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**428 Little Avenue
Barrie, Ontario**

**Arborist Report
428 Little Inc.**

**November 2019
SLR Project No.: 209.40465.00000**



ARBORIST REPORT

428 LITTLE AVENUE

BARRIE, ONTARIO

SLR Project No.: 209.40465.00000

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1.0 INTRODUCTION

SLR Consulting Canada Ltd. (SLR) was retained by 428 Little Inc. to undertake a Tree Inventory and Preservation Plan to support the development application for lands located northwest of Little Avenue in the City of Barrie, Ontario (hereafter referred as subject property) (Figure 1).



Figure 1. Study Location

The purpose of this report is to provide an inventory and assessment of the trees on or adjacent to the subject property, identify those trees that are recommended for removal to accommodate the proposed development and to provide recommendations for tree preservation measures and mitigation. This report was prepared using the City of Barrie Tree protection Manual (V4, 2019, in accordance with Tree Preservation By-law 2014-1150 using accepted arboriculture guidelines and standards for tree protection and reporting.

Compensation in the form of replanting for the removal of bylaw-protected trees is planned on the site as part of the development. Planting is beyond the scope of this report; reference is to be made to the landscape plans prepared by Into the Woods.

2.0 POLICY FRAMEWORK

2.1 Local or Regional Tree Policies

The City regulates private property tree removals for trees within a woodlot as defined under the *City of Barrie's Tree Preservation By-law 2014-1150*. Under this By-law, no person shall injure or destroy any tree without approval within a woodlot¹ of ½ acre in size or larger.

Trees within or adjacent to a Municipal Road Right-of-Way are protected under the provisions of the Public Tree By-law (76-162) and/or the Right-of-Way Activity By-law (2005-256). No person shall destroy, injure, remove, trim or alter any tree unless authorized by the City of Barrie.

2.2 Endangered Species Act, 2007

The *Endangered Species Act* (ESA, 2007) is a provincial statute administered by the Ministry of Environment, Conservation and Parks (MECP). The *Act* defines mandatory species and habitat protection to species designated by the Committee on the Status of Species at Risk (SAR) in Ontario (COSSARO) listed on Schedule 2 (Endangered) and Schedule 3 (Threatened) of Ontario Regulation 230/08. Activities which may harm, harass or destroy habitats of species regulated under the *Act* must adhere to the policies and regulations under the *Act*.

Recently four species of bats have been designated as Endangered and therefore provided protection under the ESA. Trees especially those with larger diameters and which contain cavities or loose bark are more likely to provide roosting habitat and need to be considered to ensure compliance with the ESA. This is especially important when determining tree preservation and or removal recommendations. In addition, trees species which have been designated under the ESA (e.g. Butternut) also need to be considered as part of the tree inventory assessment.

2.3 Migratory Bird Convention Act (1994)

The *Migratory Birds Convention Act* (1994) and its complimentary regulations ensure the conservation of migratory bird populations by regulating potentially harmful human activities. It aims to protect migratory birds, their eggs, and their nests from harm, harassment, killing and or the taking of nests and or eggs of species regulated under the *Act* during the breeding season. Therefore, it is up to the proponent to practice due diligence to ensure that site clearing activities including removal of trees (includes grasses, shrubs) or structures that has the potential to destroy the nests and young of birds is avoided. Under the *Act* at no time can incidental take occur of a nesting species, regardless of any recommended avoidance window.

3.0 METHODOLOGY

A visual assessment of the trees was undertaken on July 11, 12 and September 21, 2017. Additional tree assessments were completed in January 10, March 9, 22 and 26 2018 during approved work by the City of Barrie (Clare Maher, personal communication March 9, 2018) for the installation of several Boreholes. All trees ≥ 10 cm in diameter at breast height (DBH) on

¹ Woodlot is defined as at least 0.2 ha in area covered with a density of trees that is not less than 1000 trees of any size per ha, 750 trees over 5 cm in DBH per ha, 500 trees over 12 cm DBH per ha or 250 trees over 20 cm in DBH per ha.

the property and within 6 metres of the property line were tagged and assessed in terms of the following:

- Species – common and botanical names;
- DBH – measured at 1.4 metres above the ground;
- Condition – trunk integrity, crown structure and crown vigour. Condition ratings include dead (D), poor (P), fair (F) and good (G); and
- Comments – additional relevant detail.

Tree preservation and evaluation followed the City of Barrie's "High", "medium" or "low" preservation value which was assigned to the forest stand and / or individual tree based on its potential to survive as determined by the following criteria:

- Sensitivity to proposed changes in wind and sun exposure;
- Sensitivity to proposed change in grading and soil strata;
- Proposed density and proximity of development or lot coverage

Trees and or vegetation groups were then categorised based on the following as defined by the City of Barrie:

- Level 1 Protection Trees: Trees that must be protected (e.g. Endangered species and/or their habitat, Heritage Trees; or Boundary trees which the adjacent property owner does not provide written consent to remove.
- Level 2 Protection Trees: Protect, where feasible, any tree or group of trees assigned a "high" preservation value that would result in minor or no impact on the proposed development plan and/or grading limits. Accommodations to be considered for site development in terms of grading and/or lot fabrics.
- Level 3 Protection Trees: Protect, where feasible, any tree or group of trees assigned a "medium" preservation value that would not result in any impact to the proposed development plan and/or grading limits.

Trees were surveyed with elevations and plotted on the topographical survey to form the bases of the tree plan.

Limitations of Assessment: The assessments made in this report are valid at the time of inspection using accepted arboriculture techniques made by visual examination (all above ground parts of the tree(s)). Unless noted otherwise, trees were not cored or probed and there was no detailed inspection involving excavation of the root ball. While every reasonable efforts have been made, there is no guarantee offered, or implied that trees assessed may not have problems or deficiencies that may arise in the future, or conditions ratings that may change. Tree vigour will change over time; assessed conditions may decline subject to changes in site and weather conditions. Trees are living entities and a standing tree will always pose some degree of risk.

4.0 EXISTING SITE CONDITIONS

The site is comprised of a small woodland located within residential development and adjacent to the Go Train Line between MacLaren Avenue and Hurst Drive north east of Little Avenue.

There is a trail network that connects Little Avenue to Foster Drive through the length of the woodland with a branch leading off the main trail to the parkland located to the west.

5.0 DEVELOPMENT PROPOSAL

The development proposal is set back thirty (30) metres from the rail line and consists of fifty-six (56) three storey town home units with four (4) semi-detached three storey units organized in a linear configuration along the length of the property. The proposed development area of approximately 2.044 ha will be serviced by a private road with access from Little Ave and Foster Drive. Amenity areas, parking an underground storage chamber, Bioretention cells and a Dry Storm Pond are also proposed. Due to a watershed divide (refer to C.F. Crozier & Associates Consulting Engineers FSM report, 2019), half of the property will be serviced by the Bioretention cells and the other half by the Dry Pond².

6.0 RESULTS AND DISCUSSION

The following provides a discussion and analysis of the development impacts, tree removals requirements, and tree preservation relative to the proposed development.

A total of **794 trees** were assessed and inventoried. A varied mix of Ash (*Fraxinus americana*, *Fraxinus Pennsylvanica*), Elm (*Ulmus americana*), Walnut (*Juglans nigra*, *Juglans regia*) Ironwood (*Ostrya virginiana*), Maple (*Acer platanoides*, *Acer saccharinum*, *Acer negundo*, *Acer saccharum* ssp. *Saccharum*), Spruce (*Picea glauca*), Pine (*Pinus strobus*, *Pinus sylvestris*) Cherry (*Prunus serotina*), Poplar (*Populus tremuloides*, *Populus grandidentata*) and Oak (*Quercus rubra*) occur. The majority of the property is Ash and Ash seedlings intermixed with Manitoba Maple and European buckthorn (*Rhamnus cathartica*).

A defined transition of mature and larger in DBH to smaller seedlings and trees less than 10 cm DBH occurs from the north property limit (top of slope) abutting the Metrolinx (GO railine) to the south property limits. This is evident on historical imagery (Simcoe County Maps <https://maps.simcoe.ca/public/>) which shows that the property was once cleared and appears to have been mostly open field with a mature linear hedgerow of trees along the rail corridor. This is evident from approximately 1990's to 2002 when seedling regeneration becomes established.

² Dry ponds are a grassed alternative to bioretention cells, equipped with gates that close off access to local storm sewers and direct water to the detention area during periods of heavy rain. Once water levels have decreased gates are opened water is directed into the storm sewers.

Figure 2. Historical Imagery of the property



The proposed plan as presented on the Tree Preservation Plan Drawings (TPP) has undergone several alterations and adjustments to protect as many of the mature trees within the property limits as possible. Importantly to preserve the mature Oak and Maple trees assessed along the North property line. The plan adjustments also include requests by the City of Barrie to preserve mature trees and those near Foster Drive (consultation meeting March 2017). To address tree preservation and removals (Preservation Value) the site is discussed in four sections. These include Section 1. Central property, Section 2. North Limits Top of Slope, Section 3 Foster Driver and Section 4. Dry Pond

6.1 Development Impacts/Tree Removals/ Tree Preservation

Section 1 – Central Property

All the trees within the central portion of the property require removals to accommodate the grading and servicing necessary for the proposed development. Ash trees are the dominate species within this area, average 10 cm DBH with Emerald Ash Borer evidence prevalent. A few mature Pine trees will need to be removed to accommodate the house foot prints, grading and servicing (water and sewer).



Photograph 1. Representative photo of trees within the Central Property Area.

Preservation Value – Low. Removals are outlined on the accompanying TPP, Tree Inventory Table and summarised in Table 1 below.

Section 2 – North Limits (Top of Slope)

Several mature Oak's (40cm, 60cm, and a few over 100 cm DBH) occur within this area and will be preserved as part of the proposed plan. These trees also represent suitable roost habitat for bats and should be protected. The sidewalks, parking areas, garbage receptacles and bioretention cells have been adjusted as much as possible to maintain an approximate tree preservation zone of a minimum of 8 - 10 m for the large trees (measure from the outermost edge of the trunk). This captures the majority of the tree's driplines and root zones. Landscaping is also limited within this area and no amenity areas (e.g. trails, parks) are proposed to protect trees from root compaction. Working with Crozier & Associates a limit of grading and disturbance was established to assist in evaluating feasibility for protection. The grading plan dated September 4, 2019, and the TPP reflects this limit where no grading or earth works will occur. This limit will also serve as an interim Tree Preservation Fence (TPF) limit (hoarding) until after construction. A permanent chain-link fence (requested by Metrolinx) is to be installed along the Top of Slope. This fence will require field fitting on site to ensure no tree roots are impacted by the installation of posts. The permanent fence will generally follow an existing compacted informal trail which traverses the edge limits of the property.

Trees along or south of the limit of disturbance require removal. Trees are on average 10-20 cm DBH and are too large to be considered for transplanting.

Preservation Value – Low to High. Tree removals and those identified for preservation are outlined on the accompanying TPP, Tree Inventory Table and summarised in Table 1 below.

Section 3 - Foster Driver

At the Foster Drive entrance (west property limits) an underground storage chamber, servicing stub (sewer / water), sidewalk is proposed. A cluster of mature trees fronting the entrance were identified for possible preservation. Trees 1313, 1314, 1320, 1322 are approximately 30 – 40 cm DBH with tree 1314 (White Pine) 71.5 cm DBH. There are other trees in this area but are smaller in size and not identified as a priority for preservation by SLR. The project team reviewed this area and evaluated several options. For example, readjusting the size, orientation and type of chamber. Through the evaluation, it became evident that in order to construct the underground chamber and maintain structural integrity and function, the chamber it cannot not be installed in a manner which adequately protects trees. The root zones of trees would be impacted by more than 50%. This coupled with additional grading restrictions for the road, watermain and sidewalk, in SLR's expert opinion trees of this size and maturity cannot withstand damage or removal of over 50% of the main root systems and survive.

Trees along the City right-of-way (tree 1795, 1747, 1746, 1748) and a cluster of trees at the southern corner near the adjacent residences (tree 1748, 1749, 1753) can be preserved. The remainder of trees within this area 1750, 1751, 1752, 1754 require removal to facilitate the installation of the underground chamber.

Preservation Value – Low to Medium. Tree removals and those identified for preservation are outlined on the accompanying TPP, Tree Inventory Table and summarised in Table 1 below.

Section 4 – Dry Pond

The dry pond is proposed to be constructed at the east property limits near Little Ave. The pond will be constructed to accommodate flows in significant rain events and outlet via the Storm Sewer at Little Ave (refer to Crozier & Associates FSM report 2019 for further details). In order to properly grade and direct flows within the dry pond, several trees will need to be removed. Many of the trees in the area of impact are in poor condition having broken limbs and leaders topped (suspected damage due to previous ice storm events). Trees include Spruce, Ash, Willow and Manitoba Maple. The Willows are larger (80 – 100 cm DBH) with most other trees 25 cm DBH.

Several White Spruce in SLR's expert opinion can retained along the grading and disturbance limit. These are smaller diameter trees with root protection zones of approximately 1- 2 m. With additional protection measures (horizontal hoarding) root compaction can be minimized.

Preservation Value – Low to Medium. Tree removals and those identified for preservation are outlined on the accompanying TPP, Tree Inventory Table and summarised in Table 1 below.

As a result of the proposed design, the following trees provided in Table 1 will be affected:

Table 1. Tree Result Summary

Number of Trees Tagged / Inventoried - 794		
	No. of Trees	Preservation Value³
Ash Trees	178	Low
Trees Identified for Removal (excluding Ash)	351	Low
Trees Identified for Preservation	247	High
Boundary (Private & Municipal) to be Preserved	18	Medium – High <i>** Some trees are listed as [P?] representing those at rear lots which share potential ownership. Trees are large DBH and are likely to require removal to accommodate grading (preserve interim, further evaluation and consultation required)</i>

Details on the proposed actions (preserve / remove) are provided in the Tree Protection Prescription section of this report. It should be noted that the tree removal and protection actions proposed above are subject to change based on refinement of the site plans through the development process.

6.1.1 Hazard Trees

Characteristics of tree health were assessed to determine potential hazards. These include: dead standing trunks (snags), significant (i.e. greater than 75%) lower crown dieback, discolouration in tree crown, significant lean (i.e. greater than 30%), noticeable wounds and / or decay and evidence of previous failure. Trees were examined visually to identify noticeable signs of declining tree health. Given the mature nature of many of trees and large driplines, especially those along the north property limits Top of Slope, it is recommended that just prior to site grading (within the same year) a second review of the trees identified for preservation within this area be reassessed by a certified Arborist with a Tree Risk Assessment Qualification (TRAQ) to ensure mature trees and or limbs do not pose a safety risk or have a “target” within the new residential area. Importantly any neighbouring property owners of trees in poor health or hazard potential should be made aware of their condition and recommendation for removal.

It will be important to consider alternative means for managing hazard risks (such as cabling or bracing limbs) and by implementing preventative measures to reduce hazard potential other than full tree removal (unless absolutely necessary). Mature trees are important to protect and may also provide roost habitat for SAR Bats. A management plan prepared in consultation with Metrolink, City of Barrie and the owner of the Condo Corporation should be developed for the Mature Oaks and Maple to be preserved along the Top of Slope.

³ Preservation value per the City of Barrie Standards (2019) defined as “high”, “medium” or “low” preservation (see Methodology Section).



Photograph 2. Representative view of mature trees at top of slope.

6.1.2 Endangered and Threatened Species

No Butternut were located within the study area.

A number of the trees inventoried are species preferred by SAR bats as maternity roosts (e.g. Mature Oaks, Sugar Maple Trees No. 1172,1173,1181,1182,1188,1192). Many of the trees along this edge are of suitable size (one Oak is over 100 cm DBH), have loose bark and cavities which may provide opportunities. These trees were assessed as having a Tree Preservation Value as High.

