APPENDIX C: Tree Study

- Technical Memo
- Appendix A: Existing and Proposed Site Plans
- Appendix B: Tree Inventory and Management Plan
- Appendix C: Jerry's Pond Tree Inventory and Management Plan
- Appendix D: Tree Protection Plan
- Appendix E: Planting Plans

Memorandum

To: City of Cambridge Tree Warden
Public Works
147 Hampshire Street
Cambridge, MA 02139

Date: December 13, 2021

Project #: 14968.01

From: Howard Moshier

Re: IQHQ - Alewife Redevelopment
Tree Study

IQHQ-Alewife, LLC (the "Applicant") is proposing to redevelop a portion of an approximately 19.6-acre site, which is bound by Whittemore Avenue to the north, Alewife Brook Parkway to the west, the MBTA Alewife Headhouse and Jerry's Pond to the south and Russell Field and the Alewife Linear Park to the east (the "Project Site"). The Project creates a smaller-scale research based complex or "village" comprised of three new buildings, a new parking garage and a combination of improvements and internal renovations to two existing buildings.

The Project presents an exciting redevelopment opportunity to modernize and expand upon the existing GCP Applied Technologies ("GCP"), formerly W.R. Grace site, by providing a world-class hub for research and innovation, restoring public access to the surrounding natural areas, as well as creating meaningful connections among adjacent communities. The primary goal for the Project is to create a vibrant, resilient, highly connected, and inclusive community in this North Cambridge neighborhood.

To help achieve this primary goal, the Project is designed to offer future protection of enhanced and curated natural spaces and habitats. The Project is proposing the creation of a natural habitat within the Project Site that will be comprised of a series of landscape solutions appropriate to the areas within the current floodplain. A bioswale makes up the lowest elevations of this area with native wildflower meadows and woodland preserves making up the higher elevation areas of the habitat. Located at the northern and western edges, three overlooks and seating areas have been included to provide for public enjoyment of the habitat. Please refer to Appendix A for existing and proposed site plans.

The Project will be compliant with applicable zoning and construction and development of the Project will comply with the asbestos protection ordinance and Cambridge Conservation Commission requirements. Please note that, while the Jerry's Pond area is not part of the Project Site, the Applicant is offering conditions and commitments related to creating pedestrian connections and amenities on the site containing Jerry's Pond located immediately to the south of the Project Site and other improvements to Russell Field, DCR Property along Route 16 and the MBTA Alewife Park headhouse as part of our special permit (each of these will be addressed in greater detail in separate permitting applications).

Site Planning Strategies

The limit of development for the Project has been carefully sited, to the extent possible, within previously developed land to minimize disturbance to existing vegetation, soil, and other environmental resources. The landscaping will

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P 617.728.7777

provide new community connections, public spaces, the creation of a several acre natural habitat, and the planting of 656 new trees (1,420.25 new caliper inches). Proposed tree and understory plantings will be derived from the native New England plant palette to be compatible with the existing site conditions and to emphasize the indigenous character of this important landscape type. The current proposed planting palette includes native trees such as Red Maple, American Linden, River Birch and Pin Oak.

The Project Site has certain characteristics that impose significant planning constraints that have resulted in the site plan as presented herein. Two of these constraints are (1) the site being located within the existing 100-year flood elevation and the City of Cambridge Floodplain Overlay District and (2) the presence of historic asbestos contamination due to previous site activities.

The Applicant has confined new development to previously disturbed areas and parking lots, with the exception of the parking garage which is required to be constructed above grade pursuant to applicable zoning. However, the buildings and associated site improvements will have an impact on the existing floodplain that requires on-site mitigation. Every quantity of fill imported for the Project needs to be offset by the same amount of cut within the floodplain. Most of the proposed compensatory floodplain is generally located between the proposed garage, the MBTA headhouse and Russell Field. This area has several trees that will be impacted which are discussed further below.

Since the Project began, the Applicant has participated in numerous meetings with community groups. The process has been productive and resulted in many improvements to the Project. One improvement being proposed at the request of the community is the introduction of a portion of the required compensatory storage to an IQHQ-controlled area located between the intersection of Rindge Avenue and Alewife Brook Parkway and Jerry's Pond. This area is generally referred to as the Southwest Corner of Jerry's Pond. This improvement reduces the overall impact to existing trees.

In compliance with the Cambridge Asbestos Ordinance, the Project will conduct excavations in a controlled "tented and vented" manner. The logistics of excavating under a structure are challenging and the "tent" sizes will need to be large to achieve the grading necessary to compensate for the floodplain mitigation.

These constraints present challenges to the strategic preservation as trees since the process of creating the compensatory flood storage and logistics of the controlled excavations make it difficult to treat every tree individually.

Existing Conditions Survey

The Applicant retained the services of Feldman Land Surveyors, a licensed land surveyor, to field survey the site. That survey was used as a base for the Arborist's field survey.

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Arborist Report

The Applicant retained the services of Bartlett Tree Experts, certified arborists, to conduct an initial tree inventory and management plan for the Project's Development Area (that area generally north of the MBTA headhouse). That report is included as Appendix B. Following the preparation of the initial arborist report, IQHQ commissioned Bartlett to conduct the same inventory for the remainder of IQHQ's property – referred to as the Jerry's Pond Area. That study is included herein as Appendix C.

As noted in the initial report, the Arborist identified 539 trees within the Development Area that included 27 species. Of the 539 inventoried trees within the Development Area, 73 are outside of the Project Site and will be unaffected by the Project. Two of the inventoried trees were under 6-inches caliper and two were dead and thus not subject to the Tree Ordinance. Overall, the trees located throughout the development area were rated in condition from dead to good with approximately 52% characterized as good, 33% as fair, 13% as poor and 1% as dead.

In the Jerry's Pond area and outside of the Development Area, the Arborist identified 501 additional trees, with approximately 45% characterized as in good condition, 35% as fair, 17% as poor and 3% as dead.

Site Plan, Tree Removal, Tree Planting, Tree Replacement Fund and Tree Nursery

As shown on the attached Tree Protection Plan (see Appendix D), the Project requires the removal of numerous trees. This tree removal is attributable to three general factors – (1) the location of a tree relative to proposed building and site improvements, (2) trees being dead and (3) creation of compensatory floodplain and associated soil management logistics due to potential soil contamination.

Within the Project Development Area, 354 existing trees (>6-in diameter breast height (dbh)) will remain, containing approximately 4,422 jurisdictional (over 6-inches) caliper inches and 108 trees with diameters above 6-inches, containing approximately 1,324 caliper-inches, will be removed. One 31-inch Exceptional Tree (#333) was inventoried. Within the Project Site, the arborist noted the following trees as dead: 94, 232, 251, 379, 382 and 476.

Outside of the Project Development Area near the Southwest Corner of Jerry's Pond, the Project will remove 8 existing trees, containing approximately 87 jurisdictional caliper inches.

A summary of tree impacts is presented in Table 1. Tree planting plans are provided in Appendix E.

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Table 1 – Tree Summary (greater than 6-in dbh)

	Quantity	Total Caliper Inches
Existing Trees in Development Area	462	5,746
Existing Trees to be Removed in Development Area	(108)	(1,324)
Existing Trees to be Removed at Southwest Corner of Jerry's Pond	(8)	(87)
Proposed New Trees	656	1420
Proposed Total Tree Count	1,002	5,755
Difference from Existing	+540	+9

When the final landscaping is installed as shown in Table 1 the Project Site will contain 540 more trees that are appropriate for this location and habitat than exist today. The trees that will be planted will be selected to create a curated environmental to enhance the to-be protected natural habitat and compliment the curated open spaces west of the Alewife Brook Parkway.

The Applicant will not be required to make a payment into the City's Tree Replacement Fund because the proposed planting strategy fully replicates the removed total caliper inches.

In addition to the planting described above and the contribution to be made to the City's Tree Replacement Fund, the Applicant intends to construct a garage roof-top tree nursery as part of the Project. The Applicant has been working with Green Cambridge on the specifications to allow urban trees to be grown on the proposed garage's roof. Once these trees have been sufficiently grown, they will be planted within the City of Cambridge to increase the urban tree canopy in other areas of the City. Due to the transient nature of the nursery, these trees have not been included in the proposed new tree count.

The current build-out schedule for the Project is between two and three years. The Applicant intends to conduct the replacement plantings as construction proceeds with final plantings proposed towards the completion of the core and shell and landscaping project elements.

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P 617.728.7777

Memorandum

APPENDICES

Appendix A – Existing and Proposed Site Plans

Appendix B - Arborist Report

Appendix C – Jerry's Pond Arborist Report

Appendix D – Tree Protection Plan

Appendix E – Tree Planting Plans

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APPENDIX A: Existing and Proposed Site Plans

36-64 WHITTEMORE AVE.
EXISTING SITE PLAN

Gensler

IQHQ

HALEY ALDRICH

SHADLEY ASSOCIATES

vhb

36-64 WHITTEMORE AVE.

PROPOSED SITE PLAN

Gensler

IQHQ

HALEY ALDRICH

SHADLEY ASSOCIATES

vhb.

APPENDIX B: Tree Inventory and Management Plan

IQHQ | One Alewife Center
Tree Inventory and Management Plan | 2021

Submitted by:
Bartlett Tree Experts

Timothy Armstrong, Regional Inventory Arborist
ISA Board Certified Master Arborist #NE-7132B, Massachusetts Certified Arborist #2464, ISA Tree Risk Assessment Qualified, Certified Treecare Safety Professional #953

Andrew Balon, Arborist Representative
ISA Certified Arborist #NE-7015A, ISA Tree Risk Assessment Qualified

Bartlett Tree Experts
Waltham Office
50 Bear Hill Road
Waltham, Massachusetts 02451
(781) 622-5980
www.bartlett.com

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MAKING THE MOST OF YOUR INVENTORY MANAGEMENT PLAN

Those who operate a large business or institution understand how inventory impacts operations and budgeting. One must know what's there, how much or how many, and where it all is. But the task doesn't end there. To obtain the greatest benefit from inventory, owners or their designees must manage it. Are a company's tools, for example, old and defective, in need of repair, in short supply, or useless and taking up space that could be better occupied? A good management plan will address these issues and keep the inventory current, in good condition, and functioning for the benefit and safety of those involved.

Managing trees on a large property can seem like an overwhelming task, but the same principles of inventory management apply. This inventory and management plan should provide managers the data they need to develop realistic budgets for their tree maintenance needs, and it will help make the Shadley Alewife a safer and more beautiful environment.

The following tips will assist you in making the most of this document:

Who's Who

Those who conducted the inventory and prepared this document are members of the Bartlett Inventory Solutions team. They are also employees of Bartlett Tree Experts. The Bartlett Inventory Solutions team is overseen by Technical Advisors out of the Bartlett Tree Research Laboratories in Charlotte, North Carolina. The advisors are primarily charged with client support, coordination, quality control, and documentation of inventories and the related data. Extensively trained Regional Inventory Arborists from local Bartlett Tree Experts offices are the primary data collectors and authors of the management plans. Readers may interpret the terms "Bartlett Tree Experts," "Bartlett," "the Inventory Team," "the team," "we," and "our" as the Bartlett company and those who conducted the inventory and prepared this management plan. In addition to the primary author(s) listed on the cover page, Team Member(s) involved in this project included:

Technical Advisor
Chris Breedlove, Consulting Advisor
ISA Certified Arborist #SO-10506A, ISA Tree Risk Assessment Qualified

Data Collection
Timothy Armstrong, Regional Inventory Arborist
Massachusetts Certified Arborist #2464, ISA Board Certified Master Arborist #NE-7132B
ISA Tree Risk Assessment Qualified, Certified Treecare Safety Professional #953

Kat Cummings, Regional Inventory Arborist
ISA Certified Arborist #NE-7396A, Massachusetts Certified Arborist #102013,
ISA Tree Risk Assessment Qualified

Subject Trees

In this document, the term "subject trees" refers (depending on context) to some or all of the 539 trees included in the inventory.

Definitions & Bolded Terms

Some definitions or specifications are detailed within a given section to explain how readers should interpret certain terms or classifications. We have also appended a Glossary for other terms that appear throughout the document. The first reference to each of these terms appears in **bold** for the reader's convenience.

How This Document is Organized

An outline appears below that introduces the order in which the sections of the management plan will appear. The management plan layout is as follows:

- **Table of Contents**
  - Road map for the management plan
- **Making the Most of Your Inventory Management Plan**
  - Explanations for how to efficiently and effectively understand and navigate this management plan document
- **Executive Summary**
  - Synopsis of the major findings and recommendations
- **Introduction**
  - Brief explanation of the inventory and what was included
- **Goals & Objectives**
  - Explanation of the specific goals and objectives for this inventory
- **Data Collection & Tree Inspection Methodology**
  - Lists, explanations, and definitions of all data collected during the inventory
- **Tree Risk Assessment and Mitigation**
  - Summary of *overall tree risk ratings* assigned during the inventory with corresponding table and map displays with figures if applicable
  - Summary of *Level 3 Advanced assessments* recommended during the inventory (summarized in the *overall tree risk ratings* table) with a map display and figures if applicable
- **Stand Dynamics Results**
  - Summary information for the entire tree population inventoried

- **Recommendations**
  - Summary of all recommendations made during the inventory including associated table and map displays, explanations and examples, and figures if applicable
- **Defects or Observations**
  - List of all trees observed to have defects in the field in a table view with associated descriptive figures and maps if applicable
- **Entire Inventory**
  - List of all trees collected in a table display
- **Additional Resources**
  - Listing of all appended items for this management plan

EXECUTIVE SUMMARY

In May 2021, the Bartlett Inventory Solutions (BIS) Team from Bartlett Tree Experts conducted an inventory of trees on the One Alewife Center site. We identified 539 trees which included 27 species. The attributes that we collected include tree latitude and longitude, size, age and condition class, and a visual assessment of tree structure, health, and **vigor**. All trees were assessed for risk and had risk information recorded even where there were no targets.

We conducted the attribute collection using a sub-meter accuracy Global Positioning Satellite Receiver (GPSr) device with an error-in-location potential of not greater than three meters. Our recommendations for the subject trees are based on the number of desired management cycles. All tree work activities will comply with current American National Standards Institute (ANSI) Z133.1 requirements for safety.

Tree Risk Assessments and Mitigation

Perform the recommended tree risk mitigation activities for the 539 trees (100%) which we found defects or concerns that prompted the need to use the International Society of Arboriculture's (ISA) risk matrices in the field. Risk mitigation activities will comply with current ANSI A300 standard practices. Please see the Tree Risk Assessments, Limitations & Glossary section for more information.

Level 3 Advanced Assessment

At the time of inventory, no trees were recommended for *Level 3 Advanced assessments* to evaluate the impact of wood decay. However, as trees continue to grow and site changes occur, we recommend continual consultation with your local Bartlett Arborist Representative to determine if *Level 3 Advanced assessments* are warranted in the future.

Soil Sampling

Taking soil samples throughout planting beds and actively managed areas. Soil analysis provides information on the presence of soil nutrients, pH, organic matter, and cation exchange capacity.

Bulk Density Sampling

Taking bulk density samples throughout planting beds and actively managed areas to determine the amount of soil compaction.

Mulching

Wherever possible, apply 2-4 inches of mulch within the root zone to help moderate soil temperatures, reduce soil moisture loss, reduce soil compaction, provide nutrients, improve soil structure, and keep mowers and string trimmers away from tree trunks. The best mulch materials are wood chips, bark nuggets, composted leaves, or pine needles. To avoid potential disease problems, mulch should not be placed directly against the trunk.

Root Collar Excavations

Perform **root collar** excavations to 19 trees (4%) to lower risk of damaging conditions such as **girdling roots**, basal cankers, masking of root decay and lower-stem decay, and predisposing trees to various insect and disease pests.

Plant Health Care (PHC)

Implement Bartlett's PHC program to monitor pests and diseases on the subject trees. Treatments are therapeutic and preventive, and treatment timing is based on pest life cycle.

Pruning

Prune 51 trees (9%) for safety, health, structure, and appearance. Pruning will comply with current ANSI A300 standard practices for pruning.

Structural Support

There are structural support system recommendations for 8 trees (1%) to reduce risk of branch or whole tree failure. All structural support systems will comply with current ANSI A300 standard practices for supplemental support systems.

Lightning Protection

At the time of inventory, no trees were recommended for lightning protection systems. However, as trees continue to grow and site changes occur, we recommend continual consultation with your local Bartlett Arborist Representative to determine if lightning protection systems are warranted in the future.

Removals

Remove 36 trees (7%) due to condition or because of their location in relation to other trees to try and prevent competition or damage to infrastructure.

Vine Removal

Remove vines from 59 trees (11%) to try and prevent them from hiding defects.

INTRODUCTION

In May 2021, IQHQ in Boston MA retained Bartlett Tree Experts to perform an inventory of trees on the One Alewife Center site. Team member Tim Armstrong and Kat Cummings visited the site on May 19-22 to conduct the inventory.

The inventory included:

- identifying trees and assigning a Tree ID number (Tree ID numbers ranging from 1 to 539);
- identifying the trees' condition, health, and vigor;
- recommending risk evaluations and removals of appropriate trees;
- recommending tree care, soil care, structural support, and pest management treatments to promote tree safety, health, appearance, and longevity; and
- mapping the trees using GPSr hardware and Geographic Information System (GIS) software, and Bartlett Tree Experts' ArborScope™ web-based management system

The methods and procedures we used to make the above determinations and recommendations are detailed in the following sections.

GOALS & OBJECTIVES

An effective management plan communicates clear goals and the specific objectives designed to carry out those goals. We intend "goal" to mean the overall aim or result we expect to achieve for the client in producing the inventory and management plan. The objectives are the specific actions taken or recommended to support goal completion. The table below describes each goal and its corresponding objective(s).

GOALS & OBJECTIVES

GOAL	OBJECTIVES TO ACCOMPLISH GOAL
Establish the tree inventory (per numbers agreed) on the One Alewife Center site.	• Using Trimble® Geo GPSr hardware and ArborScope™ Inventory Management Tools, collect data such as tree name, location, size, age class, and condition class. • Assign a Tree ID number to each tree inventoried.
Provide mechanism for managing inventory, recommendations, and related budget planning.	• Provide map or maps of the inventoried trees to assist the client in managing property areas. • Submit a comprehensive management plan that documents and organizes findings and provides other resources to assist the client in efficient use of the information.
Maximize client understanding and implementation of management plan.	• Include in management plan specific explanations and visuals related to plan recommendations. • Provide appended resources that address health, procedures, and standards related to tree care. • Make periodic contact with client to follow up and answer any questions about the management plan's contents.
Maximize immediate and long-term tree health and aesthetics.	Implement recommended plant-health-care program that uses • integrated pest management • soil care • maintenance pruning
Manage immediate and long-term risk associated with trees in high-use areas.	Implement recommended risk-management measures that include • risk-reduction pruning • required removals • tree structure evaluations

DATA COLLECTION & TREE INSPECTION METHODOLOGY

In conducting the inventory, we used specialized equipment and software and followed specific procedures to determine tree characteristics, risk evaluations, and recommendations. The following explanation will assist the reader in interpreting the findings of this management plan.

Data Collection Equipment & Attribute Data

The Inventory Team used Trimble® Geo GPSr hardware units, TerraSync® and GPS Pathfinder® Office GIS software, and Bartlett Tree Experts' ArborScope™ web-based management system to inventory the trees. The attribute data we collected on site are listed below.

- botanical name and regional common name according to local ISA Chapter Tree Species List
- tree location based on GPS coordinate system
- tree ID number
- diameter at breast height (**DBH**)
- canopy radius
- age class
- height class
- condition class
- root zone infringement, based on **dripline** and estimated **grayscape** (e.g., sidewalks) impact on root zone
- infrastructure interaction (between trees and grayscape that may cause an undesirable condition
- documented *Level 2 Basic assessment* for tree risk where defects or concerns were observed that prompted the need to use the ISA risk matrices in the field resulting in an *overall tree risk rating*
- Tree & Shrub Work phase (based on number of desired management cycles)
- pruning category
- need for and inspection of existing structural support systems
- need for and inspection of existing lightning protection systems
- need for *Level 3 Advanced assessment* for tree risk
- tree removals
- soil care recommendations
- plant health care recommendations
- noted defects/observations
- observed pests/diseases

Specifications/Definitions

Age Class

New Planting	Tree not yet established
Young	Established tree but not in the landscape for many years
Semi-mature	Established tree but has not yet reached full growth potential
Mature	Tree within its full growth potential
Over-mature	Tree that is declining or beginning to decline due to its age

Height Class

Small	Less than 15 feet
Medium	15 to 40 feet
Large	Greater than 40 feet

Condition Class

Dead

Poor Most of the canopy displays dieback and undesirable leaf color, inappropriate leaf size or inadequate new growth. Tree or parts of tree are in the process of failure.

Fair Parts of canopy display undesirable leaf color, inappropriate leaf size, and inadequate new growth. Parts of the tree are likely to fail.

Good Tree health and condition are acceptable.

Tree & Shrub Work Phase

Tree & Shrub Work phase takes into consideration tree species, condition, location, age, and proximity to infrastructure. We intend for this rating system to assist decision makers in prioritizing risk mitigation, tree pruning, cabling and bracing, and tree lightning protection recommendations. *Trees with an ASAP and an overall tree risk rating of extreme or high (see definitions in the next section) should be addressed immediately.* Prioritization does not take into account any budgetary or financial considerations.

Phase 1, 2, 3, 4, and 5 are all based on observations by the inventory arborist according to the manager's goals. The following additional information clarifies each priority:

ASAP Trees with recommendations that should be addressed As Soon As Possible.

Phase 1 Typically addressed in the first management cycle. Trees located in high-use sites, have a high aesthetic value, have an elevated *overall tree risk rating*, and/or parts that are currently in conflict with infrastructure.

Phase 2 Typically addressed in the second management cycle. Trees with moderate aesthetic value, don't have an elevated *overall tree risk rating*, and/or parts that are anticipated to be in conflict with infrastructure.

Phase 3 Typically addressed in the third management cycle. Tree parts that are anticipated to be in conflict with infrastructure and/or recommendations based on anticipated growth.

Phase 4 Typically addressed in the fourth management cycle. Recommendations are for future consideration and anticipated growth.

Phase 5 Typically addressed in the fifth management cycle. Recommendations are for future consideration and anticipated growth.

Pruning Category

All trees identified in this management plan that have tree care recommendations are listed within a specific pruning category. Trees within each pruning category can be prioritized by the specific goals of the manager. It is recommended that specific goals be discussed prior to any pruning.

Risk Mitigation	This goal requires pruning of any tree where risk mitigation should take precedence over other pruning goals. Typically aims to reduce the *overall tree risk rating* by branch removal and/or branch reduction.
Maintenance	This goal typically requires routine pruning of large/mature trees. Includes branch removal and/or branch reduction to help reduce *likelihood of failure* and/or conflict with infrastructure. Trees with this goal are typically climbed or require the use of aerial lifts and/or other specialized equipment.
Developmental	This goal typically requires routine pruning of small/young trees. Includes structural pruning to develop a strong central stem, establish proper branch spacing, and/or develop branch structure.
Ornamental	This goal typically requires pruning of small trees. Includes reduction and/or shearing to its desired shape, size, and/or structure.
Specialized	Trees with this goal require a unique treatment that may include, but not limited to, targeted pruning cuts, removal of nuisance fruit/parasitic plants, and/or rejuvenation/internodal pruning.

* The listed descriptions of goals, tools, and/or techniques are not limited to these definitions. Specific individual goals and species profiles should guide the pruning recommendations.

Tree Risk Assessments, Limitations & Glossary

In accordance with industry standards, tree risk ratings are derived from a combination of three factors: the *likelihood of failure*, the *likelihood of the failed tree part impacting a target*, and the *consequences* of the target being struck. The guidelines used to classify each of these factors are presented in the *ISA's BMP for Tree Risk Assessment* and guidelines developed by the Bartlett Tree Research Laboratories. *These factors are then used to categorize tree risk as Extreme, High, Moderate or Low*. The factors used to define your risk ratings are identified in this report. An explanation of terms used in this report appears in the glossary located in the appendix. The information provided in this report is based on the conditions identified at the time of inspection. Tree conditions do change over time so reassessment is recommended annually and after major storm events.

Limitations of Tree Risk Assessments

It is important for the tree owner or manager to know and understand that all trees pose some degree of risk from failure or other conditions. The information and recommendations within this report have been derived from the level of tree risk assessment identified in this report, using the information and practices outlined in the *International Society of Arboriculture's Best Management Practices for Tree Risk Assessment*, as well as the information available at the time of the inspection. However, the *overall tree risk rating*, the mitigation recommendations, or any other conclusions do not preclude the possibility of failure from undetected conditions, weather events, or other acts of man or nature. Trees can unpredictably fail even if no defects or other conditions are present. It is the responsibility of the tree owner or manager to schedule repeat or *Advanced assessments*, determine actions, and implement follow up recommendations, monitoring and/or mitigation.

Bartlett Tree Experts can make no warranty or guarantee whatsoever regarding the safety of any tree, trees, or parts of trees, regardless of the level of tree risk assessment provided, the risk rating, or the residual risk rating after mitigation. The information in this report should not be considered as making safety, legal, architectural, engineering, landscape architectural, land surveying advice or other professional advice. This information is solely for the use of the tree owner and manager to assist in the decision making process regarding the management of their tree or trees. Tree risk assessments are simply tools which should be used in conjunction with the owner or tree manager's knowledge, other information and observations related to the specific tree or trees discussed, and sound decision making.

Glossary

Tree risk assessment has a unique set of terms with specific meanings. Definitions of all specific terms may be found in the International Society of Arboriculture's *Best Management Practice for Tree Risk Assessment*. Definitions of some of these terms used in this report are as follows:

The *likelihood of failure* may be categorized as imminent meaning that failure has started or could occur at any time; probable meaning that failure may be expected under normal weather conditions within the next 3 years; possible meaning that failure could occur, but is unlikely under normal weather conditions during that time frame; and improbable meaning that failure is not likely under normal weather conditions, and may not occur in severe weather conditions during that time frame.

The likelihood of the failed tree part impacting a target may be categorized as high meaning that a failed tree or tree part will most likely impact a target; medium meaning the failed tree or tree part could impact the target, but is not expected to do so; low meaning that the failed tree or tree part is not likely to impact a target; and very low meaning that the chance of a failed tree or tree part impacting the target is remote.

The *likelihood of failure and impact* is defined by the Likelihood Matrix below.

LIKELIHOOD OF FAILURE AND IMPACT

Likelihood of Failure	Likelihood of Impacting Target			
	Very Low	Low	Medium	High
Imminent	Unlikely	Somewhat likely	Likely	Very Likely
Probable	Unlikely	Unlikely	Somewhat likely	Likely
Possible	Unlikely	Unlikely	Unlikely	Somewhat likely
Improbable	Unlikely	Unlikely	Unlikely	Unlikely

The *consequences* of a known target being struck may be categorized as severe meaning that impact could involve serious personal injury or death, damage to high value property, or disruption to important activities; significant meaning that the impact may involve personal injury, property damage of moderate to high value, or considerable disruption; minor meaning that impact could cause low to moderate property damage, small disruptions to traffic or a communication utility, or minor injury; and negligible meaning that impact may involve low value property damage, disruption that can be replaced or repaired, and do not involve personal injury.

Targets are people, property, or activities that could be injured, damaged or disrupted by a tree failure.

Levels of assessment 1) *Limited visual assessments* are conducted to identify obvious defects. 2) *Basic assessments* are visual inspections done by walking around the tree looking at the site, buttress roots, trunk and branches. It may include the use of simple tools to gain information about the tree or defects. 3) *Advanced assessments* are performed to provide detailed information about specific tree parts, defects, targets of site conditions. Drilling to detect decay is an advanced assessment technique.

Tree Risk Ratings are terms used to communicate the level of risk rating. They are defined in defined in the Risk Matrix below as a combination of Likelihood and Consequences:

ISA RISK MATRIX

Likelihood of Failure & Impact	Consequences of the Tree Failure			
	Negligible	Minor	Significant	Severe
Very Likely	Low	Moderate	High	Extreme
Likely	Low	Moderate	High	High
Somewhat likely	Low	Low	Moderate	Moderate
Unlikely	Low	Low	Low	Low

Overall tree risk rating is the highest individual risk identified for the tree. The *residual risk* is the level of risk the tree should pose after the recommended mitigation.

Bartlett Tree Experts can inventory trees that have ropes courses, zip lines, swings, tree houses, or any other life support system attached for several different attributes; however, Bartlett Tree Experts is unable to provide tree risk assessment information on such trees, nor is Bartlett Tree Experts able to determine whether the correct hardware has been used, the systems are attached to the trees correctly, or whether the trees can withstand the additional forces that are placed on the tree or trees from such systems or structures. Bartlett Tree Experts does not recommend that any hardware or structures, other than those recommended by and installed by qualified arborists to aid the tree in structural support or protections from lightning, be installed in or attached to any tree(s). Bartlett Tree Experts recommends removing, or discontinuing the use of, any such system or recreational structure until the Client hires or consults with an engineer/specialist that deals specifically with ropes courses, zip lines, swings, tree houses, or any other life support systems and how they attach to and impact trees to determine if the trees can handle the forces being placed on them.

In the event that Bartlett Tree Experts observes an immediate safety issue with a tree with any such device attached, such as the presence of a dead, dying, or broken limb that could fall and injure a person or damage property, Bartlett Tree Experts may make a recommendation to remove or prune such a limb or otherwise mitigate the obvious safety issue. However, the Client should not infer that following such a recommendation and mitigating the immediate safety issue makes the tree in question safe for the use of the attached device or feature.

TREE RISK ASSESSMENTS AND MITIGATION

TREE RISK ASSESSMENTS AND MITIGATION

In reviewing the results and recommendations, the reader will find useful the specifications and definitions detailed in the preceding methodology. We used the following categories to organize the results and recommendations, which are displayed in tables:

- **Subject Trees Summarized According to:**
  - Tree Risk Assessment Results and Mitigation Recommendations
  - *Level 3 Advanced Assessment* Recommendations

Tree Risk Assessments and Mitigation

As part of the inventory process, the Inventory Team conducts a *Level 2 Basic assessment* from the ground. While every tree poses a risk, typically low, any trees that were found to have conditions that posed a hazardous situation, prompting the arborists to go through the steps outlined in the Tree Risk Assessments, Limitations, and Glossary section of this plan. *Overall Tree Risk Ratings* are then assigned to these trees.

During the *Level 2 Basic assessment* the Regional Inventory Arborist can determine whether some aspect of tree structure or health indicates that a more comprehensive tree structure evaluation, called a *Level 3 Advanced assessment*, is needed to more thoroughly evaluate tree condition and *likelihood of failure*.

In such cases, we may recommend *Level 3 Advanced assessments* of the roots, stem, or crown. These assessments may include climbing inspections, examination of the root system using a compressed-air tool (that avoids damage to roots and underground utilities), resistance-recording drilling, or sonic tomography that produces a visual representation of internal conditions based on how sound moved through the tree. The goal is to use the appropriate method to evaluate impact of wood decay in stems and buttress roots that show potential for failure and to determine presence and condition of the root system. Once those *Level 3 Advanced assessments* are completed, more specific recommendations can be made, such as remediation, maintenance, or removal.

The Tree Risk Table below summarizes the inventoried trees that were observed posing a hazardous situation during the course of the inventory, including those trees recommended for *Level 3 Advanced assessments*. The table is organized first by *Overall Tree Risk Rating* (highest to lowest), then by Tree & Shrub Work Phase (ascending order), and finally by Tree ID (ascending order).

TREE RISK ASSESSMENTS AND MITIGATION (539 Trees)

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Primary Target	Tree & Shrub Work Phase	Recommendation	Defect(s) or Observation(s)
6	Ash-Green	11	Poor	Low	Path	ASAP	• Removal	• Co-dominant stems • Dead branches >2
20	Honeylocust-Thornless Common	15	Poor	Low	Picnic table	ASAP	• Removal	• Co-dominant stems • Dead branches >2 • Dead/dying stem • Uneven crown
2	Ash-Green	19	Fair	Low	Path	1	• Prune: Reduce risk of branch stem and/or root failure	• Co-dominant stems • Dead branches >2 • Uneven crown
3	Ash-Green	16	Good	Low	Path	1	• Prune: Reduce risk of branch stem and/or root failure • Prune: Improve appearance	• Co-dominant stems • Dead branches >2 • Poor branch structure • Uneven crown
4	Ash-Green	12	Good	Low	Path	1	• Prune: Improve appearance	• Co-dominant stems • Dead branches >2

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Primary Target	Tree & Shrub Work Phase	Recommendation	Defect(s) or Observation(s)
9	Ash-Green	13	Good	Low	Path	1	• Prune: Reduce risk of branch stem and/or root failure	• Co-dominant stems • Dead branches >2
31	Mulberry-Red	7,5	Poor	Low	Path	1	• Removal	• Buried root collar • Co-dominant stems • Growing against object • Poor branch structure • Uneven crown
33	Falsecypress-Sawara Cypress	18	Poor	Low	Path	1	• Removal	• Dead branches >2 • Dieback (severe)
51	Tree of Heaven	12,10	Good	Low	Path	1	• Removal	• Co-dominant stems • Included bark • Poor branch structure
58	Maple-Norway	13	Fair	Low	Path	1	• Prune: Improve appearance	• Dead branches >2
66	Maple-Norway	9	Poor	Low	Path	1	• Removal	• Buried root collar • Dead branches >2 • Dieback (severe)
68	Maple-Norway	10	Poor	Low	Path	1	• Removal	• Cavity-stem • Low vigor

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Primary Target	Tree & Shrub Work Phase	Recommendation	Defect(s) or Observation(s)
83	Elm-Slippery	13,11	Fair	Low	Path	1	• Prune: Clearance • Cable: New 1	• Co-dominant stems • Included bark • Poor branch structure
94	Pine-Eastern White	14	Dead	Low	Path	1	• Removal	...
101	Poplar-Eastern	20,17,13	Fair	Low	Path	1	• Cable: New 1	• Co-dominant stems • Dead branches >2 • Included bark • Poor branch structure
102	Poplar-Eastern	14,13	Fair	Low	Path	1	• Cable: New 1	• Co-dominant stems • Dead branches >2 • Included bark
113	Poplar-Eastern	12,10	Fair	Low	Path	1	• Cable: New 1	• Co-dominant stems • Included bark • Poor branch structure
132	Poplar-Eastern	11,9	Good	Low	Path	1	• Cable: New 1	• Co-dominant stems • Included bark • Poor branch structure

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Primary Target	Tree & Shrub Work Phase	Recommendation	Defect(s) or Observation(s)
287	Poplar-Eastern	13,12	Fair	Low	Path	1	• Cable: New 1	• Co-dominant stems • Dead branches >2 • Included bark
333	Tree of Heaven	31	Poor	Low	Path	1	• Removal	• Co-dominant stems • Crack-stem • Dead branches >2 • Decay-stem
334	Tree of Heaven	15,15,12,11	Poor	Low	Path	1	• Removal	• Co-dominant stems • Dead branches >2 • Decay-stem • Included bark • Poor branch structure
379	Pine-Austrian	15	Dead	Low	Path	1	• Removal	...
380	Pine-Austrian	14	Poor	Low	Path	1	• Removal	• Buried root collar • Dead branches >2
381	Pine-Austrian	13	Poor	Low	Path	1	• Removal	• Dead branches >2 • Dieback (moderate)
382	Pine-Austrian	12	Dead	Low	Path	1	• Removal	...

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Primary Target	Tree & Shrub Work Phase	Recommendation	Defect(s) or Observation(s)
384	Pine-Austrian	16	Fair	Low	Path	1	• Cable: New 1	• Co-dominant stems • Dead branches >2 • Included bark • Poor branch structure
386	Pine-Eastern White	11	Poor	Low	Path	1	• Removal	• Buried root collar • Dead branches >2 • Dieback (severe)
467	Locust-Black	10	Good	Low	Street	1	• Prune: Reduce risk of branch stem and/or root failure • Prune: Improve appearance • Prune: Clearance	• Dead branches >2 • Lean • Uneven crown
468	Locust-Black	15	Good	Low	Street	1	• Prune: Reduce risk of branch stem and/or root failure • Prune: Improve appearance • Prune: Clearance	• Co-dominant stems • Dead branches >2 • Included bark • Poor branch structure • Wound-root

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Primary Target	Tree & Shrub Work Phase	Recommendation	Defect(s) or Observation(s)
505	Poplar-Eastern	15	Poor	Low	Parking	1	• Removal	• Co-dominant stems • Dead branches >2 • Dieback (moderate) • Poor branch structure
507	Locust-Black	6	Poor	Low	Parking	1	• Removal	• Co-dominant stems • Dead branches >2 • Included bark • Low vigor • Poor branch structure • Uneven crown
509	Locust-Black	23	Fair	Low	Path	1	• Prune: Reduce risk of branch stem and/or root failure • Prune: Clearance • Prune: Improve appearance • Cable: New 2	• Co-dominant stems • Dead branches >2 • Included bark • Poor branch structure • Wound-stem

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Primary Target	Tree & Shrub Work Phase	Recommendation	Defect(s) or Observation(s)
512	Locust-Black	11	Poor	Low	Path	1	• Removal	• Co-dominant stems • Decay-stem • Included bark • Poor branch structure • Uneven crown
527	Cherry-Black	17	Poor	Low	Path	1	• Removal	• Buried root collar • Co-dominant stems • Dead branches >2 • Dieback (severe) • Poor branch structure
528	Oak-Northern Red	22	Fair	Low	Street	1	• Prune: Reduce risk of branch stem and/or root failure • Prune: Improve appearance	• Co-dominant stems • Dead branches >2 • Girdling roots present • Uneven crown

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Primary Target	Tree & Shrub Work Phase	Recommendation	Defect(s) or Observation(s)
529	Maple-Boxelder	21	Fair	Low	Street	1	• Prune: Reduce risk of branch stem and/or root failure • Prune: Improve appearance • Prune: Clearance	• Co-dominant stems • Dead branches >2 • Included bark • Lean • Uneven crown • Wound-root
531	Oak-Pin	11	Good	Low	Path	1	• Prune: Reduce risk of branch stem and/or root failure • Prune: Improve appearance	• Dead branches >2 • Girdling roots present • Suppressed
532	Tree of Heaven	23	Fair	Low	Street	1	• Prune: Reduce risk of branch stem and/or root failure • Prune: Improve appearance	• Co-dominant stems • Dead branches >2 • Poor branch structure
1	Cherry-Black	20	Fair	Low	Path	2	• Prune: Improve appearance	• Co-dominant stems • Dead branches >2 • Poor branch structure
5	Ash-Green	14	Good	Low	Path	2	• Prune: Reduce risk of branch stem and/or root failure	• Co-dominant stems • Dead branches <=2

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Primary Target	Tree & Shrub Work Phase	Recommendation	Defect(s) or Observation(s)
8	Ash-Green	14	Good	Low	Path	2	• Prune: Reduce risk of branch stem and/or root failure	• Co-dominant stems • Dead branches >2
10	Ash-Green	14	Good	Low	Path	2	• Prune: Improve appearance	• Co-dominant stems • Dead branches >2 • Uneven crown
11	Ash-Green	12	Fair	Low	Path	2	• Prune: Improve appearance	• Dead branches >2 • Uneven crown
12	Ash-Green	12	Good	Low	Path	2	• Prune: Reduce risk of branch stem and/or root failure	• Dead branches >2 • Uneven crown • Wound-root
13	Ash-Green	12	Fair	Low	Path	2	• Prune: Improve appearance • Prune: Reduce risk of branch stem and/or root failure	• Co-dominant stems • Dead branches >2 • Uneven crown
14	Honeylocust-Thornless Common	17	Good	Low	Picnic table	2	• Prune: Reduce risk of branch stem and/or root failure	• Co-dominant stems • Dead branches >2

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Primary Target	Tree & Shrub Work Phase	Recommendation	Defect(s) or Observation(s)
21	Crabapple	11	Good	Low	Path	2	• Prune: Reduce risk of branch stem and/or root failure • RCX	• Buried root collar • Co-dominant stems • Dead branches >2 • Poor branch structure
22	Crabapple	13	Good	Low	Path	2	• Prune: Reduce risk of branch stem and/or root failure • RCX	• Buried root collar • Co-dominant stems • Poor branch structure • Uneven crown
23	Crabapple	13	Poor	Low	Path	2	• Prune: Improve appearance • Prune: Clearance • RCX	• Buried root collar • Dead branches >2 • Poor branch structure • Wound-stem

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Primary Target	Tree & Shrub Work Phase	Recommendation	Defect(s) or Observation(s)
24	Crabapple	13	Good	Low	Path	2	• Prune: Improve appearance • RCX	• Buried root collar • Co-dominant stems • Dead branches >2 • Included bark • Poor branch structure
25	Crabapple	13	Good	Low	Path	2	• Prune: Improve appearance • RCX	• Buried root collar • Co-dominant stems • Dead branches >2 • Included bark • Uneven crown
27	Crabapple	11	Good	Low	Path	2	• Prune: Improve appearance • RCX	• Buried root collar • Co-dominant stems • Included bark • Poor branch structure • Uneven crown

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Primary Target	Tree & Shrub Work Phase	Recommendation	Defect(s) or Observation(s)
28	Crabapple	14	Fair	Low	Path	2	• Prune: Improve appearance	• Buried root collar • Dead branches >2 • Included bark • Poor branch structure • Uneven crown
29	Crabapple	11	Fair	Low	Path	2	• Prune: Improve appearance	• Buried root collar • Co-dominant stems • Dead branches >2 • Poor branch structure • Uneven crown
30	Crabapple	14	Good	Low	Path	2	• Prune: Improve appearance • RCX	• Buried root collar • Co-dominant stems • Dead branches >2 • Included bark • Poor branch structure • Uneven crown
56	Maple-Norway	7	Poor	Low	Path	2	• Removal	• Uneven crown • Wound-root flare • Wound-stem

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Primary Target	Tree & Shrub Work Phase	Recommendation	Defect(s) or Observation(s)
62	Maple-Norway	10	Fair	Low	Path	2	• Prune: Reduce risk of branch stem and/or root failure	• Dead branches >2
73	Oak-Pin	12	Poor	Low	Path	2	• Removal	• Co-dominant stems • Growing against object • Included bark • Poor branch structure
344	Crabapple	15,13	Poor	Low	Path	2	• Removal	• Co-dominant stems • Dead branches >2 • Included bark • Poor branch structure
469	Locust-Black	13	Fair	Low	Path	2	• Prune: Improve appearance	• Co-dominant stems • Dead branches >2 • Included bark • Poor branch structure

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Primary Target	Tree & Shrub Work Phase	Recommendation	Defect(s) or Observation(s)
470	Locust-Black	29	Good	Low	Path	2	• Prune: Improve appearance • Prune: Clearance	• Co-dominant stems • Dead branches >2 • Included bark • Poor branch structure
499	Locust-Black	7	Fair	Low	Path	2	• Prune: Improve appearance • Prune: Clearance	• Dead branches >2 • Lean • Uneven crown
500	Locust-Black	14	Good	Low	Path	2	• Prune: Improve appearance • Prune: Clearance	• Co-dominant stems • Dead branches <=2 • Included bark • Poor branch structure • Uneven crown
508	Locust-Black	9	Fair	Low	Path	2	• Prune: Reduce weight of branch ends • Prune: Clearance • Prune: Improve appearance	• Co-dominant stems • Included bark • Lean • Poor branch structure • Uneven crown • Wound-stem

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Primary Target	Tree & Shrub Work Phase	Recommendation	Defect(s) or Observation(s)
510	Locust-Black	10	Fair	Low	Path	2	• Prune: Improve appearance • Prune: Clearance	• Co-dominant stems • Dead branches <=2 • Included bark • Poor branch structure
511	Locust-Black	8	Good	Low	Path	2	• Prune: Improve appearance	• Dead branches >2 • Lean
513	Locust-Black	14	Fair	Low	Path	2	• Prune: Improve appearance • Prune: Clearance	• Co-dominant stems • Dead branches >2 • Included bark • Poor branch structure
514	Locust-Black	11	Good	Low	Path	2	• Prune: Improve appearance • Prune: Clearance	• Co-dominant stems • Dead branches <=2 • Included bark • Poor branch structure
515	Locust-Black	7	Good	Low	Path	2	• Prune: Improve appearance • Prune: Clearance	• Corrected lean • Dead branches <=2 • Uneven crown

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Primary Target	Tree & Shrub Work Phase	Recommendation	Defect(s) or Observation(s)
524	Cherry-Black	13	Poor	Low	Path	2	• Removal	• Co-dominant stems • Dead branches >2 • Dieback (severe) • Poor branch structure
533	Cherry-Black	14	Fair	Low	Path	2	• Prune: Reduce risk of branch stem and/or root failure • Prune: Improve appearance	• Buried root collar • Co-dominant stems • Dead branches >2 • Lean • Poor branch structure • Uneven crown
538	Cherry-Black	11	Fair	Low	Path	2	• Prune: Improve appearance	• Dead branches >2 • Growing against object • Sweep • Uneven crown
15	Honeylocust-Thornless Common	17	Good	Low	Path	3	• Prune: Reduce risk of branch stem and/or root failure • Prune: Improve appearance	• Co-dominant stems • Dead branches <=2

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Primary Target	Tree & Shrub Work Phase	Recommendation	Defect(s) or Observation(s)
17	Honeylocust-Thornless Common	17	Good	Low	Path	3	• Prune: Improve appearance • Prune: Reduce risk of branch stem and/or root failure	• Co-dominant stems • Dead branches <=2 • Uneven crown
18	Honeylocust-Thornless Common	13	Good	Low	Path	3	• Prune: Reduce risk of branch stem and/or root failure • Prune: Improve appearance	• Co-dominant stems • Dead branches <=2 • Uneven crown
19	Honeylocust-Thornless Common	17	Good	Low	Path	3	• Prune: Improve appearance • Prune: Reduce risk of branch stem and/or root failure • RCX	• Buried root collar • Co-dominant stems • Dead branches <=2 • Uneven crown
26	Crabapple	9	Good	Low	Path	3	• Prune: Improve appearance	• Buried root collar • Co-dominant stems • Dead branches <=2 • Poor branch structure • Uneven crown
50	Tree of Heaven	6	Good	Low	Path	3	• Removal	• Wound-stem
59	Maple-Norway	12	Poor	Low	Path	3	• Removal	• Cavity-stem

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Primary Target	Tree & Shrub Work Phase	Recommendation	Defect(s) or Observation(s)
157	Locust-Black	18	Poor	Low	Path	3	• Removal	• Co-dominant stems • Dead branches >2 • Included bark • Poor branch structure • Uneven crown
170	Birch-Paper	11,6,3	Poor	Low	Path	3	• Removal	• Co-dominant stems • Dead branches >2 • Poor branch structure
175	Locust-Black	8	Poor	Low	Path	3	• Removal	• Storm damage
289	Locust-Black	10,9	Poor	Low	Path	3	• Removal	• Co-dominant stems • Crack-stem
293	Mulberry-Red	6,5,2	Poor	Low	Path	3	• Removal	• Cavity-branch • Crack-stem • Included bark • Poor branch structure
294	Tree of Heaven	7	Poor	Low	Path	3	• Removal	• Dead branches >2 • Wound-stem
295	Tree of Heaven	6	Poor	Low	Path	3	• Removal	• Dead branches >2 • Uneven crown

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Primary Target	Tree & Shrub Work Phase	Recommendation	Defect(s) or Observation(s)
312	Locust-Black	21,16	Poor	Low	Path	3	• Removal	• Co-dominant stems • Crack-stem • Dead branches >2 • Included bark • Poor branch structure
354	Locust-Black	10,6,6,5,5	Poor	Low	Path	3	• Removal	• Buried root collar • Cavity-stem • Co-dominant stems • Dead branches >2 • Included bark • Poor branch structure
391	Crabapple	8	Fair	Low	Path	3	• Prune: Improve appearance • RCX	• Buried root collar • Co-dominant stems • Dead branches >2 • Poor branch structure

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Primary Target	Tree & Shrub Work Phase	Recommendation	Defect(s) or Observation(s)
397	Crabapple	9	Fair	Low	Path	3	• Prune: Improve appearance • RCX	• Buried root collar • Co-dominant stems • Dead branches >2 • Poor branch structure
521	Oak-Northern Red	22	Fair	Low	Path	3	• Prune: Improve appearance • Prune: Clearance	• Co-dominant stems • Dead branches <=2 • Lean • Seam • Uneven crown
526	Cherry-Black	10	Dead	Low	Path	3	• Removal	• Dead branches >2 • Decay-stem
536	Cherry-Black	6	Fair	Low	Path	3	• Removal	• Dead branches <=2 • Lean • Suppressed • Uneven crown
7	Ash-Green	12	Good	Low	Path	...	• RCX	• Buried root collar • Co-dominant stems • Dead branches <=2

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Primary Target	Tree & Shrub Work Phase	Recommendation	Defect(s) or Observation(s)
16 **	Honeylocust-Thornless Common	18	Good	Low	Path	...	...	• Co-dominant stems • Uneven crown
32 **	Douglas Fir	19	Fair	Low	Path	...	...	• Co-dominant stems • Uneven crown
34 **	Cherry-Flowering	2	Good	Low	Path	...	...	...
35 **	Cherry-Flowering	6	Fair	Low	Path	...	...	...
36 **	Cherry-Flowering	6	Good	Low	Path	...	...	• Buried root collar • Co-dominant stems • Poor branch structure
37 **	Cherry-Flowering	2	Good	Low	Path	...	...	...
38 **	Cherry-Flowering	6	Good	Low	Path	...	...	• Buried root collar • Co-dominant stems • Poor branch structure
39 **	Maple-Hedge	6	Good	Low	Path	...	...	...
40 **	Maple-Hedge	4	Fair	Low	Path	...	...	• Low vigor
41 **	Maple-Hedge	4	Good	Low	Path	...	...	...
42 **	Pear-Callery	4	Fair	Low	Path	...	...	• Low vigor
43 **	Cherry-Flowering	5	Fair	Low	Path	...	...	• Wound-stem

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Primary Target	Tree & Shrub Work Phase	Recommendation	Defect(s) or Observation(s)
44 **	Cherry-Flowering	2	Poor	Low	Path	...	...	• Buried root collar • Co-dominant stems • Dieback (moderate)
45 **	Pear-Callery	4	Fair	Low	Path	...	...	• Low vigor
46 **	Cherry-Flowering	7	Fair	Low	Path	...	...	• Buried root collar • Co-dominant stems • Poor branch structure
47 **	Cherry-Flowering	2	Fair	Low	Path	...	...	• Low vigor
48 **	Cherry-Flowering	5	Fair	Low	Path	...	...	• Buried root collar • Co-dominant stems • Low vigor
49 **	Cherry-Flowering	5	Good	Low	Path	...	...	• Buried root collar • Co-dominant stems • Poor branch structure
52 **	Chokecherry-Common	10,8	Fair	Low	Path	...	...	...

