Buckthorn	Invasive	CPKC	Oshawa	1-10cm	Good	Good	Good	Good	-	Good	Improbable	CUM1	Low	-	Remove	Within Early Works Boundary	Yes	No	-	Ecological	30	CLOCA	Farewell Creek	CLOCA Scientific Subwatershed	-	-	-	Onsite Mulching / Chipping	-
30	*Salix sp.*	Willow sp.	-	CPKC	Oshawa	1-10cm	Good	Good	Good	Good	-	Good	Improbable	CUM1	Low	-	Remove	Within Early Works Boundary	Yes	No	-	Ecological	30	CLOCA	Farewell Creek	CLOCA Scientific Subwatershed	-	-	-	Onsite Mulching / Chipping	-

Vegetation Unit 10

Quantity	Botanical Name	Common Name	Invasive, Pest or Disease Prone	Ownership	Municipality	DBH Range	Tree Condition (CPKC)					Condition (Municipality)	Hazard Tree	ELC Community	Risk	Comments	Action	Removal/ Injury Justification	Within DNA	Permit Required	Pruning	Compensation Type	Compensation Trees	Conservation Authority Jurisdiction	Watershed	Subwatershed	SAR Habitat	Significant Tree	Bioculturally Significant Tree	Tree End Use	Lumber Suitability
							Trunk Integrity	Crown Structure	Crown Vigour	Overall Condition	Dead Condition																				
10	*Rhus typhina*	Stag-Horn Sumac	-	CPKC	Oshawa	1-10cm	Good	Good	Good	Good	-	Good	Improbable	CUM1	Low	-	Remove	Within Early Works Boundary	Yes	No	-	Ecological	10	CLOCA	Farewell Creek	CLOCA Scientific Subwatershed	-	-	-	Onsite Mulching / Chipping	-
10	*Salix sp.*	Willow sp.	-	CPKC	Oshawa	1-10cm	Good	Good	Good	Good	-	Good	Improbable	CUM1	Low	-	Remove	Within Early Works Boundary	Yes	No	-	Ecological	10	CLOCA	Farewell Creek	CLOCA Scientific Subwatershed	-	-	-	Onsite Mulching / Chipping	-

Vegetation Unit 11

Quantity	Botanical Name	Common Name	Invasive, Pest or Disease Prone	Ownership	Municipality	DBH Range	Tree Condition (CPKC)					Condition (Municipality)	Hazard Tree	ELC Community	Risk	Comments	Action	Removal/ Injury Justification	Within DNA	Permit Required	Pruning	Compensation Type	Compensation Trees	Conservation Authority Jurisdiction	Watershed	Subwatershed	SAR Habitat	Significant Tree	Bioculturally Significant Tree	Tree End Use	Lumber Suitability
							Trunk Integrity	Crown Structure	Crown Vigour	Overall Condition	Dead Condition																				
5	*Rhus typhina*	Stag-Horn Sumac	-	CPKC	Oshawa	1-10cm	Good	Good	Good	Good	-	Good	Improbable	FODM11	Low		Protect - Hoarding		No	NA				CLOCA	Farewell Creek	CLOCA Scientific Subwatershed	Potential SAR Bat Habitat	-	Yes	-	-
10	*Rhamnus cathartica*	European Buckthorn	Invasive	CPKC	Oshawa	1-10cm	Good	Good	Good	Good	-	Good	Improbable	FODM11	Low	-	Protect - Hoarding		No	NA	-	-	-	CLOCA	Farewell Creek	CLOCA Scientific Subwatershed	Potential SAR Bat Habitat	-	-	-	-
5	*Rhus typhina*	Stag-Horn Sumac	-	CPKC	Oshawa	1-10cm	Good	Good	Good	Good	-	Good	Improbable	FODM11	Low		Remove	Within Early Works Boundary	No	No	-	Ecological	5	CLOCA	Farewell Creek	CLOCA Scientific Subwatershed	Potential SAR Bat Habitat	-	Yes	Onsite Mulching / Chipping	-
10	*Rhamnus cathartica*	European Buckthorn	Invasive	CPKC	Oshawa	1-10cm	Good	Good	Good	Good	-	Good	Improbable	FODM11	Low	-	Remove	Within Early Works Boundary	No	No	-	Ecological	10	CLOCA	Farewell Creek	CLOCA Scientific Subwatershed	Potential SAR Bat Habitat	-	-	Onsite Mulching / Chipping	-

Vegetation Unit 12

Quantity	Botanical Name	Common Name	Invasive, Pest or Disease Prone	Ownership	Municipality	DBH Range	Tree Condition (CPKC)					Condition (Municipality)	Hazard Tree	ELC Community	Risk	Comments	Action	Removal/ Injury Justification	Within DNA	Permit Required	Pruning	Compensation Type	Compensation Trees	Conservation Authority Jurisdiction	Watershed	Subwatershed	SAR Habitat	Significant Tree	Bioculturally Significant Tree	Tree End Use	Lumber Suitability
							Trunk Integrity	Crown Structure	Crown Vigour	Overall Condition	Dead Condition																				
10	*Populus tremuloides*	Trembling Aspen	-	CPKC	Oshawa	1-10cm	Good	Good	Good	Good	-	Good	Improbable	DEV	Low		Protect - Hoarding		No	NA				CLOCA	Farewell Creek	CLOCA Scientific Subwatershed	-	-	Yes	-	-

Vegetation Unit 13

Quantity	Botanical Name	Common Name	Invasive, Pest or Disease Prone	Ownership	Municipality	DBH Range	Tree Condition (CPKC)					Condition (Municipality)	Hazard Tree	ELC Community	Risk	Comments	Action	Removal/ Injury Justification	Within DNA	Permit Required	Pruning	Compensation Type	Compensation Trees	Conservation Authority Jurisdiction	Watershed	Subwatershed	SAR Habitat	Significant Tree	Bioculturally Significant Tree	Tree End Use	Lumber Suitability
							Trunk Integrity	Crown Structure	Crown Vigour	Overall Condition	Dead Condition																				
10	*Acer negundo*	Manitoba Maple	Invasive	CPKC	Oshawa	1-10cm	Good	Good	Good	Good	-	Good	Improbable	FODM11	Low	-	Protect - Hoarding	-	No	NA	-	-	-	CLOCA	Farewell Creek	CLOCA Scientific Subwatershed	Potential SAR Bat Habitat	-	-	-	-
50	*Populus tremuloides*	Trembling Aspen	-	CPKC	Oshawa	1-10cm	Good	Good	Good	Good	-	Good	Improbable	FODM11	Low		Protect - Hoarding		No	NA				CLOCA	Farewell Creek	CLOCA Scientific Subwatershed	Potential SAR Bat Habitat	-	Yes	-	-

Vegetation Unit 14

Quantity	Botanical Name	Common Name	Invasive, Pest or Disease Prone	Ownership	Municipality	DBH Range	Tree Condition (CPKC)					Condition (Municipality)	Hazard Tree	ELC Community	Risk	Comments	Action	Removal/ Injury Justification	Within DNA	Permit Required	Pruning	Compensation Type	Compensation Trees	Conservation Authority Jurisdiction	Watershed	Subwatershed	SAR Habitat	Significant Tree	Bioculturally Significant Tree	Tree End Use	Lumber Suitability
							Trunk Integrity	Crown Structure	Crown Vigour	Overall Condition	Dead Condition																				
10	*Acer negundo*	Manitoba Maple	Invasive	CPKC	Oshawa	1-10cm	Good	Good	Good	Good	-	Good	Improbable	FODM11	Low	-	Protect - Hoarding	-	No	NA	-	-	-	CLOCA	Farewell Creek	CLOCA Scientific Subwatershed	Potential SAR Bat Habitat	-	-	-	-
40	*Populus tremuloides*	Trembling Aspen	-	CPKC	Oshawa	1-10cm	Good	Good	Good	Good	-	Good	Improbable	FODM11	Low		Protect - Hoarding		No	NA				CLOCA	Farewell Creek	CLOCA Scientific Subwatershed	Potential SAR Bat Habitat	-	Yes	-	-