The designation of Endangered is due to the presence of White Nose Syndrome Current direction from MECP regarding SAR bats is evolving. On similar projects the MECP has requested avoidance windows for tree removal. Typically, this occurs from April 1st to September 31st (when tree removal should not occur) when bats are likely to be most active and young may be present.

7.0 TREE PROTECTION PRESCRIPTION

Tree protection measures (hoarding) for retained trees will be combined with sediment and erosion control plans. Silt sock (or equivalent) of adequate size (to be determined by the engineer) should be considered for feasibility as an alternative to trenching for installation where silt fence may impact tree roots. Potential impacts are Greatest along the north property limits and along Foster Drive. Typically, installation requires the fence to be “trenched”. This is an important consideration for mature trees where driplines exceed 8 m (measured towards the development area) and trunk diameters exceed 60 cm DBH. Due to observed existing erosion along the the top of slope where many of the mature trees are located, ensuring drainage is directed away from the edge and trees will also be important. It is recommended that prior to installation the type of sediment fence be reviewed relevant to the general tree root systems in this area. Exploratory Air-spading or Hydrovac may be needed to determine the extent of the root system relative to the sediment fence location if trenching is proposed. This will assist in

determining if additional mitigation actions are required. This should be supervised by a certified Arborist using current Arboriculture Standards.

As noted in Section 6.1 Section 3, an interim TPF is recommended to be established at the limit of grading and disturbance per the Grading and Servicing Plan and illustrated on TPP-1. All trees identified to be preserved within the site require vertical hording unless otherwise directed by the Arborist where wood hoarding will be erected in combination with the required sediment control fencing per the City of Barrie specifications. It is anticipated some adjustments will be necessary and additional measures (e.g. horizontal tree hording) will be required.

Horizontal hording is recommended as an option to vertical hoarding where the vertical hording needs to be adjusted closer to the tree to allow for key equipment placement and grading near the Dry Pond and at the Foster Drive entrance. The use of either vertical or horizontal hoarding will be at the discretion of the arborist in consultation with the City of Barrie.

TPF will be labelled visibly to denote the tree protection area so that all personnel on site are aware of tree preservation actions. Existing grade within the tree protection hoarding will be maintained and remain undisturbed (e.g., no debris, construction equipment).

The following recommendations are suggested to minimize impacts to trees identified for preservation. Refer to TPP-1 and TPP-3 for locations, details, specifications and further tree protection plan notes.

7.1 Pre-Construction

- Upon receiving the necessary approvals and prior to the commencement of tree and vegetation removals, areas designated for tree preservation are to be delineated on site. Removals must occur in accordance with the *Migratory Bird Convection Act* and the *Endangered Species Act, 2007*. Removals should not occur from April to the end of September as a due diligence approach to protect bat roosts. This is a general guideline and further direction with respect to protection for endangered bats may be required from MECP during the detailed design phase of the project.
- Mature trees to be preserved should be fertilized before any construction activities are to commence. This will reinforce health of tree and to prepare trees for the incursion of root loss and other negative effects from construction activities. Fertilization of trees should take place during the months of May and then again in the month of September one year before construction activities commence and then again following the completion of construction activities. Fertilization will consist of a composting fertilizer including a mix of nitrogen, phosphorous and magnesium. Strong root growth should be encouraged.
- Tree protection barriers are to be erected as prescribed on TPP-1 and accompanying application drawings (grading plan, erosion control plan etc.). TPF locations should be staked in the field and confirmed on site by the Arborist and the City of Barrie prior to installation. At this time the City and the Arborist may require either just vertical hording or a combination of vertical and horizontal hoarding. Once tree preservation areas have been delineated, TPF in combination with sediment and erosion control measures are to be installed in accordance with the City of Barrie specifications and recommendations of the arborist report. Refer to Drawing TPP-1 for general locations and TPP-2 for fence specifications. All tree protection measures should follow the guidelines as set out in the tree preservation plan notes and the tree preservation fencing detail.

- The certified Arborist will provide written certification to the City that all protective hoarding and sediment control measures have been satisfactorily installed prior to the issuance of a Fill Permit or issuance of topsoil stripping and grading permit in accordance with the City of Barrie requirements.
- All damaged erosion and sediment control measures should be repaired and/or replaced within 48 hours of the inspection.
- Signage identifying the area as Tree Protection (according to City of Barrie sign standards) is to be installed to along the entire length of TPZ as directed by the Arborist. Signs are to be located at 50 metre intervals along tree preservation fencing before tree removals begin. The Tree Removal Permit (if applicable) is to be posted or available on site at all times.

7.2 During Construction

The following measures are recommended for the protection of on-site trees during the construction of the proposed development:

- Prior to building application approval, a Hazard Tree assessment of trees along the north property limit and trees on adjoining properties to the south is recommended to identify hazard risks for new residences, cars and pedestrians. The assessment is to be completed by a TRAQ qualified arborist with consideration of preventative measures for reducing risks relevant to the Mature Oak and Maple trees. The City of Barrie and Metrolink should be consulted as additional measures may need to be considered to ensure long-term preservation.
- Pruning of preserved trees is not permitted by construction staff. Branches and roots that extend beyond the prescribed tree protection zones that require pruning must be pruned by an ISA Certified Arborist or other tree professional as approved by the City of Barrie. All pruning of tree roots and branches must be in accordance with good arboriculture standards. No more than 30% of the crown of a tree is recommended to be pruned within each calendar year.
- To protect Oak trees from introduction of disease and additional stressors, if limbs need to be pruned back, all cuts (even roots) are not to be pruned cut from between April and July (guidance from the Forest Invasive Council to prevent Oak Wilt⁴) where feasible. All cuts are to be immediately painted with a thin layer of clear wood paint to seal the pruning wound.
- Storage of construction materials, equipment, wood, branches, leaves, soil or fill, construction waste or debris of any sort is prohibited within and adjacent to the TPZ.
- Protected trees are to be watered frequently throughout construction activities ensuring adequate root saturation especially during periods of extended dry /or hot weather.

⁴ Oak wilt is not yet present in Ontario, but it occurs in 24 U.S. states with close proximity to Ontario. Preventing oak wilt from entering and establishing itself is the best way to protect oak trees. To assist in preventing oak wilt establishment, recommendations are included within this report to help establish a set of standards and practices for the prevention of Oak Wilt in Ontario.

- Layering of wood chip mulch from trees to be removed should be placed within the TPZ where trees are to be preserved. Mulching of roots is recommended for all trees to be preserved within the development site this will provide additional protection from root compaction. Much locations will need to be field adjusted at the discretion of the Arborist.
- The identification of excess material stockpiling and equipment maintenance locations will be required during detailed design with consideration given to tree preservation and the protection of adjacent trees.
- Installation of the permanent fence along the top of slope at the north property limits (Metrolink) is to be field with the certified Arborist present. The fence must not impact roots of mature trees along the North Property limits. For example, concrete footings may need to be adjusted and horizontal hoarding installed (plywood and woodchips) to prevent compaction or earth displacement of small (bobcat) equipment required for installation. Heavy machinery is not to be used.
- Inspection of the hoarding and sediment and erosion control measures shall occur regularly with bi-weekly inspections completed by the certified Arborist within the first few months and monthly thereafter (depending on proposed construction schedule). Deficiencies in the TPZ are to be corrected immediately. At a minimum inspection reports should include date, surveyor, qualifications (ISA Arborist/Can-CISEC), photographs, deficiencies (if present) and recommended actions (if required). The reports are to be submitted directly to City of Barrie by the certified Arborist throughout the construction period.
- Inspections of the sediment and erosion control measures should be completed by qualified Canadian Inspector of Sediment and Erosion Control (Can-CISEC) with experience in Tree preservation using Can-CISEC standards.

7.3 Post Construction

The following measures are recommended for the protection of on-site trees during the post-construction of the proposed development:

- When construction activities have finished, retained trees should be inspected to determine if additional arboriculture actions (e.g. pruning, soil aeration, fertilizer) is required. Root zones are to be inspected and assessed by the arborist with the City of Barrie, as compaction or injury (if sustained) during construction may affect tree vigor or otherwise increase a trees potential for failure;
- Confirmation from the City of Barrie must be achieved prior to TPF being removed.

8.0 CONCLUSIONS AND RECOMMENDATIONS

A review of the proposed draft site plan determined that there is a limited opportunity to preserve trees within central property, however opportunities have been identified and efforts made to preserve 241 trees within the site and mature trees along the north property development limits. The current proposed draft plan is a result of several adjustments to accommodate preservation of trees on site. The TPZ protection limits have been established

based on required limits for grading, servicing, bioretention cells, amenity features and dry pond construction.

Long-term management is necessary to assist in protection and enhancement the north property limits mature trees, especially due to the steep slopes which occur within this area.

Recommendations

- Implement recommendations as outlined in Section 6.0 and Section 7.0, TPP-1 and Tree Inventory Table TPP-2 and specifications as provided in TPP-3 including any accompanying application documents;
- The tree inventory identifies proposed actions for trees as a result of the proposed development plan (preserve, remove). Several boundary trees [P?] have been identified and will require consultation with adjacent landowners as these are mature trees with large trunks and root systems extending on to both properties.
- Should there be changes to the site design, the arborist report must be updated to re-evaluate any new areas of disturbance. Note: proposed actions may change based on refinement of the site plans, and subject to City of Barrie approval;
- The Tree Protection Plan, Appendix A and a copy of this report is to be provided to the site supervisor prior to any work commencing on the site.
- To protect wildlife in general, no animals are to be knowingly harmed. If wildlife is encountered during tree removals, work must stop, and animals allowed to disperse on their own. If necessary, the MNRF should be contacted for advice;
- It is the proponents responsibility to ensure that the works are in conformance with the *Migratory Bird Convention Act* and *Endangered Species Act*. No avoidance window or nest sweep absolves the proponent or their contractors from contriving the MBCA or ESA. If a nest, egg, fledging or SAR bat is encountered the Contractor must Stop Work and the appropriate agency e.g. Environment Canada (MBCA), MECP (SAR) consulted for advice.
- The assessment presented in this report is valid at the time of inspection and it is recommended that the mature Oak and Sugar Maple trees be re-assessed during and immediately after construction and a long-term monitoring and management plan be developed in consultation with the City of Barrie, Metrolinx and the Condominium owner to ensure long-term viability and preservation of the mature trees on site.

9.0 STATEMENT OF LIMITATIONS

This report has been prepared and the work referred to in this report has been undertaken by SLR Consulting (Canada) Ltd. (SLR) for **428 Little Inc.**, hereafter referred to as the "Client". The report has been prepared in accordance with the Scope of Work and agreement between SLR and the Client. It is intended for the sole and exclusive use of Client. Other than by the Client and as set out herein, copying or distribution of this report or use of or reliance on the information contained herein, in whole or in part, is not permitted unless payment for the work has been made in full and express written permission has been obtained from SLR.

This report has been prepared for specific application to this site and site conditions existing at the time work for the report was completed. Any conclusions or recommendations made in this report reflect SLR's professional opinion.

Information contained within this report may have been provided to SLR from third party sources. This information may not have been verified by a third party and/or updated since the date of issuance of the external report and cannot be warranted by SLR. SLR is entitled to rely on the accuracy and completeness of the information provided from third party sources and no obligation to update such information.

Nothing in this report is intended to constitute or provide a legal opinion. SLR makes no representation as to the requirements of compliance with environmental laws, rules, regulations or policies established by federal, provincial or local government bodies. Revisions to the regulatory standards referred to in this report may be expected over time. As a result, modifications to the findings, conclusions and recommendations in this report may be necessary.

The Client may submit this report to related environmental regulatory authorities or persons for review and comment purposes.

10.0 REFERENCES

City of Barrie, 2010. Tree protection Manual V4 (January 2019).

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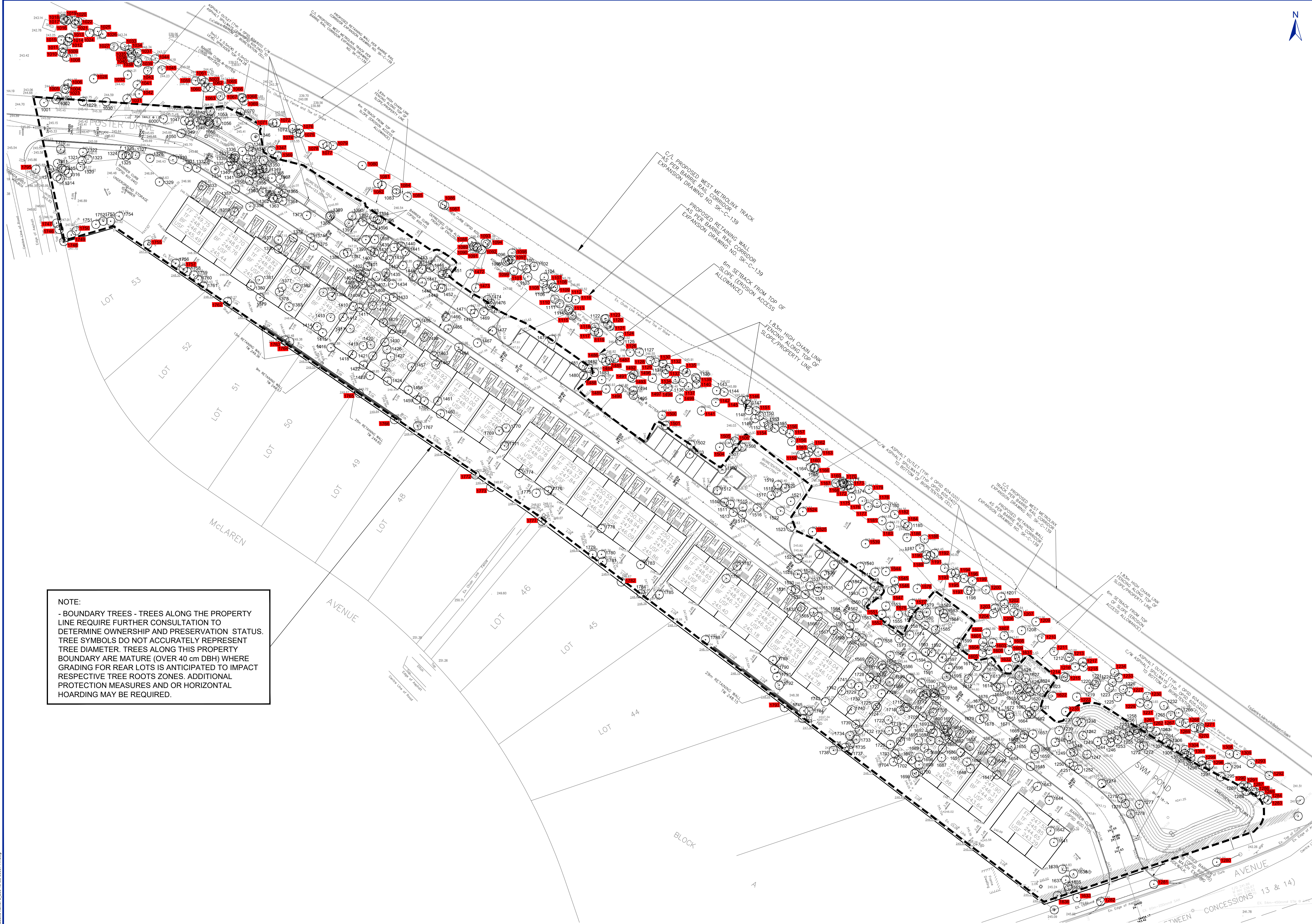
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APPENDIX A
Tree Preservation Plan and Inventory – TPP1, TPP2, TPP3

Arborist Report
428 Little Avenue, Barrie
SLR Project No.: 209.40465.00000



NOTE:
- BOUNDARY TREES - TREES ALONG THE PROPERTY LINE REQUIRE FURTHER CONSULTATION TO DETERMINE OWNERSHIP AND PRESERVATION STATUS. TREE SYMBOLS DO NOT ACCURATELY REPRESENT TREE DIAMETER. TREES ALONG THIS PROPERTY BOUNDARY ARE MATURE (OVER 40 cm DBH) WHERE GRADING FOR REAR LOTS IS ANTICIPATED TO IMPACT RESPECTIVE TREE ROOTS ZONES. ADDITIONAL PROTECTION MEASURES AND OR HORIZONTAL HOARDING MAY BE REQUIRED.