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Primary Target	Tree & Shrub Work Phase	Recommendation	Defect(s) or Observation(s)
53 **	Maple-Norway	12,12	Good	Low	Path	...	...	• Buried root collar • Co-dominant stems • Included bark • Poor branch structure
54 **	Maple-Norway	15	Good	Low	Path	...	...	• Dead branches >2
55 **	Maple-Norway	16	Fair	Low	Path	...	...	• Co-dominant stems • Dead branches >2 • Included bark • Poor branch structure
57 **	Poplar-Eastern	16,9	Poor	Low	Path	...	...	• Co-dominant stems • Growing against object • Uneven crown
60 **	Maple-Norway	12	Good	Low	Path	...	...	...
61 **	Maple-Norway	8	Fair	Low	Path	...	...	• Dead branches <=2
63 **	Maple-Norway	10	Fair	Low	Path	...	...	• Low vigor
64 **	Maple-Norway	11	Good	Low	Path	...	...	• Buried root collar
65 **	Maple-Norway	8	Fair	Low	Path	...	...	• Dead branches <=2

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Primary Target	Tree & Shrub Work Phase	Recommendation	Defect(s) or Observation(s)
67 **	Maple-Norway	9	Fair	Low	Path	...	...	• Dead branches <=2 • Low vigor
69 **	Fir-White	7	Fair	Low	Path	...	...	• Buried root collar
70 **	Pine-Eastern White	18	Good	Low	Path	...	...	• Dead branches >2 • Uneven crown
71 **	Pine-Eastern White	19	Good	Low	Path	...	...	• Dead branches >2 • Uneven crown
72 **	Oak-Pin	5	Poor	Low	Path	...	...	• Growing against object
74 **	Pine-Eastern White	12	Good	Low	Path	...	...	• Dead branches <=2
75 **	Pine-Eastern White	17	Good	Low	Path	...	...	• Dead branches >2
76 **	Pine-Eastern White	10	Fair	Low	Path	...	...	• Dead branches >2
77 **	Pine-Eastern White	17	Good	Low	Path	...	...	• Dead branches >2
78 **	Pine-Eastern White	16	Good	Low	Path	...	...	• Dead branches >2
79 **	Pine-Eastern White	15	Fair	Low	Path	...	...	• Low vigor
80 **	Pine-Eastern White	16	Good	Low	Path	...	...	• Dead branches >2

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Primary Target	Tree & Shrub Work Phase	Recommendation	Defect(s) or Observation(s)
81 **	Pine-Eastern White	21	Good	Low	Path	...	...	• Co-dominant stems • Dead branches >2
82 **	Tree of Heaven	22	Fair	Low	Path	...	...	• Co-dominant stems • Included bark • Poor branch structure
84 **	Pine-Eastern White	20	Good	Low	Path	...	...	• Dead branches >2
85 **	Pine-Eastern White	13	Fair	Low	Path	...	...	• Low vigor
86 **	Pine-Eastern White	18	Good	Low	Path	...	...	• Broken branch(s) • Dead branches >2 • Hanger
87 **	Pine-Eastern White	13	Good	Low	Path	...	...	• Dead branches >2
88 **	Pine-Eastern White	16	Good	Low	Path	...	...	• Dead branches >2
89 **	Pine-Eastern White	15	Good	Low	Path	...	...	• Dead branches >2
90 **	Pine-Eastern White	17	Good	Low	Path	...	...	• Dead branches >2
91 **	Pine-Eastern White	14	Good	Low	Path	...	...	• Dead branches >2
92 **	Pine-Eastern White	14	Good	Low	Path	...	...	• Dead branches >2

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Primary Target	Tree & Shrub Work Phase	Recommendation	Defect(s) or Observation(s)
93 **	Pine-Eastern White	12	Good	Low	Path	...	...	• Dead branches >2
95 **	Locust-Black	8	Good	Low	Path	...	...	• Lean • Uneven crown
96 **	Locust-Black	6	Good	Low	Path	...	...	• Uneven crown
97 **	Locust-Black	5	Good	Low	Path	...	...	• Dead branches <=2 • Uneven crown
98 **	Locust-Black	6	Fair	Low	Path	...	...	• Dead branches <=2 • Uneven crown
99 **	Ash-Green	7	Good	Low	Path	...	...	...
100 **	Poplar-Eastern	11	Good	Low	Path	...	...	...
103 **	Poplar-Eastern	15	Good	Low	Path	...	...	• Dead branches >2
104 **	Poplar-Eastern	7,7	Good	Low	Path	...	...	• Co-dominant stems • Included bark
105 **	Poplar-Eastern	10,7	Fair	Low	Path	...	...	• Co-dominant stems • Included bark
106 **	Poplar-Eastern	9	Fair	Low	Path	...	...	...
107 **	Poplar-Eastern	12	Good	Low	Path	...	...	• Buried root collar
108 **	Poplar-Eastern	7	Good	Low	Path	...	...	• Uneven crown
109 **	Poplar-Eastern	10	Fair	Low	Path	...	...	• Uneven crown

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Primary Target	Tree & Shrub Work Phase	Recommendation	Defect(s) or Observation(s)
110 **	Poplar-Eastern	8	Good	Low	Path	...	...	• Buried root collar
111 **	Poplar-Eastern	8	Good	Low	Path	...	...	• Buried root collar • Wound-stem
112 **	Poplar-Eastern	9	Fair	Low	Path	...	...	• Buried root collar • Uneven crown
114 **	Poplar-Eastern	9,7	Fair	Low	Path	...	...	• Co-dominant stems
115 **	Poplar-Eastern	9	Good	Low	Path	...	...	• Uneven crown
116 **	Poplar-Eastern	8,6,6	Fair	Low	Path	...	...	• Co-dominant stems • Included bark
117 **	Poplar-Eastern	12	Good	Low	Path	...	...	• Buried root collar
118 **	Poplar-Eastern	8,6	Good	Low	Path	...	...	• Co-dominant stems • Included bark • Poor branch structure
119 **	Poplar-Eastern	10	Good	Low	Path	...	...	• Dead branches <=2
120 **	Poplar-Eastern	12	Fair	Low	Path	...	...	• Dead branches <=2 • Poor branch structure
121 **	Poplar-Eastern	14	Fair	Low	Path	...	...	...

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Primary Target	Tree & Shrub Work Phase	Recommendation	Defect(s) or Observation(s)
122 **	Poplar-Eastern	9	Good	Low	Path	...	...	• Uneven crown
123 **	Poplar-Eastern	10	Fair	Low	Path	...	...	• Uneven crown
124 **	Locust-Black	6	Fair	Low	Path	...	...	• Uneven crown
125 **	Locust-Black	6	Good	Low	Path	...	...	...
126 **	Locust-Black	7	Good	Low	Path	...	...	• Co-dominant stems
127 **	Locust-Black	7	Fair	Low	Path	...	...	• Wound-stem
128 **	Locust-Black	6	Fair	Low	Path	...	...	• Dead branches <=2
129 **	Locust-Black	6	Good	Low	Path	...	...	...
130 **	Poplar-Eastern	16	Good	Low	Path	...	...	• Dead branches <=2
131 **	Poplar-Eastern	7	Good	Low	Path	...	...	...
133 **	Poplar-Eastern	18,12	Fair	Low	Path	...	...	• Co-dominant stems • Dead branches >2 • Included bark • Poor branch structure

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Primary Target	Tree & Shrub Work Phase	Recommendation	Defect(s) or Observation(s)
134 **	Poplar-Eastern	7,7,5	Fair	Low	Path	...	...	• Co-dominant stems • Included bark • Poor branch structure
135 **	Poplar-Eastern	12	Good	Low	Path	...	...	...
136 **	Poplar-Eastern	20	Good	Low	Path	...	...	• Co-dominant stems • Dead branches >2
137 **	Poplar-Eastern	11	Good	Low	Path	...	...	• Buried root collar • Dead branches >2 • Uneven crown
138 **	Poplar-Eastern	13	Good	Low	Path	...	...	• Dead branches >2
139 **	Poplar-Eastern	11	Good	Low	Path	...	...	• Dead branches <=2
140 **	Poplar-Eastern	18	Good	Low	Path	...	...	• Co-dominant stems • Dead branches >2
141 **	Poplar-Eastern	12	Fair	Low	Path	...	...	• Uneven crown
142 **	Locust-Black	11	Fair	Low	Path	...	...	• Co-dominant stems • Uneven crown

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Primary Target	Tree & Shrub Work Phase	Recommendation	Defect(s) or Observation(s)
143 **	Mulberry-Red	6,4	Poor	Low	Path	...	...	• Co-dominant stems • Poor branch structure • Uneven crown
144 **	Locust-Black	6	Fair	Low	Path	...	...	• Dead branches <=2
145 **	Tree of Heaven	8	Good	Low	Path	...	...	...
146 **	Tree of Heaven	7	Good	Low	Path	...	...	...
147 **	Tree of Heaven	7	Good	Low	Path	...	...	...
148 **	Tree of Heaven	6	Good	Low	Path	...	...	...
149 **	Tree of Heaven	13	Fair	Low	Path	...	...	• Co-dominant stems • Dead branches >2
150 **	Locust-Black	6	Good	Low	Path	...	...	...
151 **	Locust-Black	7	Fair	Low	Path	...	...	• Co-dominant stems • Dead branches >2
152 **	Locust-Black	6	Fair	Low	Path	...	...	...
153 **	Locust-Black	7,4	Fair	Low	Path	...	...	• Co-dominant stems

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Primary Target	Tree & Shrub Work Phase	Recommendation	Defect(s) or Observation(s)
154 **	Locust-Black	7,2	Fair	Low	Path	...	...	• Dead branches >2
155 **	Locust-Black	6	Good	Low	Path	...	...	...
156 **	Locust-Black	7	Good	Low	Path	...	...	...
158 **	Locust-Black	7,7	Good	Low	Path	...	...	• Co-dominant stems
159 **	Locust-Black	6,3	Fair	Low	Path	...	...	• Co-dominant stems • Dead branches >2
160 **	Locust-Black	8	Good	Low	Path	...	...	• Co-dominant stems
161 **	Locust-Black	6	Fair	Low	Path	...	...	...
162 **	Locust-Black	6,6,5	Fair	Low	Path	...	...	...
163 **	Locust-Black	9,8	Fair	Low	Path	...	...	• Co-dominant stems • Dead branches >2
164 **	Locust-Black	8	Good	Low	Path	...	...	...
165 **	Locust-Black	10	Good	Low	Path	...	...	• Dead branches >2
166 **	Locust-Black	9	Good	Low	Path	...	...	• Co-dominant stems

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Primary Target	Tree & Shrub Work Phase	Recommendation	Defect(s) or Observation(s)
167 **	Locust-Black	14,8	Good	Low	Path	...	...	• Co-dominant stems • Included bark • Poor branch structure
168 **	Locust-Black	8,8	Good	Low	Path	...	...	• Co-dominant stems • Included bark • Poor branch structure
169 **	Locust-Black	7	Good	Low	Path	...	...	...
171 **	Crabapple	6,6,4	Fair	Low	Path	...	...	• Co-dominant stems • Dead branches >2
172 **	Locust-Black	7	Good	Low	Path	...	...	• Co-dominant stems
173 **	Tree of Heaven	6	Good	Low	Path	...	...	...
174 **	Locust-Black	9	Good	Low	Path	...	...	• Co-dominant stems
176 **	Juniper-Eastern Redcedar	6,3,3	Good	Low	Path	...	...	• Co-dominant stems • Dead branches <=2 • Included bark • Poor branch structure

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Primary Target	Tree & Shrub Work Phase	Recommendation	Defect(s) or Observation(s)
177 **	Tree of Heaven	13	Poor	Low	Path	...	...	• Co-dominant stems • Dead branches >2 • Poor branch structure
178 **	Mulberry-Red	6,4	Poor	Low	Path	...	...	• Co-dominant stems • Dead branches <=2 • Included bark • Poor branch structure • Uneven crown
179 **	Maple-Boxelder	12	Good	Low	Path	...	...	• Co-dominant stems • Poor branch structure
180 **	Tree of Heaven	15,15	Good	Low	Path	...	...	• Co-dominant stems • Dead branches >2 • Included bark • Poor branch structure
181 **	Locust-Black	6	Good	Low	Path	...	...	• Dead branches <=2 • Uneven crown

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Primary Target	Tree & Shrub Work Phase	Recommendation	Defect(s) or Observation(s)
182 **	Birch-Gray	8,5,5	Poor	Low	Path	...	...	• Broken branch(s) • Co-dominant stems • Dead branches >2 • Poor branch structure
183 **	Oak-Pin	6	Poor	Low	Path	...	...	• Dead branches >2 • Suppressed • Uneven crown
184 **	Oak-Pin	24	Good	Low	Path	...	...	• Dead branches >2
185 **	Mulberry-Red	6,5,4	Poor	Low	Path	...	...	• Co-dominant stems • Dead branches >2 • Included bark • Poor branch structure • Uneven crown
186 **	Ash-Green	11,9	Poor	Low	Path	...	...	• Co-dominant stems • Dead branches >2 • Included bark • Poor branch structure

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Primary Target	Tree & Shrub Work Phase	Recommendation	Defect(s) or Observation(s)
187 **	Crabapple	6,6,5,5,5,4	Poor	Low	Path	...	...	• Co-dominant stems • Dead branches >2 • Included bark • Poor branch structure
188 **	Poplar-Eastern	23	Good	Low	Path	...	...	• Dead branches >2
189 **	Ash-Green	7,7	Fair	Low	Path	...	...	• Co-dominant stems • Dead branches <=2 • Included bark • Poor branch structure
190 **	Ash-Green	8	Fair	Low	Path	...	...	• Co-dominant stems • Poor branch structure • Uneven crown
191 **	Locust-Black	7	Good	Low	Path	...	...	• Co-dominant stems
192 **	Locust-Black	11	Good	Low	Path	...	...	• Co-dominant stems • Uneven crown • Wound-stem

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Primary Target	Tree & Shrub Work Phase	Recommendation	Defect(s) or Observation(s)
193 **	Locust-Black	6	Good	Low	Path	...	...	• Buried root collar • Co-dominant stems • Uneven crown
194 **	Poplar-Eastern	19,15	Good	Low	Path	...	...	• Co-dominant stems • Dead branches >2 • Included bark
195 **	Poplar-Eastern	13	Good	Low	Path	...	...	• Uneven crown
196 **	Poplar-Eastern	13	Good	Low	Path	...	...	• Uneven crown
197 **	Poplar-Eastern	9	Poor	Low	Path	...	...	• Dead branches >2 • Uneven crown
198 **	Poplar-Eastern	6	Fair	Low	Path	...	...	• Uneven crown
199 **	Poplar-Eastern	8	Good	Low	Path	...	...	• Buried root collar • Dead branches <=2
200 **	Locust-Black	7	Good	Low	Path	...	...	• Uneven crown
201 **	Poplar-Eastern	12	Good	Low	Path	...	...	...
202 **	Poplar-Eastern	9	Good	Low	Path	...	...	...

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Primary Target	Tree & Shrub Work Phase	Recommendation	Defect(s) or Observation(s)
203 **	Poplar-Eastern	8	Good	Low	Path	...	...	...
204 **	Poplar-Eastern	8	Good	Low	Path	...	...	...
205 **	Poplar-Eastern	9	Fair	Low	Path	...	...	• Uneven crown
206 **	Poplar-Eastern	9	Good	Low	Path	...	...	...
207 **	Poplar-Eastern	6	Good	Low	Path	...	...	...
208 **	Poplar-Eastern	9	Good	Low	Path	...	...	• Uneven crown
209 **	Poplar-Eastern	7	Good	Low	Path	...	...	• Uneven crown
210 **	Poplar-Eastern	6	Poor	Low	Path	...	...	• Uneven crown
211 **	Locust-Black	8	Good	Low	Path	...	...	• Uneven crown
212 **	Poplar-Eastern	6	Fair	Low	Path	...	...	...
213 **	Poplar-Eastern	6	Good	Low	Path	...	...	...
214 **	Poplar-Eastern	8	Good	Low	Path	...	...	...
215 **	Poplar-Eastern	7	Good	Low	Path	...	...	...
216 **	Poplar-Eastern	7	Dead	Low	Path	...	...	...
217 **	Poplar-Eastern	11	Fair	Low	Path	...	...	• Uneven crown

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Primary Target	Tree & Shrub Work Phase	Recommendation	Defect(s) or Observation(s)
218 **	Poplar-Eastern	8	Good	Low	Path	...	...	...
219 **	Poplar-Eastern	8	Good	Low	Path	...	...	• Buried root collar
220 **	Poplar-Eastern	11	Good	Low	Path	...	...	...
221 **	Poplar-Eastern	11	Good	Low	Path	...	...	• Co-dominant stems
222 **	Birch-Paper	7	Good	Low	Path	...	...	...
223 **	Poplar-Eastern	19	Good	Low	Path	...	...	...
224 **	Poplar-Eastern	8	Fair	Low	Path	...	...	• Lean • Uneven crown
225 **	Poplar-Eastern	12	Fair	Low	Path	...	...	...
226 **	Maple-Silver	8	Fair	Low	Path	...	...	• Co-dominant stems • Included bark
227 **	Poplar-Eastern	17	Good	Low	Path	...	...	• Dead branches >2
228 **	Cherry-Flowering	8	Poor	Low	Path	...	...	• Dead branches >2 • Uneven crown
229 **	Poplar-Eastern	8	Good	Low	Path	...	...	• Uneven crown
230 **	Poplar-Eastern	10	Good	Low	Path	...	...	...

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Primary Target	Tree & Shrub Work Phase	Recommendation	Defect(s) or Observation(s)
231 **	Poplar-Eastern	12,12,11	Fair	Low	Path	...	...	• Co-dominant stems • Included bark • Poor branch structure • Uneven crown
232 **	Poplar-Eastern	8	Dead	Low	Path	...	...	...
233 **	Poplar-Eastern	10	Fair	Low	Path	...	...	• Dead branches >2 • Uneven crown
234 **	Poplar-Eastern	11	Good	Low	Path	...	...	• Buried root collar
235 **	Poplar-Eastern	7,5	Fair	Low	Path	...	...	• Co-dominant stems • Uneven crown
236 **	Poplar-Eastern	10	Good	Low	Path	...	...	...
237 **	Poplar-Eastern	12	Good	Low	Path	...	...	• Buried root collar
238 **	Poplar-Eastern	8	Good	Low	Path	...	...	...
239 **	Poplar-Eastern	21	Good	Low	Path	...	...	• Dead branches >2 • Poor branch structure
240 **	Poplar-Eastern	11	Good	Low	Path	...	...	• Uneven crown
241 **	Poplar-Eastern	10	Good	Low	Path	...	...	• Uneven crown

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Primary Target	Tree & Shrub Work Phase	Recommendation	Defect(s) or Observation(s)
242 **	Poplar-Eastern	8,5	Fair	Low	Path	...	...	...
243 **	Poplar-Eastern	10	Good	Low	Path	...	...	• Dead branches <=2 • Uneven crown
244 **	Poplar-Eastern	10,8,3	Fair	Low	Path	...	...	• Buried root collar • Co-dominant stems • Uneven crown
245 **	Poplar-Eastern	8	Fair	Low	Path	...	...	• Buried root collar • Lean • Uneven crown
246 **	Poplar-Eastern	18	Good	Low	Path	...	...	• Co-dominant stems
247 **	Poplar-Eastern	8	Good	Low	Path	...	...	• Buried root collar
248 **	Poplar-Eastern	10,7	Fair	Low	Path	...	...	• Co-dominant stems • Dead branches >2 • Included bark • Poor branch structure • Uneven crown
249 **	Poplar-Eastern	8	Good	Low	Path	...	...	...
250 **	Poplar-Eastern	8	Good	Low	Path	...	...	• Uneven crown

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Primary Target	Tree & Shrub Work Phase	Recommendation	Defect(s) or Observation(s)
251 **	Poplar-Eastern	9	Dead	Low	Path	...	...	...
252 **	Poplar-Eastern	8	Fair	Low	Path	...	...	...
253 **	Poplar-Eastern	9	Fair	Low	Path	...	...	• Dead branches <=2
254 **	Poplar-Eastern	9	Good	Low	Path	...	...	...
255 **	Poplar-Eastern	6	Good	Low	Path	...	...	...
256 **	Poplar-Eastern	8	Fair	Low	Path	...	...	• Dead branches <=2
257 **	Poplar-Eastern	7	Good	Low	Path	...	...	...
258 **	Poplar-Eastern	6	Fair	Low	Path	...	...	• Uneven crown
259 **	Poplar-Eastern	6	Good	Low	Path	...	...	• Uneven crown
260 **	Poplar-Eastern	9	Good	Low	Path	...	...	...
261 **	Poplar-Eastern	6	Good	Low	Path	...	...	• Uneven crown
262 **	Poplar-Eastern	7	Good	Low	Path	...	...	...
263 **	Poplar-Eastern	10	Good	Low	Path	...	...	...
264 **	Poplar-Eastern	6	Good	Low	Path	...	...	...
265 **	Poplar-Eastern	6	Good	Low	Path	...	...	...

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Primary Target	Tree & Shrub Work Phase	Recommendation	Defect(s) or Observation(s)
266 **	Poplar-Eastern	14	Fair	Low	Path	...	...	• Dead branches >2 • Wound-stem
267 **	Poplar-Eastern	6	Good	Low	Path	...	...	...
268 **	Poplar-Eastern	10,6	Fair	Low	Path	...	...	• Co-dominant stems • Dead branches >2 • Included bark • Poor branch structure
269 **	Locust-Black	6	Good	Low	Path	...	...	• Uneven crown
270 **	Locust-Black	6,5	Good	Low	Path	...	...	...
271 **	Locust-Black	6	Fair	Low	Path	...	...	...
272 **	Locust-Black	6,4	Fair	Low	Path	...	...	• Co-dominant stems • Included bark • Poor branch structure
273 **	Tree of Heaven	7	Good	Low	Path	...	...	...
274 **	Locust-Black	6	Good	Low	Path	...	...	• Co-dominant stems
275 **	Locust-Black	7	Good	Low	Path	...	...	...

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Primary Target	Tree & Shrub Work Phase	Recommendation	Defect(s) or Observation(s)
276 **	Locust-Black	6	Good	Low	Path	...	...	• Uneven crown
277 **	Locust-Black	6	Good	Low	Path	...	...	• Uneven crown
278 **	Locust-Black	6	Fair	Low	Path	...	...	• Flush cuts
279 **	Poplar-Eastern	13	Good	Low	Path	...	...	• Dead branches <=2
280 **	Poplar-Eastern	18	Good	Low	Path	...	...	• Co-dominant stems • Dead branches <=2 • Included bark • Poor branch structure
281 **	Poplar-Eastern	11	Good	Low	Path	...	...	• Buried root collar • Uneven crown
282 **	Poplar-Eastern	17,8	Good	Low	Path	...	...	• Co-dominant stems • Dead branches >2
283 **	Poplar-Eastern	12	Good	Low	Path	...	...	...
284 **	Poplar-Eastern	13	Good	Low	Path	...	...	• Dead branches >2
285 **	Poplar-Eastern	10	Good	Low	Path	...	...	• Uneven crown
286 **	Poplar-Eastern	9	Good	Low	Path	...	...	• Uneven crown

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Primary Target	Tree & Shrub Work Phase	Recommendation	Defect(s) or Observation(s)
288 **	Locust-Black	6,4,4,4,4	Poor	Low	Path	...	...	• Co-dominant stems • Included bark • Poor branch structure
290 **	Tree of Heaven	8	Fair	Low	Path	...	...	• Buried root collar
291 **	Mulberry-Red	7	Good	Low	Path	...	...	• Uneven crown
292 **	Mulberry-Red	6,5	Poor	Low	Path	...	...	• Co-dominant stems • Uneven crown
296 **	Locust-Black	6,3	Fair	Low	Path	...	...	• Co-dominant stems • Included bark
297 **	Poplar-Eastern	12,10	Good	Low	Path	...	...	• Co-dominant stems • Included bark • Poor branch structure
298 **	Poplar-Eastern	12,9	Good	Low	Path	...	...	• Co-dominant stems • Poor branch structure
299 **	Poplar-Eastern	12	Good	Low	Path	...	...	• Dead branches <=2
300 **	Poplar-Eastern	6	Good	Low	Path	...	...	...
301 **	Poplar-Eastern	16	Good	Low	Path	...	...	• Dead branches >2

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Primary Target	Tree & Shrub Work Phase	Recommendation	Defect(s) or Observation(s)
302 **	Poplar-Eastern	11	Good	Low	Path	...	...	...
303 **	Poplar-Eastern	10,10	Fair	Low	Path	...	...	• Co-dominant stems • Dead branches >2 • Included bark • Poor branch structure
304 **	Poplar-Eastern	8	Poor	Low	Path	...	...	• Dead branches >2 • Sweep
305 **	Poplar-Eastern	13,13,8	Good	Low	Path	...	...	• Co-dominant stems • Dead branches >2 • Included bark • Poor branch structure
306 **	Locust-Black	6,6,3,3,3	Poor	Low	Path	...	...	• Co-dominant stems • Included bark • Poor branch structure
307 **	Poplar-Eastern	22,18,18	Fair	Low	Path	...	...	• Co-dominant stems • Dead branches >2 • Poor branch structure

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Primary Target	Tree & Shrub Work Phase	Recommendation	Defect(s) or Observation(s)
308 **	Locust-Black	9	Fair	Low	Path	...	...	• Dead branches <=2 • Uneven crown
309 **	Locust-Black	8	Fair	Low	Path	...	...	• Dead branches >2 • Uneven crown
310 **	Locust-Black	9	Good	Low	Path	...	...	• Dead branches <=2
311 **	Locust-Black	9,4	Good	Low	Path	...	...	• Co-dominant stems • Uneven crown
313 **	Locust-Black	12	Fair	Low	Path	...	...	• Co-dominant stems • Uneven crown
314 **	Maple-Boxelder	15,13,11,8,7	Poor	Low	Path	...	...	• Co-dominant stems • Dead branches >2 • Included bark • Poor branch structure
315 **	Locust-Black	15	Good	Low	Path	...	...	• Co-dominant stems • Included bark • Uneven crown
316 **	Locust-Black	9	Good	Low	Path	...	...	• Dead branches <=2
317 **	Locust-Black	8	Good	Low	Path	...	...	• Dead branches <=2 • Uneven crown

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Primary Target	Tree & Shrub Work Phase	Recommendation	Defect(s) or Observation(s)
318 **	Locust-Black	7	Good	Low	Path	...	...	• Dead branches <=2
319 **	Locust-Black	6	Good	Low	Path	...	...	• Dead branches <=2
320 **	Locust-Black	6	Good	Low	Path	...	...	• Dead branches >2
321 **	Locust-Black	6	Good	Low	Path	...	...	• Co-dominant stems • Dead branches <=2 • Uneven crown
322 **	Tree of Heaven	7	Fair	Low	Path	...	...	• Co-dominant stems • Dead branches >2 • Uneven crown
323 **	Tree of Heaven	6	Good	Low	Path	...	...	...
324 **	Locust-Black	7,5	Good	Low	Path	...	...	• Co-dominant stems • Dead branches <=2
325 **	Locust-Black	7	Good	Low	Path	...	...	• Wound-stem
326 **	Tree of Heaven	7	Good	Low	Path	...	...	...

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Primary Target	Tree & Shrub Work Phase	Recommendation	Defect(s) or Observation(s)
327 **	Locust-Black	8	Fair	Low	Path	...	...	• Dead branches >2 • Included bark • Poor branch structure
328 **	Tree of Heaven	7	Good	Low	Path	...	...	...
329 **	Maple-Boxelder	7	Poor	Low	Path	...	...	• Uneven crown
330 **	Tree of Heaven	11	Fair	Low	Path	...	...	• Co-dominant stems • Poor branch structure
331 **	Tree of Heaven	9	Fair	Low	Path	...	...	• Dead branches >2 • Uneven crown
332 **	Tree of Heaven	15	Fair	Low	Path	...	...	• Co-dominant stems • Dead branches >2 • Included bark • Poor branch structure • Uneven crown
335 **	Tree of Heaven	10	Good	Low	Path	...	...	...
336 **	Tree of Heaven	7	Good	Low	Path	...	...	• Uneven crown

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Primary Target	Tree & Shrub Work Phase	Recommendation	Defect(s) or Observation(s)
337 **	Crabapple	8,4	Fair	Low	Path	...	...	• Co-dominant stems • Dead branches <=2 • Uneven crown
338 **	Tree of Heaven	8	Fair	Low	Path	...	...	• Dead branches >2
339 **	Cherry-Black	8	Poor	Low	Path	...	...	• Uneven crown
340 **	Tree of Heaven	6	Poor	Low	Path	...	...	• Dead branches >2
341 **	Cherry-Black	6,6	Fair	Low	Path	...	...	• Co-dominant stems • Poor branch structure
342 **	Cherry-Black	13,6	Fair	Low	Path	...	...	• Co-dominant stems • Dead branches <=2 • Poor branch structure
343 **	Cherry-Flowering	9	Good	Low	Path	...	...	• Uneven crown
345 **	Poplar-Eastern	28,17	Good	Low	Path	...	...	• Co-dominant stems • Dead branches >2

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Primary Target	Tree & Shrub Work Phase	Recommendation	Defect(s) or Observation(s)
346 **	Ash-White	12	Fair	Low	Path	...	...	• Co-dominant stems • Dead branches >2 • Uneven crown
347 **	Crabapple	7	Good	Low	Path	...	...	• Poor branch structure
348 **	Locust-Black	11	Good	Low	Path	...	...	• Co-dominant stems • Dead branches >2
349 **	Locust-Black	6,5	Good	Low	Path	...	...	• Co-dominant stems • Uneven crown
350 **	Locust-Black	7,4,3	Good	Low	Path	...	...	• Co-dominant stems • Poor branch structure • Uneven crown
351 **	Chokecherry-Common	6	Fair	Low	Path	...	...	• Uneven crown
352 **	Locust-Black	9,6	Good	Low	Path	...	...	• Buried root collar • Co-dominant stems • Uneven crown
353 **	Locust-Black	8	Good	Low	Path	...	...	• Dead branches <=2
355 **	Locust-Black	7	Good	Low	Path	...	...	• Uneven crown

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Primary Target	Tree & Shrub Work Phase	Recommendation	Defect(s) or Observation(s)
356 **	Locust-Black	8,5	Fair	Low	Path	...	...	• Co-dominant stems • Uneven crown • Wound-stem
357 **	Locust-Black	12	Good	Low	Path	...	...	• Co-dominant stems • Dead branches <=2
358 **	Cherry-Flowering	6	Good	Low	Path	...	...	...
359 **	Locust-Black	10,9	Good	Low	Path	...	...	• Co-dominant stems • Poor branch structure • Uneven crown
360 **	Tree of Heaven	9	Fair	Low	Path	...	...	• Co-dominant stems • Uneven crown
361 **	Locust-Black	9	Good	Low	Path	...	...	• Dead branches <=2 • Uneven crown
362 **	Poplar-Eastern	14	Good	Low	Path	...	...	• Uneven crown
363 **	Poplar-Eastern	10	Good	Low	Path	...	...	• Buried root collar • Uneven crown
364 **	Poplar-Eastern	15,13,11	Fair	Low	Path	...	...	• Co-dominant stems • Included bark • Uneven crown

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Primary Target	Tree & Shrub Work Phase	Recommendation	Defect(s) or Observation(s)
365 **	Poplar-Eastern	17,16,13	Good	Low	Path	...	...	• Co-dominant stems • Dead branches >2 • Included bark • Poor branch structure
366 **	Poplar-Eastern	11	Fair	Low	Path	...	...	• Uneven crown • Wound-stem
367 **	Tree of Heaven	7	Poor	Low	Path	...	...	• Uneven crown
368 **	Poplar-Eastern	9,8,4	Good	Low	Path	...	...	• Co-dominant stems • Dead branches <=2 • Included bark • Poor branch structure
369 **	Poplar-Eastern	10,7	Fair	Low	Path	...	...	• Co-dominant stems • Included bark • Poor branch structure • Uneven crown
370 **	Birch-Gray	6	Good	Low	Path	...	...	• Uneven crown
371 **	Locust-Black	9	Fair	Low	Path	...	...	• Buried root collar • Uneven crown

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Primary Target	Tree & Shrub Work Phase	Recommendation	Defect(s) or Observation(s)
372 **	Locust-Black	12,10,9,4,4	Fair	Low	Path	...	...	• Co-dominant stems • Dead branches >2 • Included bark • Poor branch structure
373 **	Locust-Black	12	Good	Low	Path	...	...	• Dead branches >2 • Uneven crown
374 **	Locust-Black	8	Fair	Low	Path	...	...	• Buried root collar • Uneven crown
375 **	Locust-Black	12	Fair	Low	Path	...	...	• Buried root collar • Co-dominant stems • Wound-stem
376 **	Tree of Heaven	10,6	Poor	Low	Path	...	...	• Buried root collar • Co-dominant stems • Wound-stem
377 **	Locust-Black	16	Poor	Low	Path	...	...	• Co-dominant stems • Included bark • Poor branch structure • Uneven crown

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Primary Target	Tree & Shrub Work Phase	Recommendation	Defect(s) or Observation(s)
378 **	Locust-Black	6,5	Poor	Low	Path	...	...	• Buried root collar • Co-dominant stems • Included bark • Poor branch structure • Wound-stem
383 **	Pine-Austrian	15	Fair	Low	Path	...	...	• Dead branches >2
385 **	Pine-Austrian	15	Poor	Low	Path	...	...	• Dead branches >2 • Uneven crown
387	Crabapple	9	Good	Low	Path	...	• RCX	• Buried root collar • Co-dominant stems • Poor branch structure
388	Crabapple	8	Good	Low	Path	...	• RCX	• Buried root collar • Co-dominant stems • Included bark • Poor branch structure

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Primary Target	Tree & Shrub Work Phase	Recommendation	Defect(s) or Observation(s)
389	Crabapple	13	Good	Low	Path	...	• RCX	• Buried root collar • Co-dominant stems • Included bark • Poor branch structure
390 **	Crabapple	8	Fair	Low	Path	...	...	• Buried root collar • Co-dominant stems • Included bark • Low vigor • Poor branch structure
392	Crabapple	10	Good	Low	Path	...	• RCX	• Buried root collar • Co-dominant stems • Poor branch structure
393	Crabapple	10	Good	Low	Path	...	• RCX	• Buried root collar • Co-dominant stems • Poor branch structure

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Primary Target	Tree & Shrub Work Phase	Recommendation	Defect(s) or Observation(s)
394	Crabapple	9	Good	Low	Path	...	• RCX	• Buried root collar • Co-dominant stems • Poor branch structure
395	Crabapple	12	Good	Low	Path	...	• RCX	• Buried root collar • Co-dominant stems • Poor branch structure
396	Crabapple	12	Good	Low	Path	...	• RCX	• Buried root collar • Co-dominant stems • Poor branch structure
398 **	Oak-Northern Red	11	Good	Low	Path	...	...	• Dead branches <=2
399 **	Oak-Northern Red	11	Good	Low	Path	...	...	• Dead branches <=2
400 **	Mulberry-Red	7,5,5,5	Fair	Low	Path	...	...	• Co-dominant stems • Poor branch structure
401 **	Maple-Boxelder	10	Good	Low	Path	...	...	• Co-dominant stems • Poor branch structure

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Primary Target	Tree & Shrub Work Phase	Recommendation	Defect(s) or Observation(s)
402 **	Locust-Black	19	Good	Low	Path	...	...	• Co-dominant stems • Included bark • Poor branch structure
403 **	Maple-Boxelder	9	Good	Low	Path	...	...	• Dead branches >2 • Poor branch structure • Uneven crown
404 **	Oak-Northern Red	12	Good	Low	Path	...	...	• Dead branches <=2 • Uneven crown
405 **	Locust-Black	12	Good	Low	Path	...	...	• Uneven crown
406 **	Locust-Black	18,12	Fair	Low	Path	...	...	• Co-dominant stems • Dead branches >2
407 **	Cherry-Black	8	Poor	Low	Path	...	...	• Dead branches >2 • Uneven crown
408 **	Locust-Black	14,10	Good	Low	Path	...	...	• Dead branches >2 • Poor branch structure • Uneven crown

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Primary Target	Tree & Shrub Work Phase	Recommendation	Defect(s) or Observation(s)
409 **	Tree of Heaven	10,9,6,6	Fair	Low	Path	...	...	• Co-dominant stems • Included bark • Poor branch structure
410 **	Locust-Black	11	Fair	Low	Path	...	...	• Dead branches >2
411 **	Locust-Black	18,10,8	Poor	Low	Path	...	...	• Co-dominant stems • Dead branches >2
412 **	Locust-Black	7	Fair	Low	Path	...	...	• Dead branches <=2 • Uneven crown • Wound-stem
413 **	Locust-Black	7	Fair	Low	Path	...	...	• Dead branches <=2 • Wound-stem
414 **	Locust-Black	11	Good	Low	Path	...	...	• Dead branches <=2 • Wound-stem
415 **	Locust-Black	9,4	Good	Low	Path	...	...	• Dead branches >2 • Uneven crown
416 **	Locust-Black	7	Good	Low	Path	...	...	• Uneven crown
417 **	Locust-Black	6,2	Good	Low	Path	...	...	• Co-dominant stems • Poor branch structure

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Primary Target	Tree & Shrub Work Phase	Recommendation	Defect(s) or Observation(s)
418 **	Locust-Black	6,3	Fair	Low	Path	...	...	• Co-dominant stems • Poor branch structure • Uneven crown
419 **	Locust-Black	10	Good	Low	Path	...	...	• Co-dominant stems • Dead branches >2
420 **	Locust-Black	7,4	Fair	Low	Path	...	...	• Co-dominant stems • Dead branches <=2
421 **	Locust-Black	9,6	Fair	Low	Path	...	...	• Co-dominant stems • Dead branches >2
422 **	Locust-Black	6	Good	Low	Path	...	...	...
423 **	Locust-Black	9	Good	Low	Path	...	...	• Wound-stem
424 **	Locust-Black	7,4	Good	Low	Path	...	...	• Co-dominant stems • Uneven crown

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Primary Target	Tree & Shrub Work Phase	Recommendation	Defect(s) or Observation(s)
425 **	Locust-Black	18,14,9	Poor	Low	Path	...	...	• Co-dominant stems • Dead branches >2 • Included bark • Poor branch structure
426 **	Locust-Black	9	Good	Low	Path	...	...	• Dead branches <=2
427 **	Locust-Black	17	Good	Low	Path	...	...	• Co-dominant stems • Dead branches >2 • Included bark • Poor branch structure
428 **	Locust-Black	9,8	Good	Low	Path	...	...	• Co-dominant stems • Dead branches >2 • Included bark • Poor branch structure
429 **	Mulberry-Red	7,5,4	Fair	Low	Path	...	...	• Co-dominant stems • Included bark • Poor branch structure • Uneven crown

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Primary Target	Tree & Shrub Work Phase	Recommendation	Defect(s) or Observation(s)
430 **	Locust-Black	7	Poor	Low	Path	...	...	• Dead branches >2 • Wound-stem
431 **	Locust-Black	7	Good	Low	Path	...	...	• Dead branches <=2
432 **	Locust-Black	10,10,7,6	Poor	Low	Path	...	...	• Co-dominant stems • Dead branches >2 • Included bark
433 **	Locust-Black	8	Good	Low	Path	...	...	• Dead branches <=2
434 **	Locust-Black	13,7,4	Fair	Low	Path	...	...	• Co-dominant stems • Dead branches >2 • Included bark • Poor branch structure
435 **	Locust-Black	11	Fair	Low	Path	...	...	• Dead branches >2 • Uneven crown
436 **	Locust-Black	10,8,5,4	Fair	Low	Path	...	...	• Co-dominant stems • Dead branches >2 • Included bark • Poor branch structure • Uneven crown

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Primary Target	Tree & Shrub Work Phase	Recommendation	Defect(s) or Observation(s)
437 **	Poplar-Eastern	20,18,14,8,8	Fair	Low	Path	...	...	• Co-dominant stems • Dead branches >2 • Included bark • Poor branch structure
438 **	Elm-Slippery	11,8	Good	Low	Path	...	...	• Co-dominant stems • Included bark • Poor branch structure
439 **	Locust-Black	6,4	Fair	Low	Path	...	...	• Co-dominant stems • Included bark • Poor branch structure • Uneven crown
440 **	Locust-Black	7	Fair	Low	Path	...	...	• Dead branches >2 • Uneven crown
441 **	Locust-Black	6	Fair	Low	Path	...	...	• Dead branches >2 • Uneven crown
442 **	Elm-Slippery	10,5	Good	Low	Path	...	...	• Co-dominant stems • Poor branch structure

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Primary Target	Tree & Shrub Work Phase	Recommendation	Defect(s) or Observation(s)
443 **	Locust-Black	7	Good	Low	Path	...	...	• Dead branches <=2 • Uneven crown
444 **	Locust-Black	6	Fair	Low	Path	...	...	• Co-dominant stems • Dead branches >2
445 **	Locust-Black	12	Good	Low	Path	...	...	• Co-dominant stems • Dead branches >2 • Included bark • Poor branch structure
446 **	Locust-Black	15	Poor	Low	Path	...	...	• Buried root collar • Co-dominant stems • Included bark • Poor branch structure • Wound-stem
447 **	Locust-Black	6	Good	Low	Path	...	...	• Buried root collar • Uneven crown

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Primary Target	Tree & Shrub Work Phase	Recommendation	Defect(s) or Observation(s)
448 **	Locust-Black	13,12,12,10	Poor	Low	Path	...	...	• Buried root collar • Co-dominant stems • Dead branches >2 • Included bark • Poor branch structure
449 **	Locust-Black	14	Fair	Low	Path	...	...	• Co-dominant stems • Dead branches <=2 • Included bark • Poor branch structure
450 **	Locust-Black	7	Good	Low	Path	...	...	• Dead branches <=2
451 **	Locust-Black	9	Good	Low	Path	...	...	• Dead branches >2
452 **	Locust-Black	13,10,8,8	Fair	Low	Path	...	...	• Co-dominant stems • Dead branches >2 • Poor branch structure • Uneven crown
453 **	Cherry-Black	7	Fair	Low	Path	...	...	• Poor branch structure • Uneven crown

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Primary Target	Tree & Shrub Work Phase	Recommendation	Defect(s) or Observation(s)
454 **	Locust-Black	9	Good	Low	Path	...	...	• Dead branches >2 • Uneven crown
455 **	Locust-Black	8,6	Fair	Low	Path	...	...	• Co-dominant stems • Poor branch structure • Uneven crown
456 **	Locust-Black	7	Good	Low	Path	...	...	• Dead branches <=2
457 **	Locust-Black	6	Good	Low	Path	...	...	• Dead branches <=2
458 **	Locust-Black	8	Good	Low	Path	...	...	• Co-dominant stems • Dead branches <=2
459 **	Locust-Black	7	Good	Low	Path	...	...	• Dead branches <=2 • Uneven crown
460 **	Locust-Black	8	Good	Low	Path	...	...	• Co-dominant stems • Dead branches <=2 • Uneven crown
461 **	Locust-Black	11	Fair	Low	Path	...	...	• Dead branches >2

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Primary Target	Tree & Shrub Work Phase	Recommendation	Defect(s) or Observation(s)
462 **	Locust-Black	7,5	Good	Low	Path	...	...	• Co-dominant stems • Dead branches >2 • Poor branch structure • Uneven crown
463 **	Locust-Black	9	Good	Low	Path	...	...	• Dead branches <=2
464 **	Locust-Black	6	Good	Low	Path	...	...	• Dead branches <=2
465 **	Locust-Black	9	Good	Low	Path	...	...	• Dead branches <=2 • Uneven crown
466 **	Locust-Black	8	Good	Low	Path	...	...	• Co-dominant stems • Dead branches <=2 • Included bark • Poor branch structure
471 **	Locust-Black	21	Fair	Low	Path	...	...	• Co-dominant stems • Dead branches >2 • Included bark • Poor branch structure

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Primary Target	Tree & Shrub Work Phase	Recommendation	Defect(s) or Observation(s)
472 **	Locust-Black	7	Poor	Low	Path	...	...	• Dead branches >2 • Uneven crown
473 **	Locust-Black	7	Fair	Low	Path	...	...	• Dead branches >2
474 **	Locust-Black	8	Fair	Low	Path	...	...	• Dead branches >2 • Uneven crown
475 **	Locust-Black	12	Poor	Low	Path	...	...	• Dead branches >2
476 **	Poplar-Eastern	18,18	Dead	Low	Path	...	...	• Co-dominant stems • Dead branches >2 • Poor branch structure
477 **	Locust-Black	9	Poor	Low	Path	...	...	• Dead branches >2 • Uneven crown
478 **	Locust-Black	7	Fair	Low	Path	...	...	• Dead branches >2 • Lean • Poor branch structure • Uneven crown

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Primary Target	Tree & Shrub Work Phase	Recommendation	Defect(s) or Observation(s)
479 **	Poplar-Eastern	23	Poor	Low	Path	...	...	• Co-dominant stems • Dead branches >2 • Dead/dying stem • Dieback (severe) • Included bark • Poor branch structure
480 **	Locust-Black	8	Fair	Low	Path	...	...	• Dead branches >2 • Uneven crown
481 **	Locust-Black	10	Poor	Low	Path	...	...	• Co-dominant stems • Decay-root • Included bark • Poor branch structure • Uneven crown
482 **	Poplar-Eastern	16	Good	Low	Path	...	...	• Co-dominant stems • Corrected lean • Dead branches >2

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Primary Target	Tree & Shrub Work Phase	Recommendation	Defect(s) or Observation(s)
483 **	Locust-Black	9	Good	Low	Path	...	...	• Co-dominant stems • Dead branches <=2 • Included bark • Poor branch structure
484 **	Locust-Black	16	Fair	Low	Path	...	...	• Co-dominant stems • Dead branches >2 • Growing against object • Included bark • Poor branch structure
485 **	Poplar-Eastern	12	Good	Low	Path	...	...	• Buried root collar • Co-dominant stems • Dead branches >2 • Uneven crown
486 **	Locust-Black	7	Fair	Low	Path	...	...	• Dead branches >2 • Uneven crown
487 **	Locust-Black	7	Fair	Low	Path	...	...	• Corrected lean • Dead branches >2 • Uneven crown

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Primary Target	Tree & Shrub Work Phase	Recommendation	Defect(s) or Observation(s)
488 **	Locust-Black	7	Fair	Low	Path	...	...	• Corrected lean • Dead branches >2 • Uneven crown
489 **	Locust-Black	8	Fair	Low	Path	...	...	• Dead branches >2 • Low vigor • Uneven crown
490 **	Poplar-Eastern	6	Good	Low	Path	...	...	• Corrected lean • Dead branches <=2 • Wound-stem
491 **	Birch-Gray	12	Fair	Low	Path	...	...	• Co-dominant stems • Dead branches >2 • Dieback (moderate) • Poor branch structure
492 **	Birch-Gray	9	Fair	Low	Path	...	...	• Co-dominant stems • Dead branches <=2 • Included bark • Lean • Poor branch structure

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Primary Target	Tree & Shrub Work Phase	Recommendation	Defect(s) or Observation(s)
493 **	Poplar-Eastern	6	Good	Low	Path	...	...	• Dead branches <=2 • Wound-root
494 **	Poplar-Eastern	9	Poor	Low	Path	...	...	• Dead branches >2 • Low vigor • Uneven crown • Wound-root flare
495 **	Poplar-Eastern	8	Fair	Low	Path	...	...	• Dead branches >2 • Lean • Uneven crown
496 **	Elm-American	10	Fair	Low	Path	...	...	• Co-dominant stems • Dead branches >2 • Uneven crown
497 **	Locust-Black	8	Fair	Low	Path	...	...	• Co-dominant stems • Dead branches >2 • Included bark • Poor branch structure • Uneven crown
498 **	Locust-Black	8	Fair	Low	Path	...	...	• Co-dominant stems • Dead branches >2 • Uneven crown

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Primary Target	Tree & Shrub Work Phase	Recommendation	Defect(s) or Observation(s)
501 **	Locust-Black	6	Good	Low	Path	...	...	• Co-dominant stems • Corrected lean • Included bark • Poor branch structure • Uneven crown
502 **	Locust-Black	6	Fair	Low	Path	...	...	• Co-dominant stems • Dead branches <=2 • Fungi/conks • Included bark • Poor branch structure • Uneven crown
503 **	Locust-Black	10	Fair	Low	Path	...	...	• Co-dominant stems • Dead branches >2 • Included bark • Poor branch structure

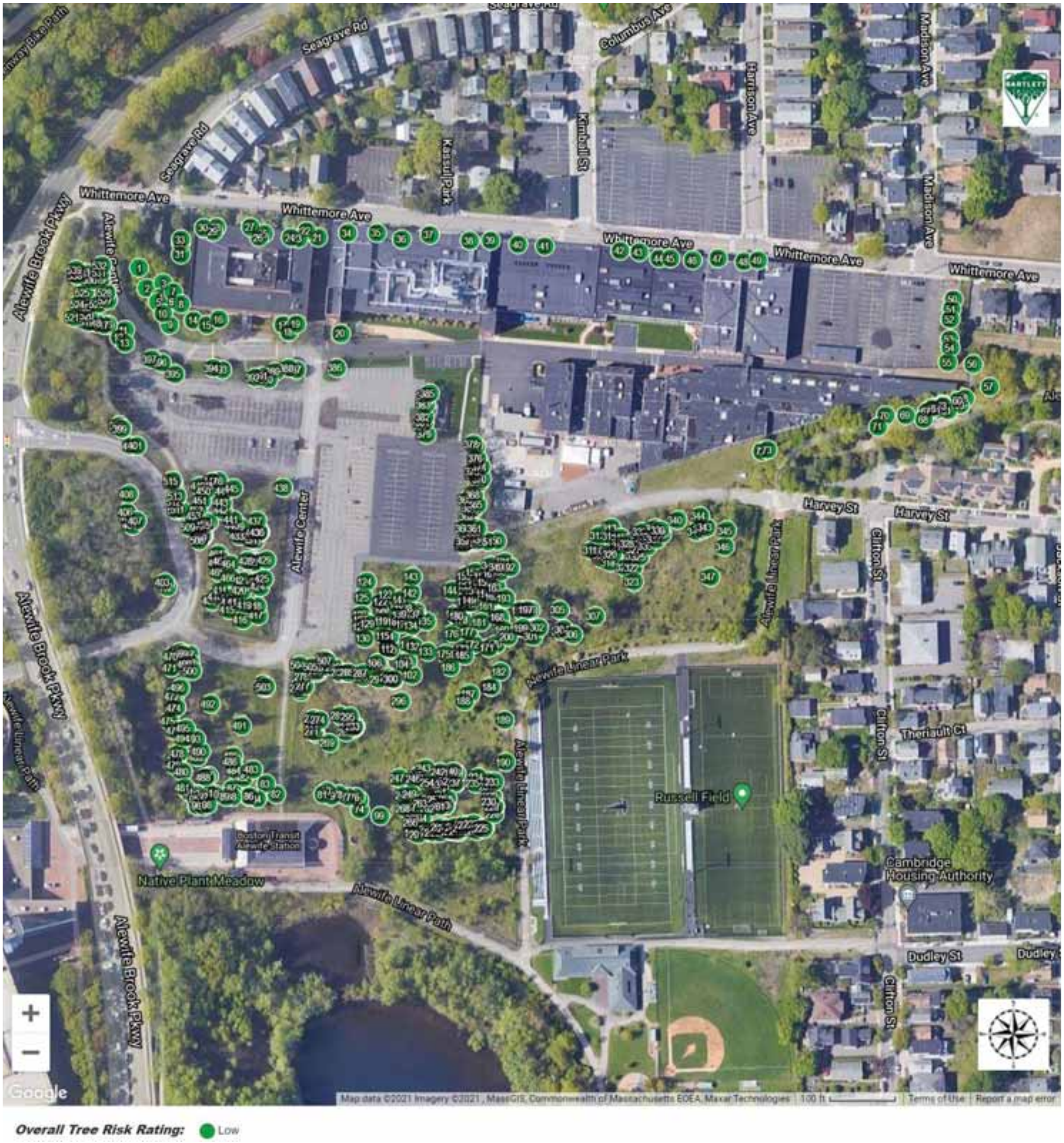
Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Primary Target	Tree & Shrub Work Phase	Recommendation	Defect(s) or Observation(s)
504 **	Poplar-Eastern	17,12	Good	Low	Path	...	...	• Co-dominant stems • Dead branches >2 • Included bark • Poor branch structure • Uneven crown
506 **	Poplar-Eastern	12	Fair	Low	Path	...	...	• Dead branches >2 • Seam • Uneven crown
516 **	Oak-Northern Red	16	Good	Low	Path	...	...	• Co-dominant stems • Dead branches >2 • Uneven crown
517 **	Oak-Northern Red	13	Good	Low	Path	...	...	• Dead branches >2 • Girdling roots present
518 **	Elm-American	9	Fair	Low	Path	...	...	• Dead branches <=2 • Suppressed • Uneven crown

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Primary Target	Tree & Shrub Work Phase	Recommendation	Defect(s) or Observation(s)
519 **	Cherry-Black	18	Fair	Low	Path	...	...	• Co-dominant stems • Lean • Poor branch structure • Uneven crown
520 **	Elm-American	8	Good	Low	Path	...	...	• Co-dominant stems • Dead branches <=2 • Included bark • Poor branch structure • Suppressed
522 **	Oak-Northern Red	31	Good	Low	Path	...	...	• Dead branches >2
523 **	Oak-Northern Red	19	Fair	Low	Path	...	...	• Dead branches >2 • Girdling roots present • Suppressed • Wound-stem
525 **	Oak-Pin	7	Good	Low	Path	...	...	• Dead branches <=2 • Suppressed
530 **	Oak-Northern Red	22	Good	Low	Path	...	...	• Co-dominant stems • Dead branches >2 • Wound-stem

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Primary Target	Tree & Shrub Work Phase	Recommendation	Defect(s) or Observation(s)
534 **	Cherry-Black	8	Fair	Low	Path	...	...	• Buried root collar • Dead branches >2 • Lean • Uneven crown • Wound-stem
535 **	Cherry-Black	8	Fair	Low	Path	...	...	• Dead branches <=2 • Lean • Suppressed • Uneven crown
537 **	Cherry-Black	9	Fair	Low	Path	...	...	• Dead branches <=2 • Lean • Uneven crown
539 **	Cherry-Black	9	Good	Low	Path	...	...	• Corrected lean • Dead branches <=2 • Growing against object

**Any tree without a mitigation recommendation or *Level 3 Advanced Assessment* recommendation should be retained and monitored.