Vegetation Unit 15

Quantity	Botanical Name	Common Name	Invasive, Pest or Disease Prone	Ownership	Municipality	DBH Range	Tree Condition (CPKC)					Condition (Municipality)	Hazard Tree	ELC Community	Risk	Comments	Action	Removal/ Injury Justification	Within DNA	Permit Required	Pruning	Compensation Type	Compensation Trees	Conservation Authority Jurisdiction	Watershed	Subwatershed	SAR Habitat	Significant Tree	Bioculturally Significant Tree	Tree End Use	Lumber Suitability
							Trunk Integrity	Crown Structure	Crown Vigour	Overall Condition	Dead Condition																				
12	*Thuja occidentalis*	Eastern White Cedar	-	CPKC	Clarington	1-10cm	Good	Good	Good	Good	-	Good	Improbable		Low		Protect - No Hoarding		No	NA				CLOCA	Westside Creek	CLOCA Scientific Subwatershed	-	-	-	Yes	-	-

Vegetation Unit 16

Quantity	Botanical Name	Common Name	Invasive, Pest or Disease Prone	Ownership	Municipality	DBH Range	Tree Condition (CPKC)					Condition (Municipality)	Hazard Tree	ELC Community	Risk	Comments	Action	Removal/ Injury Justification	Within DNA	Permit Required	Pruning	Compensation Type	Compensation Trees	Conservation Authority Jurisdiction	Watershed	Subwatershed	SAR Habitat	Significant Tree	Bioculturally Significant Tree	Tree End Use	Lumber Suitability
							Trunk Integrity	Crown Structure	Crown Vigour	Overall Condition	Dead Condition																				
7	*Syringa sp.*	Lilac sp.	-	CPKC	Clarington	1-10cm	Good	Good	Good	Good	-	Good	Improbable	LAWN	Low	-	Protect - Hoarding	-	No	NA	-	-	-	CLOCA	Westside Creek	CLOCA Scientific Subwatershed	-	-	-	-	-

Table C Tree Totals (GVI Only)

1.1 GVI Tree Recommendations (as referenced within Section 3.2 of the report)

Protect - Hoarding:	288
Protect - No Hoarding:	12
Remove - Dead:	5
Remove:	240
GVI Total Stem Count (excludes DVI):	**545**

2.1 GVI Removals by Permit (as referenced within Section 4.1 of the report)

GVI Stems Removed within Potential SAR Bat Habitat Area:	50
GVI Dead Stems Removed within Potential SAR Bat Habitat Area:	5
Total GVI Stems Requiring Permits (excludes DVI):	**55**

3.1 GVI Total Compensation Required (as referenced within Section 4.1 of the report)

Baseline Compensation Total (GVI):	0
Bylaw GVI Compensation Total (3:1):	0
Ecological Compensation Total (GVI):	245
Total GVI Compensation Required (Qty. of Stems; excludes DVI):	**245**

Appendix C: Photos

Stantec

Client: Bowmanville Rail Service Extension Site: 500 Howard Street Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
H18	Acer negundo [Manitoba Maple]	18	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
1323	Acer negundo [Manitoba Maple]	35 32	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
1324	Acer negundo [Manitoba Maple]	18	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
1325	Acer negundo [Manitoba Maple]	25 21 18	Good	Photo missing because no clear line of site or not available from a safe location.

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Client: Bowmanville Rail Service Extension Site: 500 Howard Street Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
1326	Acer negundo [Manitoba Maple]	16 10	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
H20	Acer negundo [Manitoba Maple]	25	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
H21	Acer negundo [Manitoba Maple]	25	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
H22	Acer negundo [Manitoba Maple]	25	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
H23	Acer negundo [Manitoba Maple]	10	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
H24	Acer negundo [Manitoba Maple]	21	Good	Photo missing because no clear line of site or not available from a safe location.

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Client: Bowmanville Rail Service Extension Site: 500 Howard Street Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
H25	Rhamnus cathartica [Common Buckthorn]	15	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
H26	Acer negundo [Manitoba Maple]	27	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
H27	Fraxinus sp. [Ash sp.]	21	Poor	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
H28	Fraxinus sp. [Ash sp.]	21	Poor	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
H29	Acer negundo [Manitoba Maple]	27	Good	

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Client: Bowmanville Rail Service Extension Site: 500 Howard Street Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
HH30	Acer negundo [Manitoba Maple]	27 24	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
1327	Juglans nigra [Black Walnut]	15 18 20 12	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
H320	Juglans nigra [Black Walnut]	24 12	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
1328	Juglans nigra [Black Walnut]	24 12	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
1329	Juglans nigra [Black Walnut]	24	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
H30	Juglans nigra [Black Walnut]	29	Good	Photo missing because no clear line of site or not available from a safe location.

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Client: Bowmanville Rail Service Extension Site: 500 Howard Street Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
H31	Acer platanoides [Norway Maple]	29 18	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
H32	Juglans nigra [Black Walnut]	29	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
1330	Acer negundo [Manitoba Maple]	27	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
HH32	Acer negundo [Manitoba Maple]	27	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
H33	Acer negundo [Manitoba Maple]	27	Good	Photo missing because no clear line of site or not available from a safe location.

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Client: Bowmanville Rail Service Extension Site: 500 Howard Street Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
T1	Gleditsia triacanthos [Honey-locust]	24	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
T3	Gleditsia triacanthos [Honey-locust]	22	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
T4	Gleditsia triacanthos [Honey-locust]	22	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
T5	Acer platanoides [Norway Maple]	22	Good	Photo missing because no clear line of site or not available from a safe location.

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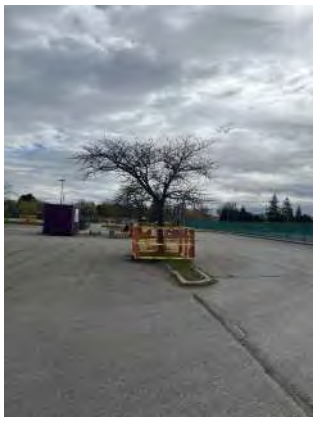
Client: Bowmanville Rail Service Extension Site: 500 Howard Street Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
T6	Acer platanoides [Norway Maple]	22	Poor	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
T7	Gleditsia triacanthos [Honey-locust]	22	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
T8	Gleditsia triacanthos [Honey-locust]	22	Good	

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Client: Bowmanville Rail Service Extension Site: 500 Howard Street Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
T9	Gleditsia triacanthos [Honey-locust]	22	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
T10	Gleditsia triacanthos [Honey-locust]	22	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
T11	Gleditsia triacanthos [Honey-locust]	26	Good	

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Client: Bowmanville Rail Service Extension Site: 500 Howard Street Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
T13	Gleditsia triacanthos [Honey-locust]	22	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
T14	Acer platanoides [Norway Maple]	22	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
T14	Gleditsia triacanthos [Honey-locust]	22	Good	

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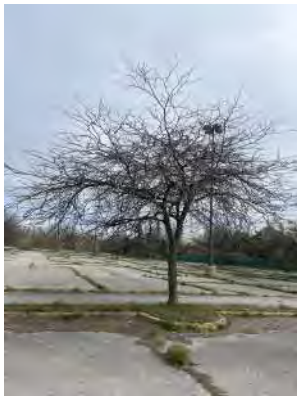
Client: Bowmanville Rail Service Extension Site: 500 Howard Street Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
T16	Gleditsia triacanthos [Honey-locust]	22	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
T17	Gleditsia triacanthos [Honey-locust]	22	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
T18	Gleditsia triacanthos [Honey-locust]	22	Good	