NOTES:
NOT A LEGAL SURVEY. DO NOT USE FOR CONSTRUCTION.
REFERENCED FROM CROZIER AND ASSOCIATES, GRADING PLAN, NOVEMBER 28, 2019.

- LEGEND:
- PROPERTY BOUNDARY
 - - - LIMIT OF GRADING AND DEVELOPMENT (CROZIER AND ASSOCIATES, NOVEMBER 28, 2019)
 - TREE PROTECTION (HOARDING) INSTALLED AT LIMITS AND FIELD FITTED WITH THE CONSULTING ARBORISTS AND CITY OF BARRIE. ADDITIONAL PROTECTION (HORIZONTAL HOARDING) MAY BE REQUIRED.
 - TREE TO BE PRESERVED "MEDIUM TO HIGH" (CITY OF BARRIE 2019)
 - 1309 TREE TO BE REMOVED (ALL TREES WITHOUT CORRESPONDING RED HIGHLIGHT)

0 5 10 20 30 m
SCALE 1:500
WHEN PLOTTED CORRECTLY ON A 22 x 34 PAGE LAYOUT
NAD 1983 UTM Zone 17 T
THIS DRAWING IS FOR CONCEPTUAL PURPOSES ONLY. ACTUAL LOCATIONS MAY VARY AND NOT ALL STRUCTURES ARE SHOWN.

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No.	By	Checked	Date	Comments

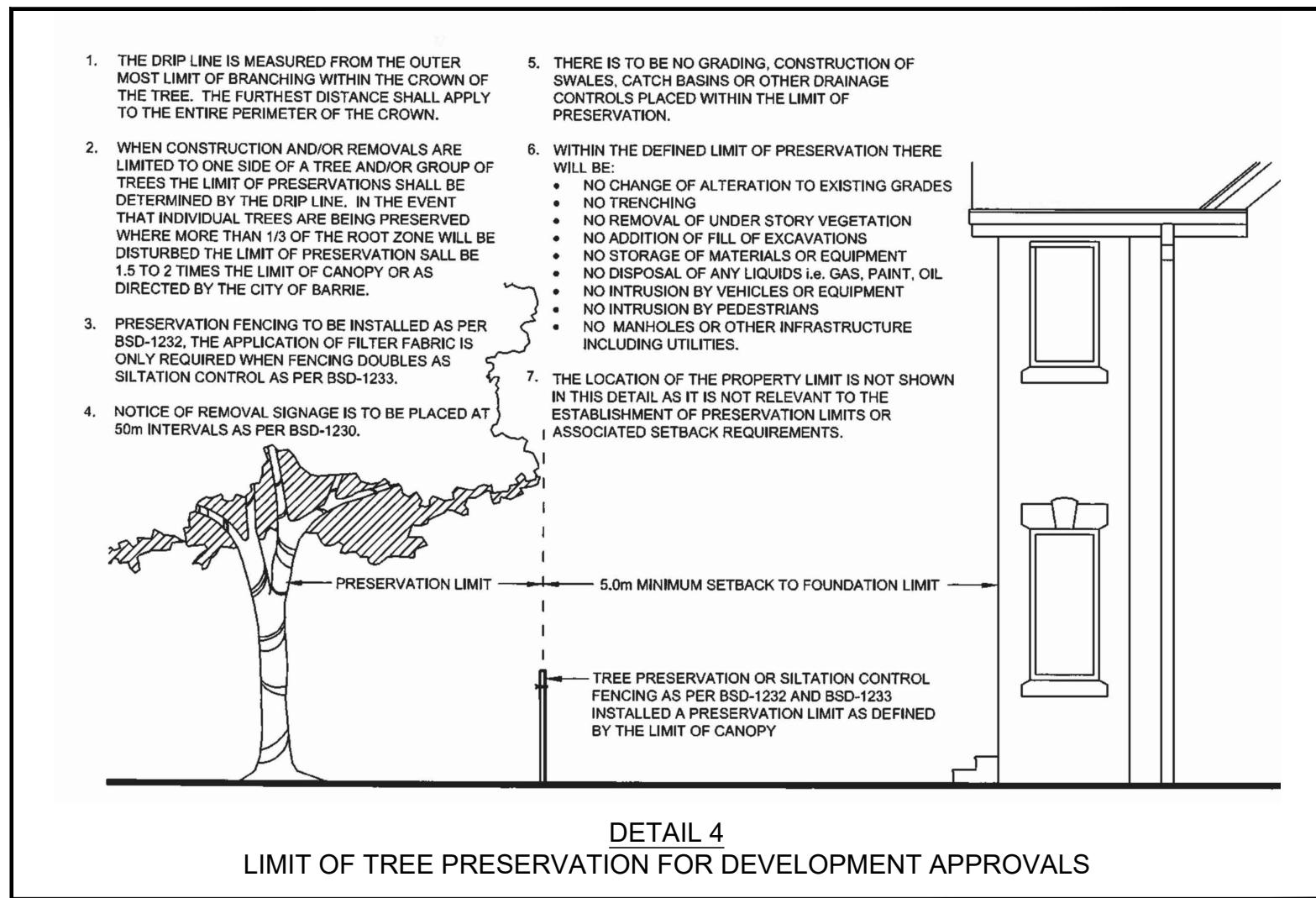
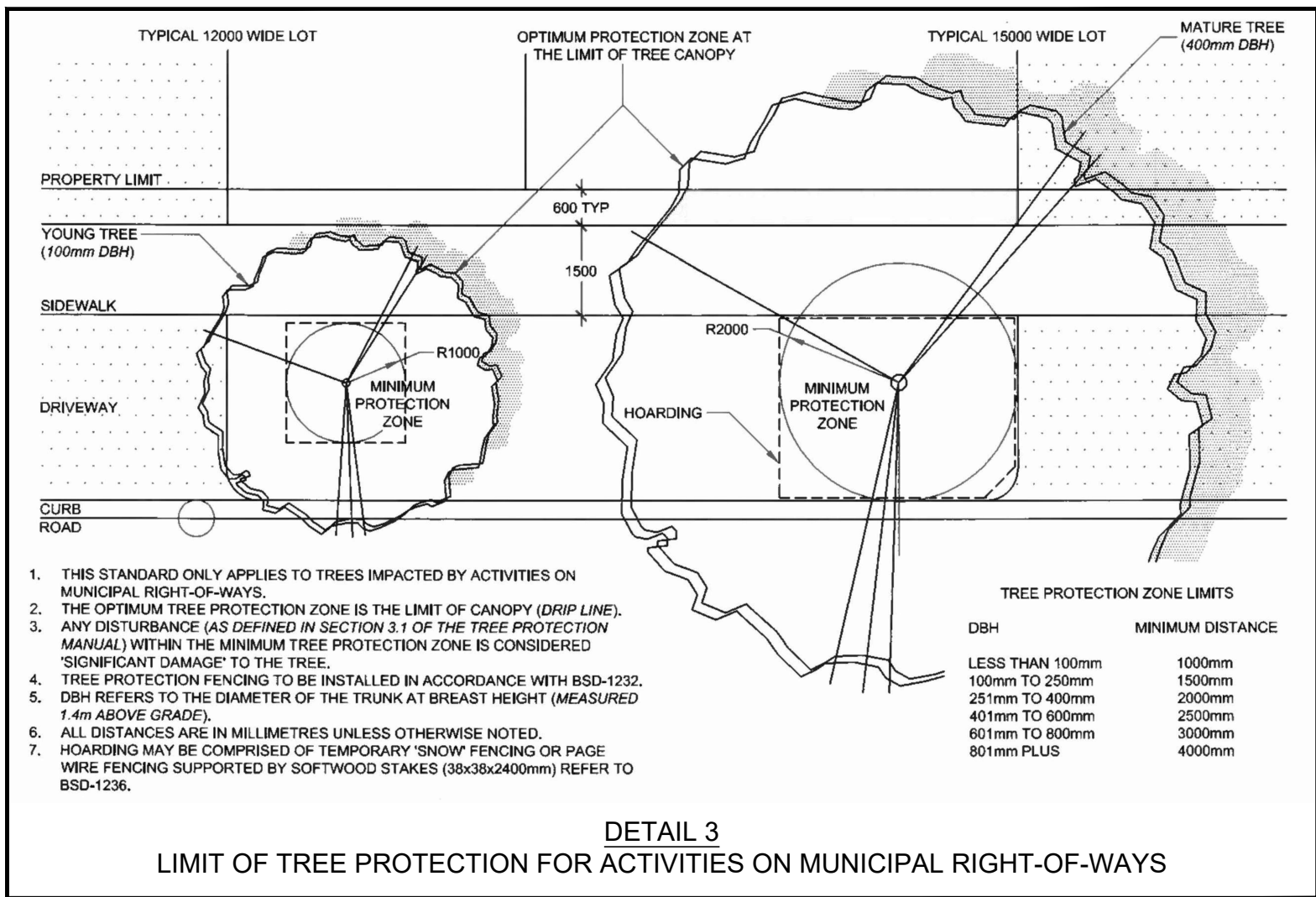
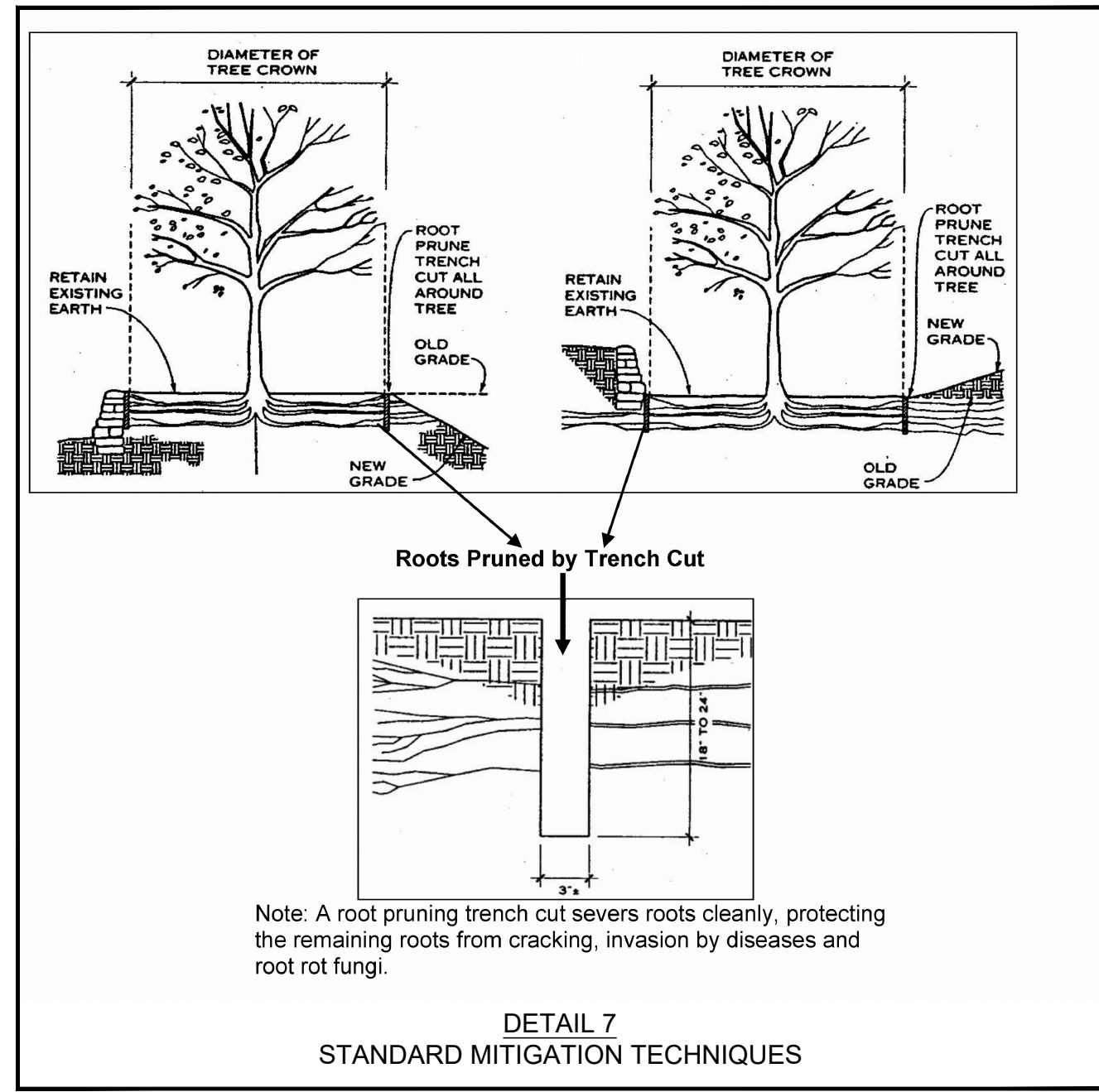
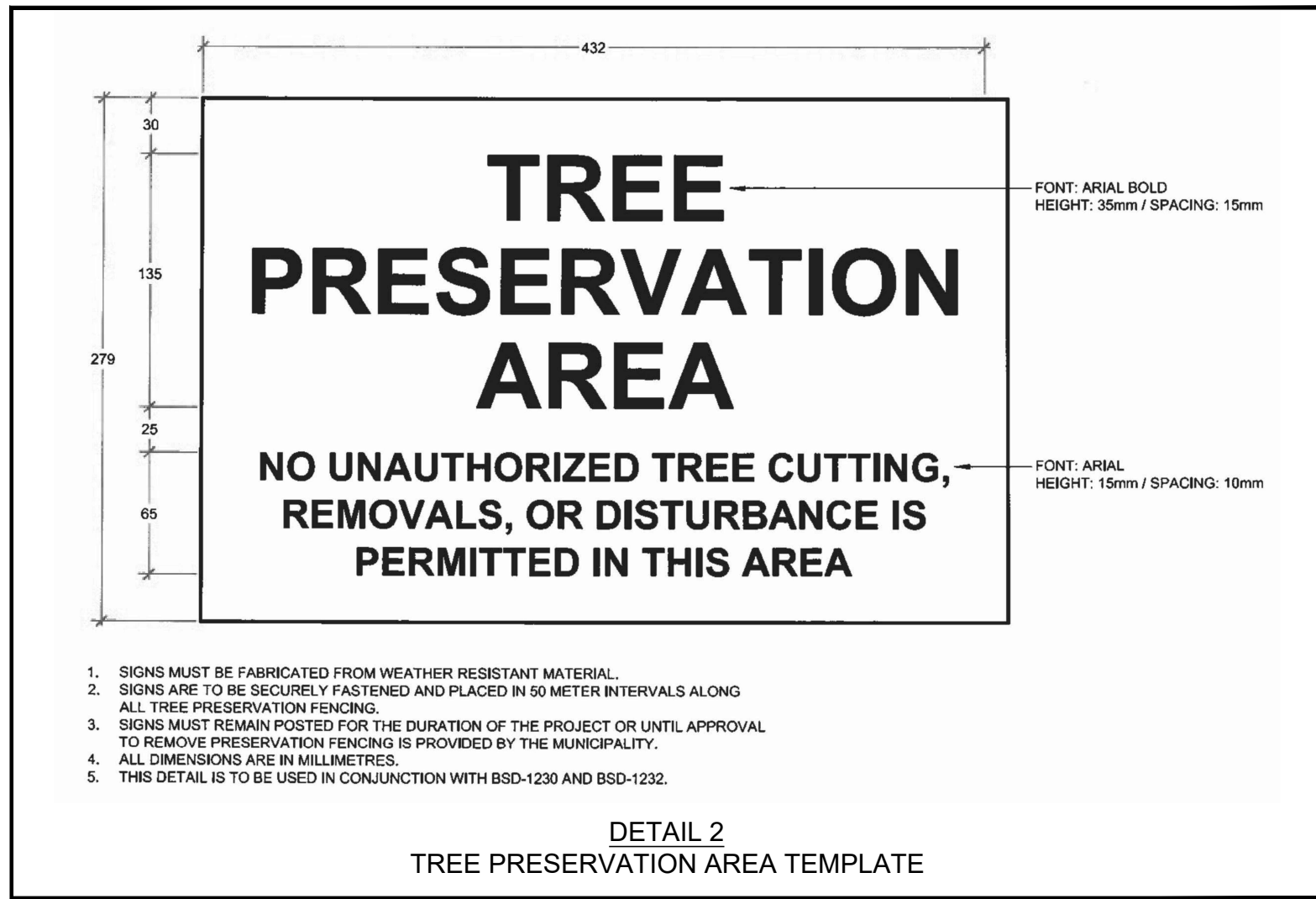
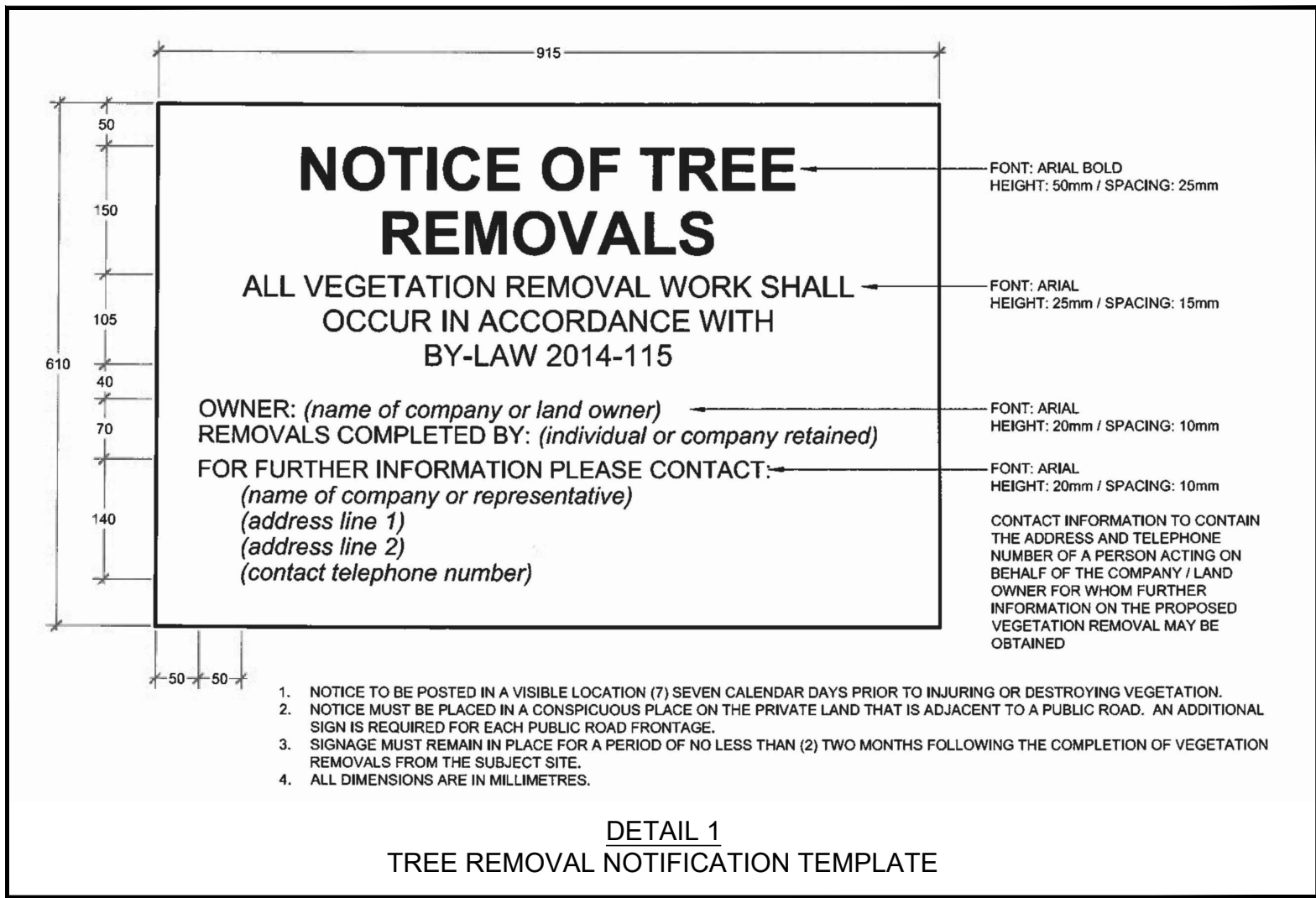
LITTLE AVENUE
BARRIE, ON