INVENTORIED TREES ASSIGNED *OVERALL TREE RISK RATINGS* AT THE TIME OF DATA COLLECTION



STAND DYNAMICS RESULTS

STAND DYNAMICS RESULTS

In reviewing the results and recommendations, the reader will find useful the specifications and definitions detailed in the preceding methodology above. We used the following categories to organize the stand dynamics results, which are displayed in tables:

- **Subject Trees Summarized According to:**
    - Tree Species Identified
    - Condition Class
    - Age Class
    - Tree Size per DBH
    - Estimated Tree Asset Value

Where appropriate, we have included explanations, photos, drawings, or other information to illuminate the table contents.

Stand Dynamics

Tree Species Identified

Our inventory revealed 28 species of trees, as detailed in the following table:

TREE SPECIES IDENTIFIED

Genus	Species	Common Name	Count	% Distribution Total
Abies	*concolor*	Fir-White	1	< 1%
Acer	*campestre*	Maple-Hedge	3	1%
	negundo	Maple-Boxelder	6	1%
	platanoides	Maple-Norway	15	3%
	saccharinum	Maple-Silver	1	< 1%
***Acer* Total**			**25**	**5%**
Ailanthus	*altissima*	Tree of Heaven	33	6%
Betula	*papyrifera*	Birch-Paper	2	< 1%
	populifolia	Birch-Gray	4	1%
***Betula* Total**			**6**	**1%**
Chamaecyparis	*pisifera*	Falsecypress-Sawara Cypress	1	< 1%
Fraxinus	*americana*	Ash-White	1	< 1%
	pennsylvanica	Ash-Green	16	3%
***Fraxinus* Total**			**17**	**3%**
Gleditsia	*triacanthos* var. inermis	Honeylocust-Thornless Common	7	1%
Juniperus	*virginiana*	Juniper-Eastern Redcedar	1	< 1%
Malus	sp.	Crabapple	26	5%
Morus	*rubra*	Mulberry-Red	9	2%
Pinus	*nigra*	Pine-Austrian	7	1%
	strobus	Pine-Eastern White	22	4%
***Pinus* Total**			**29**	**5%**
Populus	*deltoides*	Poplar-Eastern	147	27%
Prunus	*serotina*	Cherry-Black	17	3%
	serrulata	Cherry-Flowering	14	3%
	virginiana	Chokecherry-Common	2	< 1%
***Prunus* Total**			**33**	**6%**
Pseudotsuga	*menziesii*	Douglas Fir	1	< 1%
Pyrus	*calleryana*	Pear-Callery	2	< 1%
Quercus	*palustris*	Oak-Pin	6	1%
	rubra	Oak-Northern Red	10	2%
***Quercus* Total**			**16**	**3%**
Robinia	*pseudoacacia*	Locust-Black	179	33%
Ulmus	*americana*	Elm-American	3	1%
	rubra	Elm-Slippery	3	1%
***Ulmus* Total**			**6**	**1%**

Genus	Species	Common Name	Count	% Distribution Total
Grand Total			**539**	**100%**

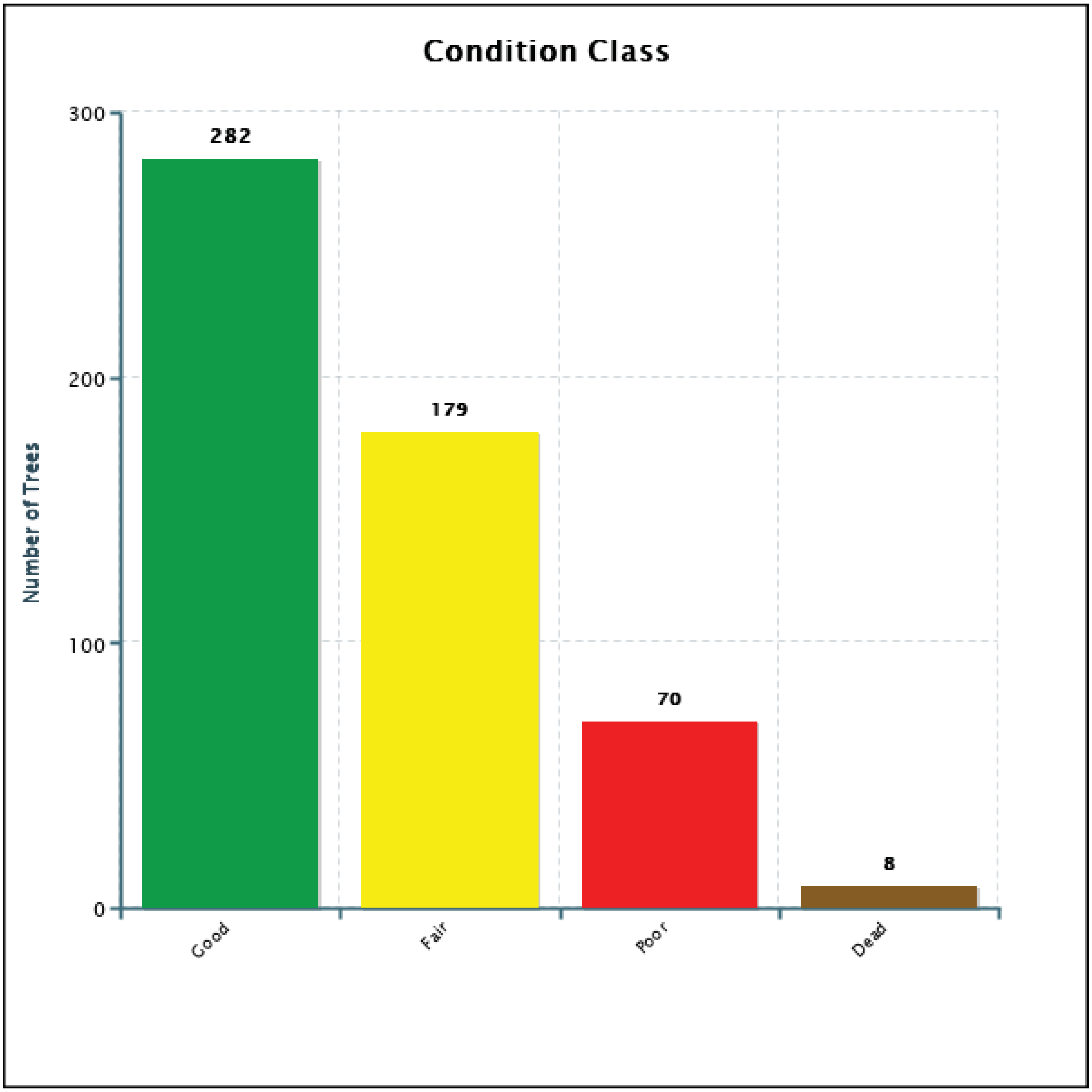
2021 TREE INVENTORY

Condition Class

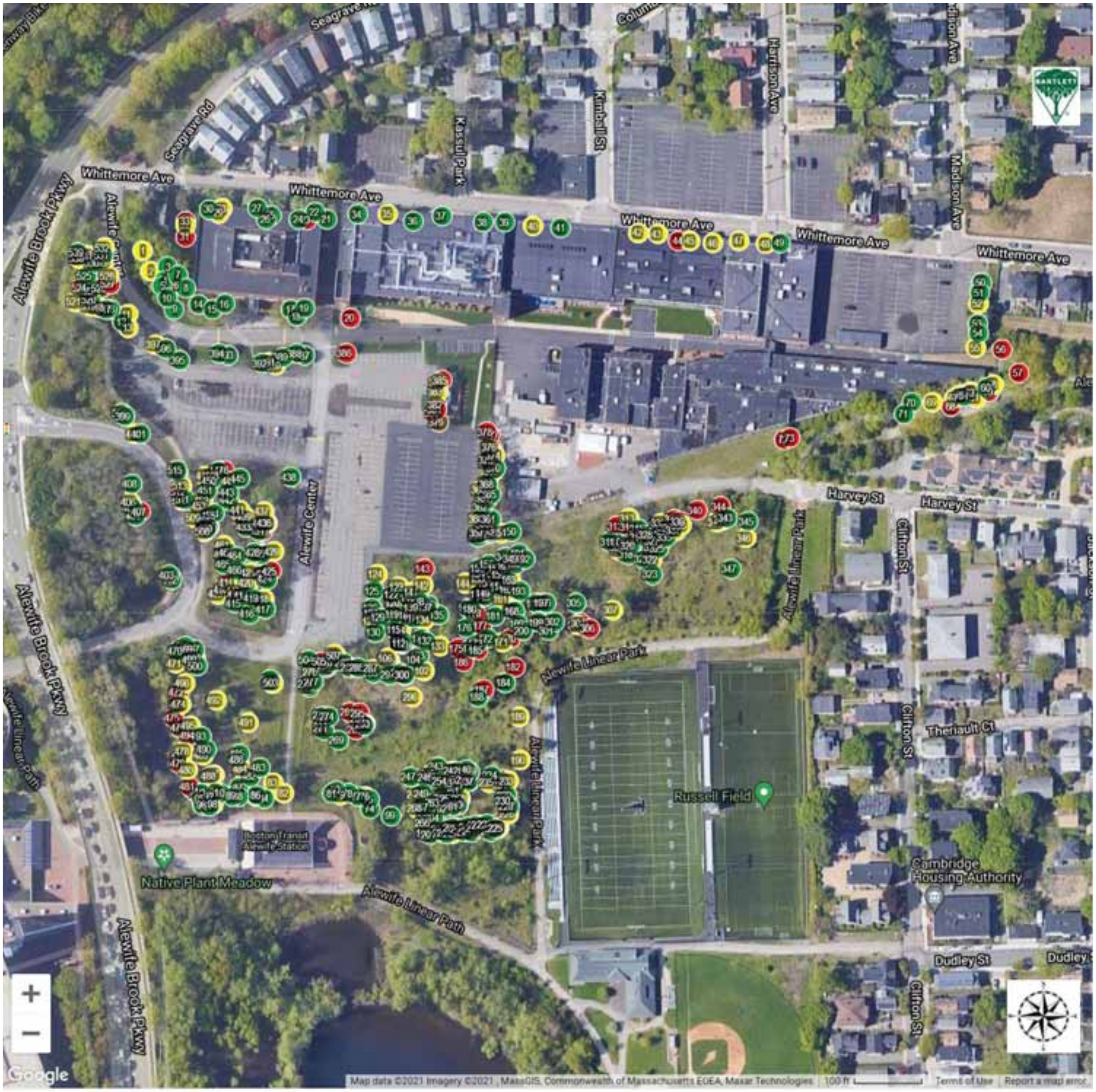
The breakdown of tree condition follows:

CONDITION CLASS BREAKDOWN

Condition Class	Quantity	% of Total
Good	282	52%
Fair	179	33%
Poor	70	13%
Dead	8	1%



INVENTORIED TREES BY CONDITION CLASS



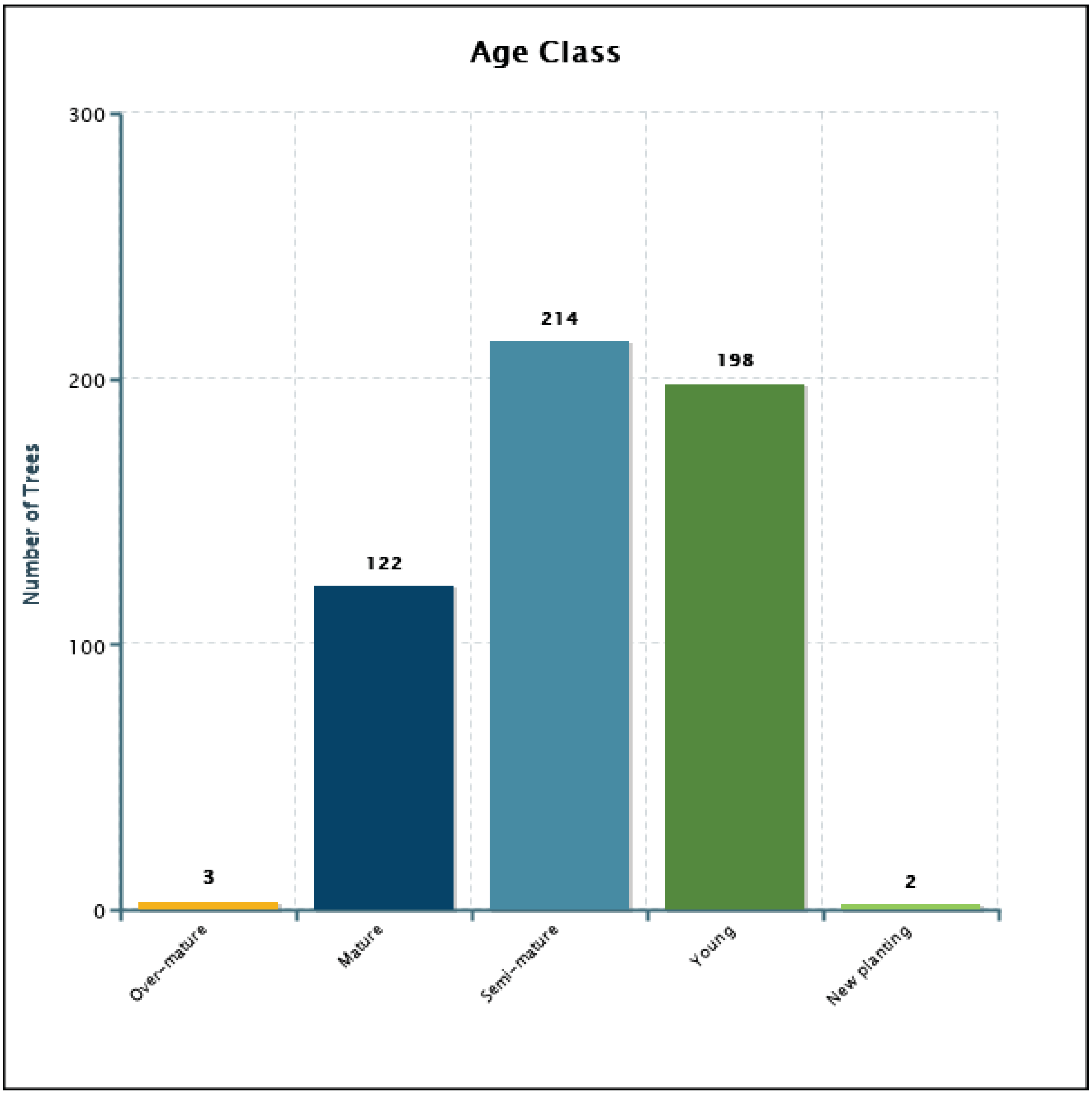
Condition: Good Fair Poor Dead

Age Class

The breakdown of tree age class follows:

AGE CLASS BREAKDOWN

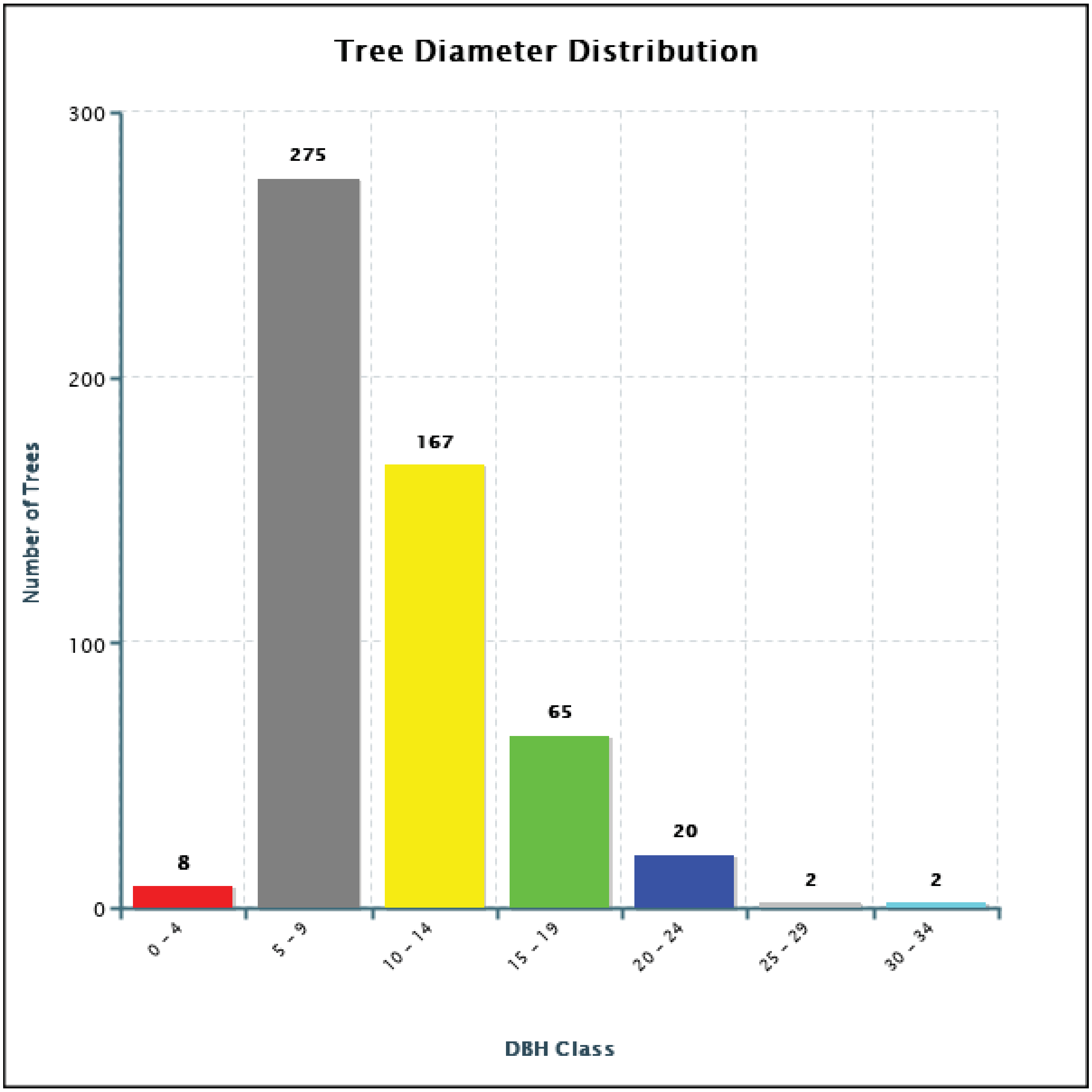
Age Class	Quantity	% of Total
Over-mature	3	1%
Mature	122	23%
Semi-mature	214	40%
Young	198	37%
New planting	2	< 1%



INVENTORIED TREES BY AGE CLASS

Tree Size (DBH)

The following chart illustrates numbers of trees according to size per DBH:



Estimated Tree Asset Value

As part of the Bartlett inventory process, we have included an Estimated Tree Asset Value for each tree and a cumulative total for all trees inventoried. We use an average per square inch nursery price, size (DBH), species factor, condition factor, and location factor to estimate the tree asset value. This is not intended to replace a tree appraisal.

The following data fields are used in this formula:

Data Field	Description
Average Per Square Inch Nursery Price	Based on the average nursery prices for two common tree species and one exotic tree species within a region, then taking the average of those three as the average per square inch price for the region
Size	Based on tree DBH (4.5 feet above grade)
Species Factor	Relative species desirability based on 100% for the tree in that geographical location. In most cases, species desirability ratings, published by the International Society of Arboriculture, are used for adjustment.
Condition Factor	Rating of the tree's structure and health based on 100%
Location Factor	Average rating for the site and the tree's contribution and placement, based on 100%

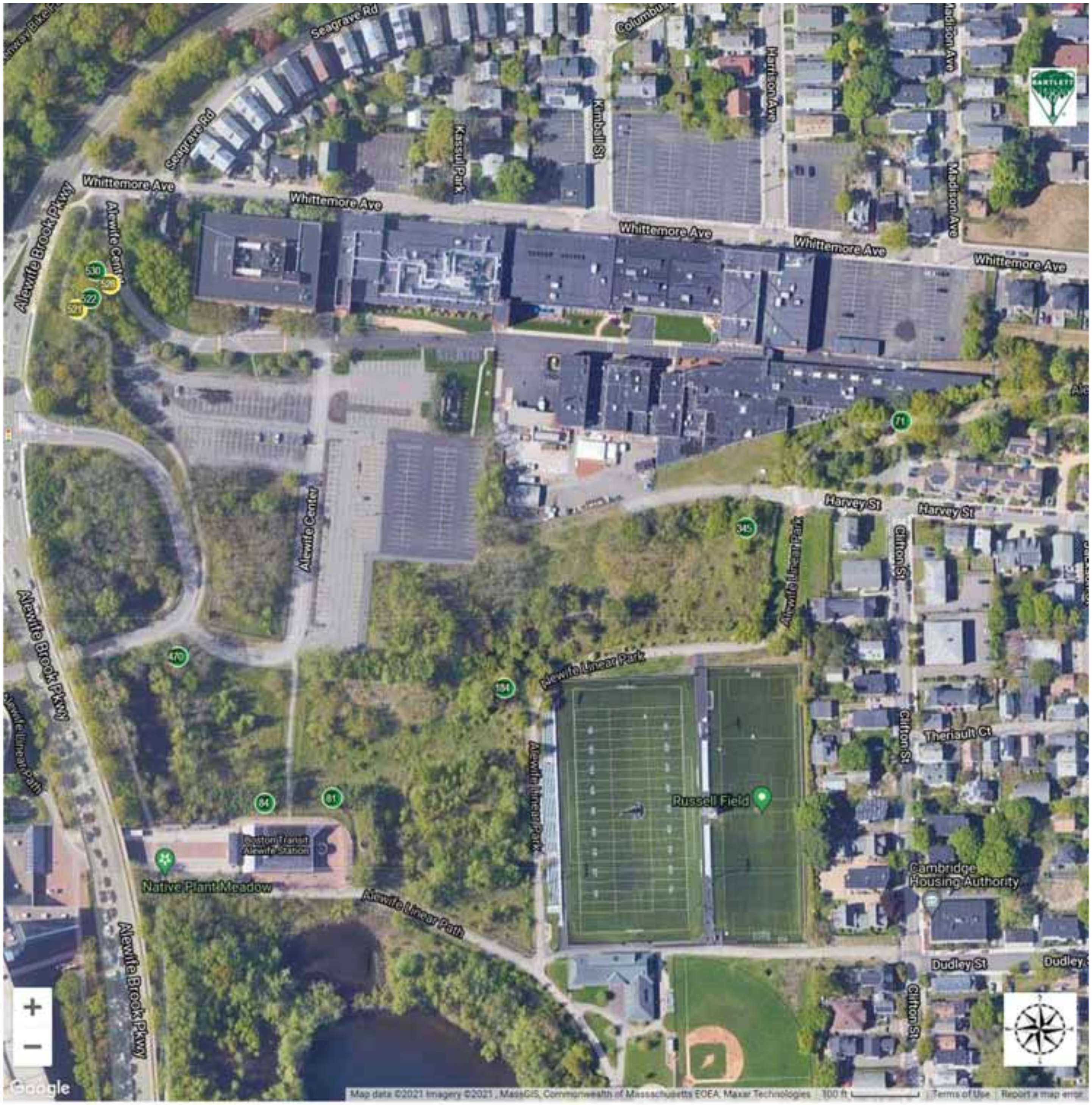
Estimated Tree Asset Value = (Average Per Square Inch Nursery Price*Size)*Species Factor*Condition Factor*Location Factor

The estimated cumulative total value for all trees inventoried is **$941,489.52**. The following table lists the ten trees with the highest Tree Asset Values:

TOP TEN TREES - HIGHEST ESTIMATED TREE ASSET VALUE

Tree ID	Common Name	Genus	Species	DBH	Tree Asset Value
522	Oak-Northern Red	*Quercus*	*rubra*	31	$27,533.95
470	Locust-Black	*Robinia*	*pseudoacacia*	29	$18,115.48
184	Oak-Pin	*Quercus*	*palustris*	24	$15,065.97
530	Oak-Northern Red	*Quercus*	*rubra*	22	$14,148.97
345	Poplar-Eastern	*Populus*	*deltoides*	28,17	$11,556.42
81	Pine-Eastern White	*Pinus*	*strobus*	21	$11,534.88
84	Pine-Eastern White	*Pinus*	*strobus*	20	$10,462.48
521	Oak-Northern Red	*Quercus*	*rubra*	22	$10,106.40
528	Oak-Northern Red	*Quercus*	*rubra*	22	$10,106.40
71	Pine-Eastern White	*Pinus*	*strobus*	19	$9,442.39

TOP TEN TREES - HIGHEST TREE ASSET VALUE



RECOMMENDATIONS

RECOMMENDATIONS

In reviewing the results and recommendations, the reader will find useful the specifications and definitions detailed in the preceding methodology. We used the following categories to organize the results and recommendations, which are displayed in tables:

Recommendations

- Soil Care
- Root Collar Excavation
- Plant Health Care
- Tree Pruning
- Structural Support Systems
- Lightning Protection Systems
- Tree Removal
- Vine Removal

Soil Care

Healthy soil is critical to the health and longevity of trees. Soil provides trees with the essential nutrients required for their growth. Many secondary problems such as reduced vigor, inadequate growth, branch dieback, and pest or disease concerns are related to the primary stress of poor soil conditions. Undisturbed, native forest soils generally contain adequate levels of organic matter, soil microbes, and nutrients. Urban, suburban, and landscape soils (as opposed to forest soils) usually lack these qualities, and are often compacted. In many cases, trees in a landscaped environment suffer from inadequate soil fertility, soil compaction, root zone competition with turf grasses, and inadequate total soil volume. Soil Care treatments should be applied as soon as possible, therefore they do not have a Tree & Shrub Work phase.

Bartlett Tree Experts recommends several procedures and treatments that address soil quality. Taking soil samples is perhaps the most important. Proper tree care cannot be initiated unless it is known what type of soil environment the trees are growing in. Soil testing results can help to create a path forward for improved tree health. We address some of these below.

Soil Sampling

Collecting soil samples and having them tested helps determine nutrients that may be lacking, unfavorable soil pH values, and adequacy of soil organic matter. Laboratory tests and analyses can determine the need for soil amendments.

Bulk Density

Compacted soils are regrettably common in the urban setting. A bulk density test, which requires an undisturbed core sample, measures the level of soil compaction. Arborists can use the results to diagnose problems or to determine what size holes to dig for planting. If soil density exceeds a measured threshold for a given soil type and tree species, we recommend Bartlett's Root Invigoration™ program.

Soil Rx®

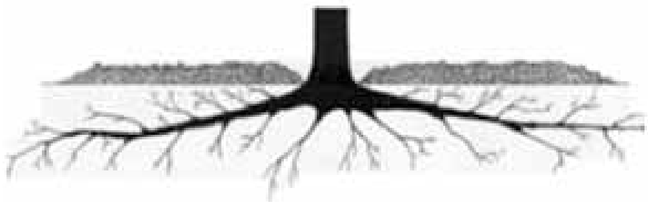
Bartlett's Soil Rx® program, which is a prescription soil amendment program, aims to correct nutrient deficiencies and optimize soil conditions for designated trees.

Root Invigoration™

The aim of Bartlett's patented Root Invigoration™ Program is to improve soil conditions by addressing soil compaction and promoting efficient root growth, especially for high-value trees in disturbed areas. The process includes taking soil samples to determine what nutrients are deficient, performing a root collar excavation, "air-tilling" a portion of the root zone to find fine roots, incorporating organic matter, applying soil amendments (based on soil sample), and applying mulch. The area of the root system treated can vary by tree. For the Root Invigoration™ Program to be successful, proper watering techniques must be employed after the process is complete.

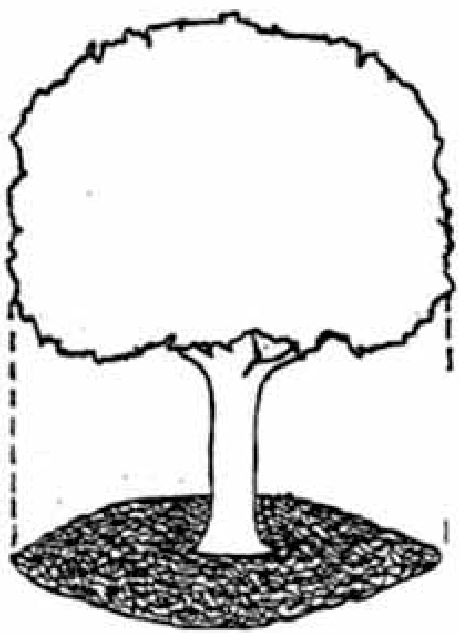
Mulch Application

Proper mulching (top left and bottom left) provides many benefits to trees and shrubs. It moderates soil temperatures, reduces soil moisture loss, reduces soil compaction, provides nutrients, and improves soil structure. This practice results in more root growth and healthier plants. The image on the top right illustrates root growth density under grass versus mulch. Mulch is frequently applied incorrectly (bottom right), so we recommend that readers inspect the technical report on mulch application guidelines that appears in the Appendix.



Example of how mulch should be installed, 2-4 inches thick and not against the trunk.

Example of root density under grass versus mulch.



Example of how mulch should be applied from the trunk to the dripline.

Example of improper mulch application, known as "volcano mulch".

At the time of inventory, no trees were directly recommended for soil care. However, we recommend soil sampling across maintained areas with prominent landscape plantings to identify opportunities to optimize soil conditions moving forward.

Root Collar Excavation

Excavating the root collar is necessary for trees whose buttress roots are covered by excess soil or mulch. Buried root collars can contribute to tree health problems, including girdling roots, basal cankers, and masking root and lower stem decay. Trees in the root collar excavation table do not have a Tree & Shrub Work phase and should be completed as soon as possible. The top image shows a buried root collar and the bottom image shows an exposed root collar.

Example of a buried root collar.

Example of an exposed root collar.

Girdling Roots

Girdling roots (top left and right) restrict water and nutrient movement throughout the tree. If left untreated they can cause the tree to decline, fail (bottom), and eventually die in severe cases. Girdling roots should be removed as soon as possible, unless removal of roots will significantly impact the condition or stability of the tree. In some cases, the presence of significant or severe girdling roots may cause the tree to be recommended for removal.

Examples of girdling roots.

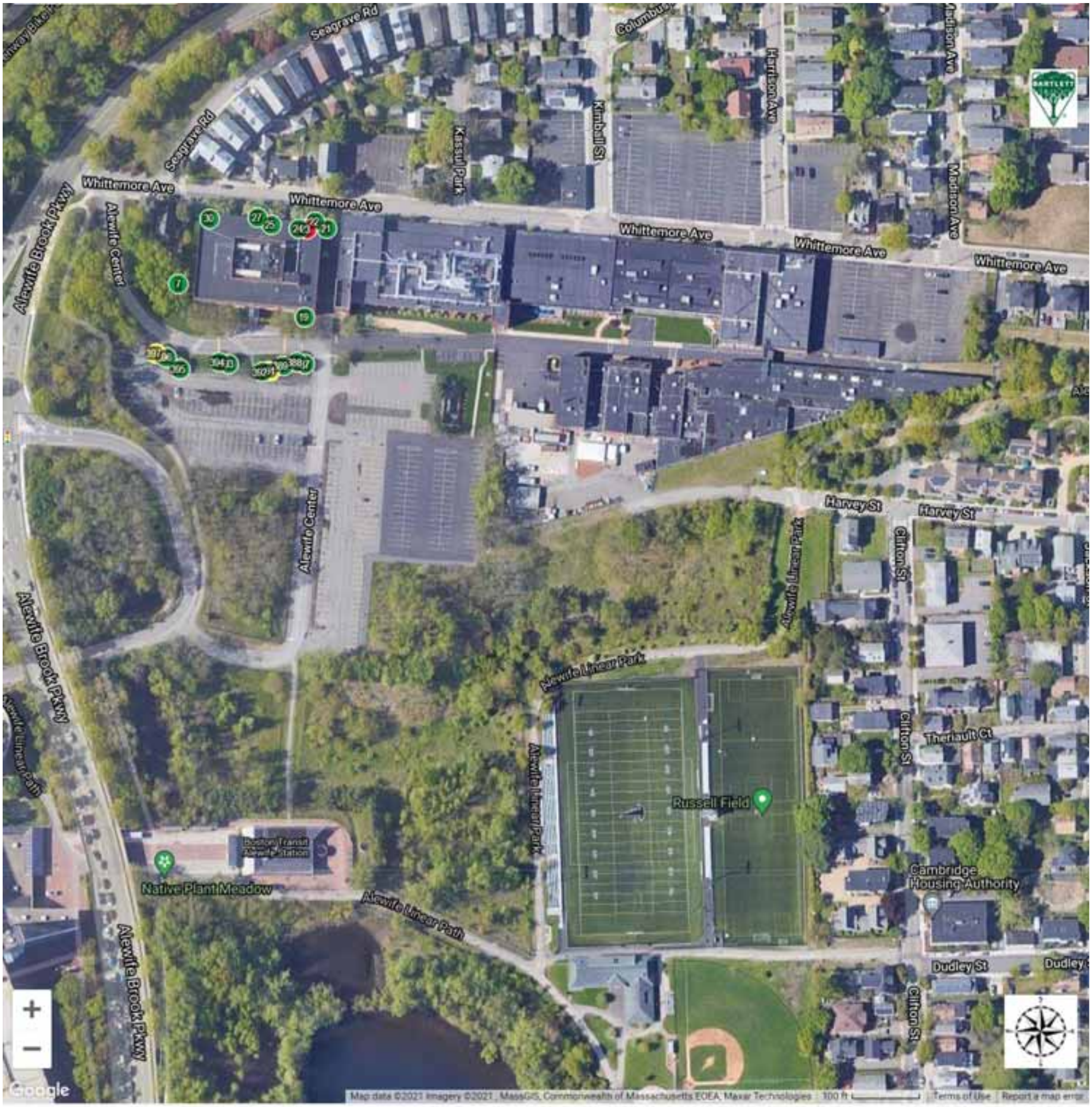
Example of tree failure from girdling roots.

The following trees are recommended for a root collar excavation:

INVENTORIED TREES RECOMMENDED FOR A ROOT COLLAR EXCAVATION (19 Trees)

Tree ID	Common Name	DBH	*Overall Tree Risk Rating*	Root Collar Observation
7	Ash-Green	12	Low	• Buried root collar
19	Honeylocust-Thornless Common	17	Low	• Buried root collar
21	Crabapple	11	Low	• Buried root collar
22	Crabapple	13	Low	• Buried root collar
23	Crabapple	13	Low	• Buried root collar
24	Crabapple	13	Low	• Buried root collar
25	Crabapple	13	Low	• Buried root collar
27	Crabapple	11	Low	• Buried root collar
30	Crabapple	14	Low	• Buried root collar
387	Crabapple	9	Low	• Buried root collar
388	Crabapple	8	Low	• Buried root collar
389	Crabapple	13	Low	• Buried root collar
391	Crabapple	8	Low	• Buried root collar
392	Crabapple	10	Low	• Buried root collar
393	Crabapple	10	Low	• Buried root collar
394	Crabapple	9	Low	• Buried root collar
395	Crabapple	12	Low	• Buried root collar
396	Crabapple	12	Low	• Buried root collar
397	Crabapple	9	Low	• Buried root collar

INVENTORIED TREES RECOMMENDED FOR A ROOT COLLAR EXCAVATION



Plant Health Care

The Inventory Team also recommends Plant Health Care (PHC) programs for trees in the formal landscape. In addition, an Integrated Pest Management (IPM) program monitors for potentially damaging insects, diseases and cultural problems that are often seasonal and may not have been evident during our inventory visit. Plant Health Care treatments should be applied as soon as possible, therefore they do not have a Tree & Shrub Work phase. These pests and diseases include, but are not limited to, the following:

- Anthracnose - on a variety of species
- Aphids - on a variety of species
- Bacterial Leaf Scorch - on trees within red oak group
- Bagworms - on a variety of tree species
- Boring Insects - on a variety of tree species
- Caterpillar Defoliators - on a variety of tree species, especially oak
- Gall Insects - on a variety of species
- Lacebugs - on a variety of species
- Scab and Rust Fungi - on crabapple and apple species.
- Suspected Phytophthora Root Rot and Canker - on a variety of tree species, especially beech species
- Scale Insects - on a variety of tree species, especially oak
- Spider Mites - on a variety of tree species

We identified pests or diseases and/or provided plant health care recommendations on the following inventoried trees at the time of the inventory:

INVENTORIED TREES IDENTIFIED FOR PLANT HEALTH CARE (55 Trees)

Tree ID	Common Name	DBH	Plant Health Care	Pest(s) or Disease(s)
2	Ash-Green	19	• EAB treatment	...
3	Ash-Green	16	• EAB treatment	...
4	Ash-Green	12	• EAB treatment	...
5	Ash-Green	14	• EAB treatment	...
6*	Ash-Green	11	• EAB treatment	...
7	Ash-Green	12	• EAB treatment	...
8	Ash-Green	14	• EAB treatment	...
9	Ash-Green	13	• EAB treatment	...
10	Ash-Green	14	• EAB treatment	...
11	Ash-Green	12	• EAB treatment	...
12	Ash-Green	12	• EAB treatment	...
13	Ash-Green	12	• EAB treatment	...
21	Crabapple	11	• Leaf spot treatment	...
22	Crabapple	13	• Leaf spot treatment	...
23	Crabapple	13	• Leaf spot treatment	...

Tree ID	Common Name	DBH	Plant Health Care	Pest(s) or Disease(s)
24	Crabapple	13	• Leaf spot treatment	...
25	Crabapple	13	• Leaf spot treatment	...
26	Crabapple	9	• Leaf spot treatment	...
27	Crabapple	11	• Leaf spot treatment	...
28	Crabapple	14	• Leaf spot treatment	...
29	Crabapple	11	• Leaf spot treatment	...
30	Crabapple	14	• Leaf spot treatment	...
35	Cherry-Flowering	6	...	• Aphids
90	Pine-Eastern White	17	...	• Borers
171	Crabapple	6,6,4,6	• Leaf spot treatment	...
187	Crabapple	6,6,5,5,6,4	• Leaf spot treatment	...
337	Crabapple	8,4,4	• Leaf spot treatment	...
344*	Crabapple	15,13,13	• Leaf spot treatment	...
347	Crabapple	7	• Leaf spot treatment	...
380*	Pine-Austrian	14	...	• Borers
381*	Pine-Austrian	13	...	• Borers
382*	Pine-Austrian	12	...	• Borers
383	Pine-Austrian	15	• Borer treatment	• Borers
384	Pine-Austrian	16	• Borer treatment • Fungicide treatment	• Borers • Diplodia tip blight
385	Pine-Austrian	15	• Borer treatment • Fungicide treatment	• Borers • Diplodia tip blight
387	Crabapple	9	• Leaf spot treatment	...
388	Crabapple	8	• Leaf spot treatment	...
389	Crabapple	13	• Leaf spot treatment	...
390	Crabapple	8	• Leaf spot treatment	...
391	Crabapple	8	• Leaf spot treatment	...
392	Crabapple	10	• Leaf spot treatment	...
393	Crabapple	10	• Leaf spot treatment	...
394	Crabapple	9	• Leaf spot treatment	...
395	Crabapple	12	• Leaf spot treatment	...
396	Crabapple	12	• Leaf spot treatment	...
397	Crabapple	9	• Leaf spot treatment	...
421	Locust-Black	9,6,6	...	• Borers
424	Locust-Black	7,4,4	...	• Borers
432	Locust-Black	10,10,7,6,10	...	• Borers
436	Locust-Black	10,8,5,4,8	...	• Borers
457	Locust-Black	6	...	• Borers
491	Birch-Gray	12	...	• Borers
492	Birch-Gray	9	...	• Borers
496	Elm-American	10	...	• Borers
520	Elm-American	8	...	• Mites

* Trees that are recommended for removal in the Tree Removal Section

INVENTORIED TREES IDENTIFIED FOR PLANT HEALTH CARE

Tree Pruning

A commonly offered service among tree companies, pruning trees is one of the most poorly executed practices by tree workers who lack training in the basics of tree biology. "Lion's tailing," topping, and flush cuts are a few examples, and these can lead to hazardous conditions over time.

Because this practice is so misunderstood, and because specific standards exist to perform pruning correctly, the Inventory Team decided to include some explanation in the main body of this management plan.

Tree owners and tree-care practitioners should always keep in mind that any pruning cut is a wound. Informed tree-care professionals have learned to manage that wounding to preserve the health, safety, and integrity of the tree.

Improper Pruning Practices

A few of the most common pruning abuses are:

- Lion's Tailing - pruning that removes interior branches along the stem and scaffold branches. This encourages poor branch taper, poor wind load distribution, and risk of branch failure. It also deprives the tree of foliage it needs to produce **photosynthates**. See next page, top left.
- Topping - pruning cuts that reduce a tree's size by using heading cuts that shorten branches to a predetermined size. Topping substantially reduces the functional benefits a tree is capable of providing and predisposes trees to structural defects that can contribute to failures in the future. It also reduces the value of the trees substantially and deprives the tree of adequate foliage. See next page, top right.
- Flush Cuts - pruning cut through the **branch collar**, flush against the trunk or parent stem, causing unnecessary injury. See next page, bottom.
- Using Climbing Spikes Inappropriately - Using climbing spikes on a healthy tree, for example, wounds healthy stem tissues and can lead to infection by fungal pathogens.

Example of Lion's tailing.

Examples of topping.

Examples of flush cuts.

Pruning with a Goal

Below are illustrations of common pruning goals:

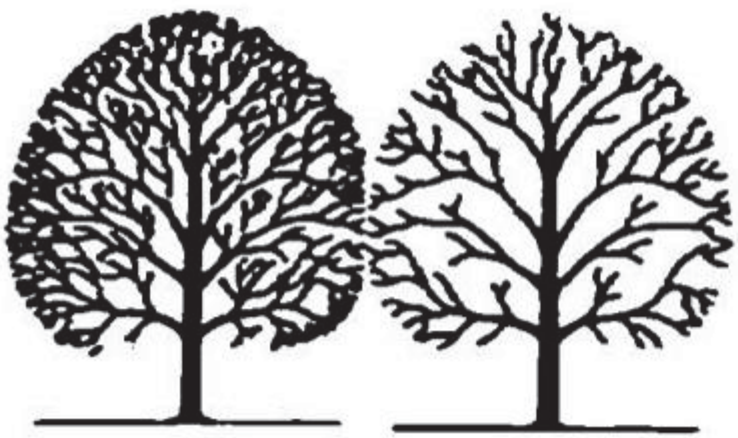


Illustration of improving airflow to reduce disease.

Illustration of branch weight reduction.

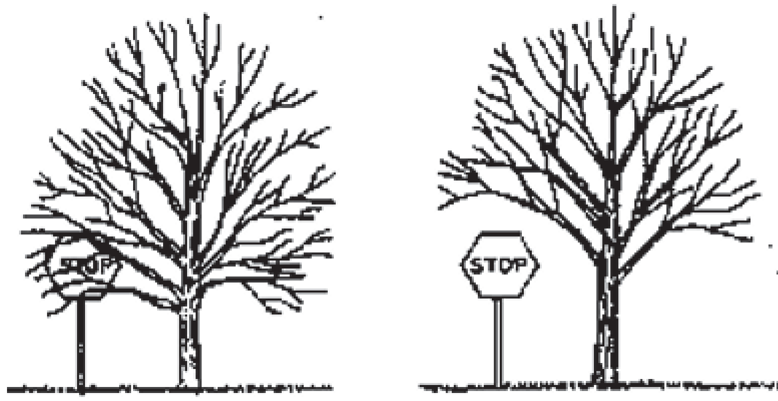


Illustration of raising branch elevation to improve clearance.