Stantec

Client: Bowmanville Rail Service Extension Site: 500 Howard Street Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
T19	Gleditsia triacanthos [Honey-locust]	25	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
T20	Gleditsia triacanthos [Honey-locust]	20	Good	

Stantec

Client: Bowmanville Rail Service Extension Site: 500 Howard Street Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
T25	Gleditsia triacanthos [Honey-locust]	22	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
T26	Gleditsia triacanthos [Honey-locust]	22	Good	

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Client: Bowmanville Rail Service Extension Site: 500 Howard Street Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
T27	Gleditsia triacanthos [Honey-locust]	20	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
T28	Gleditsia triacanthos [Honey-locust]	31	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
T29	Acer platanoides [Norway Maple]	27	Fair	

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Client: Bowmanville Rail Service Extension Site: 500 Howard Street Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
T30	Acer platanoides [Norway Maple]	27	Poor	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
T32	Ulmus pumila [Siberian Elm]	27	Good	Photo missing because no clear line of site or not available from a safe location.
T35	Gleditsia tricanthos [Honey- Locust]	22	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
T36	Gleditsia triacanthos [Honey-locust]	28	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**

Tt36	Ulmus pumila [Siberian Elm]	15 10	Good	

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Client: Bowmanville Rail Service Extension Site: 500 Howard Street Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
T37	Ulmus pumila [Siberian Elm]	15 10	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
T38	Fraxinus sp. [Ash sp.]	15 10	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
T39	Fraxinus sp. [Ash sp.]	15 10	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
T40	Ulmus pumila [Siberian Elm]	15 10	Good	Photo missing because no clear line of site or not available from a safe location.

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Client: Bowmanville Rail Service Extension Site: 500 Howard Street Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
T41	Ulmus pumila [Siberian Elm]	15 10	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
T42	Ulmus pumila [Siberian Elm]	15 10	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
T43	Ulmus pumila [Siberian Elm]	15	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
T47	Ulmus pumila [Siberian Elm]	15 10 11 12	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
T48	Ulmus pumila [Siberian Elm]	15 10	Good	Photo missing because no clear line of site or not available from a safe location.

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Client: Bowmanville Rail Service Extension Site: 500 Howard Street Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
T49	Ulmus pumila [Siberian Elm]	15 10 11	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
T50	Ulmus pumila [Siberian Elm]	25	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
T51	Acer negundo [Manitoba Maple]	25	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
T52	Ulmus pumila [Siberian Elm]	25	Good	Photo missing because no clear line of site or not available from a safe location.

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Client: Bowmanville Rail Service Extension Site: 500 Howard Street Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
T53	Acer negundo [Manitoba Maple]	36 22	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
T57	Fraxinus sp. [Ash sp.]	25	Dead	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
T58	Fraxinus sp. [Ash sp.]	25	Dead	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
T59	Fraxinus sp. [Ash sp.]	25	Dead	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
T60	Fraxinus sp. [Ash sp.]	25	Dead	Photo missing because no clear line of site or not available from a safe location.

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Client: Bowmanville Rail Service Extension Site: 500 Howard Street Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
T130	Acer negundo [Manitoba Maple]	16	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
T138	Acer platanoides [Norway Maple]	27	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
TT5	Acer platanoides [Norway Maple]	22	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
U15	Acer x freemanii [(Acer rubrum X Acer saccharinum)]	16 10 11	Good	

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Client: Bowmanville Rail Service Extension Site: 500 Howard Street Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
U16	Acer x freemanii [(Acer rubrum X Acer saccharinum)]	16 10 11	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
U29	Acer negundo [Manitoba Maple]	5 5 5 5 6	Fair	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
U30	Acer negundo [Manitoba Maple]	5 5	Fair	

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Client: Bowmanville Rail Service Extension Site: Wilson Road Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
706	Juglans nigra [Black Walnut]	28	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
752	Juglans nigra [Black Walnut]	22	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
755	Juglans nigra [Black Walnut]	37	Good	Photo missing because no clear line of site or not available from a safe location.

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Client: Bowmanville Rail Service Extension Site: Wilson Road Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
762	Juglans nigra [Black Walnut]	33	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
765	Juglans nigra [Black Walnut]	33	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
772	Juglans nigra [Black Walnut]	33	Good	

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Client: Bowmanville Rail Service Extension Site: Wilson Road Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
771	Juglans nigra [Black Walnut]	40	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
770	Juglans nigra [Black Walnut]	23	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
754	Juglans nigra [Black Walnut]	31	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
773	Juglans nigra [Black Walnut]	21	Good	Photo missing because no clear line of site or not available from a safe location.

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Client: Bowmanville Rail Service Extension Site: Wilson Road Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
775	Acer negundo [Manitoba Maple]	21	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
-775	Acer negundo [Manitoba Maple]	21	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
-776	Acer negundo [Manitoba Maple]	21 18 16	Dead	

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Client: Bowmanville Rail Service Extension Site: Wilson Road Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
776	Acer negundo [Manitoba Maple]	21 18 16	Fair	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
777	Acer negundo [Manitoba Maple]	8 9 10	Fair	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
-777	Acer negundo [Manitoba Maple]	8	Fair	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
-778	Acer negundo [Manitoba Maple]	16	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
779	Juglans nigra [Black Walnut]	21	Good	

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Client: Bowmanville Rail Service Extension Site: Wilson Road Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
-758	Acer negundo [Manitoba Maple]	7 5 7 5	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
-779	Acer negundo [Manitoba Maple]	16	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
780	Acer negundo [Manitoba Maple]	21	Good	Photo missing because no clear line of site or not available from a safe location.

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Client: Bowmanville Rail Service Extension Site: Wilson Road Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
781	Acer negundo [Manitoba Maple]	21	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
782	Acer negundo [Manitoba Maple]	21 22	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
783	Acer negundo [Manitoba Maple]	21 22 27	Good	

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Client: Bowmanville Rail Service Extension Site: Wilson Road Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
784	Juglans nigra [Black Walnut]	21	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
-784	Acer negundo [Manitoba Maple]	21	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
785	Juglans nigra [Black Walnut]	21	Good	Photo missing because no clear line of site or not available from a safe location.

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Client: Bowmanville Rail Service Extension Site: Wilson Road Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
-785	Acer negundo [Manitoba Maple]	21 19 23 11	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
787	Acer negundo [Manitoba Maple]	21 19	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
786	Acer negundo [Manitoba Maple]	21 19	Good	Photo missing because no clear line of site or not available from a safe location.

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Client: Bowmanville Rail Service Extension Site: Wilson Road Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
788	Salix sp. [Willow sp.]	21 19 22 23	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
-788	Salix sp. [Willow sp.]	31	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
-789	Salix sp. [Willow sp.]	31	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
-790	Fraxinus sp. [Ash sp.]	16	Dead	Photo missing because no clear line of site or not available from a safe location.

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Client: Bowmanville Rail Service Extension Site: Wilson Road Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
-791	Fraxinus sp. [Ash sp.]	16	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
789	Malus sp. [Apple sp.]	16 10	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
1138	Juglans nigra [Black Walnut]	27 10	Good	

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Client: Bowmanville Rail Service Extension Site: Wilson Road Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
-792	Acer negundo [Manitoba Maple]	27 10	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
-799	Prunus serotina [Wild Black Cherry]	33	Good	

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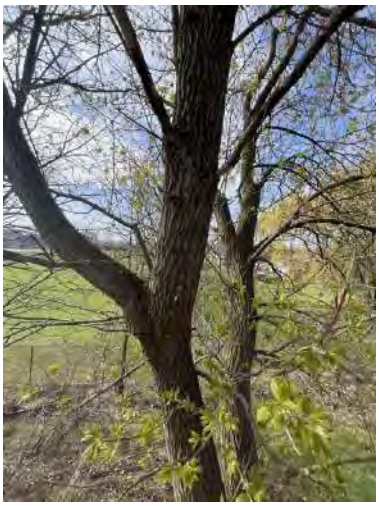
Client: Bowmanville Rail Service Extension Site: Wilson Road Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
790	Juglans nigra [Black Walnut]	2	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
1119	Acer negundo [Manitoba Maple]	27 26 27	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
-1120	Juglans nigra [Black Walnut]	20	Good	Photo missing because no clear line of site or not available from a safe location.