TREE PRESERVATION PLAN

SITE PLAN

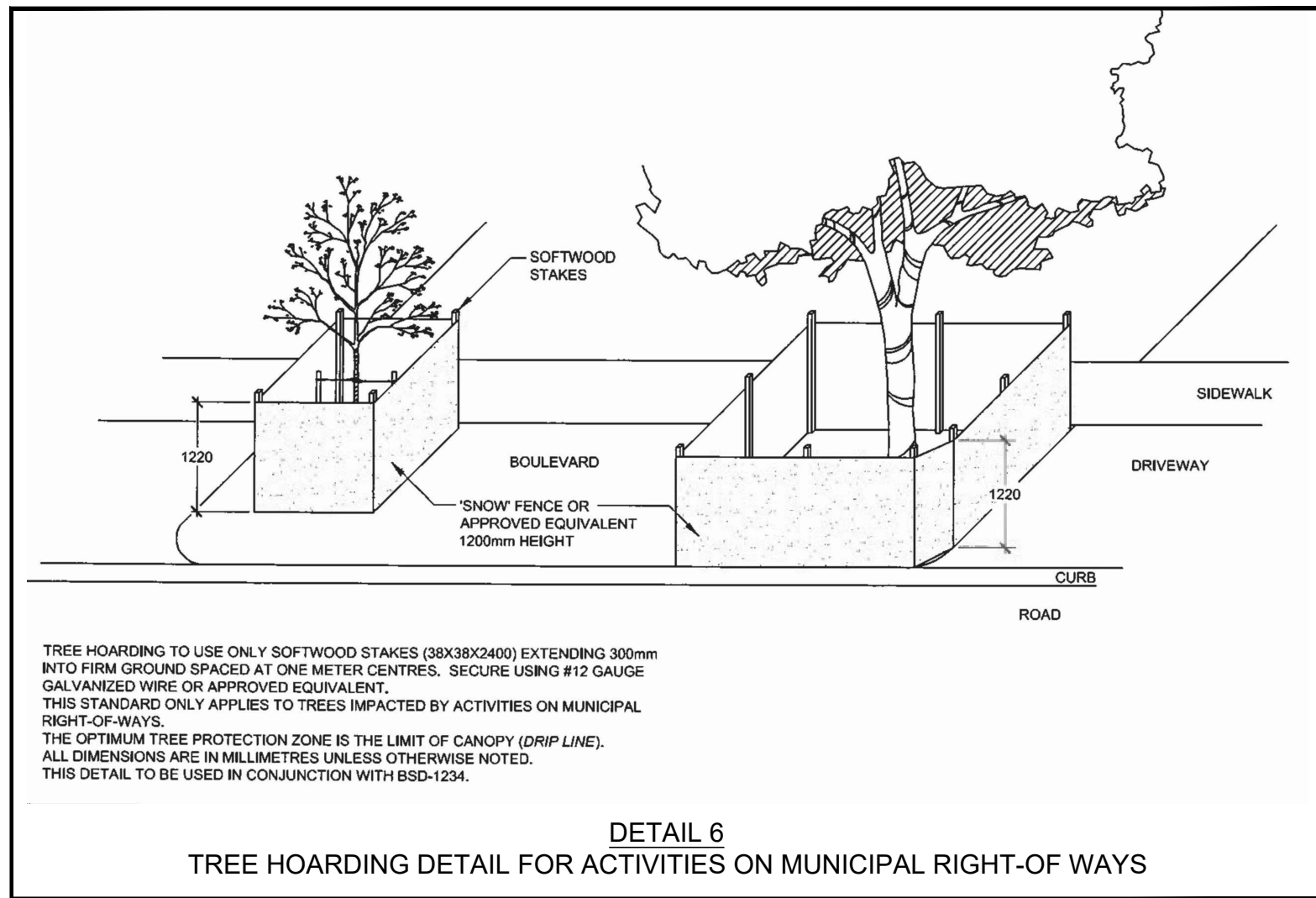
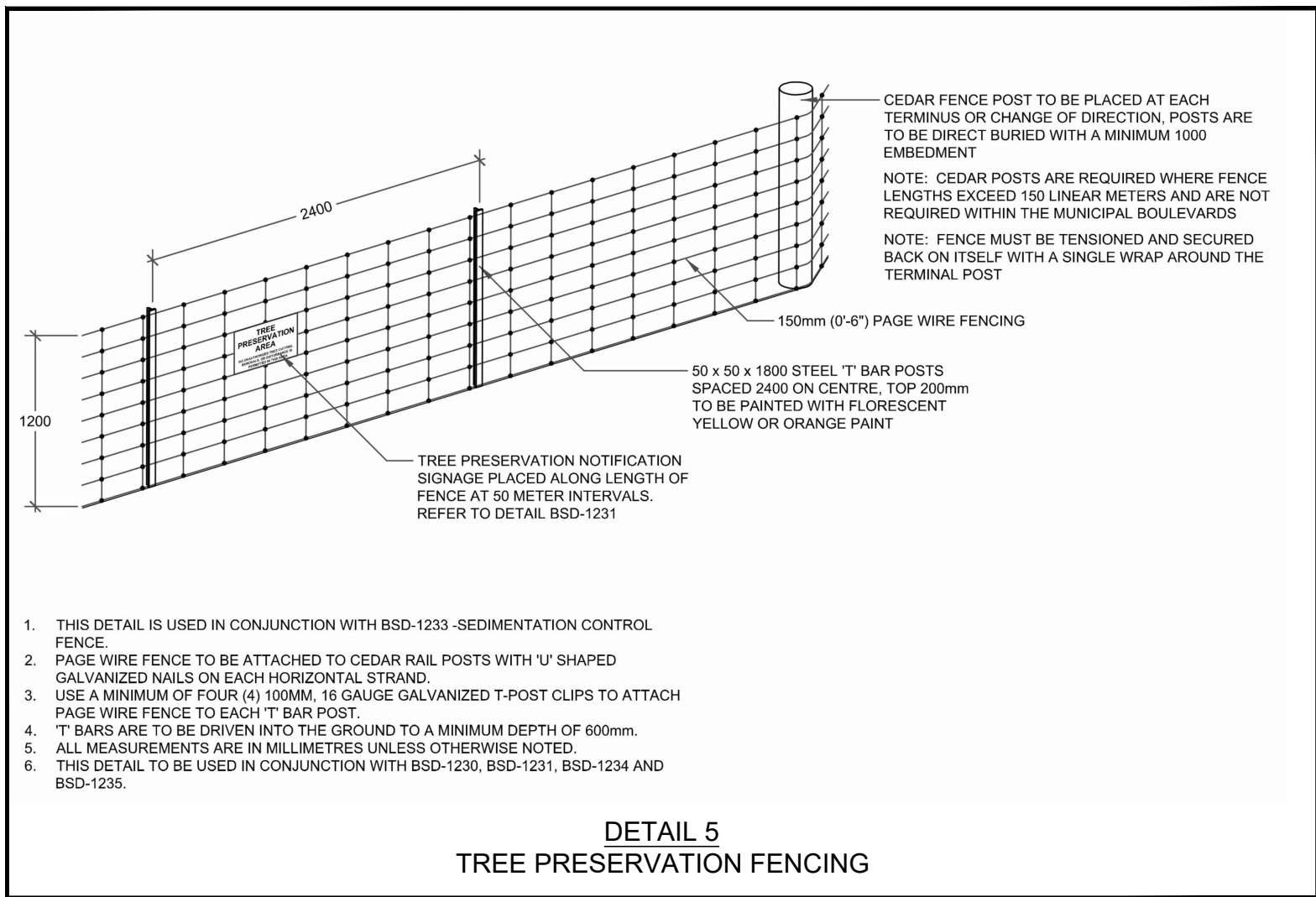
Date: December 9, 2019
Project No. 209.40465.00001





TREE PROTECTION NOTES

1. INSTALL TREE PROTECTION HOARDING PER CITY OF BARRIE TREE PROTECTION BYLAW INDICATED ON PLAN AS TPZ MINIMUM, UNLESS OTHERWISE NOTED.
2. CITY OF BARRIE'S TREE PROTECTION POLICIES AS OUTLINED BY URBAN FORESTRY IN THE "TREE PROTECTION MANUAL V2" ARE TO BE FOLLOWED. REFER TO APPENDIX #2 IN THE PROVIDED SPECIFICATIONS.
3. DO NOT ALTER GRADES WITHIN TREE PROTECTION ZONE.
4. NO ACTIVITY, OR STORAGE OF ANY KIND, IS TO TAKE PLACE WITHIN THE TREE PROTECTION ZONE (TPZ) UNLESS OTHERWISE NOTED.
5. TREE PROTECTION HOARDING SHALL BE INSPECTED BI-MONTHLY BY THE PROJECT ARBORIST FOR THE DURATION OF ACTIVE CONSTRUCTION.
6. ROOT BUFFERING IS TO BE PROVIDED WHERE GRADING ENCOACHES (E.G., ASPHALT ROAD, BIOSWALE, PARKING AREAS) INTO THE EXISTING TREE CANOPY AS INDICATED ON THE PRESERVATION PLAN. THIS WILL CONSIST OF TEMPORARY LAYER OF MULCH DESIGNED TO PROTECT THE SOIL TEXTURE AND ROOTS WITHIN THE TPZ.
- 6.1. A BASE COURSE OF TREE CHIPS SPREAD AT A 15 CM (6") DEPTH OVER THE ROOT AREA (KEEPING ONE FOOT CLEAR OF THE TRUNK), AND COVERED WITH 3/4" PLYWOOD PLACED OVER THE WOOD CHIPS.
- 6.2. ONCE THE CONSTRUCTION WORK IN THIS AREA IS COMPLETED, PLYWOOD AND WOOD CHIPS ARE TO BE CAREFULLY REMOVED WITHOUT DISTURBING THE ORIGINAL SOIL SURFACE.
7. IN THE AREA WHERE THE BIOSWALE, PARKING AREAS, OR ASPHALT ROADWAY ENCOACHES THE TREE CANOPY DRIP:
- 7.1. IF TREE ROOTS THAT ARE 50 MM (2") OR LARGER ARE ENCOUNTERED THEY MUST BE CLEANLY CUT BACK TO A SOUND WOOD LATERAL ROOT UNDER THE SUPERVISION OF THE PROJECT ARBORIST. THE END OF THE ROOT SHALL BE SEALED AND KEPT MOIST. ALL EXPOSED ROOT AREAS WITHIN THE TPZ SHALL BE BACKFILLED OR COVERED WITHIN ONE HOUR. EXPOSED ROOTS MAY BE KEPT FROM DRYING OUT BY TEMPORARILY COVERING THE ROOTS AND DRAPING LAYERED BURLAP OR CARPETING OVER THE UPPER 1 METRE (3 FEET) OF TRENCH WALLS. THE MATERIALS MUST BE KEPT MOIST UNTIL BACKFILLED TO REDUCE EVAPORATION FROM THE TRENCH WALLS.
8. PRESCRIPTION FERTILIZATION RECOMMENDATION: TO ENCOURAGE ROOT GROWTH AND HELP COMPENSATE FOR ROOT LOSS AND SOIL COMPACTION IN THE AREA OF ROOT BUFFERING FERTILIZER SHOULD APPLIED NO EARLIER THAN TWO YEARS FOLLOWING CONSTRUCTION. AT A MINIMUM A SOILS ANALYSIS SHOULD BE DONE AND A SLOW-RELEASE ORGANIC FERTILIZER FOCUSING ON REPLACING ONLY DEFICIENT NUTRIENTS SHOULD BE USED.