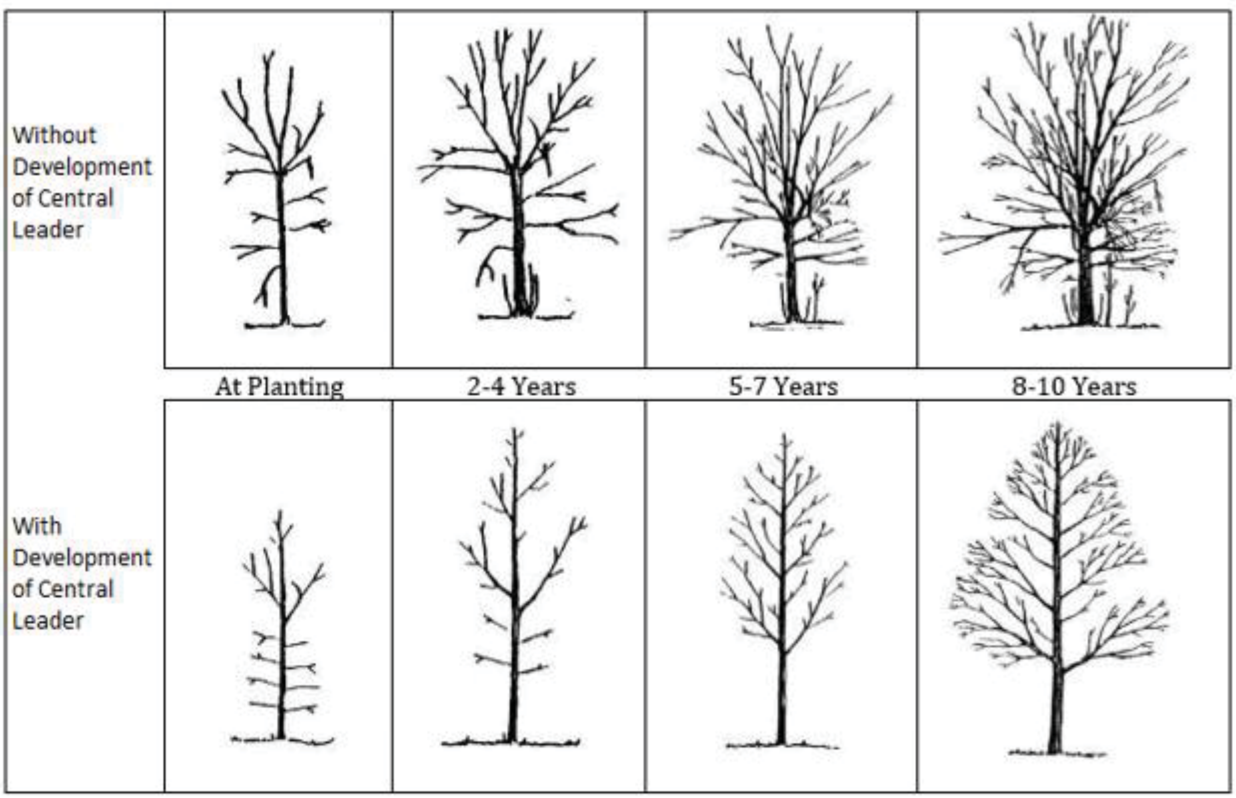


Illustration of promoting a strong central leader.

Pruning Category

All trees identified in this management plan that have pruning recommendations are listed with a specific pruning category. The listed order of these pruning categories are typical to most managers. Trees within each category are prioritized by the specific goals of most managers. It is recommended that specific goals be discussed with your local Bartlett Arborist Representative. Pruning categories are separated into individual tables below where each table lists specific arboricultural pruning goals and recommendations for each tree.

Risk Mitigation Pruning

Any tree identified with a Risk Mitigation Pruning category to reduce the *Overall Tree Risk Rating*, was previously summarized in the Tree Risk Assessments and Mitigation section earlier in the document.

Maintenance Pruning

This goal typically requires routine pruning of large/mature trees. Includes branch removal and/or branch reduction to help reduce *likelihood of failure* and/or conflict with infrastructure. Trees with these goals are typically climbed or require the use of aerial lifts and/or other specialized equipment.

The trees in this table are recommended for maintenance pruning:

INVENTORIED TREES RECOMMENDED FOR MAINTENANCE PRUNING (42 Trees)

Tree ID	Common Name	DBH	Tree & Shrub Work Phase	Pruning Goal	Defect(s) or Observation(s)
2	Ash-Green	19	1	• Reduce risk of branch stem and/or root failure	• Co-dominant stems • Dead branches >2 • Uneven crown
3	Ash-Green	16	1	• Reduce risk of branch stem and/or root failure • Improve appearance	• Co-dominant stems • Dead branches >2 • Poor branch structure • Uneven crown
4	Ash-Green	12	1	• Improve appearance	• Co-dominant stems • Dead branches >2
9	Ash-Green	13	1	• Reduce risk of branch stem and/or root failure	• Co-dominant stems • Dead branches >2
58	Maple-Norway	13	1	• Improve appearance	• Dead branches >2

Tree ID	Common Name	DBH	Tree & Shrub Work Phase	Pruning Goal	Defect(s) or Observation(s)
83	Elm-Slippery	13,11	1	• Clearance	• Co-dominant stems • Included bark • Poor branch structure
1	Cherry-Black	20	2	• Improve appearance	• Co-dominant stems • Dead branches >2 • Poor branch structure
5	Ash-Green	14	2	• Reduce risk of branch stem and/or root failure	• Co-dominant stems • Dead branches <=2
8	Ash-Green	14	2	• Reduce risk of branch stem and/or root failure	• Co-dominant stems • Dead branches >2
10	Ash-Green	14	2	• Improve appearance	• Co-dominant stems • Dead branches >2 • Uneven crown
11	Ash-Green	12	2	• Improve appearance	• Dead branches >2 • Uneven crown
12	Ash-Green	12	2	• Reduce risk of branch stem and/or root failure	• Dead branches >2 • Uneven crown • Wound-root
13	Ash-Green	12	2	• Improve appearance • Reduce risk of branch stem and/or root failure	• Co-dominant stems • Dead branches >2 • Uneven crown
21	Crabapple	11	2	• Reduce risk of branch stem and/or root failure	• Buried root collar • Co-dominant stems • Dead branches >2 • Poor branch structure
22	Crabapple	13	2	• Reduce risk of branch stem and/or root failure	• Buried root collar • Co-dominant stems • Poor branch structure • Uneven crown
23	Crabapple	13	2	• Improve appearance • Clearance	• Buried root collar • Dead branches >2 • Poor branch structure • Wound-stem

Tree ID	Common Name	DBH	Tree & Shrub Work Phase	Pruning Goal	Defect(s) or Observation(s)
24	Crabapple	13	2	• Improve appearance	• Buried root collar • Co-dominant stems • Dead branches >2 • Included bark • Poor branch structure
25	Crabapple	13	2	• Improve appearance	• Buried root collar • Co-dominant stems • Dead branches >2 • Included bark • Uneven crown
27	Crabapple	11	2	• Improve appearance	• Buried root collar • Co-dominant stems • Included bark • Poor branch structure • Uneven crown
28	Crabapple	14	2	• Improve appearance	• Buried root collar • Dead branches >2 • Included bark • Poor branch structure • Uneven crown
29	Crabapple	11	2	• Improve appearance	• Buried root collar • Co-dominant stems • Dead branches >2 • Poor branch structure • Uneven crown
30	Crabapple	14	2	• Improve appearance	• Buried root collar • Co-dominant stems • Dead branches >2 • Included bark • Poor branch structure • Uneven crown
62	Maple-Norway	10	2	• Reduce risk of branch stem and/or root failure	• Dead branches >2

Tree ID	Common Name	DBH	Tree & Shrub Work Phase	Pruning Goal	Defect(s) or Observation(s)
469	Locust-Black	13	2	• Improve appearance	• Co-dominant stems • Dead branches >2 • Included bark • Poor branch structure
470	Locust-Black	29	2	• Improve appearance • Clearance	• Co-dominant stems • Dead branches >2 • Included bark • Poor branch structure
499	Locust-Black	7	2	• Improve appearance • Clearance	• Dead branches >2 • Lean • Uneven crown
500	Locust-Black	14	2	• Improve appearance • Clearance	• Co-dominant stems • Dead branches <=2 • Included bark • Poor branch structure • Uneven crown
508	Locust-Black	9	2	• Reduce weight of branch ends • Clearance • Improve appearance	• Co-dominant stems • Included bark • Lean • Poor branch structure • Uneven crown • Wound-stem
510	Locust-Black	10	2	• Improve appearance • Clearance	• Co-dominant stems • Dead branches <=2 • Included bark • Poor branch structure
511	Locust-Black	8	2	• Improve appearance	• Dead branches >2 • Lean
513	Locust-Black	14	2	• Improve appearance • Clearance	• Co-dominant stems • Dead branches >2 • Included bark • Poor branch structure
514	Locust-Black	11	2	• Improve appearance • Clearance	• Co-dominant stems • Dead branches <=2 • Included bark • Poor branch structure

Tree ID	Common Name	DBH	Tree & Shrub Work Phase	Pruning Goal	Defect(s) or Observation(s)
515	Locust-Black	7	2	• Improve appearance • Clearance	• Corrected lean • Dead branches <=2 • Uneven crown
538	Cherry-Black	11	2	• Improve appearance	• Dead branches >2 • Growing against object • Sweep • Uneven crown
15	Honeylocust-Thornless Common	17	3	• Reduce risk of branch stem and/or root failure • Improve appearance	• Co-dominant stems • Dead branches <=2
17	Honeylocust-Thornless Common	17	3	• Improve appearance • Reduce risk of branch stem and/or root failure	• Co-dominant stems • Dead branches <=2 • Uneven crown
18	Honeylocust-Thornless Common	13	3	• Reduce risk of branch stem and/or root failure • Improve appearance	• Co-dominant stems • Dead branches <=2 • Uneven crown
19	Honeylocust-Thornless Common	17	3	• Improve appearance • Reduce risk of branch stem and/or root failure	• Buried root collar • Co-dominant stems • Dead branches <=2 • Uneven crown
26	Crabapple	9	3	• Improve appearance	• Buried root collar • Co-dominant stems • Dead branches <=2 • Poor branch structure • Uneven crown
391	Crabapple	8	3	• Improve appearance	• Buried root collar • Co-dominant stems • Dead branches >2 • Poor branch structure
397	Crabapple	9	3	• Improve appearance	• Buried root collar • Co-dominant stems • Dead branches >2 • Poor branch structure

Tree ID	Common Name	DBH	Tree & Shrub Work Phase	Pruning Goal	Defect(s) or Observation(s)
521	Oak-Northern Red	22	3	• Improve appearance • Clearance	• Co-dominant stems • Dead branches <=2 • Lean • Seam • Uneven crown

INVENTORIED TREES RECOMMENDED FOR MAINTENANCE PRUNING

Tree & Shrub Work Phase: 1 2 3

Developmental Pruning

This goal typically requires routine pruning of small/young trees. Includes structural pruning to develop a strong central stem, establish proper branch spacing, and/or develop branch structure.

At the time of inventory, no trees were recommended for developmental pruning. However, we recommend close monitoring of trees for changes in condition, especially after weather events not considered normal for the area.

Ornamental Pruning

This goal typically requires pruning of small trees. Includes reduction and/or shearing to its desired shape, size, and/or structure.

At the time of inventory, no trees were recommended for ornamental pruning. However, we recommend close monitoring of trees for changes in condition, especially after weather events not considered normal for the area.

Specialized Pruning

Trees with this goal require a unique treatment that may include, but not limited to, targeted pruning cuts, removal of nuisance fruit/parasitic plants, and/or rejuvenation/internodal pruning.

At the time of inventory, no trees were recommended for specialized pruning. However, we recommend close monitoring of trees for changes in condition, especially after weather events not considered normal for the area.

Structural Support Systems

Structural support systems can reduce risk of tree or tree part(s) failure by limiting movement of stems or branches in certain situations. Examples include co-dominant stems or overextended branches with heavy foliage loads.

Cabling

Cabling is the process of connecting two or more upright stems to one another to add stability and reduce the *likelihood of failure*. In some instances, a lateral branch may be secured to the central leader using a cabling system to support the weight of the branch.

Bracing

Bracing is the process of securing the union of two co-dominant stems using high strength steel rods to alleviate stresses at the union and reduce the *likelihood of failure*. Bracing may also be used to reinforce trees that have a partial failure and are likely to benefit from bracing.

Guying

Guying is the process of anchoring a tree's stem to the ground or another immovable object to reduce the likelihood of root failure. Guying can be temporary or permanent and is most often used for establishing a tree in the landscape.

Propping

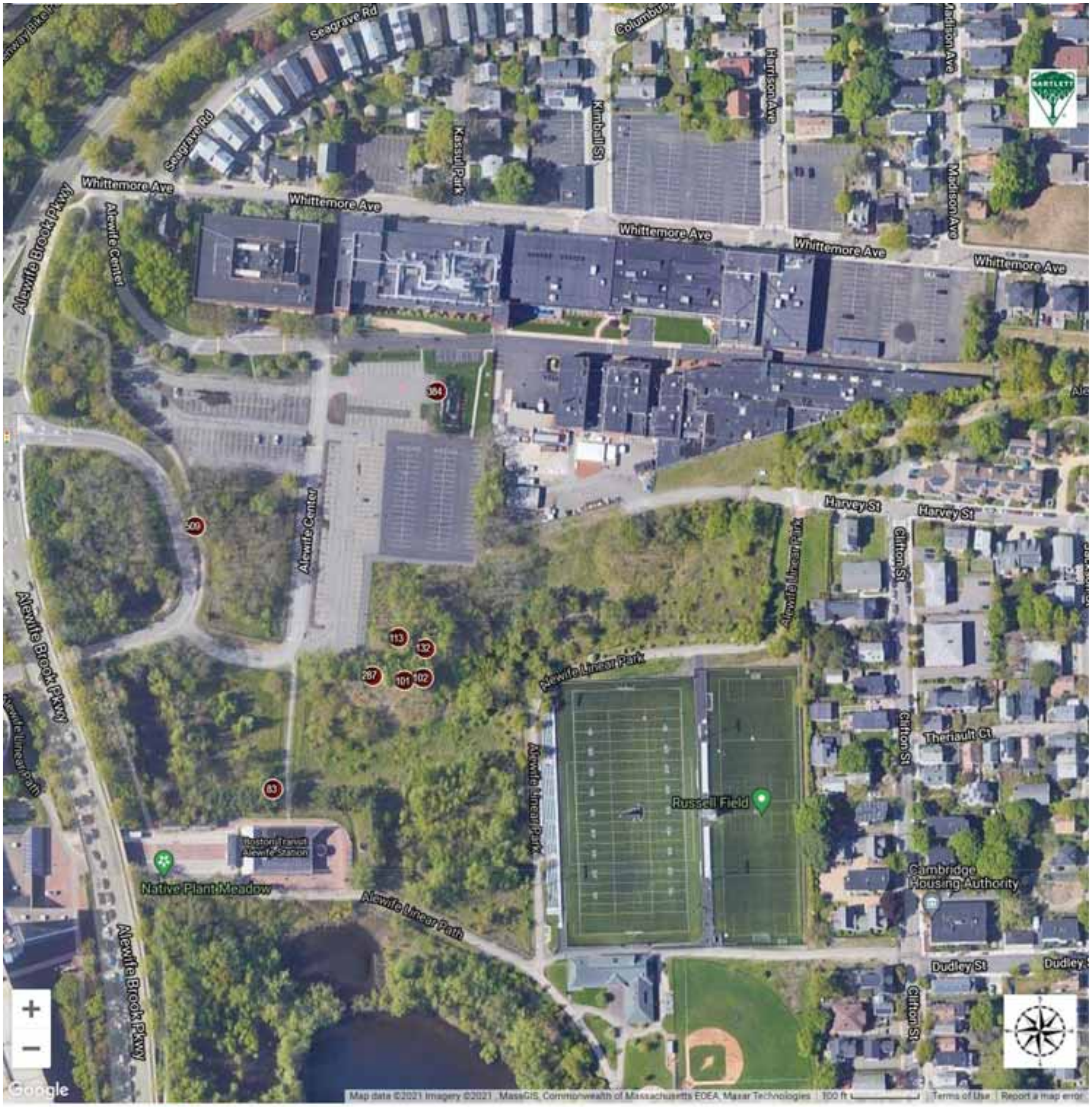
Propping is the process of using rigid structures that are built on or into the ground to help support the trunk or branch(s) that are oriented near the ground in a horizontal position to reduce the *likelihood of failure* from the weight or defect of the tree part being supported.

The following table lists all inventoried trees with structural support system recommendations:

INVENTORIED TREES WITH STRUCTURAL SUPPORT SYSTEM RECOMMENDATIONS (8 Trees)

Tree ID	Common Name	DBH	*Overall Tree Risk Rating*	Tree & Shrub Work Phase	Structural Support
83	Elm-Slippery	13,11	Low	1	• Cable: New 1
101	Poplar-Eastern	20,17,13	Low	1	• Cable: New 1
102	Poplar-Eastern	14,13	Low	1	• Cable: New 1
113	Poplar-Eastern	12,10	Low	1	• Cable: New 1
132	Poplar-Eastern	11,9	Low	1	• Cable: New 1
287	Poplar-Eastern	13,12	Low	1	• Cable: New 1
384	Pine-Austrian	16	Low	1	• Cable: New 1
509	Locust-Black	23	Low	1	• Cable: New 2

INVENTORIED TREES WITH STRUCTURAL SUPPORT SYSTEM RECOMMENDATIONS



Structural Support: ● Cable

Lightning Protection Systems

Lightning strikes kill many people each year and can cause significant damage to objects on the property. Lightning protection systems are designed to provide a preferred path for lightning to the ground in a manner that minimizes tree damage; adjacent tree damage; and also to buildings, property, animals, and people near the tree. Tree species that are naturally more susceptible to lightning strikes, valuable to the landscape, and trees that are within 10 feet of, taller than, or have limbs that are extending over a structure are recommended for lightning protection systems due to the possibility of damage, "sideflashes", and step voltage.

At the time of inventory, no trees were recommended for lightning protection systems. However, as trees continue to grow and site changes occur, we recommend continual consultation with your local Bartlett Arborist Representative to determine if lightning protection systems are warranted in the future.

Tree Removal

In some cases, the inspector may determine need for removal while assessing the tree. Trees may be recommended for removal during the inventory for several reasons:

- The tree is dead;
- The tree is in poor condition and thought to be beyond rehabilitation;
- The tree is over-mature and will continue to decline in condition;
- The tree has significant structural weaknesses that cannot be addressed;
- The tree is already or will interfere with infrastructure (overhead lines for example);
- The location value for the tree is poor or unacceptable (for example, large maturing tree growing directly under overhead lines); and/or,
- The tree species has been declared an invasive for the given area or region.

The trees listed in the table below are recommended for removal:

INVENTORIED TREES RECOMMENDED FOR REMOVAL (36 Trees)

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Tree & Shrub Work Phase	Defect(s) or Observation(s)
6	Ash-Green	11	Poor	Low	ASAP	• Co-dominant stems • Dead branches >2
20	Honeylocust-Thornless Common	15	Poor	Low	ASAP	• Co-dominant stems • Dead branches >2 • Dead/dying stem • Uneven crown
31	Mulberry-Red	7	Poor	Low	1	• Buried root collar • Co-dominant stems • Growing against object • Poor branch structure • Uneven crown
33	Falsecypress-Sawara Cypress	18	Poor	Low	1	• Dead branches >2 • Dieback (severe)

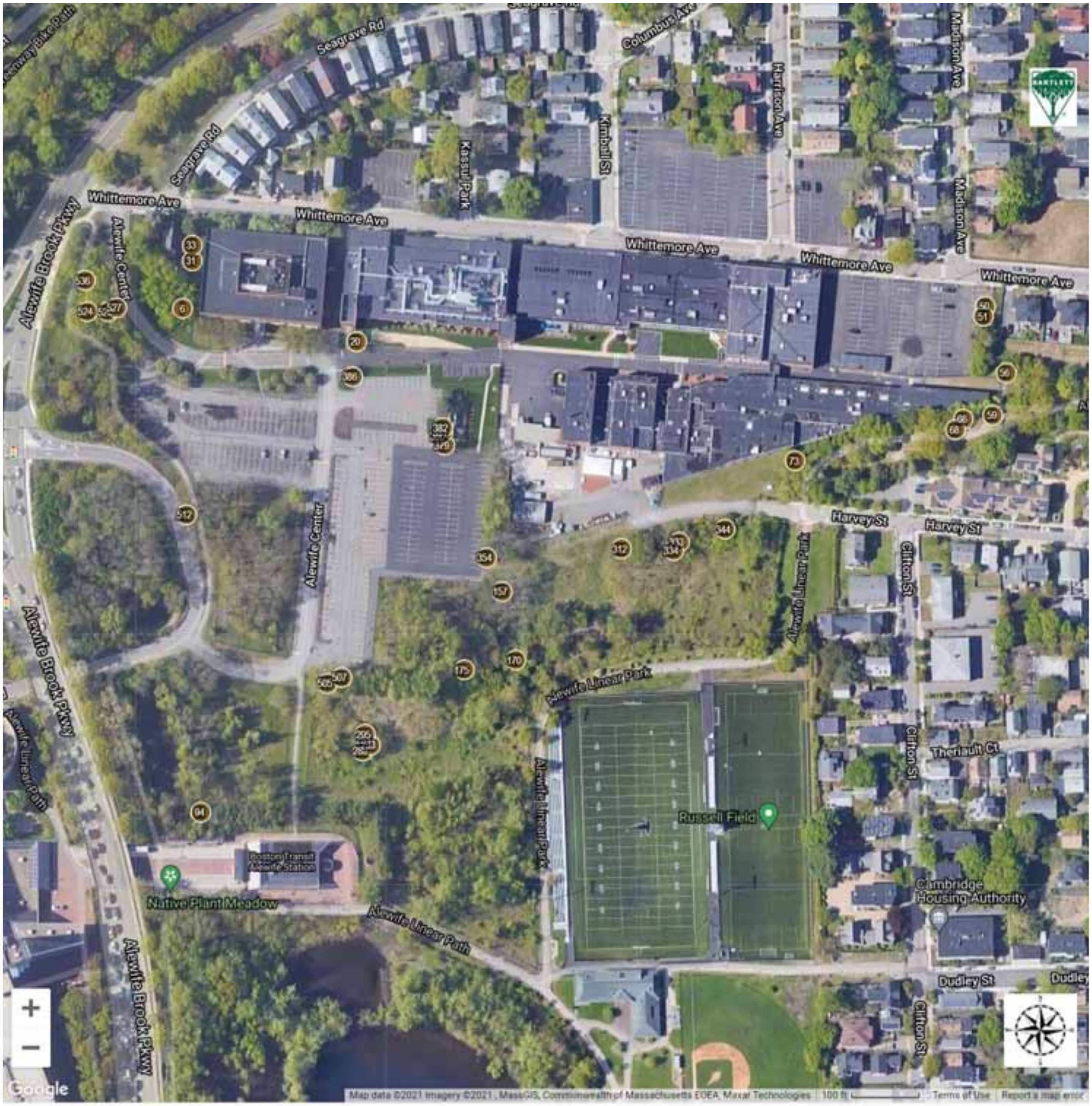
Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Tree & Shrub Work Phase	Defect(s) or Observation(s)
51	Tree of Heaven	12	Good	Low	1	• Co-dominant stems • Included bark • Poor branch structure
66	Maple-Norway	9	Poor	Low	1	• Buried root collar • Dead branches >2 • Dieback (severe)
68	Maple-Norway	10	Poor	Low	1	• Cavity-stem • Low vigor
94	Pine-Eastern White	14	Dead	Low	1	...
333	Tree of Heaven	31	Poor	Low	1	• Co-dominant stems • Crack-stem • Dead branches >2 • Decay-stem
334	Tree of Heaven	15	Poor	Low	1	• Co-dominant stems • Dead branches >2 • Decay-stem • Included bark • Poor branch structure
379	Pine-Austrian	15	Dead	Low	1	...
380	Pine-Austrian	14	Poor	Low	1	• Buried root collar • Dead branches >2
381	Pine-Austrian	13	Poor	Low	1	• Dead branches >2 • Dieback (moderate)
382	Pine-Austrian	12	Dead	Low	1	...
386	Pine-Eastern White	11	Poor	Low	1	• Buried root collar • Dead branches >2 • Dieback (severe)
505	Poplar-Eastern	15	Poor	Low	1	• Co-dominant stems • Dead branches >2 • Dieback (moderate) • Poor branch structure

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Tree & Shrub Work Phase	Defect(s) or Observation(s)
507	Locust-Black	6	Poor	Low	1	• Co-dominant stems • Dead branches >2 • Included bark • Low vigor • Poor branch structure • Uneven crown
512	Locust-Black	11	Poor	Low	1	• Co-dominant stems • Decay-stem • Included bark • Poor branch structure • Uneven crown
527	Cherry-Black	17	Poor	Low	1	• Buried root collar • Co-dominant stems • Dead branches >2 • Dieback (severe) • Poor branch structure
56	Maple-Norway	7	Poor	Low	2	• Uneven crown • Wound-root flare • Wound-stem
73	Oak-Pin	12	Poor	Low	2	• Co-dominant stems • Growing against object • Included bark • Poor branch structure
344	Crabapple	15	Poor	Low	2	• Co-dominant stems • Dead branches >2 • Included bark • Poor branch structure

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Tree & Shrub Work Phase	Defect(s) or Observation(s)
524	Cherry-Black	13	Poor	Low	2	• Co-dominant stems • Dead branches >2 • Dieback (severe) • Poor branch structure
50	Tree of Heaven	6	Good	Low	3	• Wound-stem
59	Maple-Norway	12	Poor	Low	3	• Cavity-stem
157	Locust-Black	18	Poor	Low	3	• Co-dominant stems • Dead branches >2 • Included bark • Poor branch structure • Uneven crown
170	Birch-Paper	11	Poor	Low	3	• Co-dominant stems • Dead branches >2 • Poor branch structure
175	Locust-Black	8	Poor	Low	3	• Storm damage
289	Locust-Black	10	Poor	Low	3	• Co-dominant stems • Crack-stem
293	Mulberry-Red	6	Poor	Low	3	• Cavity-branch • Crack-stem • Included bark • Poor branch structure
294	Tree of Heaven	7	Poor	Low	3	• Dead branches >2 • Wound-stem
295	Tree of Heaven	6	Poor	Low	3	• Dead branches >2 • Uneven crown
312	Locust-Black	21	Poor	Low	3	• Co-dominant stems • Crack-stem • Dead branches >2 • Included bark • Poor branch structure

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Tree & Shrub Work Phase	Defect(s) or Observation(s)
354	Locust-Black	10	Poor	Low	3	• Buried root collar • Cavity-stem • Co-dominant stems • Dead branches >2 • Included bark • Poor branch structure
526	Cherry-Black	10	Dead	Low	3	• Dead branches >2 • Decay-stem
536	Cherry-Black	6	Fair	Low	3	• Dead branches <=2 • Lean • Suppressed • Uneven crown

INVENTORIED TREES RECOMMENDED FOR REMOVAL



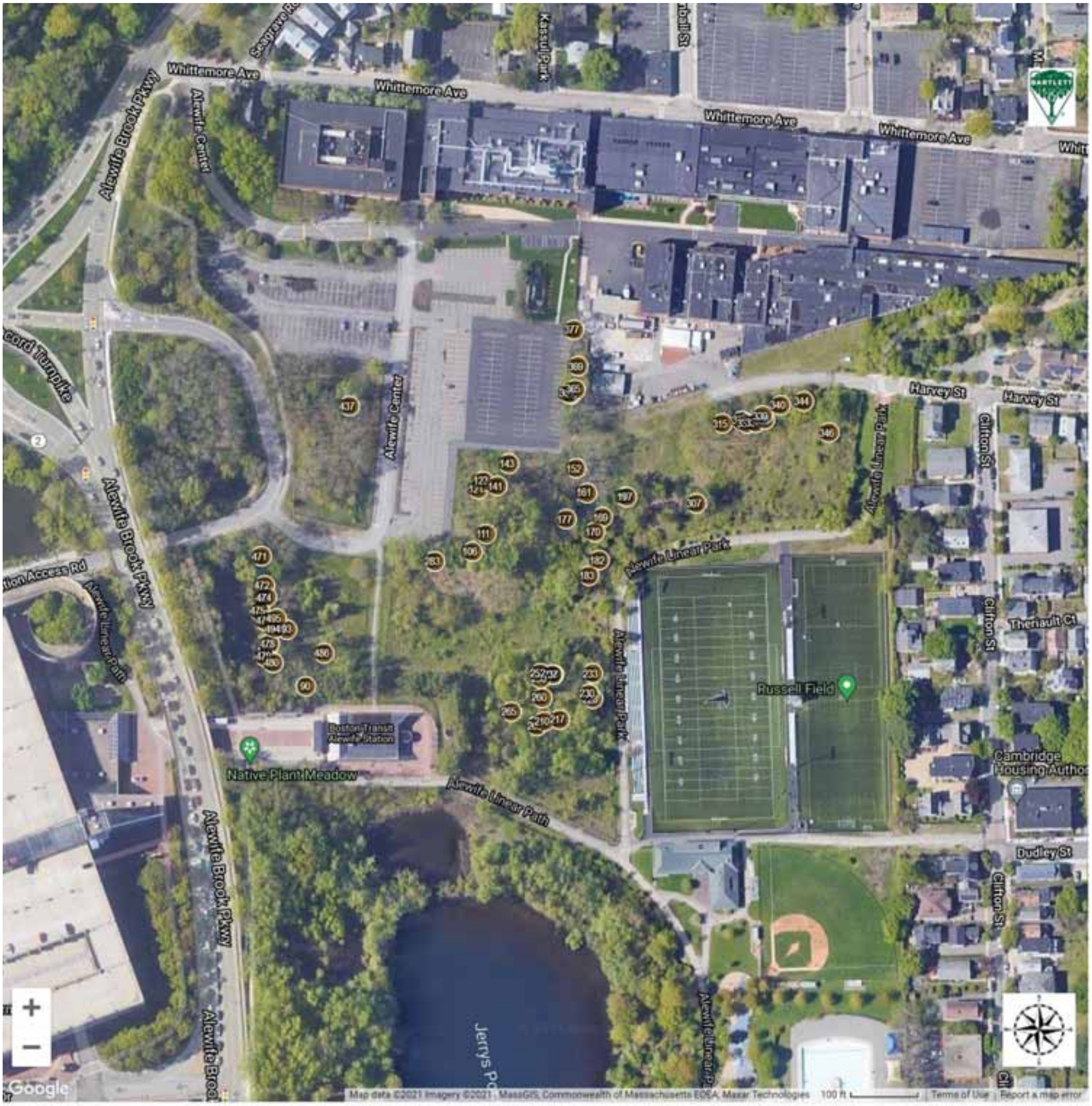
Vine Removal

The following trees were recommended for removal of vines. Vines and suckers can cover the trunk of a tree and hide defects that may be present.

INVENTORIED TREES RECOMMENDED FOR VINE REMOVAL (59 Trees)

Tree ID	Common Name	DBH
90	Pine-Eastern White	17
106	Poplar-Eastern	9
111	Poplar-Eastern	8
121	Poplar-Eastern	14
123	Poplar-Eastern	10
141	Poplar-Eastern	12
143	Mulberry-Red	6,4
152	Locust-Black	6
161	Locust-Black	6
169	Locust-Black	7
170	Birch-Paper	11,6,3
177	Tree of Heaven	13
182	Birch-Gray	8,5,5
183	Oak-Pin	6
195	Poplar-Eastern	13
197	Poplar-Eastern	9
205	Poplar-Eastern	9
210	Poplar-Eastern	6
217	Poplar-Eastern	11
228	Cherry-Flowering	8
230	Poplar-Eastern	10
233	Poplar-Eastern	10
236	Poplar-Eastern	10
237	Poplar-Eastern	12
250	Poplar-Eastern	8
252	Poplar-Eastern	8
260	Poplar-Eastern	9
265	Poplar-Eastern	6
283	Poplar-Eastern	12
307	Poplar-Eastern	22,18,18
315	Locust-Black	15
330	Tree of Heaven	11
331	Tree of Heaven	9
336	Tree of Heaven	7
338	Tree of Heaven	8
339	Cherry-Black	8
340	Tree of Heaven	6
344	Crabapple	15,13
346	Ash-White	12
363	Poplar-Eastern	10
364	Poplar-Eastern	15,13,11
365	Poplar-Eastern	17,16,13
369	Poplar-Eastern	10,7
377	Locust-Black	16
437	Poplar-Eastern	20,18,14,8,8
471	Locust-Black	21
472	Locust-Black	7
473	Locust-Black	7
474	Locust-Black	8
475	Locust-Black	12
476	Poplar-Eastern	18,18
477	Locust-Black	9
478	Locust-Black	7
479	Poplar-Eastern	23
480	Locust-Black	8
486	Locust-Black	7
493	Poplar-Eastern	6
494	Poplar-Eastern	9
495	Poplar-Eastern	8

INVENTORIED TREES RECOMMENDED FOR VINE REMOVAL



ENTIRE INVENTORY

ENTIRE INVENTORY (539 Trees)

Tree ID	Common Name	Genus	Species	DBH	Height Class	Age Class	Condition Class	Tree & Shrub Work Phase	Tree Asset Value
1	Cherry-Black	*Prunus*	*serotina*	20	Large	Mature	Fair	2	$3,956.40
2	Ash-Green	*Fraxinus*	*pennsylvanica*	19	Large	Mature	Fair	1	$5,951.09
3	Ash-Green	*Fraxinus*	*pennsylvanica*	16	Large	Semi-mature	Good	1	$5,908.22
4	Ash-Green	*Fraxinus*	*pennsylvanica*	12	Large	Semi-mature	Good	1	$3,323.38
5	Ash-Green	*Fraxinus*	*pennsylvanica*	14	Large	Semi-mature	Good	2	$4,523.48
6	Ash-Green	*Fraxinus*	*pennsylvanica*	11	Medium	Semi-mature	Poor	ASAP	$1,196.81
7	Ash-Green	*Fraxinus*	*pennsylvanica*	12	Medium	Semi-mature	Good	...	$3,323.38
8	Ash-Green	*Fraxinus*	*pennsylvanica*	14	Medium	Semi-mature	Good	2	$4,523.48
9	Ash-Green	*Fraxinus*	*pennsylvanica*	13	Medium	Semi-mature	Good	1	$3,900.35
10	Ash-Green	*Fraxinus*	*pennsylvanica*	14	Medium	Semi-mature	Good	2	$4,523.48
11	Ash-Green	*Fraxinus*	*pennsylvanica*	12	Medium	Semi-mature	Fair	2	$2,373.84
12	Ash-Green	*Fraxinus*	*pennsylvanica*	12	Medium	Semi-mature	Good	2	$3,323.38
13	Ash-Green	*Fraxinus*	*pennsylvanica*	12	Medium	Semi-mature	Fair	2	$2,373.84

Tree ID	Common Name	Genus	Species	DBH	Height Class	Age Class	Condition Class	Tree & Shrub Work Phase	Tree Asset Value
14	Honeylocust-Thornless Common	*Gleditsia*	*triacanthos* var. inermis	17	Large	Mature	Good	2	$6,225.18
15	Honeylocust-Thornless Common	*Gleditsia*	*triacanthos* var. inermis	17	Large	Mature	Good	3	$6,225.18
16	Honeylocust-Thornless Common	*Gleditsia*	*triacanthos* var. inermis	18	Large	Mature	Good	...	$6,979.09
17	Honeylocust-Thornless Common	*Gleditsia*	*triacanthos* var. inermis	17	Large	Mature	Good	3	$6,225.18
18	Honeylocust-Thornless Common	*Gleditsia*	*triacanthos* var. inermis	13	Large	Semi-mature	Good	3	$3,640.33
19	Honeylocust-Thornless Common	*Gleditsia*	*triacanthos* var. inermis	17	Medium	Mature	Good	3	$6,225.18
20	Honeylocust-Thornless Common	*Gleditsia*	*triacanthos* var. inermis	15	Medium	Semi-mature	Poor	ASAP	$2,077.11
21	Crabapple	*Malus*	sp.	11	Medium	Mature	Good	2	$2,606.39
22	Crabapple	*Malus*	sp.	13	Medium	Mature	Good	2	$3,640.33
23	Crabapple	*Malus*	sp.	13	Medium	Mature	Poor	2	$1,560.14
24	Crabapple	*Malus*	sp.	13	Medium	Mature	Good	2	$3,640.33
25	Crabapple	*Malus*	sp.	13	Medium	Mature	Good	2	$3,640.33
26	Crabapple	*Malus*	sp.	9	Medium	Mature	Good	3	$1,744.77
27	Crabapple	*Malus*	sp.	11	Medium	Mature	Good	2	$2,606.39
28	Crabapple	*Malus*	sp.	14	Medium	Mature	Fair	2	$3,015.66
29	Crabapple	*Malus*	sp.	11	Medium	Mature	Fair	2	$1,861.71

Tree ID	Common Name	Genus	Species	DBH	Height Class	Age Class	Condition Class	Tree & Shrub Work Phase	Tree Asset Value
30	Crabapple	*Malus*	sp.	14	Medium	Mature	Good	2	$4,221.92
31	Mulberry-Red	*Morus*	*rubra*	7,5	Medium	Young	Poor	1	$341.57
32	Douglas Fir	*Pseudotsuga*	*menziesii*	19	Large	Young	Fair	...	$6,744.56
33	Falsecypress-Sawara Cypress	*Chamaecyparis*	*pisifera*	18	Large	Mature	Poor	1	$2,777.39
34	Cherry-Flowering	*Prunus*	*serrulata*	2	Large	Young	Good	...	$92.32
35	Cherry-Flowering	*Prunus*	*serrulata*	6	Medium	Semi-mature	Fair	...	$593.46
36	Cherry-Flowering	*Prunus*	*serrulata*	6	Medium	Semi-mature	Good	...	$830.84
37	Cherry-Flowering	*Prunus*	*serrulata*	2	Medium	New planting	Good	...	$92.32
38	Cherry-Flowering	*Prunus*	*serrulata*	6	Medium	Semi-mature	Good	...	$830.84
39	Maple-Hedge	*Acer*	*campestre*	6	Medium	Semi-mature	Good	...	$830.84
40	Maple-Hedge	*Acer*	*campestre*	4	Medium	Young	Fair	...	$263.76
41	Maple-Hedge	*Acer*	*campestre*	4	Medium	Young	Good	...	$369.26
42	Pear-Callery	*Pyrus*	*calleryana*	4	Medium	Young	Fair	...	$158.26
43	Cherry-Flowering	*Prunus*	*serrulata*	5	Medium	Young	Fair	...	$412.12
44	Cherry-Flowering	*Prunus*	*serrulata*	2	Medium	Young	Poor	...	$39.56
45	Pear-Callery	*Pyrus*	*calleryana*	4	Medium	Young	Fair	...	$158.26
46	Cherry-Flowering	*Prunus*	*serrulata*	7	Medium	Semi-mature	Fair	...	$807.76
47	Cherry-Flowering	*Prunus*	*serrulata*	2	Medium	New planting	Fair	...	$65.94
48	Cherry-Flowering	*Prunus*	*serrulata*	5	Medium	Young	Fair	...	$412.12
49	Cherry-Flowering	*Prunus*	*serrulata*	5	Medium	Young	Good	...	$576.98
50	Tree of Heaven	*Ailanthus*	*altissima*	6	Medium	Young	Good	3	$166.17

Tree ID	Common Name	Genus	Species	DBH	Height Class	Age Class	Condition Class	Tree & Shrub Work Phase	Tree Asset Value
51	Tree of Heaven	*Ailanthus*	*altissima*	12,10	Medium	Semi-mature	Good	1	$1,126.26
52	Chokecherry-Common	*Prunus*	*virginiana*	10,8	Medium	Mature	Fair	...	$2,523.30
53	Maple-Norway	*Acer*	*platanoides*	12,12	Medium	Semi-mature	Good	...	$5,760.52
54	Maple-Norway	*Acer*	*platanoides*	15	Medium	Semi-mature	Good	...	$4,500.40
55	Maple-Norway	*Acer*	*platanoides*	16	Medium	Mature	Fair	...	$3,657.47
56	Maple-Norway	*Acer*	*platanoides*	7	Medium	Young	Poor	2	$420.04
57	Poplar-Eastern	*Populus*	*deltoides*	16,9	Large	Mature	Poor	...	$1,555.52
58	Maple-Norway	*Acer*	*platanoides*	13	Medium	Semi-mature	Fair	1	$2,414.50
59	Maple-Norway	*Acer*	*platanoides*	12	Medium	Semi-mature	Poor	3	$1,234.40
60	Maple-Norway	*Acer*	*platanoides*	12	Medium	Semi-mature	Good	...	$2,880.26
61	Maple-Norway	*Acer*	*platanoides*	8	Medium	Semi-mature	Fair	...	$914.37
62	Maple-Norway	*Acer*	*platanoides*	10	Medium	Semi-mature	Fair	2	$1,428.70
63	Maple-Norway	*Acer*	*platanoides*	10	Medium	Semi-mature	Fair	...	$1,428.70
64	Maple-Norway	*Acer*	*platanoides*	11	Medium	Semi-mature	Good	...	$2,420.22
65	Maple-Norway	*Acer*	*platanoides*	8	Medium	Young	Fair	...	$914.37
66	Maple-Norway	*Acer*	*platanoides*	9	Medium	Semi-mature	Poor	1	$694.35
67	Maple-Norway	*Acer*	*platanoides*	9	Medium	Semi-mature	Fair	...	$1,157.25

Tree ID	Common Name	Genus	Species	DBH	Height Class	Age Class	Condition Class	Tree & Shrub Work Phase	Tree Asset Value
68	Maple-Norway	*Acer*	*platanoides*	10	Medium	Semi-mature	Poor	1	$857.22
69	Fir-White	*Abies*	*concolor*	7	Medium	Semi-mature	Fair	...	$915.47
70	Pine-Eastern White	*Pinus*	*strobus*	18	Large	Mature	Good	...	$8,474.61
71	Pine-Eastern White	*Pinus*	*strobus*	19	Large	Mature	Good	...	$9,442.39
72	Oak-Pin	*Quercus*	*palustris*	5	Large	Young	Poor	...	$280.25
73	Oak-Pin	*Quercus*	*palustris*	12	Large	Mature	Poor	2	$1,614.21
74	Pine-Eastern White	*Pinus*	*strobus*	12	Medium	Mature	Good	...	$3,766.49
75	Pine-Eastern White	*Pinus*	*strobus*	17	Medium	Mature	Good	...	$7,559.14
76	Pine-Eastern White	*Pinus*	*strobus*	10	Medium	Semi-mature	Fair	...	$1,868.30
77	Pine-Eastern White	*Pinus*	*strobus*	17	Medium	Mature	Good	...	$7,559.14
78	Pine-Eastern White	*Pinus*	*strobus*	16	Medium	Mature	Good	...	$6,695.99
79	Pine-Eastern White	*Pinus*	*strobus*	15	Medium	Semi-mature	Fair	...	$4,203.67
80	Pine-Eastern White	*Pinus*	*strobus*	16	Medium	Mature	Good	...	$6,695.99
81	Pine-Eastern White	*Pinus*	*strobus*	21	Medium	Mature	Good	...	$11,534.88
82	Tree of Heaven	*Ailanthus*	*altissima*	22	Medium	Mature	Fair	...	$1,595.75
83	Elm-Slippery	*Ulmus*	*rubra*	13,11	Medium	Semi-mature	Fair	1	$3,505.81

Tree ID	Common Name	Genus	Species	DBH	Height Class	Age Class	Condition Class	Tree & Shrub Work Phase	Tree Asset Value
84	Pine-Eastern White	*Pinus*	*strobus*	20	Medium	Mature	Good	...	$10,462.48
85	Pine-Eastern White	*Pinus*	*strobus*	13	Medium	Semi-mature	Fair	...	$3,157.43
86	Pine-Eastern White	*Pinus*	*strobus*	18	Medium	Mature	Good	...	$8,474.61
87	Pine-Eastern White	*Pinus*	*strobus*	13	Medium	Semi-mature	Good	...	$4,420.40
88	Pine-Eastern White	*Pinus*	*strobus*	16	Medium	Semi-mature	Good	...	$6,695.99
89	Pine-Eastern White	*Pinus*	*strobus*	15	Medium	Semi-mature	Good	...	$5,885.15
90	Pine-Eastern White	*Pinus*	*strobus*	17	Medium	Semi-mature	Good	...	$7,559.14
91	Pine-Eastern White	*Pinus*	*strobus*	14	Medium	Semi-mature	Good	...	$5,126.62
92	Pine-Eastern White	*Pinus*	*strobus*	14	Medium	Semi-mature	Good	...	$5,126.62
93	Pine-Eastern White	*Pinus*	*strobus*	12	Medium	Semi-mature	Good	...	$3,766.49
94	Pine-Eastern White	*Pinus*	*strobus*	14	Medium	Semi-mature	Dead	1	...
95	Locust-Black	*Robinia*	*pseudoacacia*	8	Medium	Young	Good	...	$1,378.59
96	Locust-Black	*Robinia*	*pseudoacacia*	6	Medium	Young	Good	...	$775.45
97	Locust-Black	*Robinia*	*pseudoacacia*	5	Medium	Young	Good	...	$538.51
98	Locust-Black	*Robinia*	*pseudoacacia*	6	Medium	Young	Fair	...	$553.90
99	Ash-Green	*Fraxinus*	*pennsylvanica*	7	Medium	Young	Good	...	$1,130.87
100	Poplar-Eastern	*Populus*	*deltoides*	11	Medium	Semi-mature	Good	...	$1,303.19
101	Poplar-Eastern	*Populus*	*deltoides*	20,17,13	Large	Mature	Fair	1	$6,600.59

Tree ID	Common Name	Genus	Species	DBH	Height Class	Age Class	Condition Class	Tree & Shrub Work Phase	Tree Asset Value
102	Poplar-Eastern	*Populus*	*deltoides*	14,13	Large	Mature	Fair	1	$2,807.95
103	Poplar-Eastern	*Populus*	*deltoides*	15	Large	Semi-mature	Good	...	$2,423.29
104	Poplar-Eastern	*Populus*	*deltoides*	7,7	Medium	Young	Good	...	$1,055.48
105	Poplar-Eastern	*Populus*	*deltoides*	10,7	Medium	Semi-mature	Fair	...	$1,146.26
106	Poplar-Eastern	*Populus*	*deltoides*	9	Medium	Young	Fair	...	$623.13
107	Poplar-Eastern	*Populus*	*deltoides*	12	Medium	Semi-mature	Good	...	$1,550.91
108	Poplar-Eastern	*Populus*	*deltoides*	7	Medium	Young	Good	...	$527.74
109	Poplar-Eastern	*Populus*	*deltoides*	10	Medium	Young	Fair	...	$769.30
110	Poplar-Eastern	*Populus*	*deltoides*	8	Medium	Young	Good	...	$689.29
111	Poplar-Eastern	*Populus*	*deltoides*	8	Medium	Young	Good	...	$689.29
112	Poplar-Eastern	*Populus*	*deltoides*	9	Medium	Young	Fair	...	$623.13
113	Poplar-Eastern	*Populus*	*deltoides*	12,10	Large	Semi-mature	Fair	1	$1,877.09
114	Poplar-Eastern	*Populus*	*deltoides*	9,7	Medium	Young	Fair	...	$1,000.09
115	Poplar-Eastern	*Populus*	*deltoides*	9	Medium	Young	Good	...	$872.39
116	Poplar-Eastern	*Populus*	*deltoides*	8,6,6	Medium	Young	Fair	...	$1,046.25
117	Poplar-Eastern	*Populus*	*deltoides*	12	Large	Semi-mature	Good	...	$1,550.91
118	Poplar-Eastern	*Populus*	*deltoides*	8,6	Medium	Young	Good	...	$1,077.02
119	Poplar-Eastern	*Populus*	*deltoides*	10	Large	Semi-mature	Good	...	$1,077.02
120	Poplar-Eastern	*Populus*	*deltoides*	12	Large	Semi-mature	Fair	...	$1,107.79
121	Poplar-Eastern	*Populus*	*deltoides*	14	Large	Semi-mature	Fair	...	$1,507.83
122	Poplar-Eastern	*Populus*	*deltoides*	9	Medium	Young	Good	...	$872.39

Tree ID	Common Name	Genus	Species	DBH	Height Class	Age Class	Condition Class	Tree & Shrub Work Phase	Tree Asset Value
123	Poplar-Eastern	*Populus*	*deltoides*	10	Medium	Semi-mature	Fair	...	$769.30
124	Locust-Black	*Robinia*	*pseudoacacia*	6	Medium	Young	Fair	...	$553.90
125	Locust-Black	*Robinia*	*pseudoacacia*	6	Medium	Young	Good	...	$775.45
126	Locust-Black	*Robinia*	*pseudoacacia*	7	Medium	Young	Good	...	$1,055.48
127	Locust-Black	*Robinia*	*pseudoacacia*	7	Medium	Young	Fair	...	$753.91
128	Locust-Black	*Robinia*	*pseudoacacia*	6	Medium	Young	Fair	...	$553.90
129	Locust-Black	*Robinia*	*pseudoacacia*	6	Medium	Young	Good	...	$775.45
130	Poplar-Eastern	*Populus*	*deltoides*	16	Large	Mature	Good	...	$2,757.17
131	Poplar-Eastern	*Populus*	*deltoides*	7	Large	Young	Good	...	$527.74
132	Poplar-Eastern	*Populus*	*deltoides*	11,9	Large	Semi-mature	Good	1	$2,175.58
133	Poplar-Eastern	*Populus*	*deltoides*	18,12	Large	Mature	Fair	...	$3,600.32
134	Poplar-Eastern	*Populus*	*deltoides*	7,7,5	Large	Young	Fair	...	$946.24
135	Poplar-Eastern	*Populus*	*deltoides*	12	Large	Semi-mature	Good	...	$1,550.91
136	Poplar-Eastern	*Populus*	*deltoides*	20	Large	Mature	Good	...	$4,308.08
137	Poplar-Eastern	*Populus*	*deltoides*	11	Large	Semi-mature	Good	...	$1,303.19
138	Poplar-Eastern	*Populus*	*deltoides*	13	Large	Semi-mature	Good	...	$1,820.16
139	Poplar-Eastern	*Populus*	*deltoides*	11	Large	Semi-mature	Good	...	$1,303.19
140	Poplar-Eastern	*Populus*	*deltoides*	18	Large	Mature	Good	...	$3,489.54
141	Poplar-Eastern	*Populus*	*deltoides*	12	Large	Semi-mature	Fair	...	$1,107.79
142	Locust-Black	*Robinia*	*pseudoacacia*	11	Medium	Semi-mature	Fair	...	$1,861.71
143	Mulberry-Red	*Morus*	*rubra*	6,4	Medium	Young	Poor	...	$240.02
144	Locust-Black	*Robinia*	*pseudoacacia*	6	Medium	Young	Fair	...	$553.90