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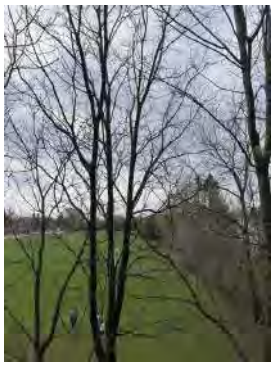
Client: Bowmanville Rail Service Extension Site: Wilson Road Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
-1121	Juglans nigra [Black Walnut]	20	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
-1122	Juglans nigra [Black Walnut]	34	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
-1123	Juglans nigra [Black Walnut]	22	Good	

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Client: Bowmanville Rail Service Extension Site: Wilson Road Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
-1125	Juglans nigra [Black Walnut]	22 15 13 19	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
791	Juglans nigra [Black Walnut]	22 15 13 19	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
1122	Juglans nigra [Black Walnut]	22	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
-1124	Juglans nigra [Black Walnut]	22	Good	Photo missing because no clear line of site or not available from a safe location.

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Client: Bowmanville Rail Service Extension Site: Wilson Road Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
-1126	Juglans nigra [Black Walnut]	15	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
792	Juglans nigra [Black Walnut]	15	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
1124	Juglans nigra [Black Walnut]	15	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
793	Juglans nigra [Black Walnut]	15	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
794	Juglans nigra [Black Walnut]	15	Good	Photo missing because no clear line of site or not available from a safe location.

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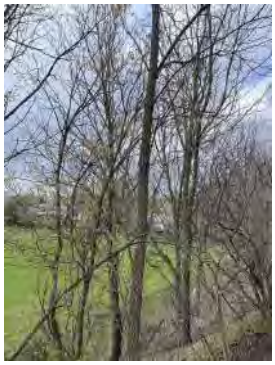
Client: Bowmanville Rail Service Extension Site: Wilson Road Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
795A	Juglans nigra [Black Walnut]	15	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
795	Juglans nigra [Black Walnut]	36	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
-796	Juglans nigra [Black Walnut]	15	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
797A	Acer negundo [Manitoba Maple]	15	Good	Photo missing because no clear line of site or not available from a safe location.

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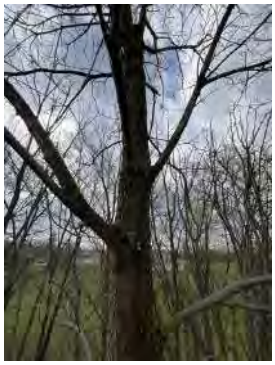
Client: Bowmanville Rail Service Extension Site: Wilson Road Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
-797	Acer negundo [Manitoba Maple]	15	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
-798	Juglans nigra [Black Walnut]	15	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
796	Juglans nigra [Black Walnut]	33	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
-798	Juglans nigra [Black Walnut]	21	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
799A	Juglans nigra [Black Walnut]	21	Good	Photo missing because no clear line of site or not available from a safe location.

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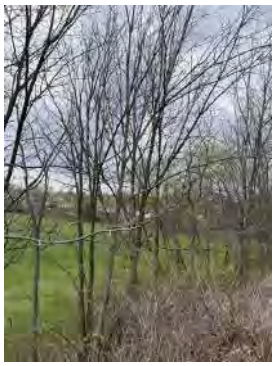
Client: Bowmanville Rail Service Extension Site: Wilson Road Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
-800	Juglans nigra [Black Walnut]	8	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
-801	Juglans nigra [Black Walnut]	21	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
802	Juglans nigra [Black Walnut]	19	Good	

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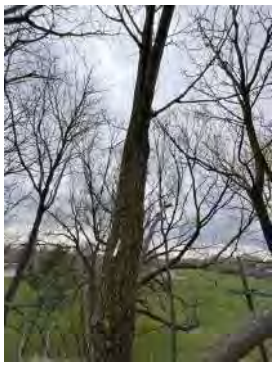
Client: Bowmanville Rail Service Extension Site: Wilson Road Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
-802	Juniperus virginiana [Eastern Red Cedar]	19 33	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
-1116	Juglans nigra [Black Walnut]	27	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
1116A	Juglans nigra [Black Walnut]	20	Good	

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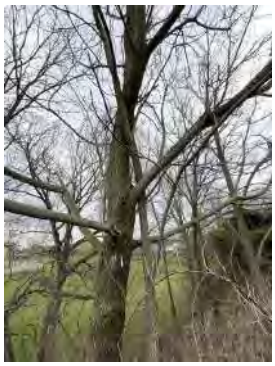
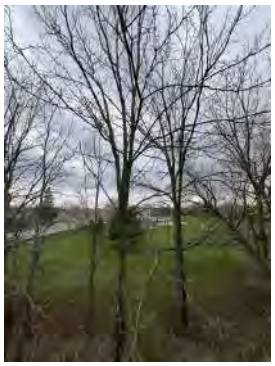
Client: Bowmanville Rail Service Extension Site: Wilson Road Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
116	Juglans nigra [Black Walnut]	27	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
-1117	Juglans nigra [Black Walnut]	27	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
797	Juglans nigra [Black Walnut]	27	Good	

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Client: Bowmanville Rail Service Extension Site: Wilson Road Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
798	Juglans nigra [Black Walnut]	20	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
-805	Acer negundo [Manitoba Maple]	33 33 40 24	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
799	Acer negundo [Manitoba Maple]	21 15 11 24	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
800	Acer negundo [Manitoba Maple]	21	Good	

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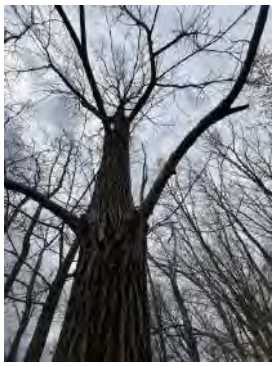
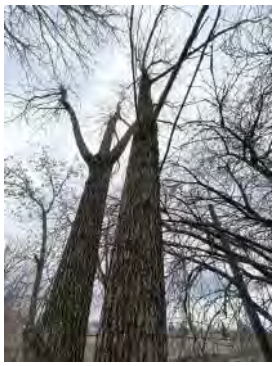
Client: Bowmanville Rail Service Extension Site: Wilson Road Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
726	Juglans nigra [Black Walnut]	29	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
728	Juglans nigra [Black Walnut]	29 12 18	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
727	Juglans nigra [Black Walnut]	19 12	Good	

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Client: Bowmanville Rail Service Extension Site: Wilson Road Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
-728	Acer negundo [Manitoba Maple]	16	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
-729	Acer negundo [Manitoba Maple]	16	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
729A	Malus sp. [Apple sp.]	27 21 19	Good	

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Client: Bowmanville Rail Service Extension Site: Wilson Road Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
1	Robinia pseudoacacia [Black Locust]	10	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
1A	Robinia pseudoacacia [Black Locust]	10	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
-811	Robinia pseudoacacia [Black Locust]	10	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
-812	Robinia pseudoacacia [Black Locust]	10	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
-813	Robinia pseudoacacia [Black Locust]	5	Good	Photo missing because no clear line of site or not available from a safe location.