GOOD FORESTRY PRACTICES:

The proper implementation of harvest, renewal and maintenance activities known to be appropriate for the forest and environmental conditions under which they are being applied and that minimize concerns to forest values including significant ecosystems, important fish and wildlife habitats, soil and water quality and quantity, forest productivity and health and the aesthetics and recreational opportunities of the landscape.

And Good Forestry Practices permits the destruction or injuring of trees that:

- (a) Have been damaged by disease, insects, wind, ice, fire, lightning or other natural causes to an extent that the health of such trees is likely to further deteriorate;
- (b) Should be cut or removed to prevent disease or insects from spreading to other trees;
- (c) Are cut in accordance with the Provincial Silvicultural Guidelines as referred to in the Forest Operations and Silvicultural Manual and its revisions prepared under the authority of the Crown Forest Sustainability Act, R.S.O. 1990, c. 29. These Provincial Silvicultural Guidelines include, but are not limited to, a Silvicultural Handbook Forest in Ontario, A Tree Planting Guide for the Temperate Hardwood Working Group in Ontario, A Silvicultural Guide for the Great Lakes - St. Lawrence Conifer Forest in Ontario or
- (d) Are marked and cut as part of a woodland management plan approved by a Registered Professional Forester.

GENERAL TREE PROTECTION POLICY:

The tree protection policies and specifications outlined in the Tree Protection Manual of the City of Barrie reflect the policy of the City of Barrie Council. Anyone failing to adhere to these tree protection policies and/or the specifications will be financially responsible for any resulting damage to trees. Note that the financial responsibility is outlined in the Tree Appraisal Section (7.02) of the Manual.

Trees protected by City By-law may not be removed, injured or destroyed in any way without written authorization from the City. Written authorization may require the issuance of a Tree Removal Permit and/or Right-of-Way Activity Permit. Note that the term "tree" refers to all parts of the tree (roots, branches, leaves and stem). No objects are permitted to be attached to trees protected by City By-law.

No trees to be removed without posted City approved Notice Signs.

Tree Protection Zone has to be clearly identified. Tree protection fencing has to be installed as indicated on plan.

NOTES:
NOT A LEGAL SURVEY. DO NOT USE FOR CONSTRUCTION.
REFERENCED FROM CROZIER AND ASSOCIATES, GRADING PLAN,
NOVEMBER 29, 2019

THIS DRAWING IS FOR CONCEPTUAL PURPOSES ONLY. ACTUAL LOCATIONS MAY VARY AND NOT ALL STRUCTURES ARE SHOWN.

1	IO	KL	01/11/19	ISSUED FOR REVIEW	
No.	By	Checked	Date	DMY	Comments

LITTLE AVENUE
BARRIE, ON

TREE PRESERVATION PLAN

TREE PRESERVATION DETAILS

Date:	December 9, 2019	Drawing No:	TP2
Project No.	209.40465.00001		

SLR
global environmental solutions

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Tag	Botanical	Common Name	DBH (cm)	Condition	TPZ (m) Min. or (optimal) Drilline	(R) Remove	(PT) Preserve	Comments	Location
1001	Tilia americana	Basewood	18.5	Fair	4	R		Toped	North Area
1002	Tilia americana	Basewood	25	Good	4	R			North Area
1003	Tilia americana	Basewood	14.5	Good	4	R			North Area
1004	Tilia americana	Basewood	12	Good	4		P	Multitem 1005	North Area
1005	Tilia americana	Basewood	17	Good	4		P	Multitem 1004	North Area
1006	Tilia americana	Basewood	19	Good	4		P	Multitem 1007	North Area
1007	Tilia americana	Basewood	17.5	Good	4		P	Multitem 1006	North Area
1008	Acer saccharum ssp. saccharum	Sugar Maple	30	Good	4		P	10% LCD	North Area
1009	Acer saccharum ssp. saccharum	Sugar Maple	25.5	Good	4		P	Multitem 1010	North Area
1010	Acer saccharum ssp. saccharum	Sugar Maple	26.5	Good	4		P	Multitem 1009	North Area
1011	Acer saccharum ssp. saccharum	Sugar Maple	23.5	Good	4		P		North Area
1012	Acer saccharum ssp. saccharum	Sugar Maple	13.2	Good	7		P	Canopy only extends to the east	North Area
1013	Acer saccharum ssp. saccharum	Sugar Maple	20.5	Good	4		P	Multitem 1014	North Area
1014	Acer saccharum ssp. saccharum	Sugar Maple	13	Good	4		P	Multitem 1013	North Area
1015	Acer saccharum ssp. saccharum	Sugar Maple	13.6	Good	4		P	Epimorphic buds on trunk	North Area
1016	Acer saccharum ssp. saccharum	Sugar Maple	17.5	Good	4		P		North Area
1017	Ostrya virginiana	Ironwood	10	Good	4		P		North Area
1018	Betula papyrifera	White Birch	20	Fair	4		P	cavity at base	North Area
1019	Ostrya virginiana	Ironwood	16.5	Good	4		P		North Area
1020	Acer saccharum ssp. saccharum	Sugar Maple	16	Good	4		P		North Area
1021	Ostrya virginiana	Ironwood	10	Good	4		P		North Area
1022	Tilia americana	Basewood	27	Good	4		P		North Area
1023	Ostrya virginiana	Ironwood	11	Good	2		P		North Area
1024	Acer saccharum ssp. saccharum	Sugar Maple	27	Good	4		P	Codominant stem; 10% LCD	North Area
1025	Prunus serotina	Black Cherry	37.5	Good	10		P	5% LCD	North Area
1026	Acer saccharum ssp. saccharum	Sugar Maple	15, 19.5, 11.5, 15, 9	Good	4		P	Multitem	North Area
1027	Acer saccharum ssp. saccharum	Sugar Maple	15	Good	4		P		North Area
1028	Juglans nigra	Black Walnut	18	Good	4		R		North Area
1029	Juglans nigra	Black Walnut	22	Good	4		R		North Area
1030	Juglans nigra	Black Walnut	28.5	Good	4		R		North Area
1031	Juglans nigra	Black Walnut	38.5	Good	7		P	** Additional Hording may be Required	North Area
1032	Juglans nigra	Black Walnut	14	Good	4				North Area
1033	Ulmus americana	White Elm	23	Good	4		P	Slight lean;	North Area
1034	Acer saccharum ssp. saccharum	Sugar Maple	23.5	Good	4		P		North Area
1035	Acer saccharum ssp. saccharum	Sugar Maple	22.5	Good	4		P	Multitem 1036;	North Area
1036	Acer saccharum ssp. saccharum	Sugar Maple	28.5	Good	4		P	Multitem 1035;	North Area
1037	Acer saccharum ssp. saccharum	Sugar Maple	27	Good	4		P		North Area
1038	Acer saccharum ssp. saccharum	Sugar Maple	22	Good	4		P	Multitem 1039	North Area
1039	Acer saccharum ssp. saccharum	Sugar Maple	11.5	Good	2		P	Multitem 1038	North Area
1040	Acer saccharum ssp. saccharum	Sugar Maple	15	Good	2		P		North Area
1041	Juglans nigra	Black Walnut	12.5	Good	2		P		North Area
1042	Juglans nigra	Black Walnut	23.5	Good	4		P		North Area
1043	Juglans nigra	Black Walnut	49	Good	4		P		North Area
1044	Acer saccharum ssp. saccharum	Sugar Maple	27	Good	4		P		North Area
1045	Acer saccharum ssp. saccharum	Sugar Maple	11.5	Good	2		P		North Area
1046	Prunus serotina	White Pine	20	Good	4		R		North Area
1047	Juglans nigra	Black Walnut	20	Good	4		R	Large dbt (65 cm); active honey bee hive	North Area
1048	Ostrya virginiana	Ironwood	10	Good	4		R		North Area
1049	Ostrya virginiana	Ironwood	10	Fair	4		R		North Area
1050	Acer negundo	Manitoba Maple	11	Fair	2		R	20% LCD	North Area
1051	Prunus serotina	Black Cherry	20	Poor	4		R	not rot	North Area
1052	Prunus serotina	Black Cherry	13	Dead	0		R		North Area
1053	Ostrya virginiana	Ironwood	14.5	Fair	4		R	20% LCD	North Area
1054	Ostrya virginiana	Ironwood	11.9	Excellent	2		R	Multitem	North Area
1055	Ostrya virginiana	Ironwood	12	Fair	4		R		North Area
1056	Acer saccharum ssp. saccharum	Sugar Maple	19	Good	4		R		North Area
1057	Juglans nigra	Black Walnut	16	Good	4		R	10% LCD	North Area
1058	Acer saccharum ssp. saccharum	Sugar Maple	13	Excellent	4		R		North Area
1059	Acer saccharum ssp. saccharum	Sugar Maple	28	Poor	4		P		North Area
1060	Acer saccharum ssp. saccharum	Sugar Maple	23	Excellent	4		P		North Area
1061	Acer saccharum ssp. saccharum	Sugar Maple	23	Dead	0		R		North Area
1062	Acer saccharum ssp. saccharum	Sugar Maple	23	Good	4		P	Codominant; few dead branches in canopy	North Area
1063	Juglans nigra	Black Walnut	44	Excellent	12		P		North Area
1064	Juglans nigra	Black Walnut	11	Good	2		P	10% LCD	North Area
1065	Acer saccharum ssp. saccharum	Sugar Maple	20	Good	4		P		North Area
1066	Acer saccharum ssp. saccharum	Sugar Maple	15	G	4		P		North Area
1067	Acer saccharum ssp. saccharum	Sugar Maple	25.5	Good	4		P		North Area
1068	Acer saccharum ssp. saccharum	Sugar Maple	17.5	G	4		P		North Area
1069	Acer saccharum ssp. saccharum	Sugar Maple	12, 6.5	Poor	4		P	Multitem; small stem dead; dead leader	North Area
1070	Fraxinus americana	White Ash	24	Fair	4		R		North Area
1071	Acer saccharum ssp. saccharum	Sugar Maple	58	Fair	8		P	Fence embedded large cavity at base	North Area
1072	Acer saccharum ssp. saccharum	Sugar Maple	72	Fair	10		P	One large limb broken	North Area
1073	Fraxinus americana	White Ash	17	Dead	0		R		North Area
1074	Tilia americana	Basewood	14	Good	4		P		North Area
1075	Tilia americana	Basewood	15.5	Fair	4		P	Multitem 1076	North Area
1076	Tilia americana	Basewood	44.5	Fair	5		P	Multitem 1075; some canopy dieback	North Area
1077	Juglans nigra	Black Walnut	25.5	Good	4		P		North Area
1078	Ostrya virginiana	Ironwood	11.5	Good	4		P		North Area
1079	Prunus serotina	Black Cherry	20.5	Good	4		P		North Area
1080	Acer saccharum ssp. saccharum	Sugar Maple	10	Good	4		P		North Area
1081	Acer saccharum ssp. saccharum	Sugar Maple	44.5	Fair	8		P	Moderate canopy dieback	North Area
1082	Acer negundo	Manitoba Maple	11	Fair	2		P	Moderate canopy dieback	North Area
1083	Acer saccharum ssp. saccharum	Sugar Maple	27	Poor	4		R	Dead gone; one live branch	North Area
1084	Acer saccharum ssp. saccharum	Sugar Maple	47	Good	8		P		North Area
1085	Acer saccharum ssp. saccharum	Sugar Maple	45	Good	8		P	On slope; wild grape in canopy	North Area
1086	Acer saccharum ssp. saccharum	Sugar Maple	18.5	Good	8		P		North Area
1087	Acer saccharum ssp. saccharum	Sugar Maple	47.5	Good	8		P		North Area
1088	Acer saccharum ssp. saccharum	Sugar Maple	42.5	Good	12		P	Some canopy dieback	North Area
1089	Tilia americana	Basewood	49	Fair	4		P	Back peeled from fallen limb	North Area
1090	Tilia americana	Basewood	40	Poor	4		P	Leader broken	North Area
1091	Tilia americana	Basewood	38.5	Poor	6		P	Leader broken	North Area
1092	Acer saccharum ssp. saccharum	Sugar Maple	58.5	Fair	10		P	Codominant stem	North Area
1093	Acer saccharum ssp. saccharum	Sugar Maple	14	Poor	4		P	Leader broken; lower branches dead	North Area
1094	Acer saccharum ssp. saccharum	Sugar Maple	35.5	Good	6		P		North Area
1095	Fraxinus americana	White Ash	10	Dead	0		R	EAB	North Area
1096	Fraxinus americana	White Ash	10	Dead	0		R	EAB	North Area
1097	Acer saccharum ssp. saccharum	Sugar Maple	20, 6	Good	4		P	Multitem that fused	North Area
1098	Ulmus americana	White Elm	20	Poor	4		P	Symptoms of disease - insect damage to leaves	North Area
1099	Acer saccharum ssp. saccharum	Sugar Maple	43, 100	Good	10		P	Multitem; cavities on lower trunk	North Area
1100	Acer saccharum ssp. saccharum	Sugar Maple	17.5	Good	4		P		North Area
1101	Quercus rubra	Red Oak	13	Good	4		P	10% LCD	North Area
1102	Fraxinus americana	White Ash	24.5	Poor	4		R	Severe canopy decline	North Area
1103	Fraxinus americana	White Ash	10.5	Dead	0		R		North Area
1104	Fraxinus americana	White Ash	14	Dead	0		R		North Area
1105	Acer saccharum ssp. saccharum	Sugar Maple	12.5	Good	4		P	10% LCD	North Area
1106	Tilia americana	Basewood	14.5	Dead	0		R		North Area
1107	Acer saccharum ssp. saccharum	Sugar Maple	19	Good	4		P		North Area
1108	Quercus rubra	Red Oak	43	Good	8		P		North Area
1109	Quercus rubra	Red Oak	47	Good	8		P		North Area
1110	Quercus rubra	Red Oak	37	Fair	6		P	Large cavity at base; slight lean	North Area
1111	Fraxinus americana	White Ash	11	Dead	0		R		North Area
1112	Quercus rubra	Red Oak	111	Fair	12		P	Large cavity at base; insect damage on leaves	North Area
1113	Tilia americana	Basewood	44	Excellent	10		P	Multitem	North Area
1114	Tilia americana	Basewood	53, 26	Poorish	0		R	Small stem dead; root rot	North Area
1115	Tilia americana	Basewood	27	Good	4		P	Dead branches in lower canopy	North Area
1116	Acer saccharum ssp. saccharum	Sugar Maple	39	Excellent	8		P		North Area
1117	Quercus rubra	Red Oak	82	Good	8		P	10% LCD	North Area
1118	Quercus rubra	Red Oak	80.5	Fair	8		P	Cavity at base	North Area
1119	Quercus rubra	Red Oak	86	Excellent	8		P	Slight lean	North Area
1120	Acer saccharum ssp. saccharum	Sugar Maple	26.5	Good	4		P	Wound at base	North Area
1121	Acer saccharum ssp. saccharum	Sugar Maple	35.5	Excellent	6		P		North Area
1122	Tilia americana	Basewood	22	Poor	4		P	Leader broken	North Area
1123	Tilia americana	Basewood	16.5	Good	4		P	Leader arching - shaded by sugar maple	North Area
1124	Tilia americana	Basewood	35	Good	6		P		North Area
1125	Tilia americana	Basewood	31.5, 44	Dead	0		R	Multitem	North Area
1126	Acer saccharum ssp. saccharum	Sugar Maple	42	Good	10		P		North Area
1127	Tilia americana	Basewood	45, 36	Dead	0		R	Multitem	North Area
1128	Acer saccharum ssp. saccharum	Sugar Maple	42.5, 14	Good	6		P	2 small cavities on lower half	North Area
1129	Acer saccharum ssp. saccharum	Sugar Maple	14.5	Good	4		P		North Area
1130	Acer saccharum ssp. saccharum	Sugar Maple	14	Good	4		P		North Area
1131	Acer saccharum ssp. saccharum	Sugar Maple	37, 33.5	Poor	4		P	Severe canopy dieback; woodpecker cavity at base	North Area
1132	Acer saccharum ssp. saccharum	Sugar Maple	35.5	Excellent	5		P		North Area
1133	Acer saccharum ssp. saccharum	Sugar Maple	16	Fair	4		P		North Area
1134	Tilia americana	Basewood	22	Fair	4		P	Decay at base	North Area
1135	Acer saccharum ssp. saccharum	Sugar Maple	26, 4, 11	Good	4		P		North Area
1136	Fraxinus americana	White Ash	48, 40	Dead	0		R	Multitem	North Area
1137	Tilia americana	Basewood	17.5, 19	Dead	0		R	Multitem	North Area
1138	Acer saccharum ssp. saccharum	Sugar Maple	42	Good	4		R	Fallen after tagging	North Area
1139	Acer saccharum ssp. saccharum	Sugar Maple	42	Excellent	4		P		North Area
1140	Acer saccharum ssp. saccharum	Sugar Maple	30	Good	6		P	5% LCD	North Area
1141	Quercus rubra	Red Oak	22.5	Fair	4		P	Canopy dieback; several dead lower branches; insect damage on leaves	North Area
1142	Quercus rubra	Red Oak	80	Good	14		P		North Area
1143	Tilia americana	Basewood	39.5, 26	Dead	0		R		North Area
1144	Tilia americana	Basewood	32	Dead	0		R		North Area
1145	Acer saccharum ssp. saccharum	Sugar Maple	19	Good	4		P		North Area
1146	Acer saccharum ssp. saccharum	Sugar Maple	28	Good	4		P		North Area
1147	Acer saccharum ssp. saccharum	Sugar Maple	22	Dead	0		R		North Area
1148	Tilia americana	Basewood	26, 17.5	Dead	0		R		North Area
1149	Fraxinus americana	White Ash	26	Dead	0		R		North Area
1150	Tilia americana	Basewood	37	Fair	6		P	Small cavities on stem; 5% LCD	North Area
1151	Acer saccharum ssp. saccharum	Sugar Maple	15	Good	4		P		North Area
1152	Tilia americana	Basewood	24.5, 17.5	Dead	0		R		North Area
1153	Tilia americana	Basewood	42	Poorish	0		R	80% Crown Dieback	North Area
1154	Prunus serotina	Black Cherry	23	Fair	4		P	Moderate canopy dieback	North Area
1155	Tilia americana	Basewood	34, 36, 36	Dead	0		R	Multitem	North Area
1156	Acer saccharum ssp. saccharum	Sugar Maple	23	Good	4		P		North Area
1157	Tilia americana	Basewood	12	Good	4		P	shaded by basswood (1158)	North Area
1158	Tilia americana	Basewood	36.5, 48.5, 43	Good	6		P	Some cavities on lower trunk	North Area
1159	Acer saccharum ssp. saccharum	Sugar Maple	17.5	Good	4		P		North Area