Tree ID	Common Name	Genus	Species	DBH	Height Class	Age Class	Condition Class	Tree & Shrub Work Phase	Tree Asset Value
145	Tree of Heaven	*Ailanthus*	*altissima*	8	Medium	Young	Good	...	$295.41
146	Tree of Heaven	*Ailanthus*	*altissima*	7	Medium	Young	Good	...	$226.17
147	Tree of Heaven	*Ailanthus*	*altissima*	7	Medium	Young	Good	...	$226.17
148	Tree of Heaven	*Ailanthus*	*altissima*	6	Medium	Young	Good	...	$166.17
149	Tree of Heaven	*Ailanthus*	*altissima*	13	Medium	Semi-mature	Fair	...	$557.19
150	Locust-Black	*Robinia*	*pseudoacacia*	6	Medium	Young	Good	...	$775.45
151	Locust-Black	*Robinia*	*pseudoacacia*	7	Medium	Young	Fair	...	$753.91
152	Locust-Black	*Robinia*	*pseudoacacia*	6	Medium	Young	Fair	...	$553.90
153	Locust-Black	*Robinia*	*pseudoacacia*	7,4	Medium	Young	Fair	...	$1,000.09
154	Locust-Black	*Robinia*	*pseudoacacia*	7,2	Medium	Young	Fair	...	$815.46
155	Locust-Black	*Robinia*	*pseudoacacia*	6	Medium	Young	Good	...	$775.45
156	Locust-Black	*Robinia*	*pseudoacacia*	7	Medium	Young	Good	...	$1,055.48
157	Locust-Black	*Robinia*	*pseudoacacia*	18	Medium	Mature	Poor	3	$2,991.04
158	Locust-Black	*Robinia*	*pseudoacacia*	7,7	Medium	Young	Good	...	$2,110.96
159	Locust-Black	*Robinia*	*pseudoacacia*	6,3	Medium	Young	Fair	...	$692.37
160	Locust-Black	*Robinia*	*pseudoacacia*	8	Medium	Young	Good	...	$1,378.59
161	Locust-Black	*Robinia*	*pseudoacacia*	6	Medium	Young	Fair	...	$553.90
162	Locust-Black	*Robinia*	*pseudoacacia*	6,6,5	Medium	Young	Fair	...	$1,492.44
163	Locust-Black	*Robinia*	*pseudoacacia*	9,8	Medium	Young	Fair	...	$2,230.97
164	Locust-Black	*Robinia*	*pseudoacacia*	8	Medium	Young	Good	...	$1,378.59
165	Locust-Black	*Robinia*	*pseudoacacia*	10	Medium	Young	Good	...	$2,154.04
166	Locust-Black	*Robinia*	*pseudoacacia*	9	Medium	Young	Good	...	$1,744.77
167	Locust-Black	*Robinia*	*pseudoacacia*	14,8	Medium	Mature	Good	...	$5,600.50
168	Locust-Black	*Robinia*	*pseudoacacia*	8,8	Medium	Young	Good	...	$2,757.17
169	Locust-Black	*Robinia*	*pseudoacacia*	7	Medium	Young	Good	...	$1,055.48
170	Birch-Paper	*Betula*	*papyrifera*	11,6,3	Medium	Semi-mature	Poor	3	$1,641.91
171	Crabapple	*Malus*	sp.	6,6,4	Medium	Semi-mature	Fair	...	$1,353.97

Tree ID	Common Name	Genus	Species	DBH	Height Class	Age Class	Condition Class	Tree & Shrub Work Phase	Tree Asset Value
172	Locust-Black	*Robinia*	*pseudoacacia*	7	Medium	Young	Good	...	$1,055.48
173	Tree of Heaven	*Ailanthus*	*altissima*	6	Medium	Young	Good	...	$166.17
174	Locust-Black	*Robinia*	*pseudoacacia*	9	Medium	Semi-mature	Good	...	$1,744.77
175	Locust-Black	*Robinia*	*pseudoacacia*	8	Medium	Semi-mature	Poor	3	$590.82
176	Juniper-Eastern Redcedar	*Juniperus*	*virginiana*	6,3,3	Medium	Semi-mature	Good	...	$1,080.10
177	Tree of Heaven	*Ailanthus*	*altissima*	13	Medium	Semi-mature	Poor	...	$334.32
178	Mulberry-Red	*Morus*	*rubra*	6,4	Medium	Semi-mature	Poor	...	$240.02
179	Maple-Boxelder	*Acer*	*negundo*	12	Medium	Semi-mature	Good	...	$1,550.91
180	Tree of Heaven	*Ailanthus*	*altissima*	15,15	Large	Mature	Good	...	$2,077.11
181	Locust-Black	*Robinia*	*pseudoacacia*	6	Medium	Young	Good	...	$775.45
182	Birch-Gray	*Betula*	*populifolia*	8,5,5	Medium	Semi-mature	Poor	...	$526.20
183	Oak-Pin	*Quercus*	*palustris*	6	Medium	Young	Poor	...	$403.55
184	Oak-Pin	*Quercus*	*palustris*	24	Large	Mature	Good	...	$15,065.97
185	Mulberry-Red	*Morus*	*rubra*	6,5,4	Medium	Young	Poor	...	$355.42
186	Ash-Green	*Fraxinus*	*pennsylvanica*	11,9	Medium	Semi-mature	Poor	...	$1,997.98
187	Crabapple	*Malus*	sp.	6,6,5,5,5,4	Medium	Over-mature	Poor	...	$1,504.75
188	Poplar-Eastern	*Populus*	*deltoides*	23	Medium	Mature	Good	...	$5,697.44
189	Ash-Green	*Fraxinus*	*pennsylvanica*	7,7	Medium	Young	Fair	...	$1,615.53
190	Ash-Green	*Fraxinus*	*pennsylvanica*	8	Medium	Young	Fair	...	$1,055.04
191	Locust-Black	*Robinia*	*pseudoacacia*	7	Medium	Young	Good	...	$1,055.48
192	Locust-Black	*Robinia*	*pseudoacacia*	11	Medium	Young	Good	...	$2,606.39

Tree ID	Common Name	Genus	Species	DBH	Height Class	Age Class	Condition Class	Tree & Shrub Work Phase	Tree Asset Value
193	Locust-Black	*Robinia*	*pseudoacacia*	6	Medium	Young	Good	...	$775.45
194	Poplar-Eastern	*Populus*	*deltoides*	19,15	Large	Mature	Good	...	$6,311.34
195	Poplar-Eastern	*Populus*	*deltoides*	13	Large	Semi-mature	Good	...	$1,820.16
196	Poplar-Eastern	*Populus*	*deltoides*	13	Large	Semi-mature	Good	...	$1,820.16
197	Poplar-Eastern	*Populus*	*deltoides*	9	Medium	Young	Poor	...	$373.88
198	Poplar-Eastern	*Populus*	*deltoides*	6	Medium	Young	Fair	...	$276.95
199	Poplar-Eastern	*Populus*	*deltoides*	8	Medium	Young	Good	...	$689.29
200	Locust-Black	*Robinia*	*pseudoacacia*	7	Medium	Young	Good	...	$1,055.48
201	Poplar-Eastern	*Populus*	*deltoides*	12	Medium	Semi-mature	Good	...	$1,550.91
202	Poplar-Eastern	*Populus*	*deltoides*	9	Medium	Semi-mature	Good	...	$872.39
203	Poplar-Eastern	*Populus*	*deltoides*	8	Medium	Semi-mature	Good	...	$689.29
204	Poplar-Eastern	*Populus*	*deltoides*	8	Medium	Semi-mature	Good	...	$689.29
205	Poplar-Eastern	*Populus*	*deltoides*	9	Medium	Young	Fair	...	$623.13
206	Poplar-Eastern	*Populus*	*deltoides*	9	Medium	Semi-mature	Good	...	$872.39
207	Poplar-Eastern	*Populus*	*deltoides*	6	Medium	Young	Good	...	$387.73
208	Poplar-Eastern	*Populus*	*deltoides*	9	Medium	Semi-mature	Good	...	$872.39
209	Poplar-Eastern	*Populus*	*deltoides*	7	Medium	Semi-mature	Good	...	$527.74
210	Poplar-Eastern	*Populus*	*deltoides*	6	Medium	Semi-mature	Poor	...	$166.17
211	Locust-Black	*Robinia*	*pseudoacacia*	8	Medium	Semi-mature	Good	...	$1,378.59

Tree ID	Common Name	Genus	Species	DBH	Height Class	Age Class	Condition Class	Tree & Shrub Work Phase	Tree Asset Value
212	Poplar-Eastern	*Populus*	*deltoides*	6	Medium	Young	Fair	...	$276.95
213	Poplar-Eastern	*Populus*	*deltoides*	6	Medium	Young	Good	...	$387.73
214	Poplar-Eastern	*Populus*	*deltoides*	8	Medium	Young	Good	...	$689.29
215	Poplar-Eastern	*Populus*	*deltoides*	7	Medium	Young	Good	...	$527.74
216	Poplar-Eastern	*Populus*	*deltoides*	7	Medium	Young	Dead	...	...
217	Poplar-Eastern	*Populus*	*deltoides*	11	Medium	Semi-mature	Fair	...	$930.85
218	Poplar-Eastern	*Populus*	*deltoides*	8	Medium	Semi-mature	Good	...	$689.29
219	Poplar-Eastern	*Populus*	*deltoides*	8	Medium	Semi-mature	Good	...	$689.29
220	Poplar-Eastern	*Populus*	*deltoides*	11	Medium	Semi-mature	Good	...	$1,303.19
221	Poplar-Eastern	*Populus*	*deltoides*	11	Medium	Semi-mature	Good	...	$1,303.19
222	Birch-Paper	*Betula*	*papyrifera*	7	Medium	Young	Good	...	$1,130.87
223	Poplar-Eastern	*Populus*	*deltoides*	19	Large	Mature	Good	...	$3,888.04
224	Poplar-Eastern	*Populus*	*deltoides*	8	Large	Young	Fair	...	$492.35
225	Poplar-Eastern	*Populus*	*deltoides*	12	Medium	Semi-mature	Fair	...	$1,107.79
226	Maple-Silver	*Acer*	*saccharinum*	8	Medium	Young	Fair	...	$773.70
227	Poplar-Eastern	*Populus*	*deltoides*	17	Large	Mature	Good	...	$3,112.59
228	Cherry-Flowering	*Prunus*	*serrulata*	8	Medium	Young	Poor	...	$633.02
229	Poplar-Eastern	*Populus*	*deltoides*	8	Medium	Young	Good	...	$689.29
230	Poplar-Eastern	*Populus*	*deltoides*	10	Medium	Semi-mature	Good	...	$1,077.02
231	Poplar-Eastern	*Populus*	*deltoides*	12,12,11	Medium	Semi-mature	Fair	...	$3,146.44
232	Poplar-Eastern	*Populus*	*deltoides*	8	Medium	Semi-mature	Dead	...	...

Tree ID	Common Name	Genus	Species	DBH	Height Class	Age Class	Condition Class	Tree & Shrub Work Phase	Tree Asset Value
233	Poplar-Eastern	*Populus*	*deltoides*	10	Medium	Semi-mature	Fair	...	$769.30
234	Poplar-Eastern	*Populus*	*deltoides*	11	Medium	Semi-mature	Good	...	$1,303.19
235	Poplar-Eastern	*Populus*	*deltoides*	7,5	Medium	Young	Fair	...	$569.28
236	Poplar-Eastern	*Populus*	*deltoides*	10	Medium	Semi-mature	Good	...	$1,077.02
237	Poplar-Eastern	*Populus*	*deltoides*	12	Medium	Semi-mature	Good	...	$1,550.91
238	Poplar-Eastern	*Populus*	*deltoides*	8	Medium	Young	Good	...	$689.29
239	Poplar-Eastern	*Populus*	*deltoides*	21	Large	Mature	Good	...	$4,749.66
240	Poplar-Eastern	*Populus*	*deltoides*	11	Medium	Semi-mature	Good	...	$1,303.19
241	Poplar-Eastern	*Populus*	*deltoides*	10	Medium	Semi-mature	Good	...	$1,077.02
242	Poplar-Eastern	*Populus*	*deltoides*	8,5	Medium	Young	Fair	...	$684.68
243	Poplar-Eastern	*Populus*	*deltoides*	10	Medium	Semi-mature	Good	...	$1,077.02
244	Poplar-Eastern	*Populus*	*deltoides*	10,8,3	Medium	Semi-mature	Fair	...	$1,330.89
245	Poplar-Eastern	*Populus*	*deltoides*	8	Medium	Semi-mature	Fair	...	$492.35
246	Poplar-Eastern	*Populus*	*deltoides*	18	Large	Mature	Good	...	$3,489.54
247	Poplar-Eastern	*Populus*	*deltoides*	8	Medium	Young	Good	...	$689.29
248	Poplar-Eastern	*Populus*	*deltoides*	10,7	Medium	Semi-mature	Fair	...	$1,146.26
249	Poplar-Eastern	*Populus*	*deltoides*	8	Medium	Young	Good	...	$689.29
250	Poplar-Eastern	*Populus*	*deltoides*	8	Medium	Young	Good	...	$689.29
251	Poplar-Eastern	*Populus*	*deltoides*	9	Medium	Semi-mature	Dead	...	...

Tree ID	Common Name	Genus	Species	DBH	Height Class	Age Class	Condition Class	Tree & Shrub Work Phase	Tree Asset Value
252	Poplar-Eastern	*Populus*	*deltoides*	8	Medium	Young	Fair	...	$492.35
253	Poplar-Eastern	*Populus*	*deltoides*	9	Medium	Young	Fair	...	$623.13
254	Poplar-Eastern	*Populus*	*deltoides*	9	Medium	Young	Good	...	$872.39
255	Poplar-Eastern	*Populus*	*deltoides*	6	Medium	Young	Good	...	$387.73
256	Poplar-Eastern	*Populus*	*deltoides*	8	Medium	Young	Fair	...	$492.35
257	Poplar-Eastern	*Populus*	*deltoides*	7	Medium	Young	Good	...	$527.74
258	Poplar-Eastern	*Populus*	*deltoides*	6	Medium	Young	Fair	...	$276.95
259	Poplar-Eastern	*Populus*	*deltoides*	6	Medium	Young	Good	...	$387.73
260	Poplar-Eastern	*Populus*	*deltoides*	9	Medium	Semi-mature	Good	...	$872.39
261	Poplar-Eastern	*Populus*	*deltoides*	6	Medium	Young	Good	...	$387.73
262	Poplar-Eastern	*Populus*	*deltoides*	7	Medium	Young	Good	...	$527.74
263	Poplar-Eastern	*Populus*	*deltoides*	10	Medium	Semi-mature	Good	...	$1,077.02
264	Poplar-Eastern	*Populus*	*deltoides*	6	Medium	Young	Good	...	$387.73
265	Poplar-Eastern	*Populus*	*deltoides*	6	Medium	Young	Good	...	$387.73
266	Poplar-Eastern	*Populus*	*deltoides*	14	Medium	Semi-mature	Fair	...	$1,507.83
267	Poplar-Eastern	*Populus*	*deltoides*	6	Medium	Young	Good	...	$387.73
268	Poplar-Eastern	*Populus*	*deltoides*	10,6	Medium	Semi-mature	Fair	...	$1,046.25
269	Locust-Black	*Robinia*	*pseudoacacia*	6	Medium	Young	Good	...	$775.45
270	Locust-Black	*Robinia*	*pseudoacacia*	6,5	Medium	Young	Good	...	$1,313.96
271	Locust-Black	*Robinia*	*pseudoacacia*	6	Medium	Young	Fair	...	$553.90
272	Locust-Black	*Robinia*	*pseudoacacia*	6,4	Medium	Young	Fair	...	$800.07
273	Tree of Heaven	*Ailanthus*	*altissima*	7	Medium	Young	Good	...	$226.17
274	Locust-Black	*Robinia*	*pseudoacacia*	6	Medium	Young	Good	...	$775.45
275	Locust-Black	*Robinia*	*pseudoacacia*	7	Medium	Young	Good	...	$1,055.48
276	Locust-Black	*Robinia*	*pseudoacacia*	6	Medium	Young	Good	...	$775.45
277	Locust-Black	*Robinia*	*pseudoacacia*	6	Medium	Young	Good	...	$775.45

Tree ID	Common Name	Genus	Species	DBH	Height Class	Age Class	Condition Class	Tree & Shrub Work Phase	Tree Asset Value
278	Locust-Black	*Robinia*	*pseudoacacia*	6	Medium	Young	Fair	...	$553.90
279	Poplar-Eastern	*Populus*	*deltoides*	13	Medium	Semi-mature	Good	...	$1,820.16
280	Poplar-Eastern	*Populus*	*deltoides*	18	Large	Mature	Good	...	$3,489.54
281	Poplar-Eastern	*Populus*	*deltoides*	11	Medium	Semi-mature	Good	...	$1,303.19
282	Poplar-Eastern	*Populus*	*deltoides*	17,8	Large	Mature	Good	...	$3,801.88
283	Poplar-Eastern	*Populus*	*deltoides*	12	Large	Semi-mature	Good	...	$1,550.91
284	Poplar-Eastern	*Populus*	*deltoides*	13	Large	Semi-mature	Good	...	$1,820.16
285	Poplar-Eastern	*Populus*	*deltoides*	10	Medium	Semi-mature	Good	...	$1,077.02
286	Poplar-Eastern	*Populus*	*deltoides*	9	Medium	Young	Good	...	$872.39
287	Poplar-Eastern	*Populus*	*deltoides*	13,12	Large	Mature	Fair	1	$2,407.91
288	Locust-Black	*Robinia*	*pseudoacacia*	6,4,4,4,4	Medium	Semi-mature	Poor	...	$923.16
289	Locust-Black	*Robinia*	*pseudoacacia*	10,9	Medium	Semi-mature	Poor	3	$1,670.92
290	Tree of Heaven	*Ailanthus*	*altissima*	8	Medium	Young	Fair	...	$211.01
291	Mulberry-Red	*Morus*	*rubra*	7	Medium	Young	Good	...	$527.74
292	Mulberry-Red	*Morus*	*rubra*	6,5	Medium	Young	Poor	...	$281.56
293	Mulberry-Red	*Morus*	*rubra*	6,5,2	Medium	Semi-mature	Poor	3	$300.03
294	Tree of Heaven	*Ailanthus*	*altissima*	7	Medium	Young	Poor	3	$96.93
295	Tree of Heaven	*Ailanthus*	*altissima*	6	Medium	Young	Poor	3	$71.22
296	Locust-Black	*Robinia*	*pseudoacacia*	6,3	Medium	Young	Fair	...	$692.37
297	Poplar-Eastern	*Populus*	*deltoides*	12,10	Medium	Mature	Good	...	$2,627.93
298	Poplar-Eastern	*Populus*	*deltoides*	12,9	Medium	Mature	Good	...	$2,423.29
299	Poplar-Eastern	*Populus*	*deltoides*	12	Medium	Mature	Good	...	$1,550.91

Tree ID	Common Name	Genus	Species	DBH	Height Class	Age Class	Condition Class	Tree & Shrub Work Phase	Tree Asset Value
300	Poplar-Eastern	*Populus*	*deltoides*	6	Medium	Young	Good	...	$387.73
301	Poplar-Eastern	*Populus*	*deltoides*	16	Large	Semi-mature	Good	...	$2,757.17
302	Poplar-Eastern	*Populus*	*deltoides*	11	Large	Semi-mature	Good	...	$1,303.19
303	Poplar-Eastern	*Populus*	*deltoides*	10,10	Large	Semi-mature	Fair	...	$1,538.60
304	Poplar-Eastern	*Populus*	*deltoides*	8	Medium	Young	Poor	...	$295.41
305	Poplar-Eastern	*Populus*	*deltoides*	13,13,8	Medium	Mature	Good	...	$4,329.62
306	Locust-Black	*Robinia*	*pseudoacacia*	6,6,3,3,3	Medium	Young	Poor	...	$913.93
307	Poplar-Eastern	*Populus*	*deltoides*	22,18,18	Large	Mature	Fair	...	$8,708.48
308	Locust-Black	*Robinia*	*pseudoacacia*	9	Medium	Young	Fair	...	$1,246.27
309	Locust-Black	*Robinia*	*pseudoacacia*	8	Medium	Young	Fair	...	$984.70
310	Locust-Black	*Robinia*	*pseudoacacia*	9	Medium	Young	Good	...	$1,744.77
311	Locust-Black	*Robinia*	*pseudoacacia*	9,4	Medium	Young	Good	...	$2,089.42
312	Locust-Black	*Robinia*	*pseudoacacia*	21,16	Large	Mature	Poor	3	$6,434.43
313	Locust-Black	*Robinia*	*pseudoacacia*	12	Medium	Semi-mature	Fair	...	$2,215.58
314	Maple-Boxelder	*Acer*	*negundo*	15,13,11,8,7	Medium	Mature	Poor	...	$2,898.72
315	Locust-Black	*Robinia*	*pseudoacacia*	15	Medium	Semi-mature	Good	...	$4,846.59
316	Locust-Black	*Robinia*	*pseudoacacia*	9	Medium	Young	Good	...	$1,744.77
317	Locust-Black	*Robinia*	*pseudoacacia*	8	Medium	Young	Good	...	$1,378.59
318	Locust-Black	*Robinia*	*pseudoacacia*	7	Medium	Young	Good	...	$1,055.48
319	Locust-Black	*Robinia*	*pseudoacacia*	6	Medium	Young	Good	...	$775.45
320	Locust-Black	*Robinia*	*pseudoacacia*	6	Medium	Young	Good	...	$775.45
321	Locust-Black	*Robinia*	*pseudoacacia*	6	Medium	Young	Good	...	$775.45
322	Tree of Heaven	*Ailanthus*	*altissima*	7	Medium	Young	Fair	...	$161.55
323	Tree of Heaven	*Ailanthus*	*altissima*	6	Medium	Young	Good	...	$166.17
324	Locust-Black	*Robinia*	*pseudoacacia*	7,5	Medium	Young	Good	...	$1,593.99

Tree ID	Common Name	Genus	Species	DBH	Height Class	Age Class	Condition Class	Tree & Shrub Work Phase	Tree Asset Value
325	Locust-Black	*Robinia*	*pseudoacacia*	7	Medium	Young	Good	...	$1,055.48
326	Tree of Heaven	*Ailanthus*	*altissima*	7	Medium	Young	Good	...	$226.17
327	Locust-Black	*Robinia*	*pseudoacacia*	8	Medium	Young	Fair	...	$984.70
328	Tree of Heaven	*Ailanthus*	*altissima*	7	Medium	Young	Good	...	$226.17
329	Maple-Boxelder	*Acer*	*negundo*	7	Medium	Young	Poor	...	$226.17
330	Tree of Heaven	*Ailanthus*	*altissima*	11	Medium	Semi-mature	Fair	...	$398.94
331	Tree of Heaven	*Ailanthus*	*altissima*	9	Medium	Young	Fair	...	$267.06
332	Tree of Heaven	*Ailanthus*	*altissima*	15	Medium	Semi-mature	Fair	...	$741.83
333	Tree of Heaven	*Ailanthus*	*altissima*	31	Medium	Over-mature	Poor	1	$1,863.20
334	Tree of Heaven	*Ailanthus*	*altissima*	15,15,12,11	Medium	Mature	Poor	1	$1,414.41
335	Tree of Heaven	*Ailanthus*	*altissima*	10	Medium	Young	Good	...	$461.58
336	Tree of Heaven	*Ailanthus*	*altissima*	7	Medium	Young	Good	...	$226.17
337	Crabapple	*Malus*	sp.	8,4	Medium	Semi-mature	Fair	...	$1,230.88
338	Tree of Heaven	*Ailanthus*	*altissima*	8	Medium	Semi-mature	Fair	...	$211.01
339	Cherry-Black	*Prunus*	*serotina*	8	Medium	Semi-mature	Poor	...	$379.81
340	Tree of Heaven	*Ailanthus*	*altissima*	6	Medium	Young	Poor	...	$71.22
341	Cherry-Black	*Prunus*	*serotina*	6,6	Medium	Semi-mature	Fair	...	$712.15
342	Cherry-Black	*Prunus*	*serotina*	13,6	Medium	Mature	Fair	...	$2,027.65
343	Cherry-Flowering	*Prunus*	*serrulata*	9	Medium	Semi-mature	Good	...	$1,869.40
344	Crabapple	*Malus*	sp.	15,13	Medium	Over-mature	Poor	2	$3,637.25
345	Poplar-Eastern	*Populus*	*deltoides*	28,17	Large	Mature	Good	...	$11,556.42

Tree ID	Common Name	Genus	Species	DBH	Height Class	Age Class	Condition Class	Tree & Shrub Work Phase	Tree Asset Value
346	Ash-White	*Fraxinus*	*americana*	12	Medium	Semi-mature	Fair	...	$1,740.82
347	Crabapple	*Malus*	sp.	7	Medium	Mature	Good	...	$1,055.48
348	Locust-Black	*Robinia*	*pseudoacacia*	11	Medium	Semi-mature	Good	...	$2,606.39
349	Locust-Black	*Robinia*	*pseudoacacia*	6,5	Medium	Young	Good	...	$1,313.96
350	Locust-Black	*Robinia*	*pseudoacacia*	7,4,3	Medium	Semi-mature	Good	...	$1,593.99
351	Chokecherry-Common	*Prunus*	*virginiana*	6	Medium	Young	Fair	...	$553.90
352	Locust-Black	*Robinia*	*pseudoacacia*	9,6	Medium	Semi-mature	Good	...	$2,520.23
353	Locust-Black	*Robinia*	*pseudoacacia*	8	Medium	Semi-mature	Good	...	$1,378.59
354	Locust-Black	*Robinia*	*pseudoacacia*	10,6,6,5,5	Medium	Semi-mature	Poor	3	$2,049.42
355	Locust-Black	*Robinia*	*pseudoacacia*	7	Medium	Young	Good	...	$1,055.48
356	Locust-Black	*Robinia*	*pseudoacacia*	8,5	Medium	Young	Fair	...	$1,369.35
357	Locust-Black	*Robinia*	*pseudoacacia*	12	Medium	Semi-mature	Good	...	$3,101.82
358	Cherry-Flowering	*Prunus*	*serrulata*	6	Medium	Young	Good	...	$830.84
359	Locust-Black	*Robinia*	*pseudoacacia*	10,9	Medium	Semi-mature	Good	...	$3,898.81
360	Tree of Heaven	*Ailanthus*	*altissima*	9	Medium	Semi-mature	Fair	...	$267.06
361	Locust-Black	*Robinia*	*pseudoacacia*	9	Medium	Semi-mature	Good	...	$1,744.77
362	Poplar-Eastern	*Populus*	*deltoides*	14	Large	Semi-mature	Good	...	$2,110.96

Tree ID	Common Name	Genus	Species	DBH	Height Class	Age Class	Condition Class	Tree & Shrub Work Phase	Tree Asset Value
363	Poplar-Eastern	*Populus*	*deltoides*	10	Large	Semi-mature	Good	...	$1,077.02
364	Poplar-Eastern	*Populus*	*deltoides*	15,13,11	Large	Mature	Fair	...	$3,961.89
365	Poplar-Eastern	*Populus*	*deltoides*	17,16,13	Large	Mature	Good	...	$7,689.92
366	Poplar-Eastern	*Populus*	*deltoides*	11	Medium	Semi-mature	Fair	...	$930.85
367	Tree of Heaven	*Ailanthus*	*altissima*	7	Medium	Young	Poor	...	$96.93
368	Poplar-Eastern	*Populus*	*deltoides*	9,8,4	Medium	Semi-mature	Good	...	$1,734.00
369	Poplar-Eastern	*Populus*	*deltoides*	10,7	Medium	Semi-mature	Fair	...	$1,146.26
370	Birch-Gray	*Betula*	*populifolia*	6	Medium	Young	Good	...	$387.73
371	Locust-Black	*Robinia*	*pseudoacacia*	9	Medium	Semi-mature	Fair	...	$1,246.27
372	Locust-Black	*Robinia*	*pseudoacacia*	12,10,9,4,4	Medium	Semi-mature	Fair	...	$5,492.80
373	Locust-Black	*Robinia*	*pseudoacacia*	12	Medium	Semi-mature	Good	...	$3,101.82
374	Locust-Black	*Robinia*	*pseudoacacia*	8	Medium	Semi-mature	Fair	...	$984.70
375	Locust-Black	*Robinia*	*pseudoacacia*	12	Medium	Semi-mature	Fair	...	$2,215.58
376	Tree of Heaven	*Ailanthus*	*altissima*	10,6	Medium	Semi-mature	Poor	...	$269.04
377	Locust-Black	*Robinia*	*pseudoacacia*	16	Medium	Semi-mature	Poor	...	$2,363.29
378	Locust-Black	*Robinia*	*pseudoacacia*	6,5	Medium	Young	Poor	...	$563.13
379	Pine-Austrian	*Pinus*	*nigra*	15	Medium	Mature	Dead	1	...
380	Pine-Austrian	*Pinus*	*nigra*	14	Medium	Mature	Poor	1	$1,680.15
381	Pine-Austrian	*Pinus*	*nigra*	13	Medium	Mature	Poor	1	$1,448.70

Tree ID	Common Name	Genus	Species	DBH	Height Class	Age Class	Condition Class	Tree & Shrub Work Phase	Tree Asset Value
382	Pine-Austrian	*Pinus*	*nigra*	12	Medium	Semi-mature	Dead	1	...
383	Pine-Austrian	*Pinus*	*nigra*	15	Medium	Mature	Fair	...	$3,214.57
384	Pine-Austrian	*Pinus*	*nigra*	16	Medium	Mature	Fair	1	$3,657.47
385	Pine-Austrian	*Pinus*	*nigra*	15	Medium	Mature	Poor	...	$1,928.74
386	Pine-Eastern White	*Pinus*	*strobus*	11	Medium	Semi-mature	Poor	1	$1,356.39
387	Crabapple	*Malus*	sp.	9	Medium	Mature	Good	...	$1,744.77
388	Crabapple	*Malus*	sp.	8	Medium	Mature	Good	...	$1,378.59
389	Crabapple	*Malus*	sp.	13	Medium	Mature	Good	...	$3,640.33
390	Crabapple	*Malus*	sp.	8	Medium	Mature	Fair	...	$984.70
391	Crabapple	*Malus*	sp.	8	Medium	Mature	Fair	3	$984.70
392	Crabapple	*Malus*	sp.	10	Medium	Mature	Good	...	$2,154.04
393	Crabapple	*Malus*	sp.	10	Medium	Mature	Good	...	$2,154.04
394	Crabapple	*Malus*	sp.	9	Medium	Mature	Good	...	$1,744.77
395	Crabapple	*Malus*	sp.	12	Medium	Mature	Good	...	$3,101.82
396	Crabapple	*Malus*	sp.	12	Medium	Mature	Good	...	$3,101.82
397	Crabapple	*Malus*	sp.	9	Medium	Mature	Fair	3	$1,246.27
398	Oak-Northern Red	*Quercus*	*rubra*	11	Medium	Young	Good	...	$3,537.24
399	Oak-Northern Red	*Quercus*	*rubra*	11	Medium	Young	Good	...	$3,537.24
400	Mulberry-Red	*Morus*	*rubra*	7,5,5,5	Medium	Semi-mature	Fair	...	$953.93
401	Maple-Boxelder	*Acer*	*negundo*	10	Medium	Semi-mature	Good	...	$1,077.02
402	Locust-Black	*Robinia*	*pseudoacacia*	19	Large	Mature	Good	...	$7,776.08
403	Maple-Boxelder	*Acer*	*negundo*	9	Medium	Mature	Good	...	$872.39
404	Oak-Northern Red	*Quercus*	*rubra*	12	Large	Mature	Good	...	$4,209.61

Tree ID	Common Name	Genus	Species	DBH	Height Class	Age Class	Condition Class	Tree & Shrub Work Phase	Tree Asset Value
405	Locust-Black	*Robinia*	*pseudoacacia*	12	Large	Mature	Good	...	$3,101.82
406	Locust-Black	*Robinia*	*pseudoacacia*	18,12	Large	Mature	Fair	...	$7,200.65
407	Cherry-Black	*Prunus*	*serotina*	8	Medium	Semi-mature	Poor	...	$379.81
408	Locust-Black	*Robinia*	*pseudoacacia*	14,10	Medium	Mature	Good	...	$6,375.96
409	Tree of Heaven	*Ailanthus*	*altissima*	10,9,6,6	Medium	Semi-mature	Fair	...	$834.14
410	Locust-Black	*Robinia*	*pseudoacacia*	11	Medium	Semi-mature	Fair	...	$1,861.71
411	Locust-Black	*Robinia*	*pseudoacacia*	18,10,8	Medium	Mature	Poor	...	$4,505.02
412	Locust-Black	*Robinia*	*pseudoacacia*	7	Medium	Young	Fair	...	$753.91
413	Locust-Black	*Robinia*	*pseudoacacia*	7	Medium	Young	Fair	...	$753.91
414	Locust-Black	*Robinia*	*pseudoacacia*	11	Medium	Young	Good	...	$2,606.39
415	Locust-Black	*Robinia*	*pseudoacacia*	9,4	Medium	Semi-mature	Good	...	$2,089.42
416	Locust-Black	*Robinia*	*pseudoacacia*	7	Medium	Young	Good	...	$1,055.48
417	Locust-Black	*Robinia*	*pseudoacacia*	6,2	Medium	Young	Good	...	$861.62
418	Locust-Black	*Robinia*	*pseudoacacia*	6,3	Medium	Young	Fair	...	$692.37
419	Locust-Black	*Robinia*	*pseudoacacia*	10	Medium	Young	Good	...	$2,154.04
420	Locust-Black	*Robinia*	*pseudoacacia*	7,4	Medium	Young	Fair	...	$1,000.09
421	Locust-Black	*Robinia*	*pseudoacacia*	9,6	Medium	Young	Fair	...	$1,800.16
422	Locust-Black	*Robinia*	*pseudoacacia*	6	Medium	Young	Good	...	$775.45
423	Locust-Black	*Robinia*	*pseudoacacia*	9	Medium	Young	Good	...	$1,744.77
424	Locust-Black	*Robinia*	*pseudoacacia*	7,4	Medium	Young	Good	...	$1,400.13
425	Locust-Black	*Robinia*	*pseudoacacia*	18,14,9	Medium	Mature	Poor	...	$5,548.19
426	Locust-Black	*Robinia*	*pseudoacacia*	9	Medium	Young	Good	...	$1,744.77
427	Locust-Black	*Robinia*	*pseudoacacia*	17	Medium	Semi-mature	Good	...	$6,225.18
428	Locust-Black	*Robinia*	*pseudoacacia*	9,8	Medium	Semi-mature	Good	...	$3,123.36

Tree ID	Common Name	Genus	Species	DBH	Height Class	Age Class	Condition Class	Tree & Shrub Work Phase	Tree Asset Value
429	Mulberry-Red	*Morus*	*rubra*	7,5,4	Medium	Semi-mature	Fair	...	$692.37
430	Locust-Black	*Robinia*	*pseudoacacia*	7	Medium	Young	Poor	...	$452.35
431	Locust-Black	*Robinia*	*pseudoacacia*	7	Medium	Young	Good	...	$1,055.48
432	Locust-Black	*Robinia*	*pseudoacacia*	10,10,7,6	Medium	Semi-mature	Poor	...	$2,631.01
433	Locust-Black	*Robinia*	*pseudoacacia*	8	Medium	Young	Good	...	$1,378.59
434	Locust-Black	*Robinia*	*pseudoacacia*	13,7,4	Medium	Semi-mature	Fair	...	$3,600.32
435	Locust-Black	*Robinia*	*pseudoacacia*	11	Medium	Semi-mature	Fair	...	$1,861.71
436	Locust-Black	*Robinia*	*pseudoacacia*	10,8,5,4	Medium	Semi-mature	Fair	...	$3,154.13
437	Poplar-Eastern	*Populus*	*deltoides*	20,18,14,8,8	Large	Mature	Fair	...	$8,062.26
438	Elm-Slippery	*Ulmus*	*rubra*	11,8	Medium	Semi-mature	Good	...	$3,131.05
439	Locust-Black	*Robinia*	*pseudoacacia*	6,4	Medium	Young	Fair	...	$800.07
440	Locust-Black	*Robinia*	*pseudoacacia*	7	Medium	Young	Fair	...	$753.91
441	Locust-Black	*Robinia*	*pseudoacacia*	6	Medium	Young	Fair	...	$553.90
442	Elm-Slippery	*Ulmus*	*rubra*	10,5	Medium	Semi-mature	Good	...	$2,115.57
443	Locust-Black	*Robinia*	*pseudoacacia*	7	Medium	Young	Good	...	$1,055.48
444	Locust-Black	*Robinia*	*pseudoacacia*	6	Medium	Young	Fair	...	$553.90
445	Locust-Black	*Robinia*	*pseudoacacia*	12	Medium	Semi-mature	Good	...	$3,101.82
446	Locust-Black	*Robinia*	*pseudoacacia*	15	Medium	Semi-mature	Poor	...	$2,077.11
447	Locust-Black	*Robinia*	*pseudoacacia*	6	Medium	Young	Good	...	$775.45
448	Locust-Black	*Robinia*	*pseudoacacia*	13,12,12,10	Medium	Semi-mature	Poor	...	$5,142.00

Tree ID	Common Name	Genus	Species	DBH	Height Class	Age Class	Condition Class	Tree & Shrub Work Phase	Tree Asset Value
449	Locust-Black	*Robinia*	*pseudoacacia*	14	Medium	Semi-mature	Fair	...	$3,015.66
450	Locust-Black	*Robinia*	*pseudoacacia*	7	Medium	Young	Good	...	$1,055.48
451	Locust-Black	*Robinia*	*pseudoacacia*	9	Medium	Semi-mature	Good	...	$1,744.77
452	Locust-Black	*Robinia*	*pseudoacacia*	13,10,8,8	Medium	Semi-mature	Fair	...	$6,108.24
453	Cherry-Black	*Prunus*	*serotina*	7	Medium	Young	Fair	...	$484.66
454	Locust-Black	*Robinia*	*pseudoacacia*	9	Medium	Young	Good	...	$1,744.77
455	Locust-Black	*Robinia*	*pseudoacacia*	8,6	Medium	Young	Fair	...	$1,538.60
456	Locust-Black	*Robinia*	*pseudoacacia*	7	Medium	Young	Good	...	$1,055.48
457	Locust-Black	*Robinia*	*pseudoacacia*	6	Medium	Young	Good	...	$775.45
458	Locust-Black	*Robinia*	*pseudoacacia*	8	Medium	Young	Good	...	$1,378.59
459	Locust-Black	*Robinia*	*pseudoacacia*	7	Medium	Young	Good	...	$1,055.48
460	Locust-Black	*Robinia*	*pseudoacacia*	8	Medium	Young	Good	...	$1,378.59
461	Locust-Black	*Robinia*	*pseudoacacia*	11	Medium	Young	Fair	...	$1,861.71
462	Locust-Black	*Robinia*	*pseudoacacia*	7,5	Medium	Young	Good	...	$1,593.99
463	Locust-Black	*Robinia*	*pseudoacacia*	9	Medium	Young	Good	...	$1,744.77
464	Locust-Black	*Robinia*	*pseudoacacia*	6	Medium	Young	Good	...	$775.45
465	Locust-Black	*Robinia*	*pseudoacacia*	9	Medium	Young	Good	...	$1,744.77
466	Locust-Black	*Robinia*	*pseudoacacia*	8	Medium	Young	Good	...	$1,378.59
467	Locust-Black	*Robinia*	*pseudoacacia*	10	Large	Semi-mature	Good	1	$2,154.04
468	Locust-Black	*Robinia*	*pseudoacacia*	15	Large	Semi-mature	Good	1	$4,846.59
469	Locust-Black	*Robinia*	*pseudoacacia*	13	Large	Semi-mature	Fair	2	$2,600.23
470	Locust-Black	*Robinia*	*pseudoacacia*	29	Large	Mature	Good	2	$18,115.48
471	Locust-Black	*Robinia*	*pseudoacacia*	21	Large	Mature	Fair	...	$6,785.23

Tree ID	Common Name	Genus	Species	DBH	Height Class	Age Class	Condition Class	Tree & Shrub Work Phase	Tree Asset Value
472	Locust-Black	*Robinia*	*pseudoacacia*	7	Large	Semi-mature	Poor	...	$452.35
473	Locust-Black	*Robinia*	*pseudoacacia*	7	Large	Semi-mature	Fair	...	$753.91
474	Locust-Black	*Robinia*	*pseudoacacia*	8	Large	Mature	Fair	...	$984.70
475	Locust-Black	*Robinia*	*pseudoacacia*	12	Large	Mature	Poor	...	$1,329.35
476	Poplar-Eastern	*Populus*	*deltoides*	18,18	Large	Mature	Dead	...	...
477	Locust-Black	*Robinia*	*pseudoacacia*	9	Large	Semi-mature	Poor	...	$747.76
478	Locust-Black	*Robinia*	*pseudoacacia*	7	Medium	Semi-mature	Fair	...	$753.91
479	Poplar-Eastern	*Populus*	*deltoides*	23	Large	Mature	Poor	...	$2,441.76
480	Locust-Black	*Robinia*	*pseudoacacia*	8	Large	Semi-mature	Fair	...	$984.70
481	Locust-Black	*Robinia*	*pseudoacacia*	10	Large	Semi-mature	Poor	...	$923.16
482	Poplar-Eastern	*Populus*	*deltoides*	16	Large	Mature	Good	...	$2,757.17
483	Locust-Black	*Robinia*	*pseudoacacia*	9	Large	Semi-mature	Good	...	$1,744.77
484	Locust-Black	*Robinia*	*pseudoacacia*	16	Large	Mature	Fair	...	$3,938.82
485	Poplar-Eastern	*Populus*	*deltoides*	12	Large	Mature	Good	...	$1,550.91
486	Locust-Black	*Robinia*	*pseudoacacia*	7	Large	Semi-mature	Fair	...	$753.91
487	Locust-Black	*Robinia*	*pseudoacacia*	7	Large	Semi-mature	Fair	...	$753.91
488	Locust-Black	*Robinia*	*pseudoacacia*	7	Large	Semi-mature	Fair	...	$753.91
489	Locust-Black	*Robinia*	*pseudoacacia*	8	Large	Semi-mature	Fair	...	$984.70

Tree ID	Common Name	Genus	Species	DBH	Height Class	Age Class	Condition Class	Tree & Shrub Work Phase	Tree Asset Value
490	Poplar-Eastern	*Populus*	*deltoides*	6	Large	Semi-mature	Good	...	$387.73
491	Birch-Gray	*Betula*	*populifolia*	12	Large	Mature	Fair	...	$1,107.79
492	Birch-Gray	*Betula*	*populifolia*	9	Large	Mature	Fair	...	$623.13
493	Poplar-Eastern	*Populus*	*deltoides*	6	Medium	Semi-mature	Good	...	$387.73
494	Poplar-Eastern	*Populus*	*deltoides*	9	Large	Semi-mature	Poor	...	$373.88
495	Poplar-Eastern	*Populus*	*deltoides*	8	Large	Semi-mature	Fair	...	$492.35
496	Elm-American	*Ulmus*	*americana*	10	Large	Semi-mature	Fair	...	$1,208.90
497	Locust-Black	*Robinia*	*pseudoacacia*	8	Large	Semi-mature	Fair	...	$984.70
498	Locust-Black	*Robinia*	*pseudoacacia*	8	Large	Semi-mature	Fair	...	$984.70
499	Locust-Black	*Robinia*	*pseudoacacia*	7	Large	Semi-mature	Fair	2	$753.91
500	Locust-Black	*Robinia*	*pseudoacacia*	14	Large	Semi-mature	Good	2	$4,221.92
501	Locust-Black	*Robinia*	*pseudoacacia*	6	Medium	Semi-mature	Good	...	$775.45
502	Locust-Black	*Robinia*	*pseudoacacia*	6	Medium	Semi-mature	Fair	...	$553.90
503	Locust-Black	*Robinia*	*pseudoacacia*	10	Large	Semi-mature	Fair	...	$1,538.60
504	Poplar-Eastern	*Populus*	*deltoides*	17,12	Large	Mature	Good	...	$4,663.50
505	Poplar-Eastern	*Populus*	*deltoides*	15	Large	Mature	Poor	1	$1,038.56
506	Poplar-Eastern	*Populus*	*deltoides*	12	Large	Mature	Fair	...	$1,107.79

Tree ID	Common Name	Genus	Species	DBH	Height Class	Age Class	Condition Class	Tree & Shrub Work Phase	Tree Asset Value
507	Locust-Black	*Robinia*	*pseudoacacia*	6	Large	Semi-mature	Poor	1	$332.34
508	Locust-Black	*Robinia*	*pseudoacacia*	9	Large	Semi-mature	Fair	2	$1,246.27
509	Locust-Black	*Robinia*	*pseudoacacia*	23	Large	Mature	Fair	1	$8,139.19
510	Locust-Black	*Robinia*	*pseudoacacia*	10	Large	Semi-mature	Fair	2	$1,538.60
511	Locust-Black	*Robinia*	*pseudoacacia*	8	Large	Semi-mature	Good	2	$1,378.59
512	Locust-Black	*Robinia*	*pseudoacacia*	11	Large	Semi-mature	Poor	1	$1,117.02
513	Locust-Black	*Robinia*	*pseudoacacia*	14	Large	Mature	Fair	2	$3,015.66
514	Locust-Black	*Robinia*	*pseudoacacia*	11	Large	Semi-mature	Good	2	$2,606.39
515	Locust-Black	*Robinia*	*pseudoacacia*	7	Large	Semi-mature	Good	2	$1,055.48
516	Oak-Northern Red	*Quercus*	*rubra*	16	Large	Mature	Good	...	$7,483.75
517	Oak-Northern Red	*Quercus*	*rubra*	13	Large	Mature	Good	...	$4,940.44
518	Elm-American	*Ulmus*	*americana*	9	Medium	Semi-mature	Fair	...	$979.21
519	Cherry-Black	*Prunus*	*serotina*	18	Large	Mature	Fair	...	$3,204.68
520	Elm-American	*Ulmus*	*americana*	8	Medium	Semi-mature	Good	...	$1,083.17
521	Oak-Northern Red	*Quercus*	*rubra*	22	Large	Mature	Fair	3	$10,106.40
522	Oak-Northern Red	*Quercus*	*rubra*	31	Large	Mature	Good	...	$27,533.95

Tree ID	Common Name	Genus	Species	DBH	Height Class	Age Class	Condition Class	Tree & Shrub Work Phase	Tree Asset Value
523	Oak-Northern Red	*Quercus*	*rubra*	19	Large	Mature	Fair	...	$7,538.04
524	Cherry-Black	*Prunus*	*serotina*	13	Medium	Mature	Poor	2	$1,002.95
525	Oak-Pin	*Quercus*	*palustris*	7	Medium	Semi-mature	Good	...	$1,281.65
526	Cherry-Black	*Prunus*	*serotina*	10	Medium	Semi-mature	Dead	3	...
527	Cherry-Black	*Prunus*	*serotina*	17	Large	Mature	Poor	1	$1,715.10
528	Oak-Northern Red	*Quercus*	*rubra*	22	Large	Mature	Fair	1	$10,106.40
529	Maple-Boxelder	*Acer*	*negundo*	21	Large	Mature	Fair	1	$3,392.61
530	Oak-Northern Red	*Quercus*	*rubra*	22	Large	Mature	Good	...	$14,148.97
531	Oak-Pin	*Quercus*	*palustris*	11	Large	Semi-mature	Good	1	$3,164.90
532	Tree of Heaven	*Ailanthus*	*altissima*	23	Large	Mature	Fair	1	$1,744.11
533	Cherry-Black	*Prunus*	*serotina*	14	Large	Mature	Fair	2	$1,938.64
534	Cherry-Black	*Prunus*	*serotina*	8	Medium	Semi-mature	Fair	...	$633.02
535	Cherry-Black	*Prunus*	*serotina*	8	Medium	Semi-mature	Fair	...	$633.02
536	Cherry-Black	*Prunus*	*serotina*	6	Medium	Semi-mature	Fair	3	$356.08
537	Cherry-Black	*Prunus*	*serotina*	9	Medium	Semi-mature	Fair	...	$801.17
538	Cherry-Black	*Prunus*	*serotina*	11	Large	Mature	Fair	2	$1,196.81
539	Cherry-Black	*Prunus*	*serotina*	9	Large	Mature	Good	...	$1,121.64

APPENDIX

ADDITIONAL RESOURCES

Bartlett publishes a variety of tree-resource documents, including technical reports, plant health care recommendations, and service brochures. The following technical reports may be pertinent to your inventory. To access these documents and view the complete Bartlett Resource Library online, please follow this URL:

https://www.bartlett.com/resourcelist.cfm

Girdling Roots

Maintenance Pruning Program

Monitor IPM Program

Mulch Application Guidelines

Tree Risk Assessments

Tree Structure Evaluation

GLOSSARY OF TERMS

air pollution removal: removal of pollutants from the air by plants through natural processes

arborist: 1. An individual engaged in the profession of arboriculture who, through experience, education and related training, possesses the competence to provide for, or supervise the management of, trees and other woody ornamentals. [ANSI A300 (Part 1, 2, 4, 5, 6)] 2. An individual engaged in the profession of arboriculture. [ANSI Z133.1-2000 Safety Requirements for Arboricultural Operations]

bracing: The installation of lag-thread screw or threaded-steel rods in limbs, leaders, or trunks to provide supplemental support. [ANSI A300 (Part 3)-2000 Support Systems]

branch: An outgrowing shoot, stem or twig that grows from the main stem or trunk. [ANSI Z60.1-2004 Nursery Stock]

buttress roots: Lateral surface roots that aid in stabilizing the tree.

cable: 1) Zinc coated strand per ASTM A-475 for dead-end grip applications. 2) Wire rope or strand for general applications. 3) Synthetic-fiber rope or synthetic-fiber webbing for general applications. [ANSI A300 (Part 3)-2000 Support Systems]

cabling: The installation of a steel wire rope, steel strand, or synthetic-fiber system within a tree between limbs or leaders to limit movement and provide supplemental support. [ANSI A300 (Part 3)-2000 Support Systems]

canopy: collective branches and foliage of a tree or group of trees' crowns

carbon sequestration: removal of carbon from the air by plants through natural processes

carbon storage: storage of carbon removed from the air in plant tissues

cation exchange capacity (CEC): The ability of soil to absorb nutrients.

cavity: An open wound characterized by the presence of decay and resulting in a hollow.

cleaning: Selective pruning to remove one or more of the following parts: dead, diseased, and/ or broken branches (5.6.1). [ANSI A300 (Part 1)-2001 Pruning]

co-dominant branches: Equal in size and importance, usually associated with either the trunks, stems, or scaffold limbs.

conk: fruiting body or non-fruiting body of a fungus. Often associated with decay.

critical root zone (CRZ): area of soil around a tree trunk where roots are located that provide stability and uptake of water and minerals required for tree survival.

crown: 1. The leaves and branches of a tree measured from the lowest branch on the trunk to the top of the tree. [ANSI A300 (Part 1)-2001 Pruning] [ANSI A300 (Part 6)-2005 Transplanting] 2. The portion of a tree comprising the branches. [ANSI Z60.1-2004 Nursery Stock]

D.B.H. [diameter at breast height]: Measurement of trunk diameter taken at 4.5 feet (1.4 m) off the ground. [ANSI A300 (Part 6)-2005 Transplanting]

decay: The degradation of woody tissue caused by microorganisms. [ANSI A300 (Part 1)-2001 Pruning]

Geographic Information System (GIS): is any system for capturing, storing, analyzing and managing data and associated attributes which are spatially referenced to earth.

girdling root: A root that may impede proper development of other roots, trunk flare, and/or trunk. [ANSI A300 (Part 6)-2005 Transplanting]

Global Positioning System (GPS): A constellation of at least 24 Medium Earth Orbit satellites that transmit precise microwave signals, the system enables a GPS receiver to determine its location, speed, direction, and time.