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Client: Bowmanville Rail Service Extension Site: Wilson Road Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
-814	Robinia pseudoacacia [Black Locust]	5	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
-815	Robinia pseudoacacia [Black Locust]	5	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
-816	Robinia pseudoacacia [Black Locust]	10	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
729	Robinia pseudoacacia [Black Locust]	16 19	Fair	Photo missing because no clear line of site or not available from a safe location.

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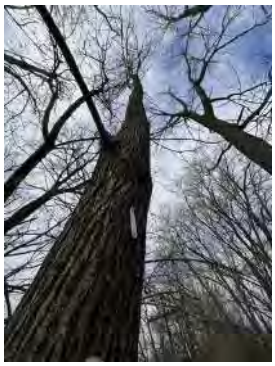
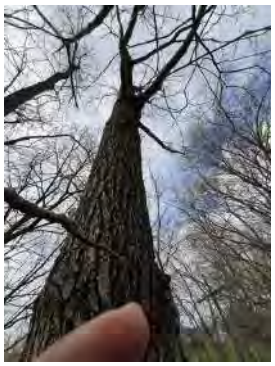
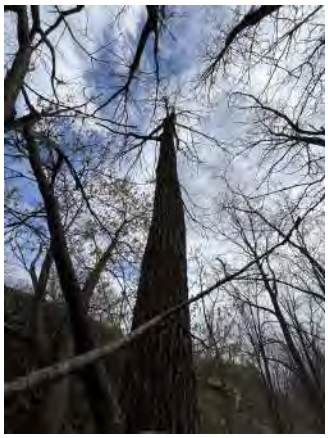
Client: Bowmanville Rail Service Extension Site: Wilson Road Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
1105	Juglans nigra [Black Walnut]	24	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
730	Juglans nigra [Black Walnut]	29	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
731A	Juglans nigra [Black Walnut]	29	Good	

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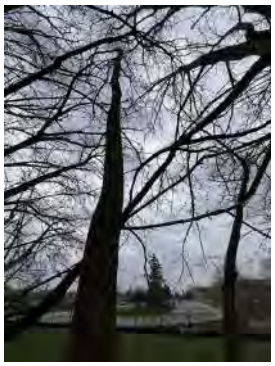
Client: Bowmanville Rail Service Extension Site: Wilson Road Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
-1106	Juglans nigra [Black Walnut]	29 45 19	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
-1107	Juglans nigra [Black Walnut]	29	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
-1108	Juglans nigra [Black Walnut]	48	Good	

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Tree Tag	Species	DBH	Overall Condition	Photo
-1109	Juglans nigra [Black Walnut]	55	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
1110A	Acer negundo [Manitoba Maple]	55	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
-1110	Juglans nigra [Black Walnut]	5	Good	

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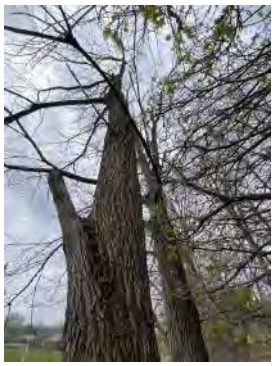
Client: Bowmanville Rail Service Extension Site: Wilson Road Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
731	Juglans nigra [Black Walnut]	24	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
1112	Juglans nigra [Black Walnut]	30	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
1113A	Juglans nigra [Black Walnut]	34	Good	

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Client: Bowmanville Rail Service Extension Site: Wilson Road Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
-1113	Juglans nigra [Black Walnut]	19	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
-1114	Juglans nigra [Black Walnut]	10	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
1108	Juglans nigra [Black Walnut]	30	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
732	Juglans nigra [Black Walnut]	30 37	Good	

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Tree Tag	Species	DBH	Overall Condition	Photo
733	Acer negundo [Manitoba Maple]	18 21 19	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
734	Juglans nigra [Black Walnut]	33	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
-734	Salix alba [White Willow]	105	Fair	

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Tree Tag	Species	DBH	Overall Condition	Photo
-735	Malus sp. [Apple sp.]	16	Fair	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
-900	Juglans nigra [Black Walnut]	27	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
-901	Juglans nigra [Black Walnut]	27	Good	

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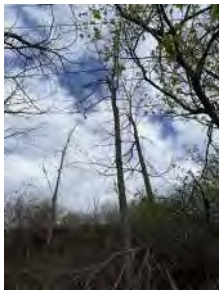
Client: Bowmanville Rail Service Extension Site: Wilson Road Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
-902	Juglans nigra [Black Walnut]	27 36	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
-903	Juglans nigra [Black Walnut]	27 36	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
904	Juglans nigra [Black Walnut]	15	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
-905	Juglans nigra [Black Walnut]	10	Good	

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Client: Bowmanville Rail Service Extension Site: Wilson Road Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
4	Juglans nigra [Black Walnut]	33	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
-908	Juglans nigra [Black Walnut]	21	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
-909	Juglans nigra [Black Walnut]	21 23	Good	

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Client: Bowmanville Rail Service Extension Site: Wilson Road Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
-910	Juglans nigra [Black Walnut]	31	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
-911	Juglans nigra [Black Walnut]	27	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
-912	Juglans nigra [Black Walnut]	15	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
-913	Acer negundo [Manitoba Maple]	15 27 16	Good	

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Client: Bowmanville Rail Service Extension Site: Wilson Road Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
-914	Acer negundo [Manitoba Maple]	15 27 16	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
914	Juglans nigra [Black Walnut]	15 27 16	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
-915	Juglans nigra [Black Walnut]	32	Good	

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Client: Bowmanville Rail Service Extension Site: Wilson Road Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
-916	Juglans nigra [Black Walnut]	32	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
-917	Juglans nigra [Black Walnut]	21	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
-930	Juglans nigra [Black Walnut]	27	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
-931	Juglans nigra [Black Walnut]	27 33	Good	

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Client: Bowmanville Rail Service Extension Site: Wilson Road Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
-932	Juglans nigra [Black Walnut]	19	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
-933	Juglans nigra [Black Walnut]	10	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
-934	Juglans nigra [Black Walnut]	24	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
-935	Juglans nigra [Black Walnut]	24	Good	

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Client: Bowmanville Rail Service Extension Site: Wilson Road Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
-936	Juglans nigra [Black Walnut]	37	Good	

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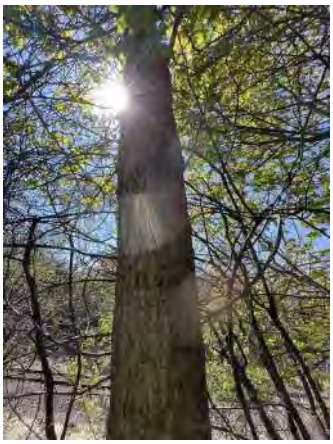
Client: Bowmanville Rail Service Extension Site: Farewell Street Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
1555	Juglans nigra [Black Walnut]	16 15 16	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
1598	Acer platanoides [Norway Maple]	26	Good	

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Client: Bowmanville Rail Service Extension Site: Farewell Street Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
328	Malus sp. [Apple sp.]	27 15 16	Good	

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Client: Bowmanville Rail Service Extension Site: Farewell Street Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
1577	Acer negundo [Manitoba Maple]	5 2 3 3	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
1578	Juglans nigra [Black Walnut]	26	Good	

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Client: Bowmanville Rail Service Extension Site: Farewell Street Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
-1579	Rhamnus cathartica [Common Buckthorn]	3 3	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
1580	Prunus sp. [Cherry sp.]	19	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
-1580	Malus sp. [Apple sp.]	22	Good	