Tag	Botanical	Common Name	DBH (cm)	Condition	TPZ (M) Min (optimal) Drilline	(R) Remove	(P) Preserve	Comments	Location
1160	Quercus rubra	Red Oak	60	Good	8		P	Codominant stem, 10%LCD	North Area
1161	Acer saccharum ssp. saccharum	Sugar Maple	22	Good	4		P		North Area
1162	Acer saccharum ssp. saccharum	Sugar Maple	16.5	Good			P		North Area
1163	Acer saccharum ssp. saccharum	Sugar Maple	16	Good			P		North Area
1164	Vitis americana	Black Cherry	15.6, 69	Dead	0	R	P	Multistem	North Area
1165	Vitis americana	Blackwood	15.5	Dead	0	R			North Area
1166	Vitis americana	Blackwood	20	Good	4		P	Slight lean	North Area
1167	Acer saccharum ssp. saccharum	Sugar Maple	24	Fair	4		P	50% LCD	North Area
1168	Prunus serotina	Black Cherry	40	Excellent	10		P		North Area
1169	Acer saccharum ssp. saccharum	Sugar Maple	31	Poor	8		P	Severe rot at base	North Area
1170	Acer saccharum ssp. saccharum	Sugar Maple	28.15	Good	5		P		North Area
1171	Acer saccharum ssp. saccharum	Sugar Maple	12.5	Poor	4	R	P	Codominant, one stem dead	North Area
1172	Acer saccharum ssp. saccharum	Sugar Maple	32	Good	4		P		North Area
1173	Acer saccharum ssp. saccharum	Sugar Maple	33	Good	4		P	Excellent	North Area
1174	Vitis americana	Blackwood	47	Dead	0	R			North Area
1175	Quercus rubra	Red Oak	32	Good	10		P	Thinning canopy, insect damage on leaves	North Area
1176	Vitis americana	Blackwood	36.5, 27, 33	Good	5		P	Multistem	North Area
1177	Quercus rubra	Red Oak	25	Good	5		P		North Area
1178	Vitis americana	Blackwood	22	Dead	4	R	P		North Area
1179	Acer saccharum ssp. saccharum	Sugar Maple	19.15	Good	4		P		North Area
1180	Fraxinus americana	White Ash	61	Dead	0	R	P	Fence included	North Area
1181	Quercus rubra	Red Oak	55	Good	12		P	10% LCD	North Area
1182	Acer saccharum ssp. saccharum	Sugar Maple	40	Excellent	8		P		North Area
1183	Quercus rubra	Red Oak	15	Good	4		P		North Area
1184	Vitis americana	Blackwood	32	Good	4		P		North Area
1185	Vitis americana	Blackwood	23.5, 33	Dead	4	R	P		North Area
1186	Vitis americana	Blackwood	42, 32.5, 38, 37	Good	5		P	Multistem	North Area
1187	Vitis americana	Blackwood	26.5, 28, 35, 35	Dead	0	R	P	Multistem	North Area
1188	Acer saccharum ssp. saccharum	Sugar Maple	26.15	Good	4		P	5% LCD	North Area
1189	Quercus rubra	Red Oak	16.5	Good			P		North Area
1190	Acer saccharum ssp. saccharum	Sugar Maple	14.5	Good	4		P	5% LCD	North Area
1191	Acer saccharum ssp. saccharum	Sugar Maple	16	Good			P		North Area
1192	Quercus rubra	Red Oak	100	Good	8		P		North Area
1193	Acer saccharum ssp. saccharum	Sugar Maple	33	Good	5		P		North Area
1194	Acer saccharum ssp. saccharum	Sugar Maple	33.5	Fair	4		P	20% LCD	North Area
1195	Acer saccharum ssp. saccharum	Sugar Maple	27	Good	2		P		North Area
1196	Vitis americana	Blackwood	45	Dead	0	R	P		North Area
1197	Vitis americana	Blackwood	28	Dead	0	R	P		North Area
1198	Fraxinus americana	White Ash	29	Good	4		P		North Area
1199	Acer saccharum ssp. saccharum	Sugar Maple	19, 46, 32	Good	8		P	Multistem	North Area
1200	Vitis americana	Blackwood	40	Good	6		P		North Area
1201	Fraxinus americana	White Ash	22, 30, 37	Dead	0	R	P		North Area
1202	Acer saccharum ssp. saccharum	Sugar Maple	29	Good	4		P		North Area
1203	Acer saccharum ssp. saccharum	Sugar Maple	37	Poor	4		P		North Area
1204	Prunus serotina	Black Cherry	16, 11	Fair			P	Multistem, slight lean, moderate canopy dieback, small stem dead	North Area
1205	Vitis americana	Blackwood	26.5	Dead	0	R	P		North Area
1206	Quercus rubra	Red Oak	61	Fair	12		P	Multistem, large butt, large crevice beginning at base	North Area
1207	Quercus rubra	Red Oak	63	Good/fair	12		P		North Area
1208	Fraxinus americana	White Ash	14	Dead	0	R	P	Crevice on lower stem	North Area
1209	Vitis americana	Blackwood	43, 50	Good/Fair	6		P		North Area
1210	Acer saccharum ssp. saccharum	Sugar Maple	53	Good	8		P		North Area
1211	Acer saccharum ssp. saccharum	Sugar Maple	63	Good			P	10% LCD	North Area
1212	Fraxinus americana	White Ash	70.5, 35	Dead	0	R	P		North Area
1213	Acer saccharum ssp. saccharum	Sugar Maple	39.5	Good	6		P		North Area
1214	Acer saccharum ssp. saccharum	Sugar Maple	16	Good	10		P		North Area
1215	Acer saccharum ssp. saccharum	Sugar Maple	12	Good	4		P		North Area
1216	Vitis americana	Blackwood	51	Good	8		P		North Area
1217	Acer saccharum ssp. saccharum	Sugar Maple	71	Excellent	10		P		North Area
1218	Acer saccharum ssp. saccharum	Sugar Maple	20	Good	4		P		North Area
1219	Fraxinus americana	White Ash	15	Dead	0	R	P		North Area
1220	Fraxinus americana	White Ash	40	Good	2	R	P		North Area
1221	Fraxinus americana	White Ash	16.5	Good	4	R	P		North Area
1222	Juglans nigra	Black Walnut	31.5	Good	4		P		North Area
1223	Fraxinus americana	White Ash	17.5	Poor			P	90% Crown Dieback	North Area
1224	Fraxinus americana	White Ash	15.5	Poor	4	R	P		North Area
1225	Fraxinus americana	White Ash	66.5	Fair	10	R	P	EAB present, canopy dieback	North Area
1226	Fraxinus americana	White Ash	56	Fair	10	R	P	EAB present, canopy dieback	North Area
1227	Acer saccharum ssp. saccharum	Sugar Maple	12	Good	4		P		North Area
1228	Acer saccharum ssp. saccharum	Sugar Maple	19	Good	4		P		North Area
1229	Acer saccharum ssp. saccharum	Sugar Maple	13	Good	4		P		North Area
1230	Acer saccharum ssp. saccharum	Sugar Maple	13.5	Good	4		P		North Area
1231	Acer saccharum ssp. saccharum	Sugar Maple	21.5	Good	4		P		North Area
1232	Fraxinus americana	White Ash	22	Fair	4	R	P	Slight lean	North Area
1233	Acer saccharum ssp. saccharum	Sugar Maple	22.5	Good	4		P		North Area
1234	Acer saccharum ssp. saccharum	Sugar Maple	24	Good	4		P		North Area
1235	Vitis americana	Blackwood	16	Good	4		P		North Area
1236	Fraxinus americana	White Ash	14	Good	4	R	P		North Area
1237	Fraxinus americana	White Ash	17.5	Fair	4	R	P		North Area
1238	Vitis americana	Blackwood	22.5	Good	4		P		North Area
1239	Fraxinus americana	White Ash	14	Fair	4	R	P		North Area
1240	Fraxinus americana	White Ash	16.5	Fair	4	R	P		North Area
1241	Fraxinus americana	White Ash	17.5, 18.5	Fair	4	R	P		North Area
1242	Fraxinus americana	White Ash	16	Fair			P	Dry Pond	North Area
1243	Picea glauca	White Spruce	30	Good	4	R	P		Dry Pond
1244	Picea glauca	White Spruce	29	Good	4	R	P		Dry Pond
1245	Picea glauca	White Spruce	22	Good	4	R	P		Dry Pond
1246	Picea glauca	White Spruce	27.5	Good	4	R	P		Dry Pond
1247	Fraxinus americana	White Ash	16	Good	4	R	P		Dry Pond
1248	Fraxinus americana	White Ash	14	Poor	4	R	P		Dry Pond
1249	Fraxinus americana	White Ash	11	Poor	2	R	P		Dry Pond
1250	Picea glauca	White Spruce	35	Good	4	R	P		Dry Pond
1251	Picea glauca	White Spruce	19	Good	2	R	P		Dry Pond
1252	Picea glauca	White Spruce	28	Good	4	R	P		Dry Pond
1253	Picea glauca	White Spruce	11	Good	2	R	P	Mult Stems	Dry Pond
1254	Picea glauca	White Spruce	24	Good	4	R	P		Dry Pond
1255	Picea glauca	White Spruce	21	Good	4	R	P		Dry Pond
1256	Picea glauca	White Spruce	23	Good	4	R	P		Dry Pond
1257	Picea glauca	White Spruce	14	Good	4	R	P		Dry Pond
1258	Picea glauca	White Spruce	27	Good	4	R	P		Dry Pond
1259	Picea glauca	White Spruce	22.5	Dead	0	R	P		Dry Pond
1260	Picea glauca	White Spruce	19	Fair		R	P	Branches on one side of free only	Dry Pond
1261	Picea glauca	White Spruce	16	Fair	4		P	Very thin canopy	Dry Pond
1262	Picea glauca	White Spruce	22	Dead	0	R	P		Dry Pond
1263	Picea glauca	White Spruce	22	Good	4	R	P	Grape in canopy	Dry Pond
1264	Picea glauca	White Spruce	31	Good	4	R	P		Dry Pond
1265	Fraxinus americana	White Ash	24	Poor	4	R	P	Severe canopy decline	North Area
1266	Fraxinus americana	White Ash	28	Poor		R	P	Multistem, some canopy decline	North Area
1267	Vitis americana	Blackwood	18	Good	4		P		North Area
1268	Acer saccharum ssp. saccharum	Sugar Maple	16.5, 14, 10.5, 15.5	Good	4		P	Multistem	North Area
1269	Vitis americana	Blackwood	20	Good	4		P		North Area
1270	Ulmus americana	White Elm	23, 30.5	Good	4		P	Grapevine	North Area
1271	Ulmus americana	White Elm	21	Good	4		P	Multistem	North Area
1272	Fraxinus americana	White Ash	21	Poor	4	R	P	Severe decline	Dry Pond
1273	Fraxinus americana	White Ash	12	Poor	4	R	P	Severe decline	Dry Pond
1274	Picea glauca	White Spruce	18.5	Good	4	R	P		Dry Pond
1275	Salix x fragilis	Creek Willow	88	Fair	8	R	P	Codominant stem, one broken	Dry Pond
1276	Salix x fragilis	Creek Willow	102	Fair	8	R	P	2 large canopy limbs broken	Dry Pond
1277	Acer reginoid	Manitoba Maple	12	Good	4		P		Dry Pond
1278	Acer reginoid	Manitoba Maple	11.5	Good	2	R	P		Dry Pond
1279	Acer reginoid	Manitoba Maple	11.5	Good	2	R	P	45 degree lean	Dry Pond
1280	Acer platirodes	Norway Maple	16	Good	4		P		Little Ave
1281	Acer platirodes	Norway Maple	20	Good	4		P	Trunk wound	Little Ave
1282	Acer platirodes	Norway Maple	13	Fair	4	R	P	Chlorotic	Little Ave
1283	Picea glauca	White Spruce	31.5, 18	Good	4	R	P		Dry Pond
1284	Picea glauca	White Spruce	26	Good	4	R	P		Dry Pond
1285	Picea glauca	White Spruce	32	Good	4	R	P		Dry Pond
1286	Picea glauca	White Spruce	22	Good	4	R	P		Dry Pond
1287	Picea glauca	White Spruce	19	Good	4	R	P		Dry Pond
1288	Picea glauca	White Spruce	31	Good	4	R	P		Dry Pond
1289	Picea glauca	White Spruce	20	Good	4	R	P		Dry Pond
1290	Picea glauca	White Spruce	19	Good	4	R	P		Dry Pond
1291	Picea glauca	White Spruce	22	Good	4	R	P		Dry Pond
1292	Prunus serotina	Black Cherry	31	Good	4		P		Dry Pond
1293	Acer saccharum ssp. saccharum	Sugar Maple	30	Good	4		P		Dry Pond
1294	Fraxinus americana	White Ash	30, 57, 54	Poor	6	R	P	Multistem, severe canopy decline	Dry Pond
1295	Picea glauca	White Spruce	18.5	Good	4	R	P		Dry Pond
1296	Picea glauca	White Spruce	18	Good	4	R	P		Dry Pond
1297	Picea glauca	White Spruce	16.5	Good	4	R	P		Dry Pond
1298	Picea glauca	White Spruce	17.5	Good	4	R	P		Dry Pond
1299	Picea glauca	White Spruce	35	Dead	0	R	P		Dry Pond
1300	Picea glauca	White Spruce	20	Dead	0	R	P	Wid grape engulfed	Dry Pond
1301	Picea glauca	White Spruce	20	Good	4	R	P		Dry Pond
1302	Picea glauca	White Spruce	27	Good	4	R	P	Wid grape in canopy	Dry Pond
1303	Picea glauca	White Spruce	18	Dead	0	R	P		Dry Pond
1304	Picea glauca	White Spruce	16.5	Poor	4	R	P	Wid grape in canopy	Dry Pond
1305	Picea glauca	White Spruce	33	Good	4	R	P		Dry Pond
1306	Picea glauca	White Spruce	17	Dead	0	R	P		Dry Pond
1307	Picea glauca	White Spruce	13	Fair	4	R	P	Wid grape in canopy	Dry Pond
1308	Acer saccharum ssp. saccharum	Sugar Maple	29	Good	4	R	P		North Area
1309	Acer saccharum ssp. saccharum	Sugar Maple	28	Good	4	R	P		North Area
1310	Ulmus americana	White Elm	21	Good	4	R	P		North Area
1311	Corypha virginiana	Tomrowood	21	Good	4	R	P		North Area
1312	Acer saccharum ssp. saccharum	Sugar Maple	21	Good	4	R	P		North Area
1313	Acer saccharum ssp. saccharum	Sugar Maple	35.5	Excellent	8	R	P		West
1314	Prunus celtica	Wild Plum	71.5	Excellent	8	R	P		North Area
1315	Corypha virginiana	Tomrowood	18.5	Good	4	R	P		North Area
1316	Acer saccharum ssp. saccharum	Sugar Maple	22	Good	4	R	P		North Area
1317	Acer saccharum ssp. saccharum	Sugar Maple	12.5	Good	4	R	P		North Area
1318	Acer saccharum ssp. saccharum	Sugar Maple	48	Excellent	8	R	P		North Area
1319	Acer saccharum ssp. saccharum	Sugar Maple	19	Good	8	R	P		North Area