Global Positioning System receiver (GPSr): A receiver that receives its input from GPS satellites to determine location, speed, direction, and time.

heading: cutting a shoot back to a bud or cutting branches back to buds, stubs, or lateral branches not large enough to assume apical dominance. Cutting an older branch or stem back to meet a structural objective

integrated pest management (IPM): A pest control strategy that uses an array of complementary methods: mechanical devices, physical devices, genetic, biological, legal, cultural management, and chemical management. These methods are done in three stages of prevention, Observation, and finally Intervention. It is an ecological approach that has its main goal is to significantly reduce or eliminate the use of pesticides.

lateral branch: A shoot or stem growing from a parent branch or stem. [ANSI A300 (Part 1)-2001 Pruning]

leader: A dominant or co-dominant, upright stem. [ANSI A300 (Part 1)-2001 Pruning]

lean: Departure from vertical of the stem, beginning at or near the base of the trunk.

limb: A large, prominent branch. [ANSI A300 (Part 1)-2001 Pruning]

lion's tailing: The removal of an excessive number of inner, lateral branches from parent branches. Lion's tailing is not an acceptable pruning practice (5.5.7). [ANSI A300 (Part 1)-2001 Pruning]

macronutrient: Nutrient required in relatively large amounts by plants, such as nitrogen (N), phosphorus (P), potassium (K), and sulfur (S). [ANSI A300 (Part 2)-2004 Fertilization]

micronutrient: Nutrient required in relatively small amounts by plants, such as iron (Fe), manganese (Mn), zinc (Zn), copper (Cu), and boron (B). [ANSI A300 (Part 2)-2004 Fertilization]

noise attenuation: reducing sound levels via materials, structures, plants, etc.

nutrient: Element or compound required for growth, reproduction or development of a plant. [ANSI A300 (Part 2)-2004 Fertilization]

organic matter: material derived from the growth (and death) of living organisms. The organic components of soil.

parent branch or stem: A tree trunk, limb, or prominent branch from which shoots or stems grow. [ANSI A300 (Part 1)-2001 Pruning]

pH: unit of measurement that describes the alkalinity or acidity of a solution. Measured on a scale of 0 to 14. Greater than 7 Is alkaline, less than 7 is acid, and 7 is neutral (pure water).

pruning: The selective removal of plant parts to meet specific goals and objectives. [ANSI A300 (Part 1)-2001 Pruning]

qualified arborist: An individual who, by possession of a recognized degree, certification, or professional standing, or through related training and on-the-job experience, is familiar with the equipment and hazards involved in arboricultural operations and who has demonstrated ability in the performance of the special techniques involved. [ANSI Z133.1-2000 Safety Requirements for Arboricultural Operations]

raising: Selective pruning to provide vertical clearance (5.6.3). [ANSI A300 (Part 1)-2001 Pruning]

reduction: Selective pruning to decrease height and/or spread (5.6.4). [ANSI A300 (Part 1)-2001 Pruning]

risk assessment: process of evaluating what unexpected things could happen, how likely it is, and what the likely outcomes are. In tree management, the systematic process to determine the level of risk posed by a tree, tree part, or group of trees.

root collar: 1. The transition zone between the trunk and the root system. [ANSI A300

(Part 6)-2005 Transplanting] 2. See COLLAR. [ANSI Z60.1-2004 Nursery Stock]

root flare or trunk flare: The area at the base of the plant's stem or trunk where the stem or trunk broadens to form roots; the area of transition between the root system and the stem or trunk. [ANSI Z60.1-2004 Nursery Stock] [ANSI A300 (Part 6)-2005 Transplanting]

root zone: The volume of soil containing the roots of a plant. [ANSI A300 (Part 5)-2005 Management]

secondary nutrient: Nutrient required in moderate amounts by plants, such as calcium (Ca) and magnesium (Mg). [ANSI A300 (Part 2)-2004 Fertilization]

seam: Vertical line that appears where two edges of wound wood or callus ridge meet.

soil amendment: Any material added to soil to alter its composition and structure, such as sand, fertilizer, or organic matter. [ANSI A300 (Part6)-2005 Transplanting]

soil pH: A measure of the acidity or alkalinity of the soil.

stormwater runoff: water (generally from rain or snow melt) that flows over the ground after storm events.

structural support system: hardware installed in tree, may be; cables, braces, or guys, to provide supplemental support.

sweep: Departure from vertical of the stem, beginning above the base of the trunk.

thinning: Selective pruning to reduce density of live branches (5.6.2). [ANSI A300 (Part 1)-2001 Pruning]

tree risk assessment: Closer inspection of visibly damaged, dead, defected, diseased, leaning or dying tree to determine management needs.

topping: The reduction of a tree's size using heading cuts that shorten limbs or branches back to a predetermined crown limit. Topping is not acceptable pruning practice. (5.5.7). [ANSI A300 (Part 1)-2001 Pruning]

tree inventory: A comprehensive list of individual trees providing descriptive information on all or a portion of the project area. [ANSI A300 (Part 5)-2005 Management during site planning, site development, and construction]

tree protection zone: A space above and belowground within which trees are to be retained and protected. [ANSI A300 (Part 5)-2005 Management during site planning, site development, and construction]

trunk: That portion of a stem or stems of a tree before branching occurs. [ANSA Z60.1-

2004 Nursery Stock]

vigor: Overall health. Capacity to grow and resist stress. [ISA Municipal Specialist Certification Study Guide 2008]

wound: An opening that is created when the bark of a living branch or stem is penetrated, cut, or removed. [ANSI A300 (Part 1)-2001 Pruning]

APPENDIX C: Jerry's Pond Tree Inventory and Management Plan

Jerrys Pond - Cambridge, MA
Tree Inventory and Management Plan | 2021

IQHQ

Giving progress a home

Submitted by:
Bartlett Tree Experts

Timothy Armstrong, Regional Inventory Arborist
ISA Board Certified Master Arborist #NE-7132B, Massachusetts Certified Arborist #2464, ISA Tree Risk Assessment Qualified, Certified Treecare Safety Professional #953

Andrew Balon, Arborist Representative
ISA Certified Arborist #NE-7015A, ISA Tree Risk Assessment Qualified

BARTLETT
BARTLETT TREE EXPERTS
SCIENTIFIC TREE CARE SINCE 1907

Bartlett Tree Experts
Waltham Office
50 Bear Hill Road
Waltham, Massachusetts 02451
(781) 622-5980
www.bartlett.com

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Jerrys Pond Tree Inventory and Management Plan

MAKING THE MOST OF YOUR INVENTORY MANAGEMENT PLAN

Those who operate a large business or institution understand how inventory impacts operations and budgeting. One must know what's there, how much or how many, and where it all is. But the task doesn't end there. To obtain the greatest benefit from inventory, owners or their designees must manage it. Are a company's tools, for example, old and defective, in need of repair, in short supply, or useless and taking up space that could be better occupied? A good management plan will address these issues and keep the inventory current, in good condition, and functioning for the benefit and safety of those involved.

Managing trees on a large property can seem like an overwhelming task, but the same principles of inventory management apply. This inventory and management plan should provide managers the data they need to develop realistic budgets for their tree maintenance needs, and it will help make the Alewife Gerrys Pond 2 a safer and more beautiful environment.

The following tips will assist you in making the most of this document:

Who's Who

Those who conducted the inventory and prepared this document are members of the Bartlett Inventory Solutions team. They are also employees of Bartlett Tree Experts. The Bartlett Inventory Solutions team is overseen by Technical Advisors out of the Bartlett Tree Research Laboratories in Charlotte, North Carolina. The advisors are primarily charged with client support, coordination, quality control, and documentation of inventories and the related data. Extensively trained Regional Inventory Arborists from local Bartlett Tree Experts offices are the primary data collectors and authors of the management plans. Readers may interpret the terms "Bartlett Tree Experts," "Bartlett," "the Inventory Team," "the team," "we," and "our" as the Bartlett company and those who conducted the inventory and prepared this management plan. In addition to the primary author(s) listed on the cover page, Team Member(s) involved in this project included:

Technical Advisor
Chris Breedlove, Consulting Advisor
ISA Certified Arborist #SO-10506A, ISA Tree Risk Assessment Qualified

Data Collection
Timothy Armstrong, Regional Inventory Arborist
Massachusetts Certified Arborist #2464, ISA Board Certified Master Arborist #NE-7132B
ISA Tree Risk Assessment Qualified, Certified Treecare Safety Professional #953

Kat Cummings, Regional Inventory Arborist
ISA Certified Arborist #NE-7396A, Massachusetts Certified Arborist #102013,
ISA Tree Risk Assessment Qualified

Subject Trees

In this document, the term "subject trees" refers (depending on context) to some or all of the 501 trees included in the inventory.

Definitions & Bolded Terms

Some definitions or specifications are detailed within a given section to explain how readers should interpret certain terms or classifications. We have also appended a Glossary for other terms that appear throughout the document. The first reference to each of these terms appears in **bold** for the reader's convenience.

How This Document is Organized

An outline appears below that introduces the order in which the sections of the management plan will appear. The management plan layout is as follows:

- **Table of Contents**
  - Road map for the management plan
- **Making the Most of Your Inventory Management Plan**
  - Explanations for how to efficiently and effectively understand and navigate this management plan document
- **Executive Summary**
  - Synopsis of the major findings and recommendations
- **Introduction**
  - Brief explanation of the inventory and what was included
- **Goals & Objectives**
  - Explanation of the specific goals and objectives for this inventory
- **Data Collection & Tree Inspection Methodology**
  - Lists, explanations, and definitions of all data collected during the inventory
- **Tree Risk Assessment and Mitigation**
  - Summary of *overall tree risk ratings* assigned during the inventory with corresponding table and map displays with figures if applicable
  - Summary of *Level 3 Advanced assessments* recommended during the inventory (summarized in the *overall tree risk ratings* table) with a map display and figures if applicable
- **Stand Dynamics Results**
  - Summary information for the entire tree population inventoried

- **Recommendations**
    - Summary of all recommendations made during the inventory including associated table and map displays, explanations and examples, and figures if applicable
- **Defects or Observations**
    - List of all trees observed to have defects in the field in a table view with associated descriptive figures and maps if applicable
- **Entire Inventory**
    - List of all trees collected in a table display
- **Additional Resources**
    - Listing of all appended items for this management plan

EXECUTIVE SUMMARY

In December 2021, the Bartlett Inventory Solutions (BIS) Team from Bartlett Tree Experts conducted an inventory of trees on the Alewife Gerrys Pond 2 site. We identified 501 trees which included 27 species. The attributes that we collected include tree latitude and longitude, size, age and condition class, and a visual assessment of tree structure, health, and **vigor**.

We conducted the attribute collection using a sub-meter accuracy Global Positioning Satellite Receiver (GPSr) device with an error-in-location potential of not greater than three meters. Our recommendations for the subject trees are based on the number of desired management cycles. All tree work activities will comply with current American National Standards Institute (ANSI) Z133.1 requirements for safety.

Tree Risk Assessments and Mitigation

Perform the recommended tree risk mitigation activities for the 4 trees (1%) which we found defects or concerns that prompted the need to use the International Society of Arboriculture's (ISA) risk matrices in the field. Risk mitigation activities will comply with current ANSI A300 standard practices. Please see the Tree Risk Assessments, Limitations & Glossary section for more information.

Level 3 Advanced Assessment

At the time of inventory, no trees were recommended for *Level 3 Advanced assessments* to evaluate the impact of wood decay. However, as trees continue to grow and site changes occur, we recommend continual consultation with your local Bartlett Arborist Representative to determine if *Level 3 Advanced assessments* are warranted in the future.

Soil Sampling

Taking soil samples throughout planting beds and actively managed areas. Soil analysis provides information on the presence of soil nutrients, pH, organic matter, and cation exchange capacity.

Bulk Density Sampling

Taking bulk density samples throughout planting beds and actively managed areas to determine the amount of soil compaction.

Mulching

Wherever possible, apply 2-4 inches of mulch within the root zone to help moderate soil temperatures, reduce soil moisture loss, reduce soil compaction, provide nutrients, improve soil structure, and keep mowers and string trimmers away from tree trunks. The best mulch materials are wood chips, bark nuggets, composted leaves, or pine needles. To avoid potential disease problems, mulch should not be placed directly against the trunk.

Root Collar Excavations

Perform **root collar** excavations to 1 tree (< 1%) to lower risk of damaging conditions such as **girdling roots**, basal cankers, masking of root decay and lower-stem decay, and predisposing trees to various insect and disease pests.

Plant Health Care (PHC)

At the time of inventory, no pests or diseases were observed on the subject trees. However, we recommend implementing Bartlett's PHC program to monitor pests and disease that may not have been visible at the time of inventory. Treatments are therapeutic and preventative, and treatment timing is based on pest life cycle.

Pruning

Prune 3 trees (1%) for safety, health, structure, and appearance. Pruning will comply with current ANSI A300 standard practices for pruning.

Structural Support

At the time of inventory, no trees were recommended for structural support. However, as trees continue to grow and site changes occur, we recommend continual consultation with your local Bartlett Arborist Representative to determine if structural support systems are warranted in the future.

Lightning Protection

At the time of inventory, no trees were recommended for lightning protection systems. However, as trees continue to grow and site changes occur, we recommend continual consultation with your local Bartlett Arborist Representative to determine if lightning protection systems are warranted in the future.

Removals

Remove 40 trees (8%) due to condition or because of their location in relation to other trees to try and prevent competition or damage to infrastructure.

Vine Removal

Remove vines from 99 trees (20%) to try and prevent them from hiding defects.

INTRODUCTION

In December 2021, IQHQ in Boston, MA retained Bartlett Tree Experts to perform an inventory of trees on the Jerrys Pond site. Team members Tim Armstrong and Kat Cummings visited the site on November to conduct the inventory.

The inventory included:

- identifying trees and assigning a Tree ID number (Tree ID numbers ranging from 540 to 1000 and 1101 to 1140);
- identifying the trees' condition, health, and vigor;
- recommending risk evaluations and removals of appropriate trees;
- recommending tree care, soil care, structural support, and pest management treatments to promote tree safety, health, appearance, and longevity; and
- mapping the trees using GPSr hardware and Geographic Information System (GIS) software, and Bartlett Tree Experts' ArborScope™ web-based management system

The methods and procedures we used to make the above determinations and recommendations are detailed in the following sections.

GOALS & OBJECTIVES

An effective management plan communicates clear goals and the specific objectives designed to carry out those goals. We intend "goal" to mean the overall aim or result we expect to achieve for the client in producing the inventory and management plan. The objectives are the specific actions taken or recommended to support goal completion. The table below describes each goal and its corresponding objective(s).

GOALS & OBJECTIVES

GOAL	OBJECTIVES TO ACCOMPLISH GOAL
Establish the tree inventory (per numbers agreed) on the Jerry's Pond site.	• Using Trimble® Geo GPSr hardware and ArborScope™ Inventory Management Tools, collect data such as tree name, location, size, age class, and condition class. • Assign a Tree ID number to each tree inventoried.
Provide mechanism for managing inventory, recommendations, and related budget planning.	• Provide map or maps of the inventoried trees to assist the client in managing property areas. • Submit a comprehensive management plan that documents and organizes findings and provides other resources to assist the client in efficient use of the information.
Maximize client understanding and implementation of management plan.	• Include in management plan specific explanations and visuals related to plan recommendations. • Provide appended resources that address health, procedures, and standards related to tree care. • Make periodic contact with client to follow up and answer any questions about the management plan's contents.
Maximize immediate and long-term tree health and aesthetics.	Implement recommended plant-health-care program that uses • integrated pest management • soil care • maintenance pruning
Manage immediate and long-term risk associated with trees in high-use areas.	Implement recommended risk-management measures that include • risk-reduction pruning • required removals • tree structure evaluations

DATA COLLECTION & TREE INSPECTION METHODOLOGY

In conducting the inventory, we used specialized equipment and software and followed specific procedures to determine tree characteristics, risk evaluations, and recommendations. The following explanation will assist the reader in interpreting the findings of this management plan.

Data Collection Equipment & Attribute Data

The Inventory Team used Trimble® Geo GPSr hardware units, TerraSync® and GPS Pathfinder® Office GIS software, and Bartlett Tree Experts' ArborScope™ web-based management system to inventory the trees. The attribute data we collected on site are listed below.

- botanical name and regional common name according to local ISA Chapter Tree Species List
- tree location based on GPS coordinate system
- tree ID number
- diameter at breast height (**DBH**)
- canopy radius
- age class
- height class
- condition class
- root zone infringement, based on **dripline** and estimated **grayscape** (e.g., sidewalks) impact on root zone
- infrastructure interaction (between trees and grayscape that may cause an undesirable condition
- documented *Level 2 Basic assessment* for tree risk where defects or concerns were observed that prompted the need to use the ISA risk matrices in the field resulting in an *overall tree risk rating*
- Tree & Shrub Work phase (based on number of desired management cycles)
- pruning category
- need for and inspection of existing structural support systems
- need for and inspection of existing lightning protection systems
- need for *Level 3 Advanced assessment* for tree risk
- tree removals
- soil care recommendations
- plant health care recommendations
- noted defects/observations
- observed pests/diseases

Specifications/Definitions

Age Class

New Planting	Tree not yet established
Young	Established tree but not in the landscape for many years
Semi-mature	Established tree but has not yet reached full growth potential
Mature	Tree within its full growth potential
Over-mature	Tree that is declining or beginning to decline due to its age

Height Class

Small Less than 15 feet
Medium 15 to 40 feet
Large Greater than 40 feet

Condition Class

Dead
Poor Most of the canopy displays dieback and undesirable leaf color, inappropriate leaf size or inadequate new growth. Tree or parts of tree are in the process of failure.
Fair Parts of canopy display undesirable leaf color, inappropriate leaf size, and inadequate new growth. Parts of the tree are likely to fail.
Good Tree health and condition are acceptable.

Tree & Shrub Work Phase

Tree & Shrub Work phase takes into consideration tree species, condition, location, age, and proximity to infrastructure. We intend for this rating system to assist decision makers in prioritizing risk mitigation, tree pruning, cabling and bracing, and tree lightning protection recommendations. *Trees with an ASAP and an overall tree risk rating of extreme or high (see definitions in the next section) should be addressed immediately*. Prioritization does not take into account any budgetary or financial considerations.

Phase 1, 2, 3, 4, and 5 are all based on observations by the inventory arborist according to the manager's goals. The following additional information clarifies each priority:

ASAP Trees with recommendations that should be addressed As Soon As Possible.
Phase 1 Typically addressed in the first management cycle. Trees located in high-use sites, have a high aesthetic value, have an elevated *overall tree risk rating*, and/or parts that are currently in conflict with infrastructure.
Phase 2 Typically addressed in the second management cycle. Trees with moderate aesthetic value, don't have an elevated *overall tree risk rating*, and/or parts that are anticipated to be in conflict with infrastructure.
Phase 3 Typically addressed in the third management cycle. Tree parts that are anticipated to be in conflict with infrastructure and/or recommendations based on anticipated growth.
Phase 4 Typically addressed in the fourth management cycle. Recommendations are for future consideration and anticipated growth.
Phase 5 Typically addressed in the fifth management cycle. Recommendations are for future consideration and anticipated growth.

Pruning Category

All trees identified in this management plan that have tree care recommendations are listed within a specific pruning category. Trees within each pruning category can be prioritized by the specific goals of the manager. It is recommended that specific goals be discussed prior to any pruning.

Risk Mitigation	This goal requires pruning of any tree where risk mitigation should take precedence over other pruning goals. Typically aims to reduce the *overall tree risk rating* by branch removal and/or branch reduction.
Maintenance	This goal typically requires routine pruning of large/mature trees. Includes branch removal and/or branch reduction to help reduce *likelihood of failure* and/or conflict with infrastructure. Trees with this goal are typically climbed or require the use of aerial lifts and/or other specialized equipment.
Developmental	This goal typically requires routine pruning of small/young trees. Includes structural pruning to develop a strong central stem, establish proper branch spacing, and/or develop branch structure.
Ornamental	This goal typically requires pruning of small trees. Includes reduction and/or shearing to its desired shape, size, and/or structure.
Specialized	Trees with this goal require a unique treatment that may include, but not limited to, targeted pruning cuts, removal of nuisance fruit/parasitic plants, and/or rejuvenation/internodal pruning.

* The listed descriptions of goals, tools, and/or techniques are not limited to these definitions. Specific individual goals and species profiles should guide the pruning recommendations.

Tree Risk Assessments, Limitations & Glossary

In accordance with industry standards, tree risk ratings are derived from a combination of three factors: the *likelihood of failure*, the *likelihood of the failed tree part impacting a target*, and the *consequences* of the target being struck. The guidelines used to classify each of these factors are presented in the *ISA's BMP for Tree Risk Assessment* and guidelines developed by the Bartlett Tree Research Laboratories. *These factors are then used to categorize tree risk as Extreme*, *High*, *Moderate or Low*. The factors used to define your risk ratings are identified in this report. An explanation of terms used in this report appears in the glossary located in the appendix. The information provided in this report is based on the conditions identified at the time of inspection. Tree conditions do change over time so reassessment is recommended annually and after major storm events.

Limitations of Tree Risk Assessments

It is important for the tree owner or manager to know and understand that all trees pose some degree of risk from failure or other conditions. The information and recommendations within this report have been derived from the level of tree risk assessment identified in this report, using the information and practices outlined in the *International Society of Arboriculture's Best Management Practices for Tree Risk Assessment*, as well as the information available at the time of the inspection. However, the *overall tree risk rating*, the mitigation recommendations, or any other conclusions do not preclude the possibility of failure from undetected conditions, weather events, or other acts of man or nature. Trees can unpredictably fail even if no defects or other conditions are present. It is the responsibility of the tree owner or manager to schedule repeat or *Advanced assessments*, determine actions, and implement follow up recommendations, monitoring and/or mitigation.

Bartlett Tree Experts can make no warranty or guarantee whatsoever regarding the safety of any tree, trees, or parts of trees, regardless of the level of tree risk assessment provided, the risk rating, or the residual risk rating after mitigation. The information in this report should not be considered as making safety, legal, architectural, engineering, landscape architectural, land surveying advice or other professional advice. This information is solely for the use of the tree owner and manager to assist in the decision making process regarding the management of their tree or trees. Tree risk assessments are simply tools which should be used in conjunction with the owner or tree manager's knowledge, other information and observations related to the specific tree or trees discussed, and sound decision making.

Glossary

Tree risk assessment has a unique set of terms with specific meanings. Definitions of all specific terms may be found in the International Society of Arboriculture's *Best Management Practice for Tree Risk Assessment*. Definitions of some of these terms used in this report are as follows:

The *likelihood of failure* may be categorized as imminent meaning that failure has started or could occur at any time; probable meaning that failure may be expected under normal weather conditions within the next 3 years; possible meaning that failure could occur, but is unlikely under normal weather conditions during that time frame; and improbable meaning that failure is not likely under normal weather conditions, and may not occur in severe weather conditions during that time frame.

The likelihood of the failed tree part impacting a target may be categorized as high meaning that a failed tree or tree part will most likely impact a target; medium meaning the failed tree or tree part could impact the target, but is not expected to do so; low meaning that the failed tree or tree part is not likely to impact a target; and very low meaning that the chance of a failed tree or tree part impacting the target is remote.

The *likelihood of failure and impact* is defined by the Likelihood Matrix below.

LIKELIHOOD OF FAILURE AND IMPACT

Likelihood of Failure	Likelihood of Impacting Target			
	Very Low	Low	Medium	High
Imminent	Unlikely	Somewhat likely	Likely	Very Likely
Probable	Unlikely	Unlikely	Somewhat likely	Likely
Possible	Unlikely	Unlikely	Unlikely	Somewhat likely
Improbable	Unlikely	Unlikely	Unlikely	Unlikely

The *consequences* of a known target being struck may be categorized as severe meaning that impact could involve serious personal injury or death, damage to high value property, or disruption to important activities; significant meaning that the impact may involve personal injury, property damage of moderate to high value, or considerable disruption; minor meaning that impact could cause low to moderate property damage, small disruptions to traffic or a communication utility, or minor injury; and negligible meaning that impact may involve low value property damage, disruption that can be replaced or repaired, and do not involve personal injury.

Targets are people, property, or activities that could be injured, damaged or disrupted by a tree failure.

Levels of assessment 1) *Limited visual assessments* are conducted to identify obvious defects. 2) *Basic assessments* are visual inspections done by walking around the tree looking at the site, buttress roots, trunk and branches. It may include the use of simple tools to gain information about the tree or defects. 3) *Advanced assessments* are performed to provide detailed information about specific tree parts, defects, targets of site conditions. Drilling to detect decay is an advanced assessment technique.

Tree Risk Ratings are terms used to communicate the level of risk rating. They are defined in defined in the Risk Matrix below as a combination of Likelihood and Consequences:

ISA RISK MATRIX

Likelihood of Failure & Impact	Consequences of the Tree Failure			
	Negligible	Minor	Significant	Severe
Very Likely	Low	Moderate	High	Extreme
Likely	Low	Moderate	High	High
Somewhat likely	Low	Low	Moderate	Moderate
Unlikely	Low	Low	Low	Low

Overall tree risk rating is the highest individual risk identified for the tree. The *residual risk* is the level of risk the tree should pose after the recommended mitigation.

Bartlett Tree Experts can inventory trees that have ropes courses, zip lines, swings, tree houses, or any other life support system attached for several different attributes; however, Bartlett Tree Experts is unable to provide tree risk assessment information on such trees, nor is Bartlett Tree Experts able to determine whether the correct hardware has been used, the systems are attached to the trees correctly, or whether the trees can withstand the additional forces that are placed on the tree or trees from such systems or structures. Bartlett Tree Experts does not recommend that any hardware or structures, other than those recommended by and installed by qualified arborists to aid the tree in structural support or protections from lightning, be installed in or attached to any tree(s). Bartlett Tree Experts recommends removing, or discontinuing the use of, any such system or recreational structure until the Client hires or consults with an engineer/specialist that deals specifically with ropes courses, zip lines, swings, tree houses, or any other life support systems and how they attach to and impact trees to determine if the trees can handle the forces being placed on them.

In the event that Bartlett Tree Experts observes an immediate safety issue with a tree with any such device attached, such as the presence of a dead, dying, or broken limb that could fall and injure a person or damage property, Bartlett Tree Experts may make a recommendation to remove or prune such a limb or otherwise mitigate the obvious safety issue. However, the Client should not infer that following such a recommendation and mitigating the immediate safety issue makes the tree in question safe for the use of the attached device or feature.

TREE RISK ASSESSMENTS AND MITIGATION

TREE RISK ASSESSMENTS AND MITIGATION

In reviewing the results and recommendations, the reader will find useful the specifications and definitions detailed in the preceding methodology. We used the following categories to organize the results and recommendations, which are displayed in tables:

- **Subject Trees Summarized According to:**
  - Tree Risk Assessment Results and Mitigation Recommendations
  - *Level 3 Advanced Assessment* Recommendations

Tree Risk Assessments and Mitigation

As part of the inventory process, the Inventory Team conducts a *Level 2 Basic assessment* from the ground. While every tree poses a risk, typically low, any trees that were found to have conditions that posed a hazardous situation, prompting the arborists to go through the steps outlined in the Tree Risk Assessments, Limitations, and Glossary section of this plan. *Overall Tree Risk Ratings* are then assigned to these trees.

During the *Level 2 Basic assessment* the Regional Inventory Arborist can determine whether some aspect of tree structure or health indicates that a more comprehensive tree structure evaluation, called a *Level 3 Advanced assessment*, is needed to more thoroughly evaluate tree condition and *likelihood of failure*.

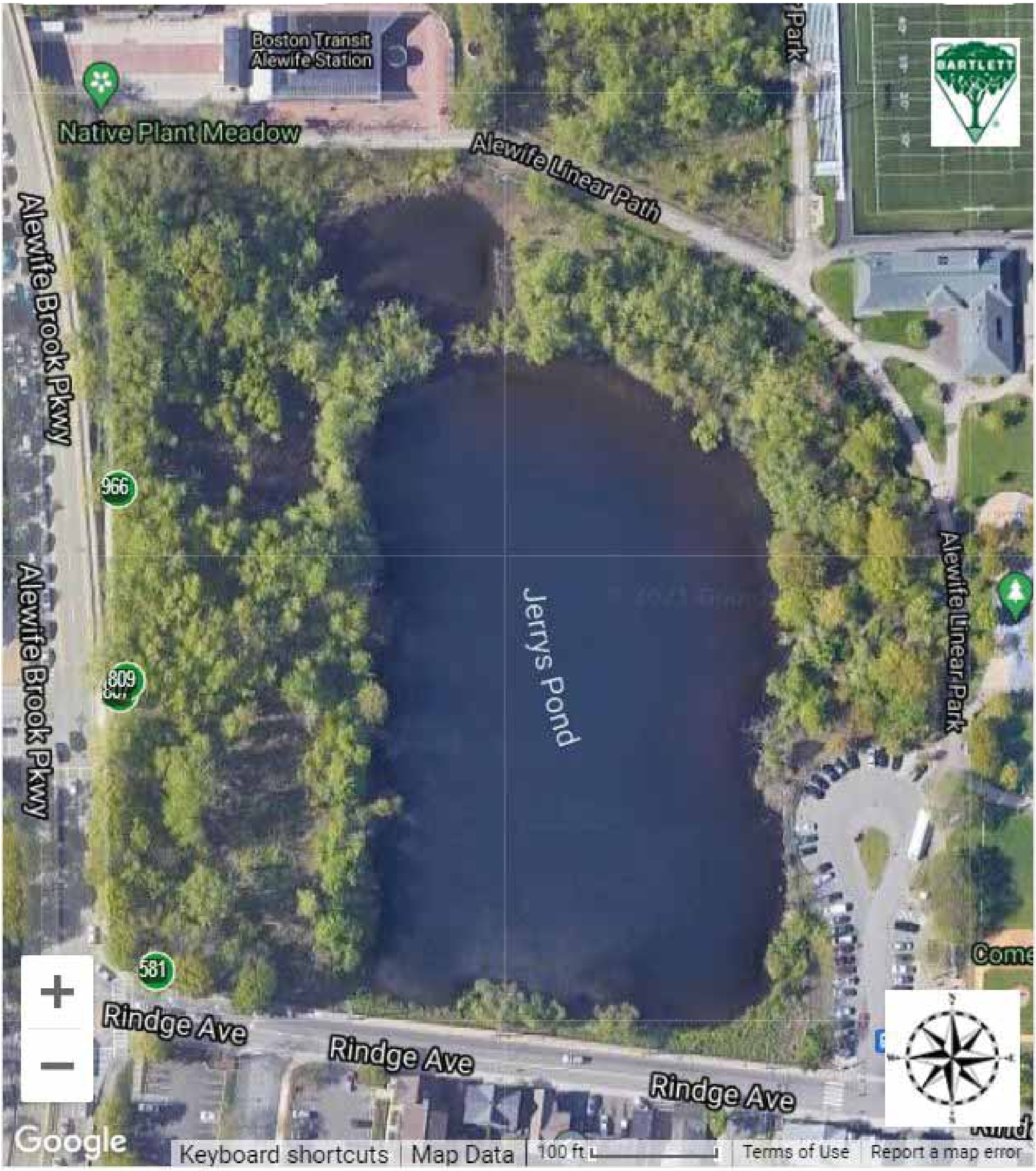
In such cases, we may recommend *Level 3 Advanced assessments* of the roots, stem, or crown. These assessments may include climbing inspections, examination of the root system using a compressed-air tool (that avoids damage to roots and underground utilities), resistance-recording drilling, or sonic tomography that produces a visual representation of internal conditions based on how sound moved through the tree. The goal is to use the appropriate method to evaluate impact of wood decay in stems and buttress roots that show potential for failure and to determine presence and condition of the root system. Once those *Level 3 Advanced assessments* are completed, more specific recommendations can be made, such as remediation, maintenance, or removal.

The Tree Risk Table below summarizes the inventoried trees that were observed posing a hazardous situation during the course of the inventory, including those trees recommended for *Level 3 Advanced assessments*. The table is organized first by *Overall Tree Risk Rating* (highest to lowest), then by Tree & Shrub Work Phase (ascending order), and finally by Tree ID (ascending order).

TREE RISK ASSESSMENTS AND MITIGATION (4 Trees)

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Primary Target	Tree & Shrub Work Phase	Recommendation	Defect(s) or Observation(s)
581	Oak-Northern Red	19	Poor	Low	Street	ASAP	• Removal	• Dead branches >2 • Decay-stem • Dieback (moderate)
807	Poplar-Eastern	10	Fair	Low	Sidewalk	1	• Prune: Reduce risk of branch stem and/or root failure	• Buried root collar • Dead branches >2 • Growing against object • Uneven crown
809	Poplar-Eastern	15	Fair	Low	Sidewalk	1	• Prune: Reduce risk of branch stem and/or root failure • RCX	• Buried root collar • Dead branches >2 • Poor branch structure • Uneven crown
966	Poplar-Eastern	17	Good	Low	Sidewalk	1	• Prune: Reduce risk of branch stem and/or root failure	• Co-dominant stems • Dead branches >2 • Poor branch structure

INVENTORIED TREES ASSIGNED *OVERALL TREE RISK RATINGS* AT THE TIME OF DATA COLLECTION



Overall Tree Risk Rating: Low

STAND DYNAMICS RESULTS

BARTLETT
TREE EXPERTS
SCIENTIFIC TREE CARE SINCE 1907

STAND DYNAMICS RESULTS

In reviewing the results and recommendations, the reader will find useful the specifications and definitions detailed in the preceding methodology above. We used the following categories to organize the stand dynamics results, which are displayed in tables:

- **Subject Trees Summarized According to:**
  - Tree Species Identified
  - Condition Class
  - Age Class
  - Tree Size per DBH
  - Estimated Tree Asset Value

Where appropriate, we have included explanations, photos, drawings, or other information to illuminate the table contents.

Stand Dynamics

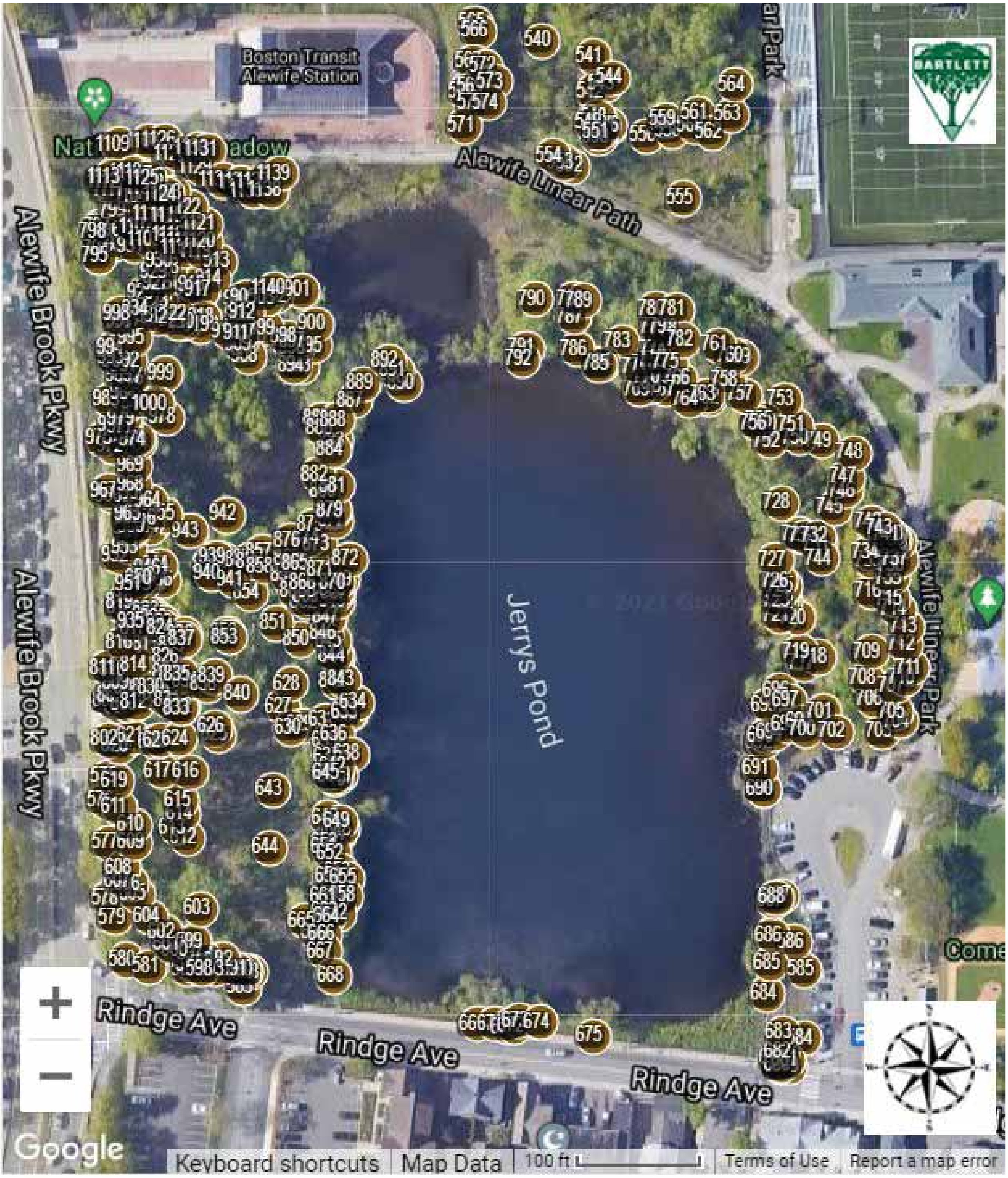
Tree Species Identified

Our inventory revealed 27 species of trees, as detailed in the following table:

TREE SPECIES IDENTIFIED

Genus	Species	Common Name	Count	% Distribution Total
Acer	*negundo*	Maple-Boxelder	4	1%
	platanoides	Maple-Norway	30	6%
	rubrum	Maple-Red	8	2%
***Acer* Total**			**42**	**8%**
Ailanthus	*altissima*	Tree of Heaven	44	9%
Betula	*papyrifera*	Birch-Paper	6	1%
Celtis	*occidentalis*	Hackberry	2	< 1%
Fraxinus	*pennsylvanica*	Ash-Green	4	1%
Gleditsia	*triacanthos*	Honeylocust-Common	2	< 1%
Juniperus	*virginiana*	Juniper-Eastern Redcedar	2	< 1%
Malus	sp.	Crabapple	4	1%
Metasequoia	*glyptostroboides*	Dawn Redwood	1	< 1%
Morus	*rubra*	Mulberry-Red	9	2%
Pinus	*strobus*	Pine-Eastern White	6	1%
Platanus	x *acerifolia*	Planetree-London	4	1%
Populus	*deltoides*	Poplar-Eastern	182	36%
	tremuloides	Poplar-Aspen	40	8%
***Populus* Total**			**222**	**44%**
Prunus	*serotina*	Cherry-Black	6	1%
	serrulata	Cherry-Flowering	6	1%
***Prunus* Total**			**12**	**2%**
Pyrus	*calleryana*	Pear-Callery	1	< 1%
Quercus	*palustris*	Oak-Pin	28	6%
	rubra	Oak-Northern Red	16	3%
***Quercus* Total**			**44**	**9%**
Robinia	*pseudoacacia*	Locust-Black	44	9%
Salix	*discolor*	Willow-Pussy	1	< 1%
	sp.	Willow	6	1%
***Salix* Total**			**7**	**1%**
Tilia	*cordata*	Linden-Littleleaf	7	1%
Ulmus	*americana*	Elm-American	3	1%
	rubra	Elm-Slippery	35	7%
***Ulmus* Total**			**38**	**8%**
Grand Total			**501**	**100%**

2021 TREE INVENTORY

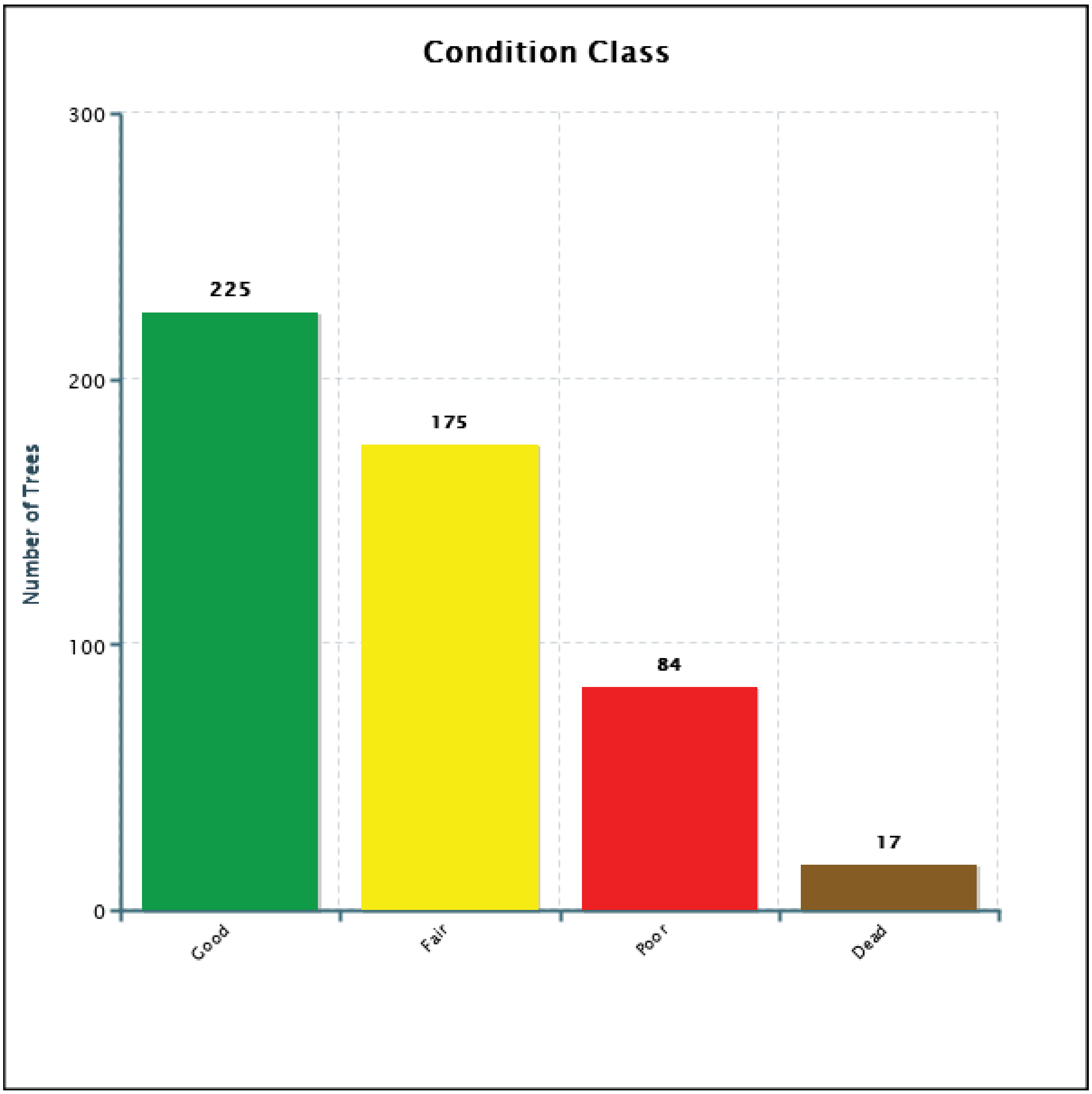


Condition Class

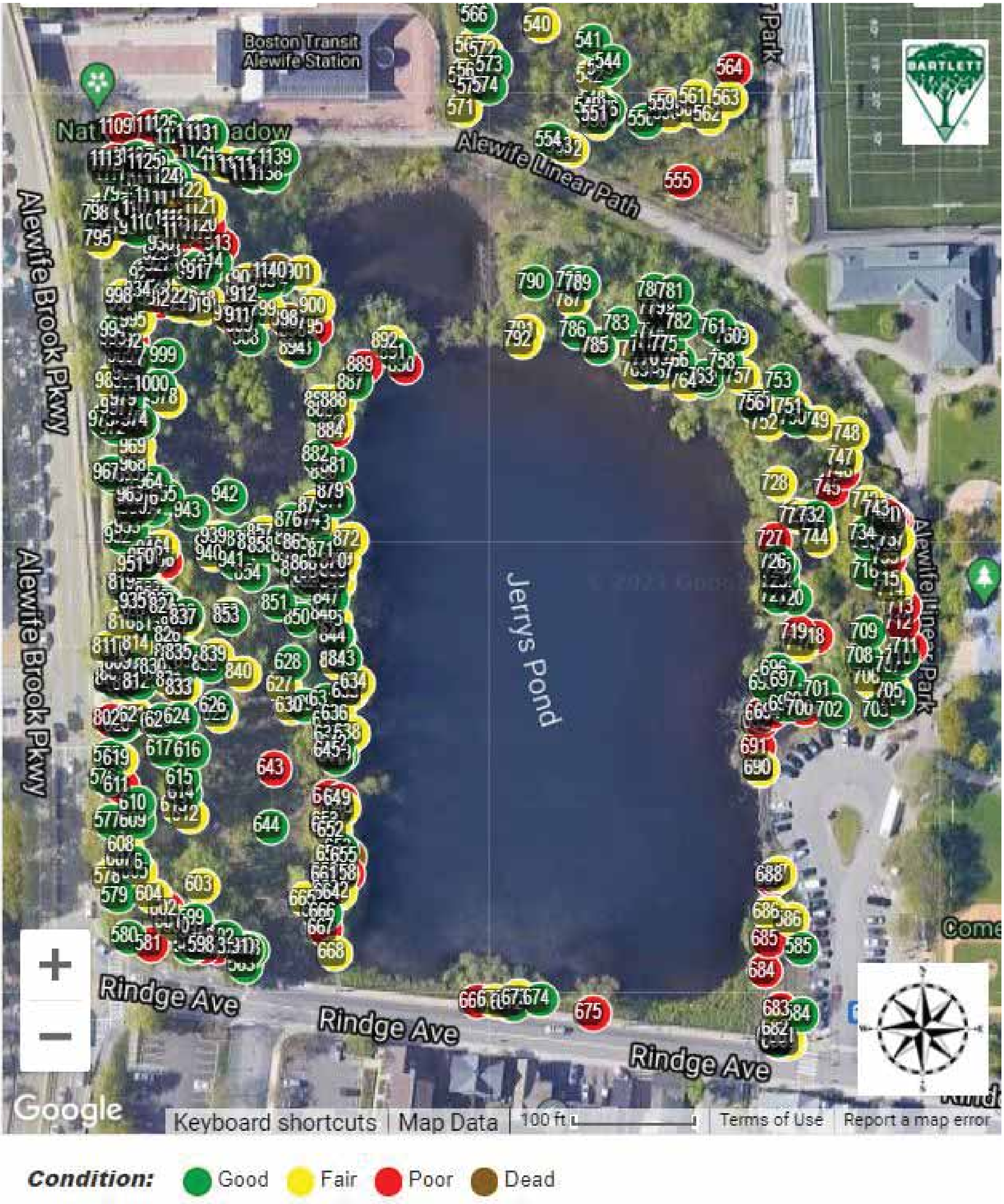
The breakdown of tree condition follows:

CONDITION CLASS BREAKDOWN

Condition Class	Quantity	% of Total
Good	225	45%
Fair	175	35%
Poor	84	17%
Dead	17	3%