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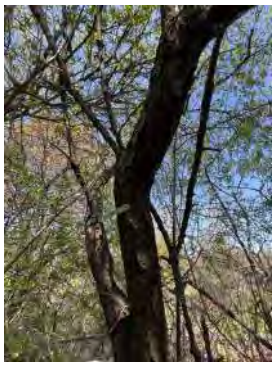
Client: Bowmanville Rail Service Extension Site: Farewell Street Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
1581	Rhamnus cathartica [Common Buckthorn]	20	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
1582	Malus sp. [Apple sp.]	33	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
1583	Malus sp. [Apple sp.]	16 18 16	Good	

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Client: Bowmanville Rail Service Extension Site: Farewell Street Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
1585	Acer platanoides [Norway Maple]	29 15	Good	

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Client: Bowmanville Rail Service Extension Site: Farewell Street Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
1596	Juglans nigra [Black Walnut]	5	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
1597	Acer negundo [Manitoba Maple]	5	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
-1598	Crataegus sp. [Hawthorn sp.]	16 12 16	Good	

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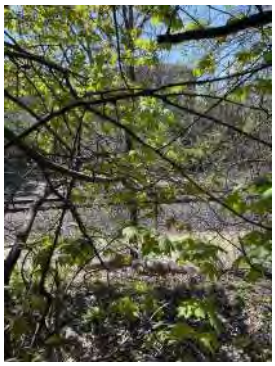
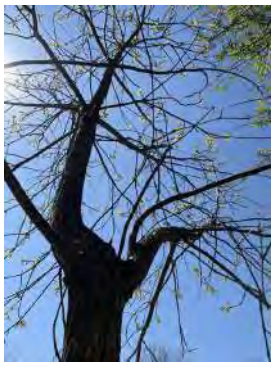
Client: Bowmanville Rail Service Extension Site: Farewell Street Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
-1599	Juglans nigra [Black Walnut]	16	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
1600	Juglans nigra [Black Walnut]	16	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
1602	Populus tremuloides [Trembling Aspen]	20 27 16	Good	

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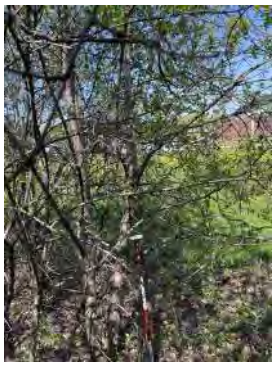
Client: Bowmanville Rail Service Extension Site: Farewell Street Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
1603	Rhamnus cathartica [Common Buckthorn]	14	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
1604	Acer negundo [Manitoba Maple]	16 12	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
1605	Acer negundo [Manitoba Maple]	16 12	Good	

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Client: Bowmanville Rail Section Extension Site: Grandview Feedermain Area Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
V1	Salix nigra [Black Willow]	32	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
V2	Acer negundo [Manitoba Maple]	32 21 18 20	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
V3	Acer negundo [Manitoba Maple]	32 21	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
V4	Acer negundo [Manitoba Maple]	32 26	Good	

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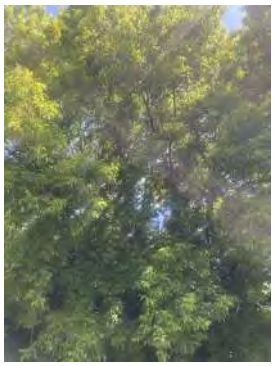
Client: Bowmanville Rail Section Extension Site: Grandview Feedermain Area Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
V5	Acer negundo [Manitoba Maple]	32 26 18	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
V6	Acer negundo [Manitoba Maple]	32 26 18	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
V7	Acer negundo [Manitoba Maple]	24	Good	

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Client: Bowmanville Rail Section Extension Site: Grandview Feedermain Area Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
V8	Acer negundo [Manitoba Maple]	24	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
V9	Acer negundo [Manitoba Maple]	32 26 18	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
V10	Acer negundo [Manitoba Maple]	32 26 18	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
V11	Acer negundo [Manitoba Maple]	32 26 18	Good	

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Client: Bowmanville Rail Section Extension Site: Grandview Feedermain Area Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
V12	Acer negundo [Manitoba Maple]	32 26 18	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
V13	Acer negundo [Manitoba Maple]	16	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
V16	Acer negundo [Manitoba Maple]	32 26 18	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
V14	Acer negundo [Manitoba Maple]	32 26 18	Good	

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Client: Bowmanville Rail Section Extension Site: Grandview Feedermain Area Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
V15	Juglans nigra [Black Walnut]	27	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
V17	Acer negundo [Manitoba Maple]	32 26 18	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
V18	Acer negundo [Manitoba Maple]	24	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
V25	Acer negundo [Manitoba Maple]	21	Dead	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
V26	Acer platanoides [Norway Maple]	21	Dead	Photo missing because no clear line of site or not available from a safe location.

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Client: Bowmanville Rail Section Extension Site: Grandview Feedermain Area Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
V24	Fraxinus sp. [Ash sp.]	21	Dead	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
V27	Acer negundo [Manitoba Maple]	18	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
V28	Acer negundo [Manitoba Maple]	24 21 18	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
V29	Acer negundo [Manitoba Maple]	24 21 18	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
V30	Populus tremuloides [Trembling Aspen]	27	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
V31	Populus tremuloides [Trembling Aspen]	27	Good	Photo missing because no clear line of site or not available from a safe location.

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Client: Bowmanville Rail Section Extension Site: Grandview Feedermain Area Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
V31	Populus tremuloides [Trembling Aspen]	27	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
V32	Populus tremuloides [Trembling Aspen]	27	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
V33	Populus tremuloides [Trembling Aspen]	27	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
V34	Populus tremuloides [Trembling Aspen]	27	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
V35	Populus tremuloides [Trembling Aspen]	27	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
V37	Populus tremuloides [Trembling Aspen]	27	Good	Photo missing because no clear line of site or not available from a safe location.

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Client: Bowmanville Rail Section Extension Site: Grandview Feedermain Area Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
V38	Populus tremuloides [Trembling Aspen]	27	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
V39	Populus tremuloides [Trembling Aspen]	27	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
V40	Populus tremuloides [Trembling Aspen]	27	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
V41	Populus tremuloides [Trembling Aspen]	27	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
V42	Populus tremuloides [Trembling Aspen]	27	Good	Photo missing because no clear line of site or not available from a safe location.

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Client: Bowmanville Rail Section Extension Site: Grandview Feedermain Area Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
A1	Acer negundo [Manitoba Maple]	13 10	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
A2	Acer negundo [Manitoba Maple]	25 10 13	Good	

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Client: Bowmanville Rail Section Extension Site: Grandview Feedermain Area Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
A3	Populus alba [White Poplar]	52	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
A4	Rhamnus cathartica [Common Buckthorn]	10 5 7	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
A5	Salix sp. [Willow sp.]	52	Good	

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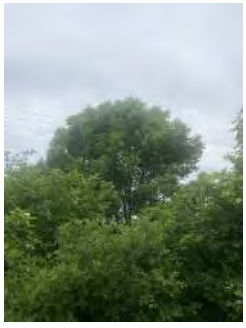
Client: Bowmanville Rail Section Extension Site: Grandview Feedermain Area Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
A6	Ulmus sp. [Elm sp.]	5	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
A7	Acer negundo [Manitoba Maple]	18 10 13	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
A9	Fraxinus sp. [Ash sp.]	27	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
A10	Acer negundo [Manitoba Maple]	10 15	Good	

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Client: Bowmanville Rail Section Extension Site: Grandview Feedermain Area Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
A11	Acer negundo [Manitoba Maple]	10 15	Poor	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
A12	Acer negundo [Manitoba Maple]	10 15	Poor	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
A13	Acer negundo [Manitoba Maple]	10 15	Good	

Stantec

Client: Bowmanville Rail Section Extension Site: Grandview Feedermain Area Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
A14	Acer negundo [Manitoba Maple]	10 15 5 5	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
A15	Acer negundo [Manitoba Maple]	10 15 5 5	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
A16	Acer negundo [Manitoba Maple]	10 15 5 5	Good	Photo missing because no clear line of site or not available from a safe location.