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Tag	Botanical	Common Name	DBH (cm)	Condition	TPZ (M) Min. or (optimal) Drillpipe	[R] Remove	[PT] Preserve	Comments	Location
1460	Juglans nigra	Black Walnut	34	Good	4	R		Creeper on trunk	Central Site
1461	Fraxinus americana	White Ash	48	Poor	4	R			Central Site
1462	Ulmus americana	English Elm	14	Good	4	R		Creeper extensive in canopy	Central Site
1463	Juglans nigra	Black Walnut	26	Good	4	R		Creeper in canopy	Central Site
1464	Ulmus americana	White Elm	25	Fair	4	R		Wild grape and creeper extensive in canopy	Central Site
1465	Ulmus americana	White Elm	12	Good	4	R			Central Site
1466	Juglans nigra	Black Walnut	26, 29.5	Good	4	R			Central Site
1467	Juglans nigra	Black Walnut	30	Good	7	R			Central Site
1468	Tilia americana	Basewood	22	Good	4	R			North Area
1469	Tilia americana	Basewood	24	Good	4	R			North Area
1470	Tilia americana	Basewood	21	Good	4	R			North Area
1471	Tilia americana	Basewood	17, 13, 19	Good	4	R			North Area
1472	Quercus rubra	Red Oak	24	Good	4		P	Multitem	North Area
1473	Quercus rubra	Red Oak	38	Good	4	P?		**Horizontal Hording may be required	North Area
1474	Tilia americana	Basewood	14, 10, 8	Good	4	R		Multitem	North Area
1475	Tilia americana	Basewood	16	Good	4	R			North Area
1476	Tilia americana	Basewood	17.5	Good	4	R			North Area
1477	Tilia americana	Basewood	21	Good	4	R			Central Site
1478	Quercus rubra	Red Oak	13	Good	4	R			North Area
1479	Quercus rubra	Red Oak	15, 8	Good	4	R		Multitem	North Area
1480	Quercus rubra	Red Oak	12	Good	4	R			North Area
1481	Quercus rubra	Red Oak	13	Good	4	R			North Area
1482	Quercus rubra	Red Oak	13	Good	4	R			North Area
1483	Quercus rubra	Red Oak	18	Good	4	R			North Area
1484	Quercus rubra	Red Oak	19	Good	4	R	P		North Area
1485	Quercus rubra	Red Oak	11	Good	4	P			North Area
1486	Quercus rubra	Red Oak	12.5	Good	4	P			North Area
1487	Quercus rubra	Red Oak	13	Good	4	P			North Area
1488	Quercus rubra	Red Oak	12	Good	4	P		Few lower branches dead	North Area
1489	Quercus rubra	Red Oak	18, 11.5, 12.5	Good	4	P		Multitem	North Area
1490	Quercus rubra	Red Oak	16, 5	Good	4	P		Multitem	North Area
1491	Quercus rubra	Red Oak	26	Good	4	P			North Area
1492	Quercus rubra	Red Oak	19	Good	4	P		Some canopy dieback	North Area
1493	Quercus rubra	Red Oak	12	Fair	4	P		Epimorphic buds on stem, decline	North Area
1494	Tilia americana	Basewood	33, 5, 5, 4	Good	4	P		Multitem	North Area
1495	Tilia americana	Basewood	23	Good	4	P			North Area
1496	Quercus rubra	Red Oak	28	Good	4	P			North Area
1497	Quercus rubra	Red Oak	43	Excellent	10	P			North Area
1498	Quercus rubra	Red Oak	14, 8	Good	4	P		Multitem, 10% canopy dieback	North Area
1499	Quercus rubra	Red Oak	35	Good	8	P			North Area
1500	Quercus rubra	Red Oak	22	Good	4	P			North Area
1501	Juglans nigra	Black Walnut	18	Good	4				North Area
1502	Tilia americana	Basewood	16, 14.5, 4	Good	4	R		Multitem	North Area
1503	Fraxinus americana	White Ash	15	Poor	4	R		20% LC canopy dead	North Area
1504	Tilia americana	Basewood	14, 14	Good	4	P			North Area
1505	Tilia americana	Basewood	13, 5	Good	4	P		Multitem, some canopy dieback	North Area
1506	Tilia americana	Basewood	17	Good	4	P			North Area
1507	Tilia americana	Basewood	33	Good	5	R			North Area
1508	Pinus sylvestris	Scots Pine	20	Fair	4	R		Thin canopy	North Area
1509	Fraxinus americana	White Ash	19	Poor	4	R		Some canopy dieback	North Area
1510	Pinus strobus	White Pine	31	Good	4	R			North Area
1511	Fraxinus americana	White Ash	18	Fair	4	EAB			North Area
1512	Fraxinus americana	White Ash	10.5	Poor	4	R		EAB	North Area
1513	Fraxinus americana	White Ash	16	Poor	4	R		EAB	North Area
1514	Fraxinus americana	White Ash	16	Poor	4	EAB			North Area
1515	Fraxinus americana	White Ash	15	Poor	4	R		EAB	North Area
1516	Fraxinus americana	White Ash	13.5	Poor	4	R			North Area
1517	Tilia americana	Basewood	14	Good	4	R			North Area
1518	Tilia americana	Basewood	14.5	Good	4	R		epimorphic buds	North Area
1519	Tilia americana	Basewood	12	Good	4	R			North Area
1520	Tilia americana	Basewood	10.5	Good	4	R			North Area
1521	Tilia americana	Basewood	17.5	Good	4	R			North Area
1522	Tilia americana	Basewood	20, 8	Good	4	R		Multitem	North Area
1523	Fraxinus americana	White Ash	17	Fair	4	R		Moderate canopy dieback	North Area
1524	Quercus rubra	Red Oak	43	Excellent	13	P?		** Horizontal hoarding may be required	North Area
1525	Tilia americana	Basewood	20	Good	4	R			North Area
1526	Tilia americana	Basewood	16	Good	4	R			North Area
1527	Fraxinus americana	White Ash	12.7	Poor	4	R		EAB	Central Site
1528	Fraxinus americana	White Ash	13	Poor	4	R			Central Site
1529	Prunus serotina	Black Cherry	17	Poor	4	R		50% LCD	Central Site
1530	Fraxinus americana	White Ash	13	Poor	4	R		EAB	Central Site
1531	Fraxinus americana	White Ash	14.5	Poor	4	R		50% LCD	Central Site
1532	Fraxinus americana	White Ash	19	Poor	4	R		EAB	Central Site
1533	Fraxinus americana	White Ash	23	Dead	4	R			Central Site
1534	Fraxinus americana	White Ash	14	Fair	4	R		Some canopy dieback	Central Site
1535	Fraxinus americana	White Ash	25	Fair	4	R		Codominant stem	Central Site
1536	Fraxinus americana	White Ash	12	Poor	4	R		Some canopy dieback	Central Site
1537	Fraxinus americana	White Ash	10	Fair	4	R		Moderate canopy dieback	Central Site
1538	Ulmus americana	White Elm	12	Good	4	R			North Area
1539	Quercus rubra	Red Oak	45	Excellent	12	P			North Area
1540	Pinus sylvestris	Scots Pine	20	Dead	4	R			North Area
1541	Pinus sylvestris	Scots Pine	33	Good	4	P			North Area
1542	Juglans nigra	Black Walnut	22	Good	4	R			North Area
1543	Pinus sylvestris	Scots Pine	15	Good	4	R			North Area
1544	Acer saccharum ssp. saccharum	Sugar Maple	12	Good	4	R			North Area
1545	Acer saccharum ssp. saccharum	Sugar Maple	13	Good	4	R			North Area
1546	Tilia americana	Basewood	15	Good	4	P			North Area
1547	Tilia americana	Basewood	14.5	Good	4	P			North Area
1548	Tilia americana	Basewood	10	Good	4	R			North Area
1549	Tilia americana	Basewood	12	Good	4	R			North Area
1550	Fraxinus americana	White Ash	13	Poor	4	R		EAB	North Area
1551	Acer saccharum ssp. saccharum	Sugar Maple	14, 14	Good	4	P			North Area
1552	Pinus strobus	White Pine	32	Good	4	P		Multitem, small stem dead	North Area
1553	Pinus sylvestris	Scots Pine	10	Dead	0	R			North Area
1554	Tilia americana	Scots Pine	11, 6	Fair	2	P		Multitem, very thin canopy	North Area
1555	Pinus sylvestris	Scots Pine	19	Fair	4	R			North Area
1556	Fraxinus americana	White Ash	13	Good	4	R			North Area
1557	Fraxinus americana	White Ash	11	Fair	2	R			North Area
1558	Ulmus americana	White Elm	18	Good	4	R			Central Site
1559	Prunus serotina	Black Cherry	18	Good	4	R			Central Site
1560	Fraxinus americana	White Ash	16	Fair	4	R			Central Site
1561	Fraxinus americana	White Ash	17	Fair	4	R			Central Site
1562	Fraxinus americana	White Ash	12	Fair	4	R			Central Site
1563	Fraxinus americana	White Ash	11	Fair	2	R			Central Site
1564	Fraxinus americana	White Ash	15	Fair	4	R			Central Site
1565	Fraxinus americana	White Ash	12	Fair	4	R			Central Site
1566	Fraxinus americana	White Ash	11	Fair	2	R			Central Site
1567	Fraxinus americana	White Ash	14	Fair	4	R			Central Site
1568	Fraxinus americana	White Ash	12	Fair	4	R			Central Site
1569	Fraxinus americana	White Ash	14	Poor	4	R			Central Site
1570	Fraxinus americana	White Ash	17	Poor	4	R			Central Site
1571	Fraxinus americana	White Ash	10.5	Fair	4	R			Central Site
1572	Ulmus americana	White Elm	22	Dead	0	R		Dutch Elm Evident	Central Site
1573	Fraxinus americana	White Ash	10	Fair	2	R			Central Site
1574	Fraxinus americana	White Ash	16	Poor	4	R		Some canopy dieback	North Area
1575	Ulmus americana	White Elm	12	Good	4	P		Slight lean	North Area
1576	Fraxinus americana	White Ash	13	Poor	4	R			North Area
1577	Quercus rubra	Red Oak	35	Good	8	P		Moderate canopy dieback	North Area
1578	Tilia americana	Basewood	12	Fair	4	P			North Area
1579	Tilia americana	Basewood	10.5	Good	4	R			North Area
1580	Tilia americana	Basewood	10, 10	Good	4	R		Multitem	North Area
1581	Tilia americana	Basewood	15	Good	4	R			North Area
1582	Tilia americana	Basewood	16	Good	4	R			North Area
1583	Tilia americana	Basewood	12	Good	4	R			North Area
1584	Tilia americana	Basewood	12	Good	4	R			North Area
1585	Prunus serotina	Black Cherry	20	Dead	0	R			North Area
1586	Fraxinus americana	White Ash	19	Poor	4	R		EAB	Central Site
1587	Fraxinus americana	White Ash	11	Fair	4	R			Central Site
1588	Fraxinus americana	White Ash	16	Fair	4	R			Central Site
1589	Fraxinus americana	White Ash	11	Fair	4	R			Central Site
1590	Fraxinus americana	White Ash	16	Fair	4	R			Central Site
1591	Pinus sylvestris	Scots Pine	27	Fair	4	R		Very thin canopy	Central Site
1592	Fraxinus americana	White Ash	20	Fair	4	R			North Area
1593	Fraxinus americana	White Ash	13	Fair	4	R			North Area
1594	Pinus sylvestris	Scots Pine	11	Dead	0	R			North Area
1595	Populus tremuloides	Trembling Aspen	22	Good	4	R			North Area
1596	Fraxinus americana	White Ash	10	Fair	4	R			North Area
1597	Fraxinus americana	White Ash	11	Fair	4	R			North Area
1598	Populus tremuloides	Trembling Aspen	27	Good	4	R			North Area
1599	Fraxinus americana	White Ash	14	Dead	0	R			North Area
1600	Populus tremuloides	Trembling Aspen	20	Good	4	R			North Area
1601	Populus tremuloides	Trembling Aspen	14	Dead	0	R			North Area
1602	Populus tremuloides	Trembling Aspen	13	Dead	0	R			North Area
1603	Acer saccharum ssp. saccharum	Sugar Maple	16	Good	4	P			North Area
1604	Acer saccharum ssp. saccharum	Sugar Maple	11	Good	2	P			North Area
1605	Populus tremuloides	Trembling Aspen	28	Good	4	P			North Area
1606	Acer saccharum ssp. saccharum	Sugar Maple	13	Good	4	P			North Area
1607	Quercus rubra	Red Oak	12	Good	4	P			North Area
1608	Quercus rubra	Red Oak	21	Good	4	P		Some canopy dieback	North Area
1609	Acer saccharum ssp. saccharum	Sugar Maple	19	Good	4	P			North Area
1610	Populus tremuloides	Trembling Aspen	16	Good	4	R			North Area
1611	Populus tremuloides	Trembling Aspen	24	Good	4	R			North Area
1612	Fraxinus americana	White Ash	11, 8	Poor	2	R			North Area
1613	Populus tremuloides	Trembling Aspen	26	Good	4	R			North Area
1614	Populus tremuloides	Trembling Aspen	22	Good	4	R			North Area
1615	Populus tremuloides	Trembling Aspen	25	Good	4	R			North Area
1616	Populus tremuloides	Trembling Aspen	13	Dead	0	R			North Area
1617	Populus tremuloides	Trembling Aspen	13	Poor	4	R		greater than 90% LCD, few leaves in canopy	North Area
1618	Populus tremuloides	Trembling Aspen	17	Good	4	R			North Area
1619	Populus tremuloides	Trembling Aspen	15	Good	4	R			North Area