INVENTORIED TREES BY CONDITION CLASS

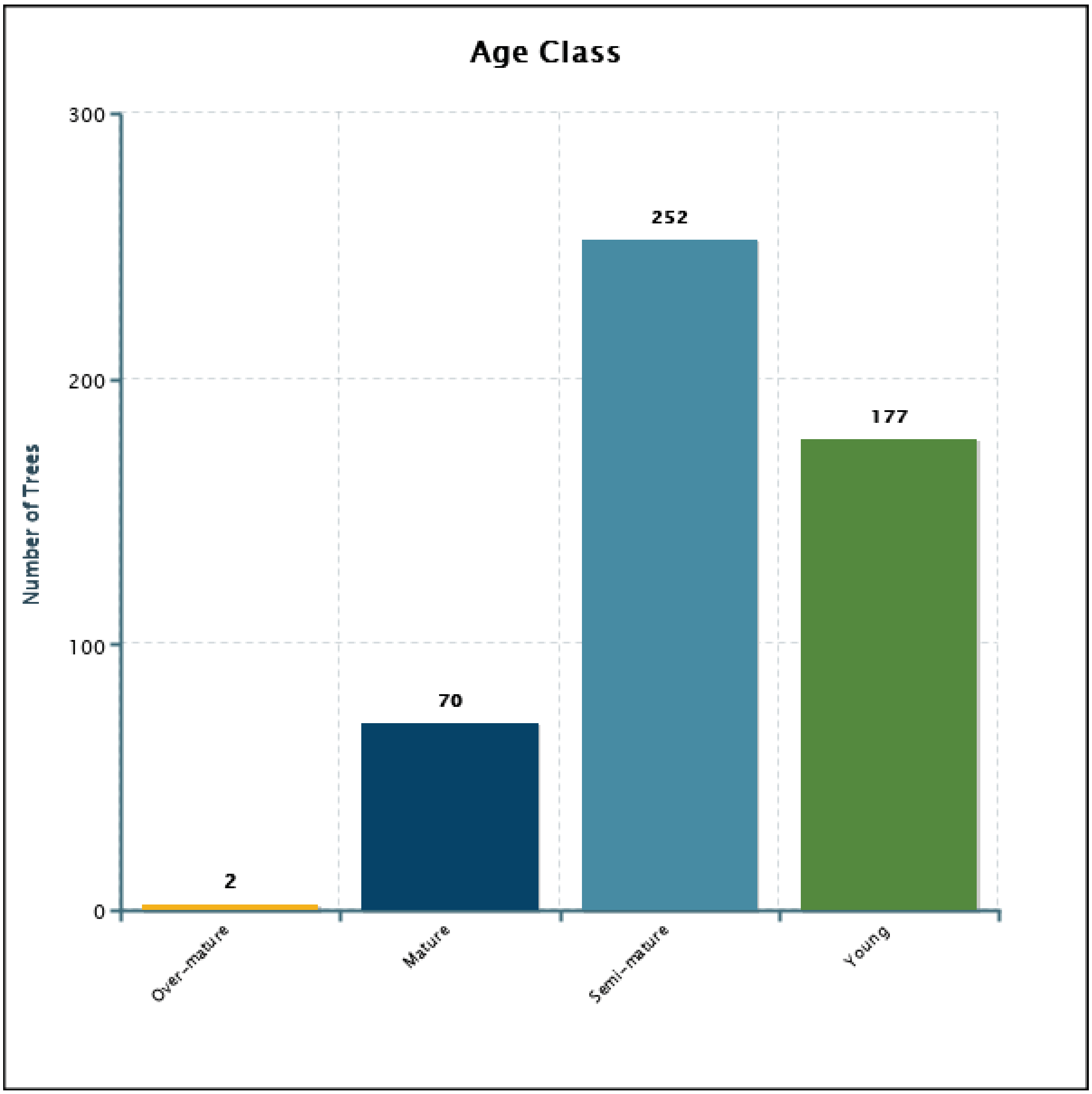


Age Class

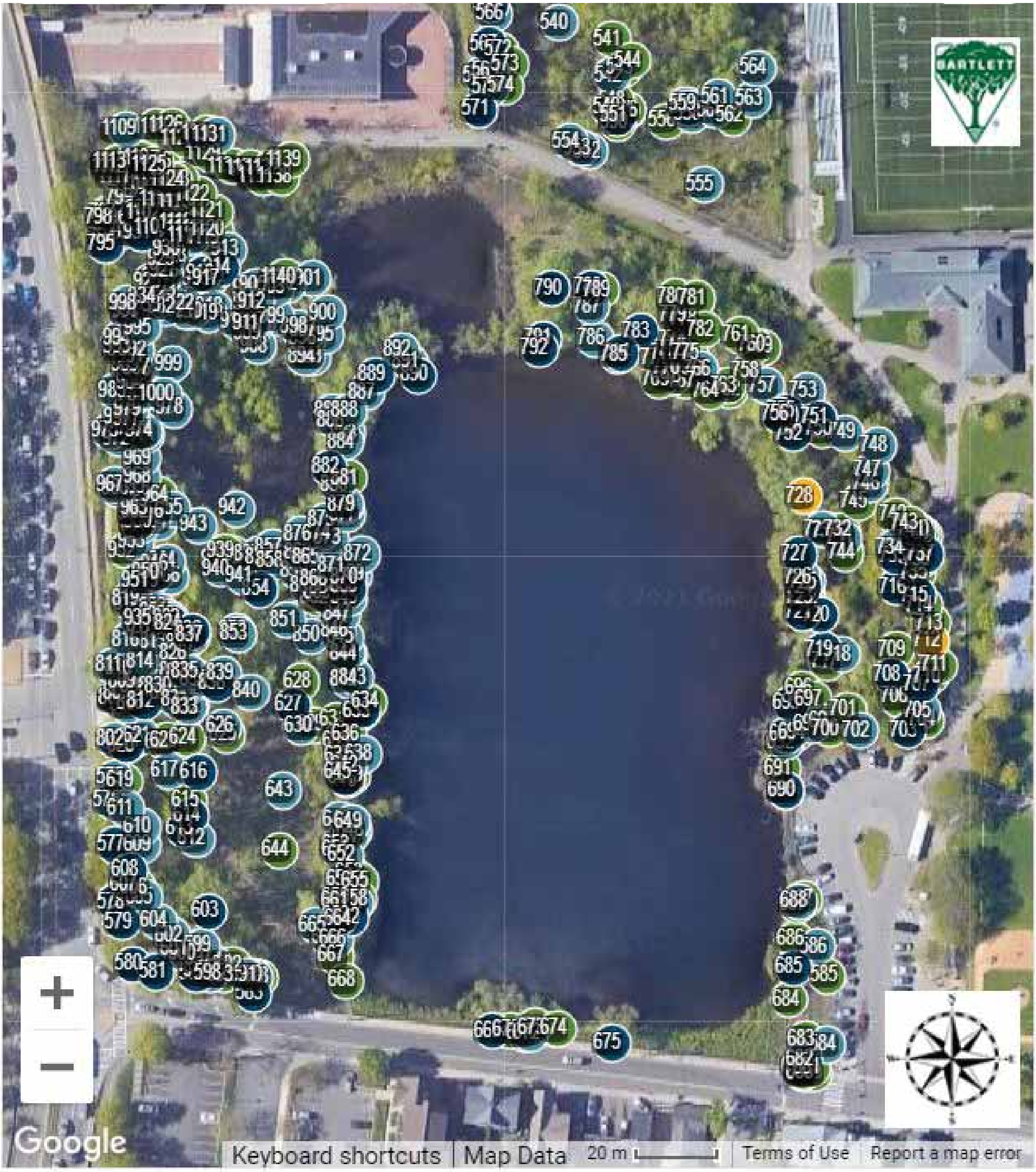
The breakdown of tree age class follows:

AGE CLASS BREAKDOWN

Age Class	Quantity	% of Total
Over-mature	2	< 1%
Mature	70	14%
Semi-mature	252	50%
Young	177	35%



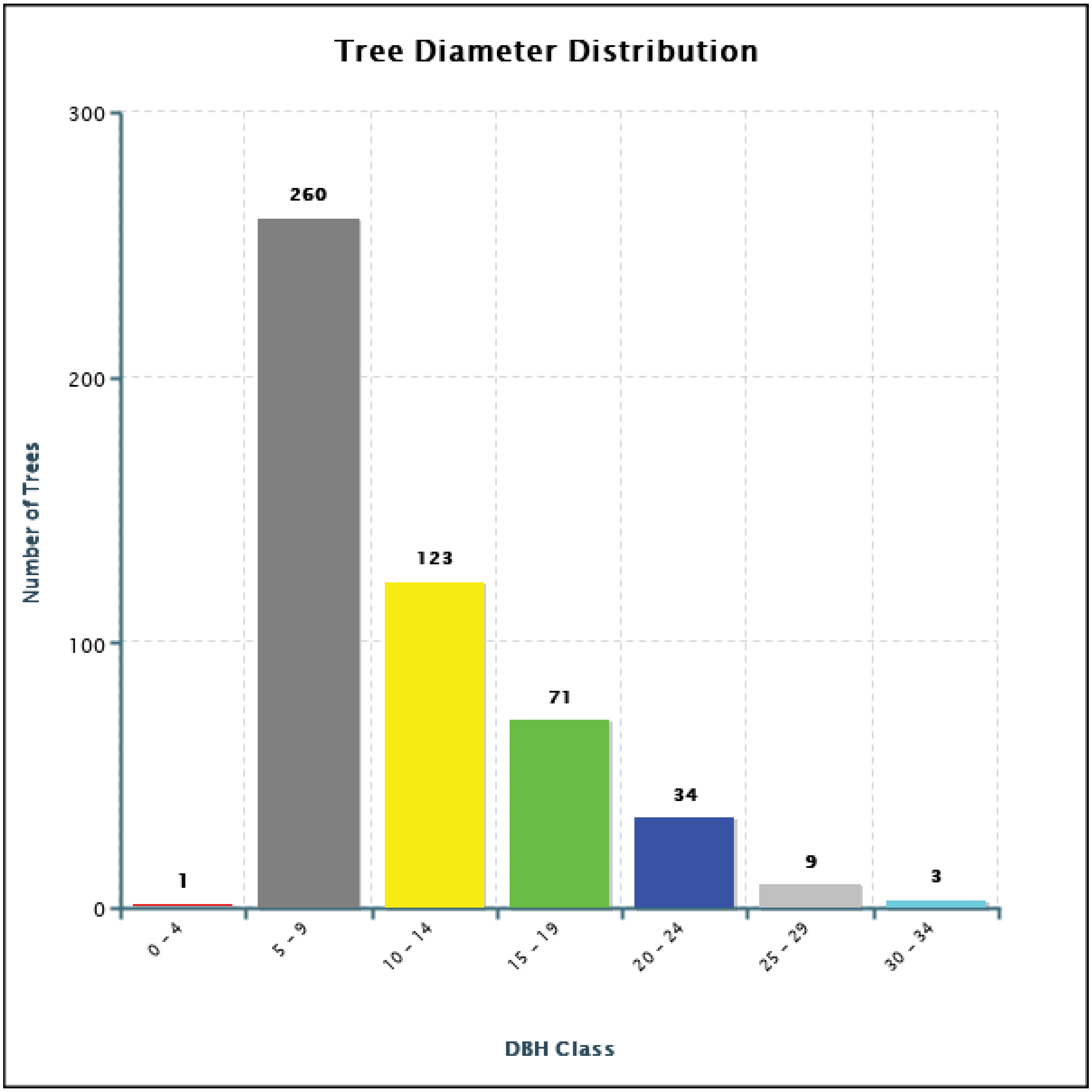
INVENTORIED TREES BY AGE CLASS



Age: Young Semi-mature Mature Over-mature

Tree Size (DBH)

The following chart illustrates numbers of trees according to size per DBH:



Estimated Tree Asset Value

As part of the Bartlett inventory process, we have included an Estimated Tree Asset Value for each tree and a cumulative total for all trees inventoried. We use an average per square inch nursery price, size (DBH), species factor, condition factor, and location factor to estimate the tree asset value. This is not intended to replace a tree appraisal.

The following data fields are used in this formula:

Data Field	Description
Average Per Square Inch Nursery Price	Based on the average nursery prices for two common tree species and one exotic tree species within a region, then taking the average of those three as the average per square inch price for the region
Size	Based on tree DBH (4.5 feet above grade)
Species Factor	Relative species desirability based on 100% for the tree in that geographical location. In most cases, species desirability ratings, published by the International Society of Arboriculture, are used for adjustment.
Condition Factor	Rating of the tree's structure and health based on 100%
Location Factor	Average rating for the site and the tree's contribution and placement, based on 100%

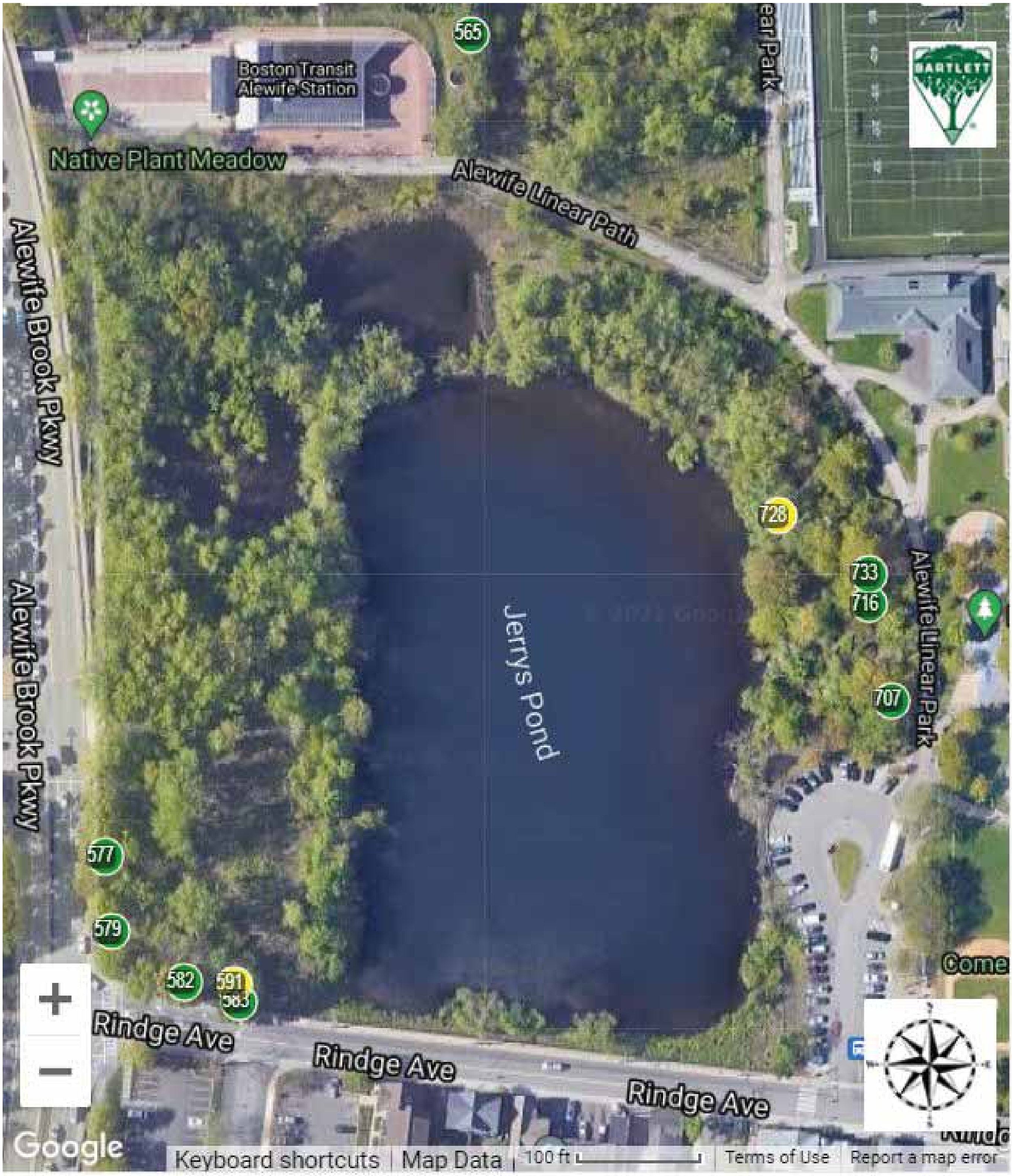
Estimated Tree Asset Value = (Average Per Square Inch Nursery Price*Size)*Species Factor*Condition Factor*Location Factor

The estimated cumulative total value for all trees inventoried is **$959,750.67**. The following table lists the ten trees with the highest Tree Asset Values:

TOP TEN TREES - HIGHEST ESTIMATED TREE ASSET VALUE

Tree ID	Common Name	Genus	Species	DBH	Tree Asset Value
728	Willow	*Salix*	sp.	31,26,25,18,16,16	$47,371.44
583	Oak-Northern Red	*Quercus*	*rubra*	22	$14,148.97
579	Oak-Northern Red	*Quercus*	*rubra*	22	$14,148.97
707	Oak-Pin	*Quercus*	*palustris*	22	$12,659.60
733	Oak-Pin	*Quercus*	*palustris*	22	$12,659.60
577	Oak-Northern Red	*Quercus*	*rubra*	20	$11,693.36
582	Oak-Northern Red	*Quercus*	*rubra*	20	$11,693.36
716	Oak-Pin	*Quercus*	*palustris*	21	$11,534.88
591	Tree of Heaven	*Ailanthus*	*altissima*	12,104	$10,961.50
565	Pine-Eastern White	*Pinus*	*strobus*	20	$10,462.48

TOP TEN TREES - HIGHEST TREE ASSET VALUE



RECOMMENDATIONS

RECOMMENDATIONS

In reviewing the results and recommendations, the reader will find useful the specifications and definitions detailed in the preceding methodology. We used the following categories to organize the results and recommendations, which are displayed in tables:

Recommendations

- Soil Care
- Root Collar Excavation
- Plant Health Care
- Tree Pruning
- Structural Support Systems
- Lightning Protection Systems
- Tree Removal
- Vine Removal

Soil Care

Healthy soil is critical to the health and longevity of trees. Soil provides trees with the essential nutrients required for their growth. Many secondary problems such as reduced vigor, inadequate growth, branch dieback, and pest or disease concerns are related to the primary stress of poor soil conditions. Undisturbed, native forest soils generally contain adequate levels of organic matter, soil microbes, and nutrients. Urban, suburban, and landscape soils (as opposed to forest soils) usually lack these qualities, and are often compacted. In many cases, trees in a landscaped environment suffer from inadequate soil fertility, soil compaction, root zone competition with turf grasses, and inadequate total soil volume. Soil Care treatments should be applied as soon as possible, therefore they do not have a Tree & Shrub Work phase.

Bartlett Tree Experts recommends several procedures and treatments that address soil quality. Taking soil samples is perhaps the most important. Proper tree care cannot be initiated unless it is known what type of soil environment the trees are growing in. Soil testing results can help to create a path forward for improved tree health. We address some of these below.

Soil Sampling

Collecting soil samples and having them tested helps determine nutrients that may be lacking, unfavorable soil pH values, and adequacy of soil organic matter. Laboratory tests and analyses can determine the need for soil amendments.

Bulk Density

Compacted soils are regrettably common in the urban setting. A bulk density test, which requires an undisturbed core sample, measures the level of soil compaction. Arborists can use the results to diagnose problems or to determine what size holes to dig for planting. If soil density exceeds a measured threshold for a given soil type and tree species, we recommend Bartlett's Root Invigoration™ program.

Soil Rx®

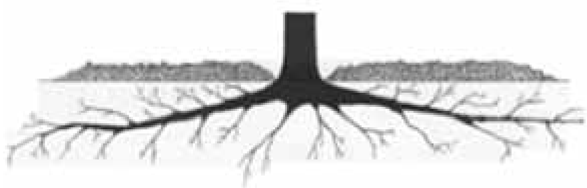
Bartlett's Soil Rx® program, which is a prescription soil amendment program, aims to correct nutrient deficiencies and optimize soil conditions for designated trees.

Root Invigoration™

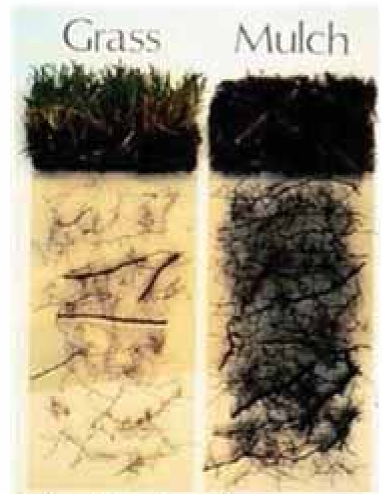
The aim of Bartlett's patented Root Invigoration™ Program is to improve soil conditions by addressing soil compaction and promoting efficient root growth, especially for high-value trees in disturbed areas. The process includes taking soil samples to determine what nutrients are deficient, performing a root collar excavation, "air-tilling" a portion of the root zone to find fine roots, incorporating organic matter, applying soil amendments (based on soil sample), and applying mulch. The area of the root system treated can vary by tree. For the Root Invigoration™ Program to be successful, proper watering techniques must be employed after the process is complete.

Mulch Application

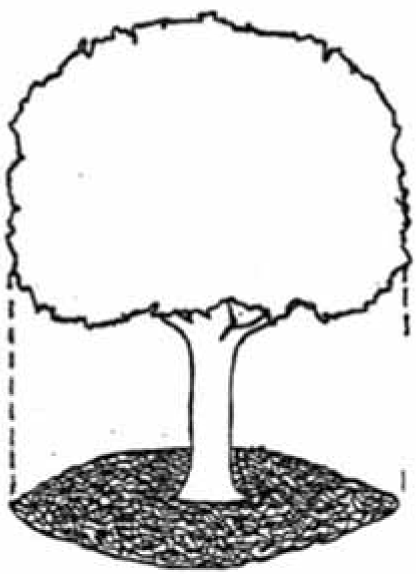
Proper mulching (top left and bottom left) provides many benefits to trees and shrubs. It moderates soil temperatures, reduces soil moisture loss, reduces soil compaction, provides nutrients, and improves soil structure. This practice results in more root growth and healthier plants. The image on the top right illustrates root growth density under grass versus mulch. Mulch is frequently applied incorrectly (bottom right), so we recommend that readers inspect the technical report on mulch application guidelines that appears in the Appendix.



Example of how mulch should be installed, 2-4 inches thick and not against the trunk.



Example of root density under grass versus mulch.



Example of how mulch should be applied from the trunk to the dripline.

Example of improper mulch application, known as "volcano mulch".

At the time of inventory, no trees were directly recommended for soil care. However, we recommend soil sampling across maintained areas with prominent landscape plantings to identify opportunities to optimize soil conditions moving forward.

Root Collar Excavation

Excavating the root collar is necessary for trees whose buttress roots are covered by excess soil or mulch. Buried root collars can contribute to tree health problems, including girdling roots, basal cankers, and masking root and lower stem decay. Trees in the root collar excavation table do not have a Tree & Shrub Work phase and should be completed as soon as possible. The top image shows a buried root collar and the bottom image shows an exposed root collar.

Example of a buried root collar.

Example of an exposed root collar.

Girdling Roots

Girdling roots (top left and right) restrict water and nutrient movement throughout the tree. If left untreated they can cause the tree to decline, fail (bottom), and eventually die in severe cases. Girdling roots should be removed as soon as possible, unless removal of roots will significantly impact the condition or stability of the tree. In some cases, the presence of significant or severe girdling roots may cause the tree to be recommended for removal.

Examples of girdling roots.

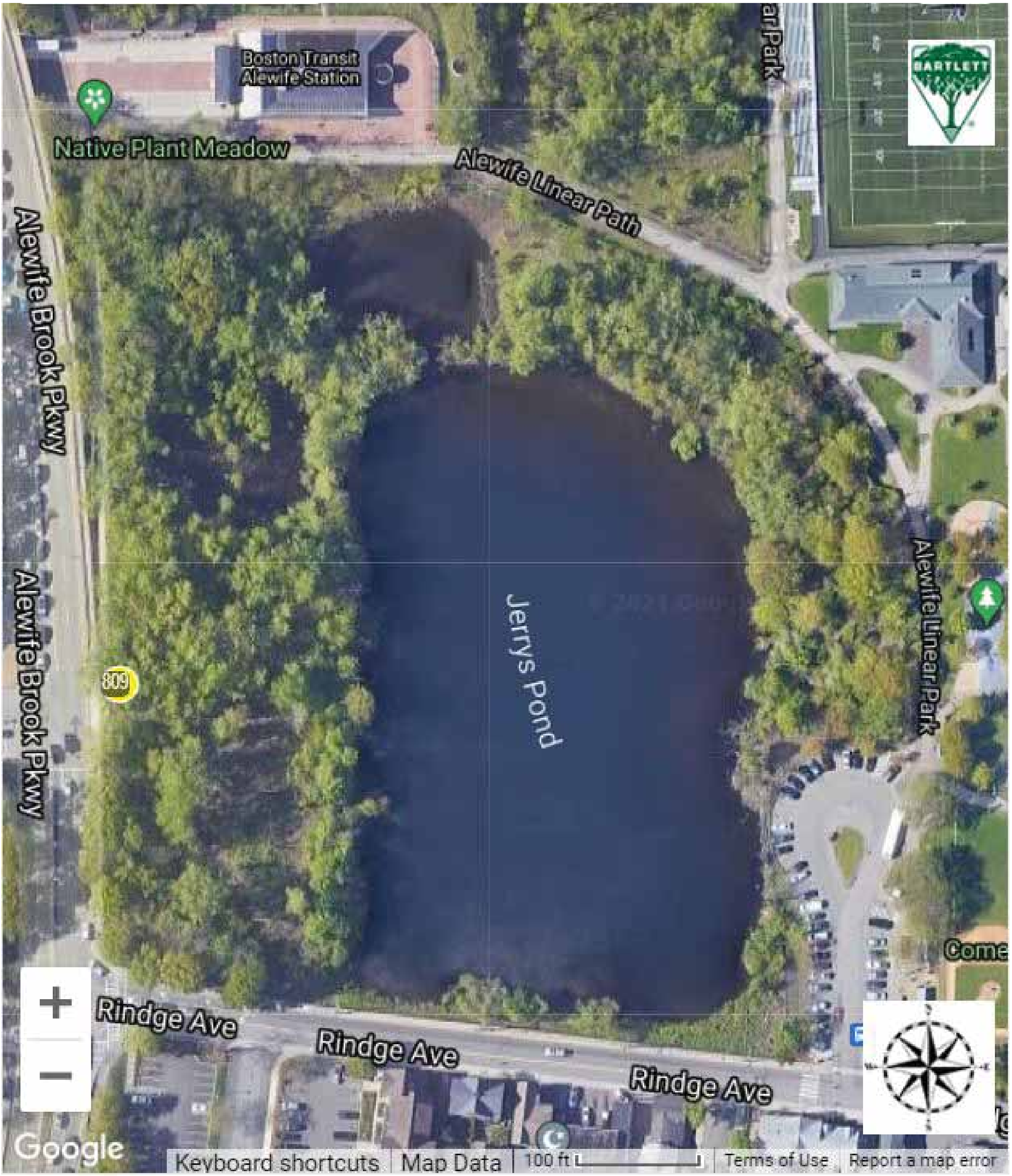
Example of tree failure from girdling roots.

The following tree is recommended for a root collar excavation:

INVENTORIED TREE RECOMMENDED FOR A ROOT COLLAR EXCAVATION (1 Tree)

Tree ID	Common Name	DBH	*Overall Tree Risk Rating*	Root Collar Observation
809	Poplar-Eastern	15	Low	• Buried root collar

INVENTORIED TREES RECOMMENDED FOR A ROOT COLLAR EXCAVATION



Plant Health Care

The Inventory Team also recommends Plant Health Care (PHC) programs for trees in the formal landscape. In addition, an Integrated Pest Management (IPM) program monitors for potentially damaging insects, diseases and cultural problems that are often seasonal and may not have been evident during our inventory visit. Plant Health Care treatments should be applied as soon as possible, therefore they do not have a Tree & Shrub Work phase. These pests and diseases include, but are not limited to, the following:

- Anthracnose - on a variety of species
- Aphids - on a variety of species
- Bacterial Leaf Scorch - on trees within red oak group
- Bagworms - on a variety of tree species
- Boring Insects - on a variety of tree species
- Caterpillar Defoliators - on a variety of tree species, especially oak
- Gall Insects - on a variety of species
- Lacebugs - on a variety of species
- Scab and Rust Fungi - on crabapple and apple species.
- Suspected Phytophthora Root Rot and Canker - on a variety of tree species, especially beech species
- Scale Insects - on a variety of tree species, especially oak
- Spider Mites - on a variety of tree species

At the time of inventory, no pests or diseases were observed on the subject trees. However, we recommend implementing Bartlett's PHC program to monitor pests and disease that may not have been visible at the time of inventory. Treatments are therapeutic and preventative, and treatment timing is based on pest life cycle.

Tree Pruning

A commonly offered service among tree companies, pruning trees is one of the most poorly executed practices by tree workers who lack training in the basics of tree biology. "Lion's tailing," topping, and flush cuts are a few examples, and these can lead to hazardous conditions over time.

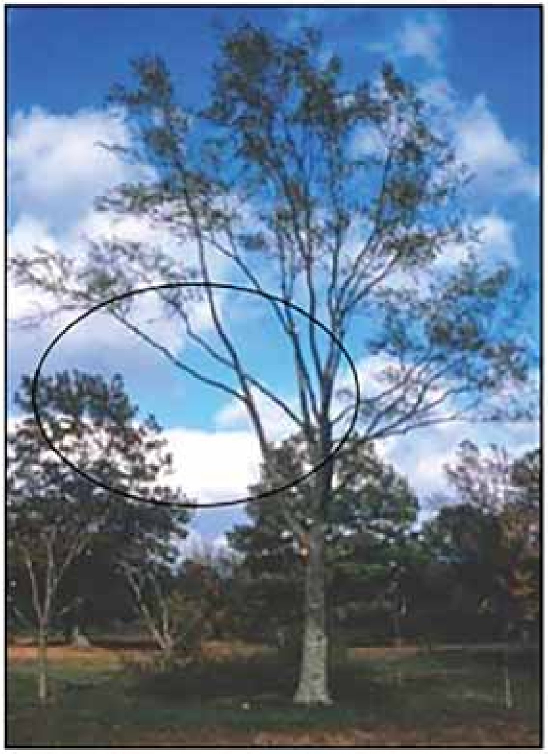
Because this practice is so misunderstood, and because specific standards exist to perform pruning correctly, the Inventory Team decided to include some explanation in the main body of this management plan.

Tree owners and tree-care practitioners should always keep in mind that any pruning cut is a wound. Informed tree-care professionals have learned to manage that wounding to preserve the health, safety, and integrity of the tree.

Improper Pruning Practices

A few of the most common pruning abuses are:

- Lion's Tailing - pruning that removes interior branches along the stem and scaffold branches. This encourages poor branch taper, poor wind load distribution, and risk of branch failure. It also deprives the tree of foliage it needs to produce **photosynthates**. See next page, top left.
- Topping - pruning cuts that reduce a tree's size by using heading cuts that shorten branches to a predetermined size. Topping substantially reduces the functional benefits a tree is capable of providing and predisposes trees to structural defects that can contribute to failures in the future. It also reduces the value of the trees substantially and deprives the tree of adequate foliage. See next page, top right.
- Flush Cuts - pruning cut through the **branch collar**, flush against the trunk or parent stem, causing unnecessary injury. See next page, bottom.
- Using Climbing Spikes Inappropriately - Using climbing spikes on a healthy tree, for example, wounds healthy stem tissues and can lead to infection by fungal pathogens.



Example of Lion's tailing.

Examples of topping.

Examples of flush cuts.

Pruning with a Goal

Below are illustrations of common pruning goals:

Illustration of improving airflow to reduce disease.

Illustration of branch weight reduction.

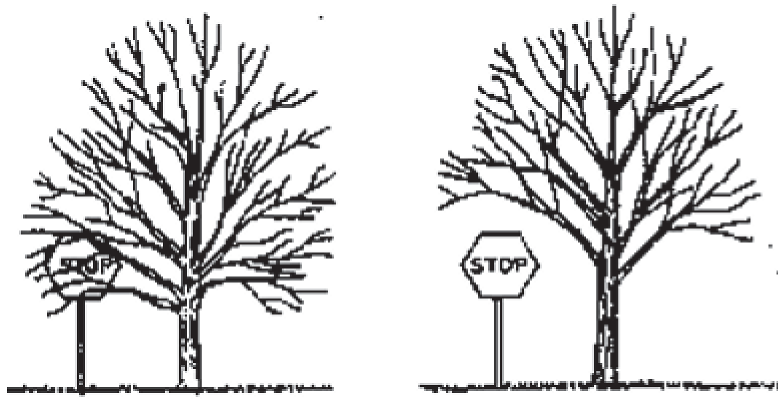


Illustration of raising branch elevation to improve clearance.

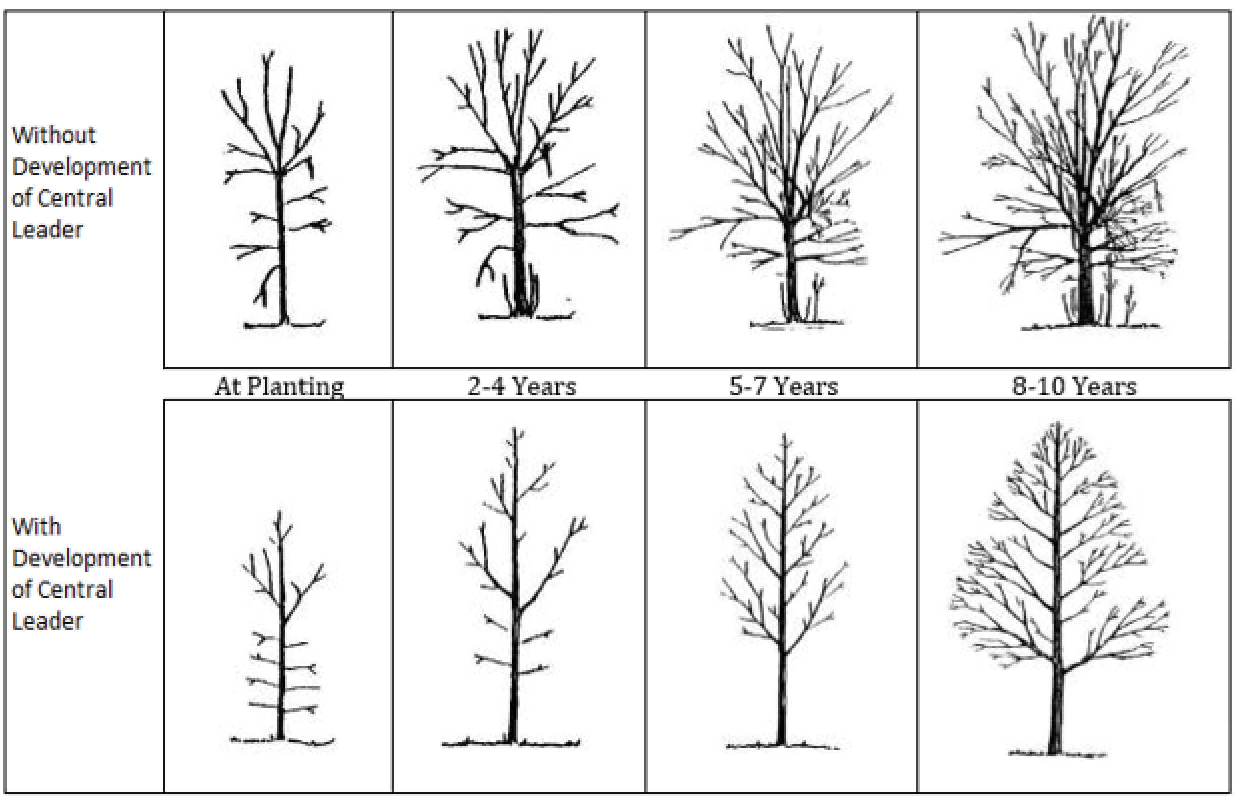


Illustration of promoting a strong central leader.

Pruning Category

All trees identified in this management plan that have pruning recommendations are listed with a specific pruning category. The listed order of these pruning categories are typical to most managers. Trees within each category are prioritized by the specific goals of most managers. It is recommended that specific goals be discussed with your local Bartlett Arborist Representative. Pruning categories are separated into individual tables below where each table lists specific arboricultural pruning goals and recommendations for each tree.

Risk Mitigation Pruning

Any tree identified with a Risk Mitigation Pruning category to reduce the *Overall Tree Risk Rating*, was previously summarized in the Tree Risk Assessments and Mitigation section earlier in the document.

Maintenance Pruning

This goal typically requires routine pruning of large/mature trees. Includes branch removal and/or branch reduction to help reduce *likelihood of failure* and/or conflict with infrastructure. Trees with these goals are typically climbed or require the use of aerial lifts and/or other specialized equipment.

At the time of inventory, no trees were recommended for maintenance pruning. However, we recommend close monitoring of trees for changes in condition, especially after weather events not considered normal for the area.

Developmental Pruning

This goal typically requires routine pruning of small/young trees. Includes structural pruning to develop a strong central stem, establish proper branch spacing, and/or develop branch structure.

At the time of inventory, no trees were recommended for developmental pruning. However, we recommend close monitoring of trees for changes in condition, especially after weather events not considered normal for the area.

Ornamental Pruning

This goal typically requires pruning of small trees. Includes reduction and/or shearing to its desired shape, size, and/or structure.

At the time of inventory, no trees were recommended for ornamental pruning. However, we recommend close monitoring of trees for changes in condition, especially after weather events not considered normal for the area.

Specialized Pruning

Trees with this goal require a unique treatment that may include, but not limited to, targeted pruning cuts, removal of nuisance fruit/parasitic plants, and/or rejuvenation/internodal pruning.

At the time of inventory, no trees were recommended for specialized pruning. However, we recommend close monitoring of trees for changes in condition, especially after weather events not considered normal for the area.

Structural Support Systems

Structural support systems can reduce risk of tree or tree part(s) failure by limiting movement of stems or branches in certain situations. Examples include co-dominant stems or overextended branches with heavy foliage loads.

Cabling

Cabling is the process of connecting two or more upright stems to one another to add stability and reduce the *likelihood of failure*. In some instances, a lateral branch may be secured to the central leader using a cabling system to support the weight of the branch.

Bracing

Bracing is the process of securing the union of two co-dominant stems using high strength steel rods to alleviate stresses at the union and reduce the *likelihood of failure*. Bracing may also be used to reinforce trees that have a partial failure and are likely to benefit from bracing.

Guying

Guying is the process of anchoring a tree's stem to the ground or another immovable object to reduce the likelihood of root failure. Guying can be temporary or permanent and is most often used for establishing a tree in the landscape.

Propping

Propping is the process of using rigid structures that are built on or into the ground to help support the trunk or branch(s) that are oriented near the ground in a horizontal position to reduce the *likelihood of failure* from the weight or defect of the tree part being supported.

At the time of inventory, no trees were recommended for structural support. However, as trees continue to grow and site changes occur, we recommend continual consultation with your local Bartlett Arborist Representative to determine if structural support systems are warranted in the future.

Lightning Protection Systems

Lightning strikes kill many people each year and can cause significant damage to objects on the property. Lightning protection systems are designed to provide a preferred path for lightning to the ground in a manner that minimizes tree damage; adjacent tree damage; and also to buildings, property, animals, and people near the tree. Tree species that are naturally more susceptible to lightning strikes, valuable to the landscape, and trees that are within 10 feet of, taller than, or have limbs that are extending over a structure are recommended for lightning protection systems due to the possibility of damage, "sideflashes", and step voltage.

At the time of inventory, no trees were recommended for lightning protection systems. However, as trees continue to grow and site changes occur, we recommend continual consultation with your local Bartlett Arborist Representative to determine if lightning protection systems are warranted in the future.

Tree Removal

In some cases, the inspector may determine need for removal while assessing the tree. Trees may be recommended for removal during the inventory for several reasons:

- The tree is dead;
- The tree is in poor condition and thought to be beyond rehabilitation;
- The tree is over-mature and will continue to decline in condition;
- The tree has significant structural weaknesses that cannot be addressed;
- The tree is already or will interfere with infrastructure (overhead lines for example);
- The location value for the tree is poor or unacceptable (for example, large maturing tree growing directly under overhead lines); and/or,
- The tree species has been declared an invasive for the given area or region.

The trees listed in the table below are recommended for removal:

INVENTORIED TREES RECOMMENDED FOR REMOVAL (40 Trees)

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Tree & Shrub Work Phase	Defect(s) or Observation(s)
581	Oak-Northern Red	19	Poor	Low	ASAP	• Dead branches >2 • Decay-stem • Dieback (moderate)
568	Pine-Eastern White	14	Dead	...	ASAP	...
570	Pine-Eastern White	17	Dead	...	ASAP	...
555	Maple-Boxelder	6	Poor	...	1	• Co-dominant stems • Dead branches >2 • Included bark • Poor branch structure
564	Maple-Boxelder	8	Poor	...	1	• Co-dominant stems • Dead branches >2 • Included bark • Poor branch structure
594	Tree of Heaven	10	Poor	...	1	• Co-dominant stems • Storm damage

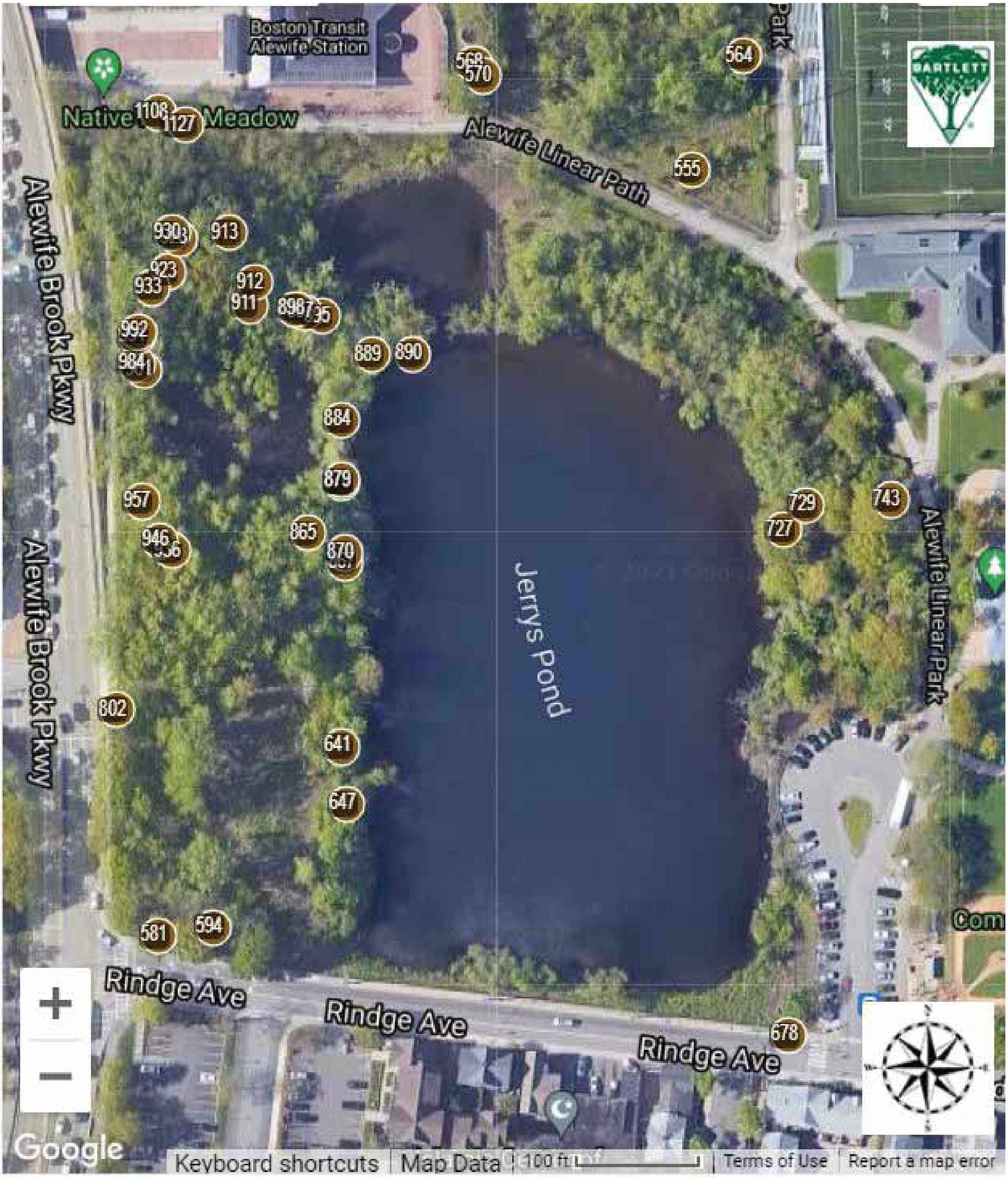
Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Tree & Shrub Work Phase	Defect(s) or Observation(s)
641	Tree of Heaven	21	Poor	...	1	• Dead branches >2 • Poor branch structure • Seam • Uneven crown
647	Tree of Heaven	14	Poor	...	1	• Co-dominant stems • Dead branches >2 • Decay-stem • Poor branch structure • Uneven crown
678	Tree of Heaven	8	Dead	...	1	...
727	Maple-Red	20	Poor	...	1	• Poor branch structure • Storm damage • Uneven crown
729	Crabapple	9	Dead	...	1	...
743	Cherry-Black	6	Dead	...	1	...
802	Poplar-Eastern	9	Poor	...	1	• Buried root collar • Dead branches >2 • Poor branch structure • Uneven crown
865	Poplar-Eastern	6	Poor	...	1	• Buried root collar • Low vigor • Poor branch structure • Uneven crown
867	Poplar-Eastern	28	Dead	...	1	• Dead branches >2 • Dead/dying stem
870	Elm-Slippery	7	Poor	...	1	• Dead branches >2 • Poor branch structure • Suppressed • Uneven crown
878	Elm-Slippery	8	Dead	...	1	• Dead branches >2 • Dead/dying stem
879	Elm-Slippery	8	Dead	...	1	• Dead branches >2 • Dead/dying stem

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Tree & Shrub Work Phase	Defect(s) or Observation(s)
884	Elm-Slippery	6	Poor	...	1	• Co-dominant stems • Growing against object • Included bark • Poor branch structure • Uneven crown
889	Elm-Slippery	32	Poor	...	1	• Co-dominant stems • Decay-root flare • Included bark • Poor branch structure • Wound-root flare
890	Poplar-Eastern	25	Poor	...	1	• Buried root collar • Co-dominant stems • Dead branches >2 • Included bark • Poor branch structure
895	Poplar-Eastern	9	Poor	...	1	• Buried root collar • Low vigor • Poor branch structure • Storm damage
897	Poplar-Eastern	8	Dead	...	1	• Dead branches >2 • Dead/dying stem • Storm damage
898	Poplar-Eastern	13	Dead	...	1	• Dead branches >2 • Dead/dying stem
911	Poplar-Aspen	7	Poor	...	1	• Dead branches >2 • Low vigor
912	Poplar-Aspen	7	Poor	...	1	• Dead branches >2 • Lean • Poor branch structure • Uneven crown
913	Locust-Black	10	Poor	...	1	• Dead branches >2 • Poor branch structure • Uneven crown

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Tree & Shrub Work Phase	Defect(s) or Observation(s)
923	Locust-Black	17	Poor	...	1	• Buried root collar • Dead branches >2 • Included bark • Poor branch structure
928	Maple-Norway	6	Dead	...	1	• Dead branches <=2 • Dead branches >2
930	Locust-Black	26	Poor	...	1	• Co-dominant stems • Crack-stem • Fungi/conks • Included bark • Poor branch structure • Uneven crown
933	Poplar-Eastern	6	Poor	...	1	• Poor branch structure • Sweep • Uneven crown
936	Poplar-Eastern	18	Poor	...	1	• Dead branches >2 • Poor branch structure • Uneven crown
946	Poplar-Eastern	7	Poor	...	1	• Dead branches >2 • Lean • Low vigor • Poor branch structure • Uneven crown
957	Poplar-Eastern	8	Poor	...	1	• Dead branches >2 • Poor branch structure • Uneven crown
981	Poplar-Eastern	8	Poor	...	1	• Buried root collar • Poor branch structure • Uneven crown
984	Poplar-Eastern	7	Poor	...	1	• Dead branches >2 • Lean • Poor branch structure • Uneven crown

Tree ID	Common Name	DBH	Condition	*Overall Tree Risk Rating*	Tree & Shrub Work Phase	Defect(s) or Observation(s)
991	Locust-Black	14	Poor	...	1	• Co-dominant stems • Dead branches >2 • Included bark • Poor branch structure
992	Tree of Heaven	12	Poor	...	1	• Co-dominant stems • Dead branches >2 • Fungi/conks • Included bark • Poor branch structure • Uneven crown
1108	Planetree-London	12	Poor	...	1	• Dead branches >2 • Decay-stem • Girdling material • Uneven crown
1127	Planetree-London	10	Dead	...	1	...

INVENTORIED TREES RECOMMENDED FOR REMOVAL



Vine Removal

The following trees were recommended for removal of vines. Vines and suckers can cover the trunk of a tree and hide defects that may be present.