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Client: Bowmanville Rail Section Extension Site: Grandview Feedermain Area Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
A17	Acer negundo [Manitoba Maple]	10 15 5 5	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
A18	Acer negundo [Manitoba Maple]	10 15 5 5	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
A19	Acer negundo [Manitoba Maple]	10 15 5 5	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
A20	Acer negundo [Manitoba Maple]	10 15 5 5	Good	Photo missing because no clear line of site or not available from a safe location.

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Client: Bowmanville Rail Section Extension Site: Grandview Feedermain Area Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
A21	Acer negundo [Manitoba Maple]	10 15 5 5	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
A22	Fraxinus sp. [Ash sp.]	10 5	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
A26	Rhamnus cathartica [Common Buckthorn]	13 10	Good	

Stantec

Client: Bowmanville Rail Section Extension Site: Grandview Feedermain Area Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
A23	Rhamnus cathartica [Common Buckthorn]	13 12 10	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
A24	Rhamnus cathartica [Common Buckthorn]	13 12 10	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
A25	Fraxinus sp. [Ash sp.]	18	Good	

Stantec

Client: Bowmanville Rail Section Extension Site: Grandview Feedermain Area Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
A28	Fraxinus sp. [Ash sp.]	8	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
A29	Fraxinus sp. [Ash sp.]	8	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
A30	Fraxinus sp. [Ash sp.]	12 8	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
A31	Fraxinus sp. [Ash sp.]	7 8	Fair	

Stantec

Client: Bowmanville Rail Section Extension Site: Grandview Feedermain Area Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
A32	Fraxinus sp. [Ash sp.]	7 8	Fair	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
A33	Fraxinus sp. [Ash sp.]	7	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
A34	Fraxinus sp. [Ash sp.]	7	Good	

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Client: Bowmanville Rail Section Extension Site: Grandview Feedermain Area Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
A35	Pyrus communis [Common Pear]	10 5 7	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
A36	Rhamnus cathartica [Common Buckthorn]	10 5 7	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
A37	Rhamnus cathartica [Common Buckthorn]	10 5 7	Good	

Stantec

Client: Bowmanville Rail Section Extension Site: Grandview Feedermain Area Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
A38	Rhamnus cathartica [Common Buckthorn]	10 5 7	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
A40	Acer negundo [Manitoba Maple]	7	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
A41	Acer negundo [Manitoba Maple]	10 15	Poor	

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Client: Bowmanville Rail Section Extension Site: Grandview Feedermain Area Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
A42	Acer negundo [Manitoba Maple]	10 15	Poor	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
A43	Acer negundo [Manitoba Maple]	10 15 8 8	Poor	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
A44	Acer negundo [Manitoba Maple]	10	Poor	

Stantec

Client: Bowmanville Rail Section Extension Site: Grandview Feedermain Area Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
A45	Acer negundo [Manitoba Maple]	10 5 4 6	Poor	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
A46	Acer negundo [Manitoba Maple]	10 5 4 6	Poor	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
A39	Acer negundo [Manitoba Maple]	10 5 4 6	Poor	

Stantec

Client: Bowmanville Rail Section Extension Site: Grandview Feedermain Area Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
A47	Acer negundo [Manitoba Maple]	10 5 4 6	Poor	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
A48	Acer negundo [Manitoba Maple]	10 5 4 6	Poor	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
A49	Acer negundo [Manitoba Maple]	10 5 4 6	Poor	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
A50	Acer negundo [Manitoba Maple]	10 5 4 6	Poor	

Stantec

Client: Bowmanville Rail Section Extension Site: Grandview Feedermain Area Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
A51	Acer negundo [Manitoba Maple]	10 5 4 6	Poor	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
B9	Populus Tremuloides [Trembling Aspen]	16	Good	

Stantec

Client: Bowmanville Rail Section Extension Site: Grandview Feedermain Area Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
B10	Acer negundo [Manitoba Maple]	32 26	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
B20	Rhamnus cathartica [Common Buckthorn]	15 13 10	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
B21	Salix sp. [Willow sp.]	5 5 5	Good	

Stantec

Client: Bowmanville Rail Section Extension Site: Grandview Feedermain Area Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
B22	Salix sp. [Willow sp.]	5	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
B23	Salix sp. [Willow sp.]	5 7 5	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
B24	Ulmus sp. [Elm sp.]	5	Good	

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Client: Bowmanville Rail Section Extension Site: Grandview Feedermain Area Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
B25	Salix sp. [Willow sp.]	5 7 5	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
B26	Salix sp. [Willow sp.]	5 7 5	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
B27	Acer negundo [Manitoba Maple]	24 18	Good	

Stantec

Client: Bowmanville Rail Section Extension Site: Grandview Feedermain Area Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
B28	Acer negundo [Manitoba Maple]	20	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
B29	Salix sp. [Willow sp.]	5 7 5	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
B30	Fraxinus sp. [Ash sp.]	5 7 5	Good	

Stantec

Client: Bowmanville Rail Section Extension Site: Grandview Feedermain Area Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
C1	Acer negundo [Manitoba Maple]	21	Dead	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
C2	Fraxinus sp. [Ash sp.]	21	Dead	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
C3	Fraxinus sp. [Ash sp.]	21	Dead	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
C4	Acer negundo [Manitoba Maple]	16	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
C5	Acer negundo [Manitoba Maple]	16	Good	Photo missing because no clear line of site or not available from a safe location.

Stantec

Client: Bowmanville Rail Section Extension Site: Grandview Feedermain Area Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
CC4	Gleditsia triacanthos [Honey-locust]	24	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
C6	Pinus resinosa [Red Pine]	24	Good	

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Client: Bowmanville Rail Section Extension Site: Grandview Feedermain Area Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
C8	Acer negundo [Manitoba Maple]	34 26 27	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
C11	Acer negundo [Manitoba Maple]	21 26 18	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
C16	Gleditsia triacanthos [Honey-locust]	14	Good	

Stantec

Client: Bowmanville Rail Section Extension Site: Grandview Feedermain Area Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
C17	Pinus resinosa [Red Pine]	14	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
C18	Acer negundo [Manitoba Maple]	32 26	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
C19	Acer negundo [Manitoba Maple]	32 26	Good	

Stantec

Client: Bowmanville Rail Service Extension Site: Green Road Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
-24	Pinus resinosa [Red Pine]	24	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
-44	Acer x freemanii [(Acer rubrum X Acer saccharinum)]	11	Poor	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
-49	Acer x freemanii [(Acer rubrum X Acer saccharinum)]	10	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
-50	Picea glauca [White Spruce]	10	Good	

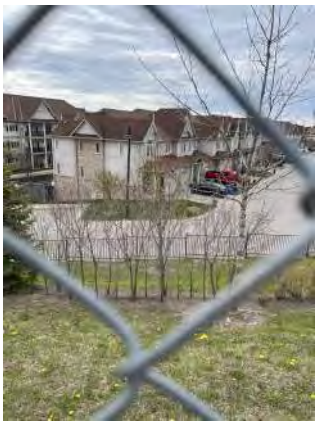
Stantec

Client: Bowmanville Rail Service Extension Site: Green Road Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
-52	Picea glauca [White Spruce]	10	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
-54	Tilia americana [American Basswood]	10	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
-57	Picea glauca [White Spruce]	10	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
-59	Picea glauca [White Spruce]	10	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
-62	Acer x freemanii [(Acer rubrum X Acer saccharinum)]	10	Poor	

Stantec

Client: Bowmanville Rail Service Extension Site: Green Road Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
-63	Acer x freemanii [(Acer rubrum X Acer saccharinum)]	10	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
-65	Acer x freemanii [(Acer rubrum X Acer saccharinum)]	10	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
-66	Acer x freemanii [(Acer rubrum X Acer saccharinum)]	10	Poor	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
-70	Picea glauca [White Spruce]	10	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
-73	Acer x freemanii [(Acer rubrum X Acer saccharinum)]	10	Good	Photo missing because no clear line of site or not available from a safe location.