Tag	Botanical	Common Name	DBH (cm)	Condition	TPZ (M) Min. or (optimal) Drillpipe	[R] Remove	[PT] Preserve	Comments	Location	
1620	Fraxinus americana	White Ash	12	Poor	2	R			North Area	
1621	Tilia americana	Basewood	16, 16	Good	4	R			North Area	
1622	Juglans nigra	Black Walnut	25	Good	4		P		North Area	
1623	Acer saccharum ssp. saccharum	Sugar Maple	17	Good	4	R			North Area	
1624	Populus tremuloides	Trembling Aspen	28	Good	4	R			North Area	
1625	Acer saccharum ssp. saccharum	Sugar Maple	12	Good	4	R			North Area	
1626	Fraxinus americana	White Ash	11	Poor	2	R			North Area	
1627	Populus tremuloides	Trembling Aspen	13	Dead	0	R			North Area	
1628	Populus tremuloides	Trembling Aspen	17	Dead	0	R			North Area	
1629	Tilia americana	Basewood	17	Good	4	P			North Area	
1630	Tilia americana	Basewood	19	Dead	0	R			North Area	
1631	Populus tremuloides	Trembling Aspen	19	Good	4	R			North Area	
1632	Tilia americana	Basewood	15	Good	2		P	Insect damage on leaves	Boundary Tree	
1633	Picea glauca	White Spruce	45	Excellent	6		P		North Area	
1634	Picea virginiana	Incommod	20	Good	4	R			South limits	
1635	Picea glauca	White Spruce	24.5	Good	4	R			South limits	
1636	Pinus strobus	White Pine	68.5	Excellent	6		P?	** Grading Adjustment Horizontal boring	Boundary Tree	
1637	Picea glauca	White Spruce	19	Dead	0	R			South limits	
1638	Juglans nigra	Black Walnut	12	Good	4		P	Creepers in lower canopy	South limits	
1639	Picea glauca	White Spruce	146	Excellent	5		P		South limits	
1640	Picea glauca	White Spruce	19	Dead	0	R			South limits	
1641	Juglans nigra	Black Walnut	65.5	Excellent	14	R			South limits	
1642	Picea glauca	White Spruce	26	Good	4	R			Central Site	
1643	Juglans nigra	Black Walnut	36	Good	4	R			Central Site	
1644	Picea glauca	White Spruce	31	Good	4	R		10% LCD	Central Site	
1645	Picea glauca	White Spruce	22	Good	4	R			Central Site	
1646	Picea glauca	White Spruce	31	Good	4	R			Central Site	
1647	Picea glauca	White Spruce	48.5	Excellent	4	R			Central Site	
1648	Fraxinus americana	White Ash	12, 6.4	Poor	2	R		Multistem	Central Site	
1649	Acer saccharum ssp. saccharum	Sugar Maple	21	Good	4	R			Central Site	
1650	Acer saccharum ssp. saccharum	Sugar Maple	17, 24	Good	4	R		Multistem	Central Site	
1651	Acer saccharum ssp. saccharum	Sugar Maple	16, 12	Good	4	R			Central Site	
1652	Acer saccharum ssp. saccharum	White Ash	12	Poor	4	R			Central Site	
1653	Fraxinus americana	White Ash	14	Poor	4	R			Central Site	
1654	Fraxinus americana	White Ash	19	Poor	4	R			Central Site	
1655	Fraxinus americana	White Ash	20	Poor	4	R			Central Site	
1656	Fraxinus americana	White Ash	22	Poor	4	R			Central Site	
1657	Fraxinus americana	White Ash	13	Poor	4	R			North Area	
1658	Fraxinus americana	White Ash	14	Poor	4	R			Central Site	
1659	Fraxinus americana	White Ash	13	Poor	4	R			Central Site	
1660	Picea glauca	White Spruce	34	Good	4	R			Central Site	
1661	Picea glauca	White Spruce	38	Good	4	R			Central Site	
1662	Acer saccharum ssp. saccharum	Sugar Maple	20	Good	4	R		Codominant stem	North Area	
1663	Acer saccharum ssp. saccharum	Sugar Maple	15, 12	Good	4	R		Multistem	North Area	
1664	Fraxinus americana	White Ash	26	Good	4	R			North Area	
1665	Fraxinus americana	White Ash	10.5	Dead	0	R			North Area	
1666	Fraxinus americana	White Ash	12	Fair	4	R			Central Site	
1667	Acer saccharum ssp. saccharum	Sugar Maple	18	Good	4	R			Central Site	
1668	Fraxinus americana	White Ash	10	Poor	2	R			Central Site	
1669	Acer saccharum ssp. saccharum	Sugar Maple	16	Good	4	R			Central Site	
1670	Fraxinus americana	White Ash	14	Fair	4	R			North Area	
1671	Fraxinus americana	White Ash	11.5	Poor	11.5	R			North Area	
1672	Tilia americana	Basewood	14	Good	4	R			North Area	
1673	Populus tremuloides	Trembling Aspen	15	Dead	0	R			North Area	
1674	Populus tremuloides	Trembling Aspen	20	Good	4	R			North Area	
1675	Acer saccharum ssp. saccharum	Sugar Maple	17	Good	4	R			North Area	
1676	Fraxinus americana	White Ash	19	Fair	4	R			North Area	
1677	Fraxinus americana	White Ash	16	Fair	4	R			Central Site	
1678	Populus tremuloides	Trembling Aspen	21	Dead	0	R			Central Site	
1679	Populus tremuloides	Trembling Aspen	16	Good	4	R			Central Site	
1680	Acer saccharum ssp. saccharum	Sugar Maple	14	Good	4	R			Central Site	
1681	Pinus strobus	White Pine	22	Good	4	R			Central Site	
1682	Fraxinus americana	White Ash	17	Fair	4	R			Central Site	
1683	Fraxinus americana	White Ash	11	Fair	4	R			Central Site	
1684	Fraxinus americana	White Ash	11.5	Fair	4	R			Central Site	
1685	Fraxinus americana	White Ash	16	Fair	4	R			Central Site	
1686	Milvix pumila	Apple	13, 15, 4, 4, 6	Poor	4	R		Multistem, 90% canopy dieback	Central Site	
1687	Juglans nigra	Black Walnut	18	Good	4	R			Central Site	
1688	Fraxinus americana	White Ash	12	Fair	4	R			Central Site	
1689	Fraxinus americana	White Ash	12	Fair	4	R			Central Site	
1690	Fraxinus americana	White Ash	14	Fair	4	R			Central Site	
1691	Fraxinus americana	White Ash	12	Fair	4	R		Broken canopy branches	Central Site	
1692	Fraxinus americana	White Ash	15	Fair	4	R			Central Site	
1693	Fraxinus americana	White Ash	18	Fair	4	R			Central Site	
1694	Pinus sylvestris	Scots Pine	18	Good	4	R			Central Site	
1695	Fraxinus americana	White Ash	18	Good	4	R			Central Site	
1696	Fraxinus americana	White Ash	13	Fair	4	R		Lower branches dead	Central Site	
1697	Fraxinus americana	White Ash	10	Fair	2	R			Central Site	
1698	Fraxinus americana	White Ash	10	Fair	2	R			Central Site	
1699	Fraxinus americana	White Ash	11	Fair	2	R			Central Site	
1700	Fraxinus americana	White Ash	16, 10	Fair	4	R		Multistem	Central Site	
1701	Fraxinus americana	White Ash	14	Fair	4	R			Central Site	
1702	Fraxinus americana	White Ash	16	Fair	4	R		Wild grape in canopy	Central Site	
1703	Fraxinus americana	White Ash	13	Fair	4	R			Central Site	
1704	Fraxinus americana	White Ash	13	Fair	4	R			Central Site	
1705	Fraxinus americana	White Ash	13	Fair	4	R			Central Site	
1706	Fraxinus americana	White Ash	12	Fair	4	R			Central Site	
1707	Pinus sylvestris	Scots Pine	20	Good	4	R			Central Site	
1708	Fraxinus americana	White Ash	12	Fair	4	R			Central Site	
1709	Fraxinus americana	White Ash	12	Fair	4	R			Central Site	
1710	Fraxinus americana	White Ash	14	Fair	4	R			Central Site	
1711	Fraxinus americana	White Ash	14	Fair	4	R			Central Site	
1712	Fraxinus americana	White Ash	11	Poor	2	R			Central Site	
1713	Pinus sylvestris	Scots Pine	13	Fair	4	R		Thin canopy	Central Site	
1714	Fraxinus americana	White Ash	12	Fair	4	R			Central Site	
1715	Fraxinus americana	White Ash	11	Fair	4	R			Central Site	
1716	Fraxinus americana	White Ash	12	Fair	4	R			Central Site	
1717	Fraxinus americana	White Ash	12	Fair	4	R			Central Site	
1718	Fraxinus americana	White Ash	13, 13	Fair	4	R		Multistem	Central Site	
1719	Fraxinus americana	White Ash	10.5	Fair	2	R			Central Site	
1720	Fraxinus americana	White Ash	14	Fair	4	R			Central Site	
1721	Fraxinus americana	White Ash	11	Fair	2	R			Central Site	
1722	Fraxinus americana	White Ash	12, 12	Fair	4	R			Central Site	
1723	Fraxinus americana	White Ash	11	Fair	2	R			Central Site	
1724	Fraxinus americana	White Ash	12	Fair	4	R			Central Site	
1725	Fraxinus americana	White Ash	11	Fair	2	R			Central Site	
1726	Fraxinus americana	White Ash	12	Fair	4	R			Central Site	
1727	Fraxinus americana	White Ash	18	Fair	4	R			Central Site	
1728	Fraxinus americana	White Ash	21	Fair	4	R			Central Site	
1729	Pinus sylvestris	Scots Pine	35	Dead	0	R			Central Site	
1730	Fraxinus americana	White Ash	16	Good	4	R			Central Site	
1731	Pinus strobus	White Pine	15	Good	4	R			Central Site	
1732	Fraxinus americana	White Ash	16	Good	4	R			Central Site	
1733	Fraxinus americana	White Ash	12	Poor	4	R			Central Site	
1734	Fraxinus americana	White Ash	10, 10	Good	2	R		Multistem	Central Site	
1735	Fraxinus americana	White Ash	13	Fair	4	R		Grapevine extensive in canopy	Central Site	
1736	Fraxinus americana	White Ash	12	Poor	4	R		Grapevine extensive in canopy	Central Site	
1737	Fraxinus americana	White Ash	16	Fair	4	R		Grapevine extensive in canopy	Central Site	
1738	Fraxinus americana	White Ash	16	Dead	0	R		Grapevine canopy	Boundary Tree	
1739	Fraxinus americana	White Ash	12	Dead	0	R			Central Site	
1740	Juglans regia	Black Cherry	16	Poor	4	R			Central Site	
1741	Fraxinus americana	White Ash	16	Poor	4	R			Central Site	
1742	Fraxinus americana	White Ash	19	Poor	4	R			Central Site	
1743	Pinus serotina	Black Cherry	16, 16	Good	4	R		Grapevine extensive in canopy	Central Site	
1744	Fraxinus americana	White Ash	11	Poor	2	R			Central Site	
1745	Fraxinus americana	White Ash	15	Poor	4	R		Grapevine extensive in canopy	Central Site	
1746	Fraxinus americana	White Ash	20	Good	4	R		Grapevine extensive in canopy	Central Site	
1747	Acer saccharum ssp. saccharum	Sugar Maple	42	Good	4		P		Boundary Tree	
1748	Acer saccharum ssp. saccharum	Sugar Maple	22	Good	4		P		Boundary Tree	
1749	Acer saccharum ssp. saccharum	Sugar Maple	36.5	Good	4		P	** Horizontal boring may be required	Boundary Tree	
1750	Acer saccharum ssp. saccharum	Sugar Maple	36	Good	4		P	** Horizontal boring may be required	Boundary Tree	
1751	Acer saccharum ssp. saccharum	Sugar Maple	38	Good	4		P	** Horizontal boring may be required	Boundary Tree	
1752	Acer saccharum ssp. saccharum	Sugar Maple	52	Good	4	R			Forest Drive	
1753	Acer saccharum ssp. saccharum	Sugar Maple	42.5	Good	8	R			Forest Drive	
1754	Acer saccharum ssp. saccharum	Sugar Maple	34	Good	4	R			Forest Drive	
1755	Acer saccharum ssp. saccharum	Sugar Maple	50	Fair	4	R		slight lean - suppressed canopy	Forest Drive	
1756	Acer saccharum	Silver Maple	102	Good	12		P	Large trunk extends over property line	Boundary Tree	
1757	Fraxinus	Ash	41	Good	5				South limits	
1758	Acer saccharinum	Silver Maple	61	Poor	8		P / H	Significant lean, numerous broke lower limbs , top dead	Boundary Tree	
1759	Fraxinus	Ash	42	Poor	4	R			South limits	
1760	Fraxinus	Ash	14, 12	Poor	4	R			South limits	
1761	Staph. s. willisii tree	English Walnut	71	NS	0		P?	Retain where possible for wildlife (bats)	South limits	
1762	Juglans regia	Black Cherry	67	Good	8		P?	Large trunk over property line?	Boundary Tree	
1763	Pinus serotina	Black Cherry	61	Fair	8		P?	Bulbus at base difficult to measure	Boundary Tree	
1764	Juglans regia	English Walnut	62	Fair	8		P?	Large trunk over property line?	Boundary Tree	
1765	Acer negundo	Manitoba Maple	42, 49	Fair	8		P?		Boundary Tree	
1766	Acer saccharum ssp. saccharum	Sugar Maple	51	Good	8		P?		Boundary Tree	
1767	Juglans regia	English Walnut	42	Fair	8	R			South limits	
1768	Juglans regia	English Walnut	41	Fair	4	R			South limits	
1769	Fraxinus	Ash	26	Poor	4	R			South limits	
1770	Fraxinus	Ash	25	Poor	4	R			South limits	
1771	Fraxinus	Ash	22	Poor	4	R			South limits	
1772	Acer saccharum ssp. saccharum	Sugar Maple	45	Fair	4	R		P?	Upper canopy damage / 20% LCD	Boundary Tree
1773	Acer saccharum ssp. saccharum	Sugar Maple	38	Good	4				Boundary Tree	
1774	Fraxinus	Ash	20	Poor	4	R			South limits	
1775	Juglans regia	English Walnut	38	Good	4	R			South limits	
1776	Pinus strobus	White Pine	48	Good	4	R			South limits	
1777	pinus serotina	Black Cherry	49 / 32	Fair	4		P?		Boundary Tree	
1778	Pinus strobus	White Pine	61	Good	8				South limits	
1779	Fraxinus	Sugar Maple	28 / 18	Poor	4	H		Included bark, splitting at codominant stem limbs	South limits	



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