Stantec

Client: Bowmanville Rail Service Extension Site: Green Road Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
-74	Acer x freemanii [(Acer rubrum X Acer saccharinum)]	10	Poor	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
-76	Acer x freemanii [(Acer rubrum X Acer saccharinum)]	5	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
-82	Picea glauca [White Spruce]	9	Good	

Stantec

Client: Bowmanville Rail Service Extension Site: Green Road Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
-83	Tilia americana [American Basswood]	9	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
-84	Tilia americana [American Basswood]	9	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
-84A	Tilia americana [American Basswood]	9	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
-85	Picea glauca [White Spruce]	9	Good	

Stantec

Client: Bowmanville Rail Service Extension Site: Green Road Project #: 165011019

Tree Tag	Species	DBH	Overall Condition	Photo
-87	Picea glauca [White Spruce]	9	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
-91	Acer saccharinum [Silver Maple]	10	Good	
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
-92	Acer saccharinum [Silver Maple]	10	Good	Photo missing because no clear line of site or not available from a safe location.
Tree Tag	**Species**	**DBH**	**Overall Condition**	**Photo**
-93	Acer saccharinum [Silver Maple]	10	Good	

Appendix D:
Tree Replacement Summary

Tree Replacement Summary

Trees impacted from Metrolinx Projects will be compensated for using an approach developed specifically for Metrolinx. Compensation for trees within CPKC Owned Lands/rail corridor or Metrolinx Owned Lands, which are located within a DNA will reflect ecological compensation. All other trees within CPKC Owned Lands/rail corridor or Metrolinx Owned Lands will follow baseline compensation as per the Metrolinx Vegetation Guideline (2023). Compensation for trees within public and private lands, including those lands to be used for construction for access and laydown and easements, will follow the requirements of applicable by-laws and regulations. While the Regional Municipality of Durham, Municipality of Clarington and the City of Oshawa have by-laws pertaining to tree removal (i.e., By-law 30-2020 and By-law 78-2008, respectively), all have agreed to follow the Metrolinx Vegetation Guideline (2023) for tree removal and compensation. Trees that are not subject to by-laws/regulations and are located outside of a DNA will be compensated for at the baseline ratio.

Table D-1 summarizes removal and compensation / replacement based on applicable municipal, CPKC Rail, and Metrolinx requirements, and Table D-2 summarizes compensation requirements and proposed on-site plantings.

Table D-1: Removals and Compensation / Replacement Summary Table

Tree Location	Removals	Replacement Ratio	Total Compensation to Municipality	Replacement per Metrolinx Vegetation Guideline
Municipal (Street / ROW) 1-29 cm DBH	0	1:1	0	0
Municipal (Street / ROW) ≥30 cm DBH	1	3:1	0	3
Private <10 cm DBH	8	0	0	0
Private 10-29 cm DBH	17	1:1	0	17
Private ≥30 cm DBH	1	3:1	0	3
DNA in Private or Public Lands	11	Calculated based on ratios listed in Table 4-3	0	163
CPKC Owned Lands outside DNA (<10 cm DBH)	1	0	0	0
CPKC Owned Lands outside DNA (10-29 cm DBH)	39	1:1	0	39

Table D-1: Removals and Compensation / Replacement Summary Table

Tree Location	Removals	Replacement Ratio	Total Compensation to Municipality	Replacement per Metrolinx Vegetation Guideline
CPKC Owned Lands outside DNA (≥30 cm DBH)	0	3:1	0	0
CPKC Owned Lands outside DNA Dead Trees (>10 cm DBH)	1	1:1	0	1
CPKC Owned Lands outside DNA Dead Trees (<10 cm DBH)	0	0	0	0
CPKC Owned Lands within DNA (All sizes and dead trees)	207 DVI + 245 GVI	Calculated based on ratios listed in Table 4-3	0	1884
Metrolinx Owned Lands outside DNA (<10 cm DBH)	2	0	0	0
Metrolinx Owned Lands outside DNA (10-29 cm DBH)	10	1:1	0	10
Metrolinx Owned Lands outside DNA (≥30 cm DBH)	2	3:1	0	6
Metrolinx Owned Lands outside DNA Dead Trees (>10 cm DBH)	0	0	0	0
Metrolinx Owned Lands outside DNA Dead Trees (<10 cm DBH)	0	0	0	0
Metrolinx Owned Lands within DNA (All sizes and dead trees)	0	Calculated based on ratios listed in Table 4-3	0	0
Total	**545 trees**	**-**	**0**	**2126**

Table D-2: Proposed On-Site Plantings Summary Table

	Total Trees Required	Proposed On-Site Tree Plantings	Proposed On-Site Shrub Plantings Tree Value	Surplus / Deficit
Total Compensation to Municipality	0	0	0	TBD
Additional Replacement per Metrolinx Vegetation Guideline	2126	0	0	TBD

Appendix E:
Tree End Use / Re-Use Table

Table E-1A: Tree End Use / Re-Use Table

Suggested Tree End Use	# of Suitable Trees
Indigenous community Requests *Bioculturally Significant to Indigenous community or other wood they have stated an interest in reuse*	159
Restoration Projects *Native trees that are 30 to 50 DBH with main leader 3 meter or greater in length and Root wads*	0
Lumber Quality *Straight trunk at least 3 m long, a minimum DBH of 15 cm, no large branches (greater than 5 cm diameter) and no visible defects*	18
Other (Chipping / Mulching used On-Site) *Invasive or Ash trees of 10cm DBH or greater*	355
Total	532

Table E-1B: Tree End Use Reporting Metrics

Suggested Tree End Use	Total # of Suitable Trees	Tree End Use		Number of Trees per End Use
Indigenous community Requests *Bioculturally Significant to Indigenous community or other wood they have stated an interest in reuse*	159	Indigenous community requested wood		
Restoration Projects *Native trees that are 30 to 50 DBH with main leader 3 meter or greater in length and Root wads*	0	Conservation Authority or on-site habitat reuse.		0
-Lumber Quality *Straight trunk at least 3 m long, a minimum DBH of 15 cm, no large branches (greater than 5 cm diameter)*	1	Sawlogs or other forms	Lumber for Furniture or Construction Wood on-site	
			Distributed to End User #1	
			Distributed to End User #2	

and no visible defects			Distributed to End User #3	
		Other		
Other Tree End Use Options				
Mulch used on site/ edge management for soil compaction prevention/ tree health*				355
Other Indigenous communities Requests				
Local Community Asks (Park bench etc.)**				
Invasive species free Mulch/ Chip Give away ***				
Firewood Give away***				
Invasive Species requiring Waste Disposal (e.g. EAB ash trees, Oak)				
Other (please specify)				
% Diversion of All Trees to End Use Partners:				***33.3%***

** 10 cm mulch/chip depth maximum in rail corridor.*

***Local communities should be verified with Community Engagement*

**** Mulch/ chips/ firewood given away or shipped off-site must be from areas free of invasive and/or aggressive non-native species including shrubs. Thickets and branches should be assessed for reuse and placed in brush piles for habitat if possible.*

Appendix F:
Indigenous Engagement

Indigenous Engagement Tracking

The feedback received is provided by the Indigenous communities as part of ongoing Indigenous engagement, Table F-1 will be updated, as required and as communicated to Metrolinx, following the review of this report with applicable feedback that shall be completed by the tree removal contractor.

Table F-1: Feedback Received from Indigenous Communities

Indigenous Community	Feedback
	Placeholder for any feedback to be reflected here.