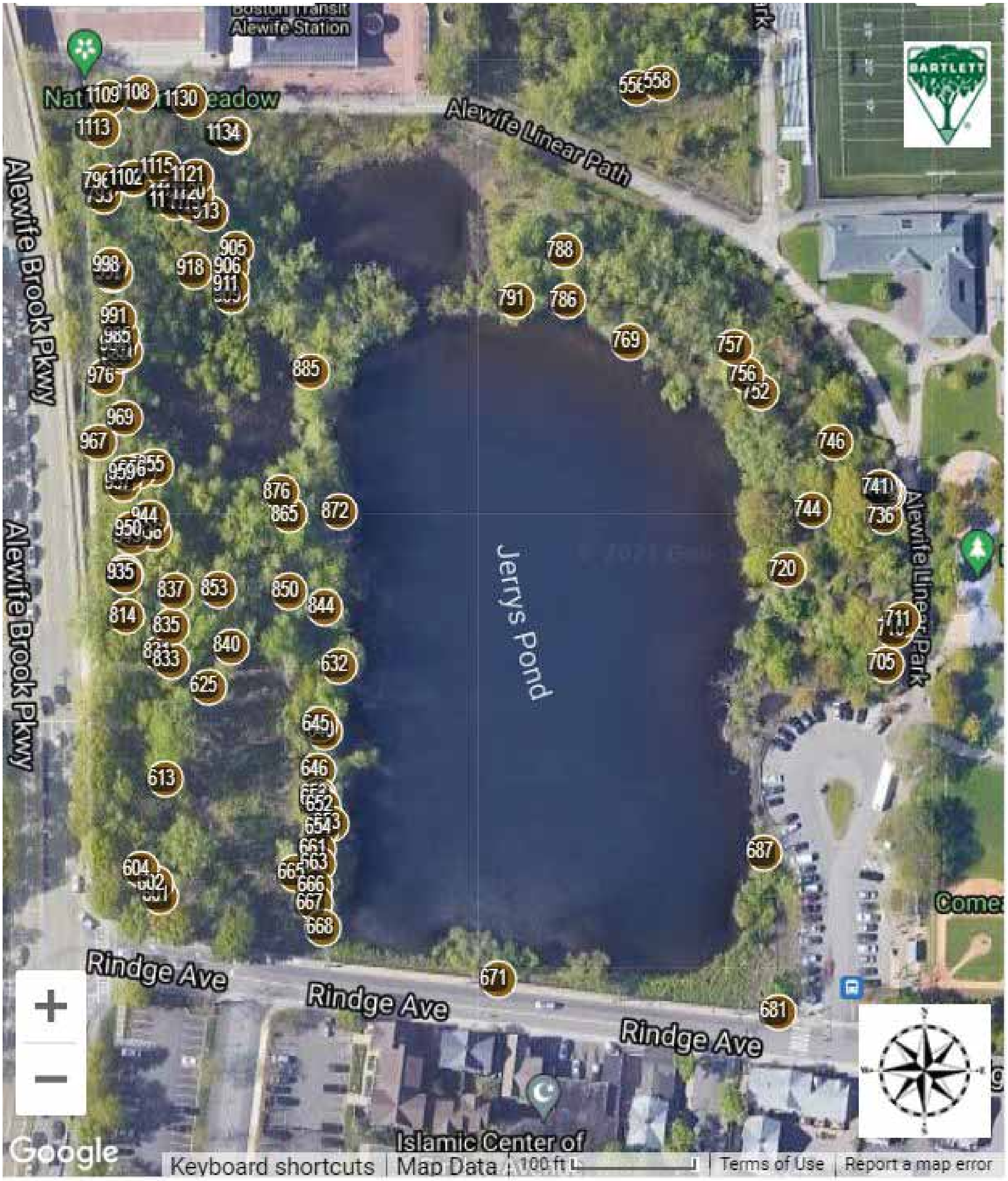
INVENTORIED TREES RECOMMENDED FOR VINE REMOVAL (99 Trees)

Tree ID	Common Name	DBH
556	Oak-Pin	6
558	Poplar-Eastern	16,8
601	Tree of Heaven	12
602	Tree of Heaven	15,8
604	Tree of Heaven	11
613	Poplar-Eastern	20
625	Poplar-Eastern	11
632	Maple-Norway	7
640	Maple-Norway	9
645	Maple-Norway	11
646	Tree of Heaven	9
650	Maple-Norway	10
651	Tree of Heaven	11
652	Elm-Slippery	9
653	Maple-Norway	6
654	Elm-Slippery	9,9
661	Maple-Norway	7
663	Maple-Norway	6
665	Poplar-Eastern	17
666	Elm-Slippery	11,6
667	Maple-Norway	6
668	Cherry-Black	6
671	Elm-Slippery	6
681	Tree of Heaven	6
687	Tree of Heaven	7
705	Tree of Heaven	9,9
710	Oak-Pin	9
711	Tree of Heaven	7
720	Oak-Pin	18
736	Tree of Heaven	6
738	Tree of Heaven	6
739	Tree of Heaven	6
740	Tree of Heaven	8
741	Tree of Heaven	6
744	Oak-Pin	10
746	Cherry-Black	10,9
752	Poplar-Eastern	21
756	Poplar-Eastern	19
757	Poplar-Eastern	13
769	Poplar-Eastern	11
786	Poplar-Eastern	16
788	Poplar-Eastern	10
791	Poplar-Eastern	21
793	Locust-Black	6
796	Poplar-Eastern	16
814	Poplar-Eastern	15
815	Poplar-Eastern	13,11
831	Poplar-Eastern	15,7
833	Poplar-Eastern	10,6
835	Poplar-Eastern	8
837	Poplar-Eastern	16
840	Poplar-Eastern	14
844	Elm-Slippery	7
850	Poplar-Eastern	10
853	Poplar-Eastern	15
865	Poplar-Eastern	6
872	Oak-Pin	8
876	Poplar-Eastern	8
885	Elm-Slippery	12
905	Poplar-Aspen	8
906	Poplar-Eastern	12
909	Poplar-Eastern	8
911	Poplar-Aspen	7
913	Locust-Black	10
918	Oak-Pin	22
935	Poplar-Eastern	16
936	Poplar-Eastern	18
944	Poplar-Eastern	16
949	Poplar-Eastern	8
950	Poplar-Eastern	8
955	Poplar-Eastern	11
956	Poplar-Eastern	12
957	Poplar-Eastern	8
959	Poplar-Eastern	6
967	Poplar-Eastern	15
969	Poplar-Eastern	7,4

Tree ID	Common Name	DBH
976	Poplar-Eastern	8
980	Poplar-Eastern	7
981	Poplar-Eastern	8
984	Poplar-Eastern	7
985	Poplar-Eastern	9
991	Locust-Black	14
996	Poplar-Eastern	19
997	Poplar-Eastern	18
998	Poplar-Eastern	8
1101	Locust-Black	7
1102	Maple-Norway	8
1108	Planetree-London	12

Tree ID	Common Name	DBH
1109	Planetree-London	18
1113	Locust-Black	7
1115	Locust-Black	10
1117	Locust-Black	11
1118	Locust-Black	12
1119	Locust-Black	7
1120	Locust-Black	9
1121	Locust-Black	8
1130	Elm-Slippery	10
1133	Locust-Black	9
1134	Locust-Black	7

INVENTORIED TREES RECOMMENDED FOR VINE REMOVAL



DEFECTS OR OBSERVATIONS

DEFECTS OR OBSERVATIONS

The following table lists inventoried trees for which we noted defects, observations, or other structural issues and were not assigned an *overall tree risk rating*, recommended for a *Level 3 Advanced assessment*, or have pruning and/or removal recommendations that were previously reported.

INVENTORIED TREES WITH DEFECTS, OBSERVATIONS, OR OTHER STRUCTURAL ISSUES (409 Trees)

Tree ID	Common Name	DBH	Defect(s) or Observation(s)
540	Elm-American	10	• Co-dominant stems • Poor branch structure • Uneven crown
542	Poplar-Aspen	9	• Uneven crown
543	Poplar-Aspen	6	• Uneven crown
549	Poplar-Aspen	6	• Uneven crown
550	Poplar-Aspen	11	• Buried root collar
551	Poplar-Aspen	20	• Co-dominant stems
552	Poplar-Aspen	15	• Uneven crown
553	Poplar-Aspen	15	• Co-dominant stems • Uneven crown
554	Poplar-Aspen	17	• Uneven crown
556	Oak-Pin	6	• Uneven crown
557	Poplar-Eastern	21	• Co-dominant stems • Uneven crown
558	Poplar-Eastern	16,8	• Co-dominant stems • Poor branch structure
559	Birch-Paper	7,2,2,2,2	• Co-dominant stems • Fungi/conks • Poor branch structure
560	Birch-Paper	8	• Uneven crown
561	Birch-Paper	6,6	• Co-dominant stems
562	Birch-Paper	6	• Uneven crown
563	Maple-Norway	14,10	• Co-dominant stems • Poor branch structure
566	Pine-Eastern White	16	• Dead branches >2
567	Pine-Eastern White	23	• Buried root collar • Dead branches >2
569	Pine-Eastern White	16	• Dead branches >2
571	Poplar-Eastern	20,10	• Buried root collar • Co-dominant stems
572	Maple-Norway	6	• Uneven crown
577	Oak-Northern Red	20	• Dead branches >2 • Uneven crown
578	Oak-Northern Red	18	• Dead branches >2 • Uneven crown
579	Oak-Northern Red	22	• Co-dominant stems • Dead branches >2 • Uneven crown
580	Oak-Northern Red	17	• Dead branches >2

Tree ID	Common Name	DBH	Defect(s) or Observation(s)
582	Oak-Northern Red	20	• Co-dominant stems • Dead branches <=2
583	Oak-Northern Red	22	• Co-dominant stems • Dead branches >2 • Poor branch structure
584	Honeylocust-Common	10	• Co-dominant stems • Poor branch structure • Uneven crown
585	Honeylocust-Common	8	• Dead branches <=2 • Poor branch structure • Uneven crown
586	Willow	12	• Co-dominant stems • Dead branches >2 • Uneven crown
587	Dawn Redwood	6	• Buried root collar
588	Elm-American	6	• Uneven crown
589	Tree of Heaven	11	• Dead branches >2
590	Tree of Heaven	6	• Dead branches >2 • Uneven crown
591	Tree of Heaven	12,104	• Co-dominant stems • Dead branches >2
593	Tree of Heaven	12	• Buried root collar • Co-dominant stems • Dead branches >2
595	Tree of Heaven	10,10	• Co-dominant stems
596	Tree of Heaven	8,7	• Co-dominant stems • Included bark
602	Tree of Heaven	15,8	• Co-dominant stems • Low vigor • Uneven crown
603	Poplar-Eastern	24	• Co-dominant stems • Seam
604	Tree of Heaven	11	• Uneven crown
605	Elm-Slippery	11,8	• Co-dominant stems • Poor branch structure
606	Elm-Slippery	7	• Co-dominant stems
607	Elm-Slippery	6,4	• Co-dominant stems • Poor branch structure
608	Tree of Heaven	20	• Co-dominant stems • Dead branches >2
609	Elm-Slippery	9	• Co-dominant stems
611	Hackberry	6	• Co-dominant stems • Dead branches >2 • Poor branch structure • Uneven crown

Tree ID	Common Name	DBH	Defect(s) or Observation(s)
616	Poplar-Eastern	24,13	• Buried root collar • Co-dominant stems • Included bark • Poor branch structure
620	Poplar-Eastern	20,16	• Co-dominant stems • Included bark • Poor branch structure
621	Willow	10	• Uneven crown
625	Poplar-Eastern	11	• Poor branch structure
626	Poplar-Eastern	15	• Co-dominant stems • Uneven crown
627	Poplar-Eastern	16,11	• Co-dominant stems • Dead branches >2 • Included bark • Poor branch structure
628	Poplar-Eastern	12,8	• Co-dominant stems
632	Maple-Norway	7	• Poor branch structure • Uneven crown
633	Oak-Pin	21	• Dead branches >2 • Uneven crown
634	Maple-Norway	8	• Poor branch structure • Uneven crown
636	Elm-Slippery	7	• Poor branch structure • Uneven crown
637	Elm-Slippery	9	• Poor branch structure • Uneven crown
638	Elm-Slippery	10	• Dead branches >2 • Poor branch structure • Uneven crown
643	Tree of Heaven	8	• Dead branches >2 • Wound-stem
644	Tree of Heaven	6,6	• Co-dominant stems • Included bark • Poor branch structure
645	Maple-Norway	11	• Co-dominant stems • Dead branches >2
646	Tree of Heaven	9	• Dead branches >2
648	Elm-Slippery	9	• Uneven crown
649	Maple-Norway	14	• Lean • Poor branch structure • Uneven crown
650	Maple-Norway	10	• Co-dominant stems • Dead branches >2
651	Tree of Heaven	11	• Seam

Tree ID	Common Name	DBH	Defect(s) or Observation(s)
652	Elm-Slippery	9	• Co-dominant stems • Uneven crown
653	Maple-Norway	6	• Uneven crown
654	Elm-Slippery	9,9	• Co-dominant stems • Included bark • Poor branch structure
656	Maple-Norway	8	• Uneven crown
657	Tree of Heaven	13	• Co-dominant stems • Storm damage • Uneven crown
658	Tree of Heaven	8	• Lean • Uneven crown
659	Crabapple	10	• Co-dominant stems • Storm damage
660	Elm-Slippery	6	• Uneven crown
661	Maple-Norway	7	• Co-dominant stems
662	Crabapple	10,8	• Co-dominant stems • Dead branches >2 • Poor branch structure • Uneven crown
663	Maple-Norway	6	• Uneven crown
664	Maple-Norway	12	• Uneven crown
665	Poplar-Eastern	17	• Co-dominant stems • Dead branches >2
666	Elm-Slippery	11,6	• Co-dominant stems • Uneven crown
667	Maple-Norway	6	• Dead branches >2 • Uneven crown
668	Cherry-Black	6	• Co-dominant stems • Poor branch structure • Uneven crown
669	Ash-Green	16,13,11,9,8	• Buried root collar • Co-dominant stems • Poor branch structure • Uneven crown
670	Ash-Green	7	• Uneven crown
671	Elm-Slippery	6	• Poor branch structure • Uneven crown
672	Elm-Slippery	15	• Co-dominant stems
673	Elm-Slippery	7	• Low vigor • Poor branch structure • Uneven crown
675	Ash-Green	23,13	• Co-dominant stems • Dead branches >2 • Poor branch structure

Tree ID	Common Name	DBH	Defect(s) or Observation(s)
676	Linden-Littleleaf	6	• Uneven crown
677	Linden-Littleleaf	6	• Poor branch structure • Uneven crown
679	Tree of Heaven	8	• Uneven crown
680	Tree of Heaven	8	• Poor branch structure • Uneven crown • Wound-stem
681	Tree of Heaven	6	• Uneven crown
682	Maple-Norway	10	• Uneven crown
683	Maple-Norway	8	• Uneven crown • Wound-stem
684	Cherry-Black	6	• Storm damage
685	Willow	20,15	• Co-dominant stems • Dead branches >2 • Included bark • Poor branch structure • Uneven crown
686	Mulberry-Red	7	• Uneven crown
687	Tree of Heaven	7	• Wound-stem
688	Tree of Heaven	10	• Uneven crown • Wound-stem
689	Mulberry-Red	14	• Buried root collar • Poor branch structure • Uneven crown
690	Linden-Littleleaf	6	• Dead branches >2 • Uneven crown
691	Mulberry-Red	8	• Dead branches >2 • Storm damage • Uneven crown
692	Mulberry-Red	9	• Buried root collar • Co-dominant stems • Dead branches >2 • Included bark • Poor branch structure
693	Willow	14,12	• Broken branch(s) • Decay-stem • Storm damage
694	Tree of Heaven	7	• Poor branch structure • Wound-stem
695	Willow	16	• Co-dominant stems • Poor branch structure
696	Oak-Pin	7,6	• Co-dominant stems • Included bark • Poor branch structure
697	Linden-Littleleaf	6	• Uneven crown

Tree ID	Common Name	DBH	Defect(s) or Observation(s)
698	Linden-Littleleaf	12	• Co-dominant stems
699	Maple-Norway	6	• Uneven crown
700	Tree of Heaven	6	• Broken branch(s) • Buried root collar • Poor branch structure
702	Oak-Pin	11	• Dead branches <=2 • Poor branch structure
703	Elm-Slippery	17	• Co-dominant stems
704	Linden-Littleleaf	7	• Lean • Uneven crown
705	Tree of Heaven	9,9	• Co-dominant stems • Dead branches >2
706	Linden-Littleleaf	6	• Uneven crown
707	Oak-Pin	22	• Dead branches >2
708	Oak-Pin	18	• Co-dominant stems • Poor branch structure
710	Oak-Pin	9	• Uneven crown
711	Tree of Heaven	7	• Dead branches >2 • Poor branch structure • Uneven crown
712	Cherry-Flowering	26	• Dead branches >2 • Dieback (severe)
713	Cherry-Flowering	10	• Dead branches >2 • Uneven crown
714	Maple-Norway	8	• Uneven crown
715	Cherry-Black	18,16	• Co-dominant stems • Dead branches >2 • Decay-stem • Included bark
716	Oak-Pin	21	• Dead branches >2
717	Maple-Norway	8	• Sweep
718	Cherry-Flowering	6	• Dead branches <=2
719	Willow-Pussy	7,7,3,3,2,2	• Co-dominant stems • Poor branch structure
720	Oak-Pin	18	• Dead branches >2
721	Maple-Red	15	• Co-dominant stems • Poor branch structure • Uneven crown
723	Maple-Red	11	• Dead branches >2 • Uneven crown
724	Maple-Red	17	• Co-dominant stems • Uneven crown
725	Maple-Red	11	• Co-dominant stems • Uneven crown
726	Maple-Red	11	• Uneven crown

Tree ID	Common Name	DBH	Defect(s) or Observation(s)
728	Willow	31,26,25,18,16,16	• Co-dominant stems • Dead branches >2 • Included bark • Poor branch structure
730	Cherry-Flowering	10	• Uneven crown
731	Oak-Pin	14	• Dead branches <=2
733	Oak-Pin	22	• Dead branches >2
734	Oak-Pin	15	• Uneven crown
735	Tree of Heaven	7,6	• Co-dominant stems • Uneven crown
736	Tree of Heaven	6	• Uneven crown
737	Tree of Heaven	10,9,8,7	• Co-dominant stems • Dead branches >2 • Poor branch structure
738	Tree of Heaven	6	• Dead branches >2
742	Cherry-Black	6	• Dead branches <=2
744	Oak-Pin	10	• Uneven crown
745	Maple-Red	7	• Co-dominant stems • Poor branch structure
746	Cherry-Black	10,9	• Co-dominant stems • Dead branches >2 • Poor branch structure
747	Ash-Green	12	• Dead branches >2 • Uneven crown
748	Oak-Pin	16	• Girdling material
749	Pear-Callery	9	• Co-dominant stems • Included bark • Poor branch structure
750	Oak-Pin	7	• Uneven crown
751	Poplar-Eastern	26	• Co-dominant stems • Included bark • Poor branch structure • Uneven crown
752	Poplar-Eastern	21	• Dead branches >2 • Uneven crown
753	Birch-Paper	8	• Uneven crown
754	Poplar-Eastern	19	• Buried root collar • Dead branches >2 • Uneven crown
755	Poplar-Eastern	21,13	• Co-dominant stems • Dead branches >2 • Included bark • Poor branch structure
756	Poplar-Eastern	19	• Cavity-branch
757	Poplar-Eastern	13	• Uneven crown

Tree ID	Common Name	DBH	Defect(s) or Observation(s)
758	Poplar-Aspen	6	• Uneven crown
759	Poplar-Aspen	7	• Uneven crown
761	Poplar-Aspen	6	• Uneven crown
762	Poplar-Aspen	6,4	• Co-dominant stems • Uneven crown
763	Poplar-Aspen	6	• Uneven crown
764	Poplar-Aspen	6	• Seam
765	Poplar-Eastern	15	• Co-dominant stems
766	Poplar-Eastern	17,12	• Co-dominant stems • Poor branch structure • Uneven crown
767	Poplar-Eastern	10	• Dead branches >2 • Uneven crown
770	Birch-Paper	6	• Uneven crown
771	Poplar-Aspen	6	• Uneven crown
772	Poplar-Aspen	8	• Uneven crown
773	Poplar-Aspen	8	• Dead branches <=2
774	Poplar-Aspen	7	• Uneven crown
775	Poplar-Aspen	6	• Uneven crown
776	Poplar-Aspen	6	• Uneven crown
777	Poplar-Aspen	7	• Uneven crown • Wound-stem
778	Poplar-Aspen	6	• Storm damage
780	Poplar-Aspen	6	• Uneven crown
781	Poplar-Aspen	6	• Uneven crown
782	Poplar-Aspen	6	• Uneven crown
783	Poplar-Eastern	21,14	• Co-dominant stems • Included bark • Poor branch structure • Uneven crown
784	Poplar-Eastern	14,13,7	• Co-dominant stems • Included bark • Poor branch structure
785	Poplar-Eastern	11,7	• Co-dominant stems • Included bark • Poor branch structure
786	Poplar-Eastern	16	• Dead branches >2
787	Poplar-Eastern	10	• Co-dominant stems • Included bark • Poor branch structure
788	Poplar-Eastern	10	• Uneven crown
789	Poplar-Eastern	10	• Uneven crown
790	Poplar-Eastern	20	• Dead branches >2 • Poor branch structure

Tree ID	Common Name	DBH	Defect(s) or Observation(s)
791	Poplar-Eastern	21	• Co-dominant stems • Poor branch structure
792	Poplar-Eastern	14,12	• Co-dominant stems • Included bark • Lean • Poor branch structure
793	Locust-Black	6	• Girdling material • Poor branch structure
794	Elm-American	15	• Co-dominant stems • Poor branch structure • Uneven crown
795	Poplar-Eastern	20	• Co-dominant stems • Growing against object • Uneven crown
796	Poplar-Eastern	16	• Co-dominant stems • Girdling material • Uneven crown
797	Poplar-Eastern	12	• Sweep • Uneven crown
798	Maple-Norway	6	• Co-dominant stems • Uneven crown
799	Elm-Slippery	8,3	• Co-dominant stems • Poor branch structure
800	Locust-Black	18,11,9,8	• Co-dominant stems • Dead branches >2 • Included bark • Poor branch structure
801	Poplar-Eastern	11	• Buried root collar • Dead branches <=2 • Poor branch structure • Uneven crown
803	Poplar-Eastern	10	• Dead branches >2 • Poor branch structure • Uneven crown
804	Poplar-Eastern	7	• Buried root collar • Poor branch structure • Uneven crown
805	Poplar-Eastern	11,7	• Buried root collar • Co-dominant stems • Included bark • Poor branch structure
806	Poplar-Eastern	6	• Buried root collar • Poor branch structure • Uneven crown

Tree ID	Common Name	DBH	Defect(s) or Observation(s)
808	Poplar-Eastern	12	• Buried root collar • Poor branch structure • Sweep
810	Poplar-Eastern	13	• Growing against object • Poor branch structure • Uneven crown
811	Poplar-Eastern	9	• Buried root collar • Co-dominant stems • Poor branch structure • Uneven crown
812	Poplar-Eastern	24	• Co-dominant stems • Included bark • Poor branch structure
813	Poplar-Eastern	17	• Buried root collar • Co-dominant stems • Dead branches >2 • Poor branch structure
814	Poplar-Eastern	15	• Buried root collar • Co-dominant stems • Dead branches >2 • Poor branch structure
815	Poplar-Eastern	13,11	• Buried root collar • Co-dominant stems • Dead branches >2 • Included bark • Poor branch structure
816	Elm-Slippery	7	• Buried root collar • Poor branch structure • Uneven crown
817	Poplar-Eastern	17	• Co-dominant stems • Poor branch structure • Uneven crown
818	Poplar-Eastern	11	• Poor branch structure • Uneven crown
819	Poplar-Eastern	8	• Buried root collar • Lean • Poor branch structure • Uneven crown
820	Poplar-Eastern	7	• Buried root collar • Lean • Poor branch structure • Uneven crown
821	Oak-Northern Red	6	• Buried root collar • Poor branch structure

Tree ID	Common Name	DBH	Defect(s) or Observation(s)
822	Poplar-Eastern	16	• Co-dominant stems • Poor branch structure • Uneven crown
823	Poplar-Eastern	17	• Co-dominant stems • Dead branches >2 • Poor branch structure • Uneven crown
824	Poplar-Eastern	25	• Co-dominant stems • Dead branches >2 • Included bark • Poor branch structure
825	Poplar-Eastern	16	• Buried root collar • Low vigor • Poor branch structure
826	Poplar-Eastern	11	• Buried root collar • Co-dominant stems • Poor branch structure • Uneven crown
827	Poplar-Eastern	17,14	• Co-dominant stems • Dead branches >2 • Included bark • Poor branch structure • Uneven crown
828	Poplar-Eastern	10	• Buried root collar • Poor branch structure • Uneven crown
829	Poplar-Eastern	8	• Buried root collar • Poor branch structure • Uneven crown
830	Poplar-Eastern	8	• Buried root collar • Uneven crown
831	Poplar-Eastern	15,7	• Co-dominant stems • Included bark • Poor branch structure
832	Poplar-Eastern	9	• Buried root collar • Dead branches >2 • Poor branch structure • Uneven crown • Wound-stem
833	Poplar-Eastern	10,6	• Buried root collar • Co-dominant stems • Dead branches >2 • Included bark • Poor branch structure

Tree ID	Common Name	DBH	Defect(s) or Observation(s)
834	Poplar-Eastern	8	• Buried root collar • Lean • Uneven crown
835	Poplar-Eastern	8	• Buried root collar • Poor branch structure
836	Poplar-Eastern	27	• Co-dominant stems • Dead branches >2 • Included bark • Poor branch structure
837	Poplar-Eastern	16	• Dead branches >2 • Poor branch structure • Uneven crown
838	Poplar-Eastern	25	• Co-dominant stems • Dead branches >2 • Included bark • Poor branch structure • Uneven crown
839	Poplar-Eastern	14	• Dead branches >2 • Poor branch structure • Uneven crown
840	Poplar-Eastern	14	• Buried root collar • Poor branch structure • Uneven crown
841	Mulberry-Red	9	• Dead branches <=2 • Poor branch structure • Uneven crown
842	Mulberry-Red	8	• Co-dominant stems • Dead branches >2 • Included bark • Poor branch structure
843	Elm-Slippery	14	• Buried root collar • Poor branch structure • Uneven crown
844	Elm-Slippery	7	• Poor branch structure • Uneven crown
845	Mulberry-Red	7	• Buried root collar • Co-dominant stems • Dead branches >2 • Poor branch structure
846	Oak-Pin	13	• Girdling roots present • Poor branch structure • Uneven crown
847	Maple-Norway	11	• Dead branches >2 • Poor branch structure • Uneven crown

Tree ID	Common Name	DBH	Defect(s) or Observation(s)
848	Oak-Pin	16	• Dead branches >2 • Poor branch structure • Sweep • Uneven crown
849	Mulberry-Red	8	• Co-dominant stems • Included bark • Lean • Poor branch structure • Uneven crown
850	Poplar-Eastern	10	• Dead branches >2 • Poor branch structure
851	Poplar-Eastern	16	• Dead branches >2 • Growing against object • Poor branch structure • Uneven crown
852	Poplar-Eastern	24,6	• Buried root collar • Co-dominant stems • Included bark • Poor branch structure
853	Poplar-Eastern	15	• Poor branch structure • Uneven crown
854	Poplar-Eastern	30	• Co-dominant stems • Dead branches >2 • Included bark • Poor branch structure
855	Poplar-Eastern	10	• Buried root collar • Dead branches >2 • Poor branch structure
856	Poplar-Eastern	7	• Poor branch structure • Uneven crown
857	Poplar-Eastern	8,6	• Co-dominant stems • Included bark • Poor branch structure • Uneven crown
858	Poplar-Eastern	9	• Poor branch structure • Uneven crown
859	Poplar-Eastern	15,13	• Buried root collar • Co-dominant stems • Dead branches >2 • Included bark • Poor branch structure
860	Poplar-Eastern	16	• Buried root collar • Co-dominant stems • Poor branch structure • Uneven crown

Tree ID	Common Name	DBH	Defect(s) or Observation(s)
861	Poplar-Eastern	18	• Buried root collar • Dead branches >2 • Uneven crown
862	Poplar-Eastern	6	• Buried root collar • Uneven crown
863	Poplar-Eastern	7	• Buried root collar • Poor branch structure • Uneven crown
864	Poplar-Eastern	10	• Poor branch structure • Uneven crown
866	Poplar-Eastern	13	• Poor branch structure • Uneven crown
868	Oak-Pin	7	• Dead branches >2 • Poor branch structure • Uneven crown
869	Elm-Slippery	7	• Dead branches >2 • Poor branch structure • Uneven crown
871	Mulberry-Red	8	• Buried root collar • Uneven crown
872	Oak-Pin	8	• Buried root collar • Co-dominant stems • Poor branch structure • Uneven crown
873	Poplar-Eastern	7	• Poor branch structure • Uneven crown
874	Poplar-Eastern	12	• Buried root collar • Uneven crown
875	Poplar-Eastern	14	• Cavity-stem • Co-dominant stems • Poor branch structure • Uneven crown
876	Poplar-Eastern	8	• Dead branches <=2 • Poor branch structure
877	Oak-Pin	8	• Co-dominant stems • Dead branches >2 • Poor branch structure • Uneven crown
880	Poplar-Eastern	13	• Dead branches <=2 • Poor branch structure • Uneven crown
881	Juniper-Eastern Redcedar	6	• Girdling roots present • Uneven crown

Tree ID	Common Name	DBH	Defect(s) or Observation(s)
882	Poplar-Eastern	27	• Co-dominant stems • Dead branches >2 • Included bark • Poor branch structure
883	Hackberry	8	• Cavity-stem • Co-dominant stems • Dead branches >2 • Poor branch structure • Uneven crown
885	Elm-Slippery	12	• Co-dominant stems • Included bark • Poor branch structure
886	Poplar-Eastern	14	• Poor branch structure • Uneven crown
887	Oak-Pin	7	• Buried root collar • Poor branch structure • Uneven crown
888	Elm-Slippery	11	• Buried root collar • Co-dominant stems • Included bark • Poor branch structure • Uneven crown
891	Oak-Pin	7,5	• Co-dominant stems • Dead branches >2 • Included bark • Poor branch structure
892	Elm-Slippery	17,13	• Co-dominant stems • Included bark • Poor branch structure • Uneven crown
893	Poplar-Eastern	8	• Poor branch structure
894	Poplar-Eastern	8	• Corrected lean • Poor branch structure • Uneven crown
896	Poplar-Eastern	15,15	• Co-dominant stems • Included bark • Poor branch structure • Uneven crown
899	Maple-Boxelder	8	• Buried root collar • Uneven crown
900	Poplar-Eastern	15	• Co-dominant stems • Dead branches >2 • Decay-root flare • Poor branch structure

Tree ID	Common Name	DBH	Defect(s) or Observation(s)
901	Poplar-Eastern	13	• Dead branches >2 • Poor branch structure • Uneven crown
902	Poplar-Aspen	8	• Co-dominant stems • Poor branch structure • Uneven crown
903	Poplar-Aspen	7	• Poor branch structure
904	Poplar-Aspen	9	• Poor branch structure • Sweep
905	Poplar-Aspen	8	• Dead branches >2 • Low vigor • Poor branch structure
906	Poplar-Eastern	12	• Dead branches >2 • Poor branch structure
907	Poplar-Eastern	17	• Co-dominant stems • Dead branches >2 • Poor branch structure
908	Poplar-Eastern	13	• Poor branch structure • Uneven crown
909	Poplar-Eastern	8	• Poor branch structure • Uneven crown • Wound-root flare
910	Poplar-Aspen	8	• Dead branches >2 • Dead/dying stem • Storm damage
914	Poplar-Eastern	22	• Poor branch structure • Uneven crown
915	Maple-Norway	8	• Poor branch structure • Uneven crown
916	Poplar-Eastern	18	• Co-dominant stems • Poor branch structure • Uneven crown
917	Poplar-Eastern	1,10	• Co-dominant stems • Dead branches >2 • Included bark • Poor branch structure
918	Oak-Pin	22	• Buried root collar • Co-dominant stems • Dead branches >2 • Included bark • Poor branch structure • Uneven crown
919	Maple-Norway	7	• Buried root collar • Poor branch structure • Uneven crown

Tree ID	Common Name	DBH	Defect(s) or Observation(s)
920	Elm-Slippery	6	• Buried root collar • Poor branch structure • Suppressed • Uneven crown
921	Poplar-Eastern	14	• Co-dominant stems • Included bark • Poor branch structure • Uneven crown
922	Locust-Black	10	• Co-dominant stems • Dead branches >2 • Poor branch structure • Uneven crown
924	Locust-Black	16	• Buried root collar • Co-dominant stems • Dead branches >2 • Poor branch structure • Uneven crown
925	Maple-Norway	6	• Dead branches >2 • Poor branch structure • Uneven crown
926	Maple-Norway	15	• Buried root collar • Co-dominant stems • Included bark • Poor branch structure
927	Maple-Norway	8	• Buried root collar • Poor branch structure • Uneven crown
929	Maple-Norway	6	• Buried root collar • Co-dominant stems • Included bark • Poor branch structure
931	Poplar-Eastern	24	• Co-dominant stems • Poor branch structure
932	Tree of Heaven	12	• Buried root collar • Dead branches >2 • Poor branch structure • Uneven crown
934	Locust-Black	6	• Uneven crown
935	Poplar-Eastern	16	• Co-dominant stems • Dead branches >2 • Poor branch structure
937	Poplar-Eastern	12,8	• Buried root collar • Co-dominant stems • Included bark • Poor branch structure

Tree ID	Common Name	DBH	Defect(s) or Observation(s)
938	Poplar-Eastern	6	• Poor branch structure • Uneven crown
939	Poplar-Eastern	6	• Dead branches <=2 • Poor branch structure • Uneven crown
940	Poplar-Eastern	9	• Dead branches >2 • Poor branch structure • Uneven crown
941	Poplar-Eastern	7	• Dead branches <=2 • Uneven crown
942	Poplar-Eastern	8	• Buried root collar • Poor branch structure
943	Poplar-Eastern	11	• Poor branch structure • Uneven crown
944	Poplar-Eastern	16	• Co-dominant stems • Poor branch structure • Uneven crown
945	Poplar-Eastern	22	• Co-dominant stems • Dead branches >2 • Poor branch structure
947	Poplar-Eastern	10	• Buried root collar • Co-dominant stems • Poor branch structure • Uneven crown
948	Poplar-Eastern	9	• Buried root collar • Lean • Poor branch structure • Uneven crown
949	Poplar-Eastern	8	• Buried root collar • Lean • Uneven crown
950	Poplar-Eastern	8	• Buried root collar • Lean • Poor branch structure • Uneven crown
951	Poplar-Eastern	7	• Buried root collar • Lean • Poor branch structure • Uneven crown
952	Oak-Northern Red	6	• Buried root collar • Dead branches <=2 • Poor branch structure
953	Poplar-Eastern	10	• Co-dominant stems • Dead branches >2 • Poor branch structure

Tree ID	Common Name	DBH	Defect(s) or Observation(s)
954	Poplar-Eastern	15	• Co-dominant stems • Dead branches >2 • Poor branch structure
955	Poplar-Eastern	11	• Co-dominant stems • Poor branch structure • Uneven crown
956	Poplar-Eastern	12	• Buried root collar • Co-dominant stems • Dead branches >2 • Poor branch structure • Seam
958	Poplar-Eastern	10	• Buried root collar • Poor branch structure • Uneven crown
959	Poplar-Eastern	6	• Buried root collar • Poor branch structure • Uneven crown
960	Poplar-Eastern	6	• Buried root collar • Poor branch structure • Uneven crown
961	Poplar-Eastern	9	• Buried root collar • Uneven crown
962	Poplar-Eastern	6	• Buried root collar • Dead branches <=2
963	Poplar-Eastern	9	• Buried root collar • Poor branch structure
964	Oak-Northern Red	6	• Buried root collar • Uneven crown
965	Poplar-Eastern	8	• Buried root collar • Poor branch structure • Uneven crown
967	Poplar-Eastern	15	• Buried root collar • Co-dominant stems • Poor branch structure • Uneven crown
968	Poplar-Eastern	7	• Buried root collar • Poor branch structure • Seam • Uneven crown
969	Poplar-Eastern	7,4	• Co-dominant stems • Dead branches <=2 • Included bark • Poor branch structure
970	Poplar-Eastern	8	• Buried root collar • Poor branch structure • Uneven crown

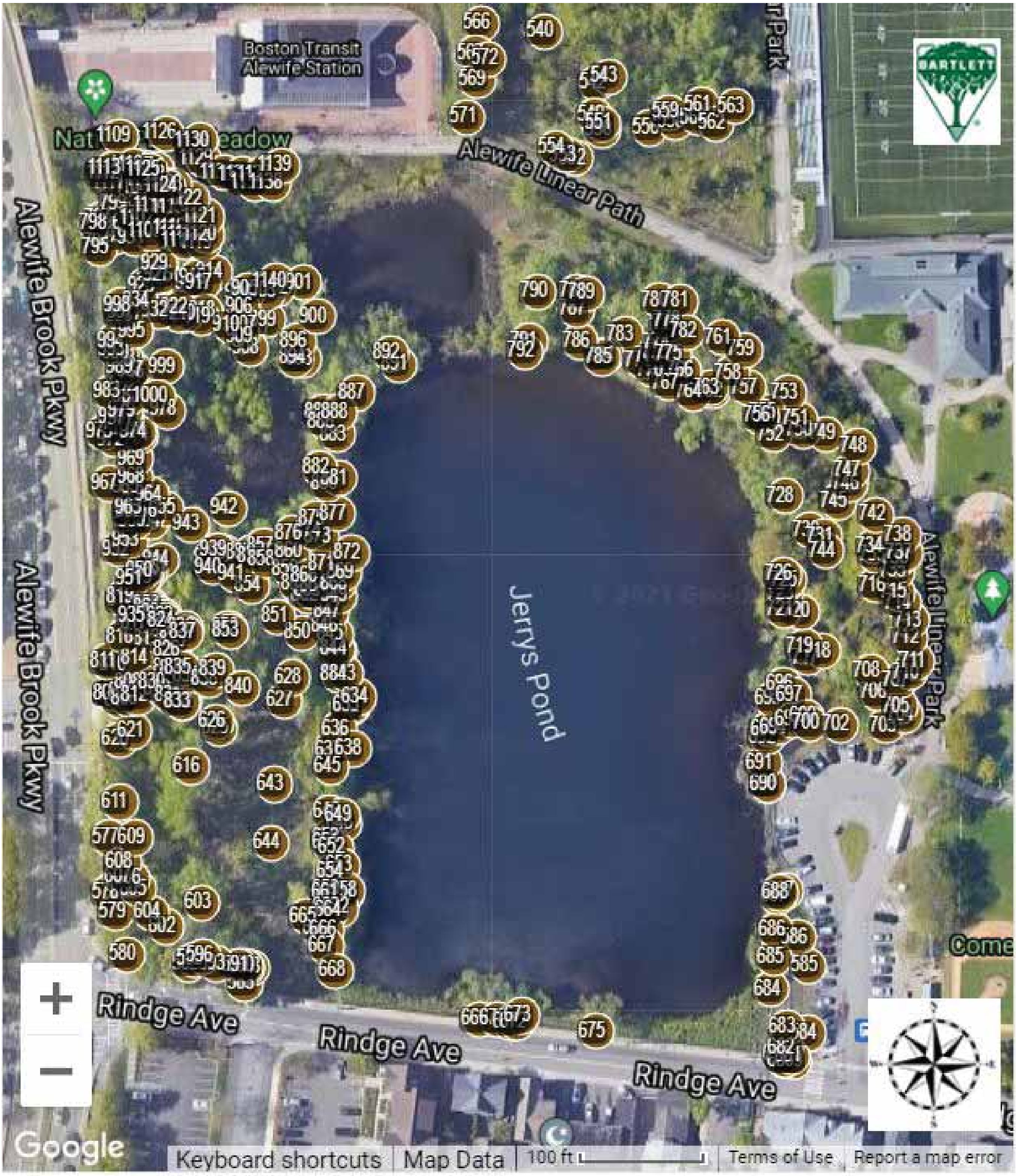
Tree ID	Common Name	DBH	Defect(s) or Observation(s)
971	Poplar-Eastern	9	• Buried root collar • Poor branch structure • Uneven crown
972	Poplar-Eastern	9	• Buried root collar • Co-dominant stems • Poor branch structure • Uneven crown
973	Poplar-Eastern	9	• Buried root collar • Poor branch structure • Uneven crown
974	Poplar-Eastern	10	• Buried root collar • Seam • Uneven crown
975	Poplar-Eastern	10	• Poor branch structure • Seam • Uneven crown
976	Poplar-Eastern	8	• Buried root collar • Low vigor • Poor branch structure • Uneven crown
977	Poplar-Eastern	8	• Buried root collar • Poor branch structure
978	Poplar-Eastern	10,4	• Co-dominant stems • Dead branches >2 • Included bark • Poor branch structure
979	Poplar-Eastern	13	• Buried root collar • Co-dominant stems • Poor branch structure • Uneven crown
980	Poplar-Eastern	7	• Buried root collar • Poor branch structure
982	Poplar-Eastern	8	• Buried root collar • Poor branch structure • Uneven crown
983	Elm-Slippery	7	• Buried root collar • Uneven crown
985	Poplar-Eastern	9	• Poor branch structure • Uneven crown
986	Poplar-Eastern	13	• Buried root collar • Dead branches >2 • Poor branch structure • Uneven crown
987	Poplar-Eastern	8	• Buried root collar • Poor branch structure • Uneven crown

Tree ID	Common Name	DBH	Defect(s) or Observation(s)
988	Poplar-Eastern	13	• Buried root collar • Co-dominant stems • Poor branch structure • Uneven crown
989	Poplar-Eastern	15	• Buried root collar • Co-dominant stems • Poor branch structure • Uneven crown
990	Poplar-Eastern	7	• Buried root collar • Co-dominant stems • Poor branch structure • Uneven crown
993	Locust-Black	10	• Buried root collar • Co-dominant stems • Dead branches >2 • Included bark • Poor branch structure
994	Poplar-Eastern	15	• Buried root collar • Dead branches >2 • Poor branch structure • Uneven crown
995	Locust-Black	10	• Co-dominant stems • Dead branches >2 • Included bark • Poor branch structure • Uneven crown
996	Poplar-Eastern	19	• Buried root collar • Co-dominant stems • Poor branch structure • Uneven crown
997	Poplar-Eastern	18	• Buried root collar • Poor branch structure • Uneven crown
998	Poplar-Eastern	8	• Buried root collar • Poor branch structure • Uneven crown
999	Maple-Boxelder	8	• Buried root collar • Poor branch structure
1000	Oak-Pin	8	• Buried root collar • Poor branch structure • Uneven crown
1101	Locust-Black	7	• Dead branches >2 • Low vigor
1102	Maple-Norway	8	• Girdling material • Poor branch structure • Uneven crown

Tree ID	Common Name	DBH	Defect(s) or Observation(s)
1103	Locust-Black	7	• Girdling material
1104	Locust-Black	8	• Dead branches <=2
1105	Locust-Black	8	• Dead branches <=2 • Uneven crown
1106	Locust-Black	6	• Dead branches >2 • Uneven crown
1107	Locust-Black	6	• Dead branches <=2 • Uneven crown
1109	Planetree-London	18	• Dead branches >2 • Girdling material • Poor branch structure • Uneven crown
1110	Locust-Black	10	• Co-dominant stems • Dead branches <=2 • Uneven crown
1111	Locust-Black	6	• Co-dominant stems • Uneven crown • Wound-stem
1112	Locust-Black	8	• Dead branches <=2 • Uneven crown
1113	Locust-Black	7	• Dead branches >2 • Girdling material • Uneven crown
1114	Locust-Black	12	• Dead branches >2 • Uneven crown • Wound-stem
1115	Locust-Black	10	• Girdling material • Uneven crown
1116	Locust-Black	6	• Dead branches <=2 • Uneven crown • Wound-stem
1117	Locust-Black	11	• Co-dominant stems • Dead branches >2 • Girdling material • Uneven crown
1118	Locust-Black	12	• Dead branches >2 • Uneven crown • Wound-stem
1119	Locust-Black	7	• Co-dominant stems • Dead branches >2 • Poor branch structure • Uneven crown

Tree ID	Common Name	DBH	Defect(s) or Observation(s)
1120	Locust-Black	9	• Dead branches >2 • Girdling material • Poor branch structure • Uneven crown
1121	Locust-Black	8	• Dead branches >2 • Uneven crown • Wound-stem
1122	Locust-Black	6	• Co-dominant stems • Dead branches >2 • Uneven crown • Wound-stem
1123	Locust-Black	8	• Dead branches >2 • Girdling material • Poor branch structure • Uneven crown
1124	Locust-Black	7	• Uneven crown
1125	Locust-Black	7	• Dead branches >2
1126	Locust-Black	6	• Uneven crown
1128	Locust-Black	7	• Dead branches <=2
1129	Locust-Black	8	• Dead branches <=2 • Uneven crown
1130	Elm-Slippery	10	• Co-dominant stems • Growing against object
1132	Locust-Black	6	• Dead branches <=2 • Uneven crown
1133	Locust-Black	9	• Co-dominant stems • Uneven crown
1134	Locust-Black	7	• Co-dominant stems • Dead branches >2
1135	Locust-Black	7	• Co-dominant stems • Poor branch structure • Uneven crown
1136	Locust-Black	6	• Uneven crown • Wound-stem
1137	Locust-Black	8	• Dead branches >2 • Uneven crown
1138	Locust-Black	8	• Co-dominant stems • Dead branches >2
1139	Locust-Black	8	• Co-dominant stems • Dead branches <=2 • Sweep
1140	Poplar-Aspen	6	• Storm damage

INVENTORIED TREES WITH DEFECTS, OBSERVATIONS, OR OTHER STRUCTURAL ISSUES



ENTIRE INVENTORY

ENTIRE INVENTORY (501 Trees)

Tree ID	Common Name	Genus	Species	DBH	Height Class	Age Class	Condition Class	Tree & Shrub Work Phase	Tree Asset Value
540	Elm-American	*Ulmus*	*americana*	10	Medium	Semi-mature	Fair	...	$1,208.90
541	Poplar-Aspen	*Populus*	*tremuloides*	6	Medium	Young	Good	...	$276.95
542	Poplar-Aspen	*Populus*	*tremuloides*	9	Medium	Semi-mature	Fair	...	$445.10
543	Poplar-Aspen	*Populus*	*tremuloides*	6	Medium	Young	Good	...	$276.95
544	Poplar-Eastern	*Populus*	*deltoides*	6	Medium	Young	Good	...	$387.73
545	Poplar-Aspen	*Populus*	*tremuloides*	7	Medium	Young	Good	...	$376.96
546	Poplar-Aspen	*Populus*	*tremuloides*	6	Medium	Young	Good	...	$276.95
547	Poplar-Aspen	*Populus*	*tremuloides*	6	Medium	Young	Good	...	$276.95
548	Poplar-Aspen	*Populus*	*tremuloides*	6	Medium	Young	Fair	...	$197.82
549	Poplar-Aspen	*Populus*	*tremuloides*	6	Large	Young	Good	...	$276.95
550	Poplar-Aspen	*Populus*	*tremuloides*	11	Medium	Young	Fair	...	$664.89
551	Poplar-Aspen	*Populus*	*tremuloides*	20	Large	Mature	Good	...	$3,077.20
552	Poplar-Aspen	*Populus*	*tremuloides*	15	Large	Semi-mature	Fair	...	$1,236.38
553	Poplar-Aspen	*Populus*	*tremuloides*	15	Large	Semi-mature	Fair	...	$1,236.38
554	Poplar-Aspen	*Populus*	*tremuloides*	17	Large	Semi-mature	Good	...	$2,223.28
555	Maple-Boxelder	*Acer*	*negundo*	6,6,4,4,3	Medium	Semi-mature	Poor	1	$521.59
556	Oak-Pin	*Quercus*	*palustris*	6	Medium	Young	Good	...	$941.62
557	Poplar-Eastern	*Populus*	*deltoides*	21	Large	Mature	Fair	...	$3,392.61
558	Poplar-Eastern	*Populus*	*deltoides*	16,8	Large	Semi-mature	Fair	...	$2,461.76
559	Birch-Paper	*Betula*	*papyrifera*	7,2,2,2,2	Medium	Semi-mature	Poor	...	$642.91
560	Birch-Paper	*Betula*	*papyrifera*	8	Medium	Semi-mature	Fair	...	$1,055.04

Tree ID	Common Name	Genus	Species	DBH	Height Class	Age Class	Condition Class	Tree & Shrub Work Phase	Tree Asset Value
561	Birch-Paper	*Betula*	*papyrifera*	6,6	Medium	Semi-mature	Fair	...	$1,186.92
562	Birch-Paper	*Betula*	*papyrifera*	6	Medium	Young	Fair	...	$593.46
563	Maple-Norway	*Acer*	*platanoides*	14,10	Medium	Semi-mature	Fair	...	$4,228.95
564	Maple-Boxelder	*Acer*	*negundo*	8,6,6,5	Medium	Semi-mature	Poor	1	$743.14
565	Pine-Eastern White	*Pinus*	*strobus*	20	Large	Mature	Good	...	$10,462.48
566	Pine-Eastern White	*Pinus*	*strobus*	16	Large	Semi-mature	Good	...	$6,695.99
567	Pine-Eastern White	*Pinus*	*strobus*	23	Large	Mature	Fair	...	$9,883.31
568	Pine-Eastern White	*Pinus*	*strobus*	14	Medium	Semi-mature	Dead	ASAP	$0.00
569	Pine-Eastern White	*Pinus*	*strobus*	16	Medium	Semi-mature	Fair	...	$4,782.85
570	Pine-Eastern White	*Pinus*	*strobus*	17	Medium	Semi-mature	Dead	ASAP	$0.00
571	Poplar-Eastern	*Populus*	*deltoides*	20,10	Large	Mature	Fair	...	$3,846.50
572	Maple-Norway	*Acer*	*platanoides*	6	Medium	Young	Fair	...	$514.33
573	Oak-Pin	*Quercus*	*palustris*	6	Medium	Young	Good	...	$941.62
574	Cherry-Flowering	*Prunus*	*serrulata*	6	Medium	Young	Good	...	$830.84
575	Oak-Northern Red	*Quercus*	*rubra*	11	Medium	Semi-mature	Good	...	$3,537.24
576	Oak-Northern Red	*Quercus*	*rubra*	14	Medium	Semi-mature	Good	...	$5,729.75

Tree ID	Common Name	Genus	Species	DBH	Height Class	Age Class	Condition Class	Tree & Shrub Work Phase	Tree Asset Value
577	Oak-Northern Red	*Quercus*	*rubra*	20	Large	Mature	Good	...	$11,693.36
578	Oak-Northern Red	*Quercus*	*rubra*	18	Large	Mature	Fair	...	$6,765.44
579	Oak-Northern Red	*Quercus*	*rubra*	22	Large	Mature	Good	...	$14,148.97
580	Oak-Northern Red	*Quercus*	*rubra*	17	Large	Mature	Good	...	$8,448.45
581	Oak-Northern Red	*Quercus*	*rubra*	19	Large	Mature	Poor	ASAP	$4,522.82
582	Oak-Northern Red	*Quercus*	*rubra*	20	Large	Mature	Good	...	$11,693.36
583	Oak-Northern Red	*Quercus*	*rubra*	22	Large	Mature	Good	...	$14,148.97
584	Honeylocust-Common	*Gleditsia*	*triacanthos*	10	Medium	Semi-mature	Good	...	$2,000.18
585	Honeylocust-Common	*Gleditsia*	*triacanthos*	8	Medium	Young	Good	...	$1,280.12
586	Willow	*Salix*	sp.	12	Medium	Semi-mature	Fair	...	$2,215.58
587	Dawn Redwood	*Metasequoia*	*glyptostroboides*	6	Medium	Young	Fair	...	$553.90
588	Elm-American	*Ulmus*	*americana*	6	Medium	Young	Good	...	$609.29
589	Tree of Heaven	*Ailanthus*	*altissima*	11	Medium	Semi-mature	Good	...	$558.51
590	Tree of Heaven	*Ailanthus*	*altissima*	6	Medium	Young	Fair	...	$118.69
591	Tree of Heaven	*Ailanthus*	*altissima*	12,104	Medium	Semi-mature	Fair	...	$10,961.50

Tree ID	Common Name	Genus	Species	DBH	Height Class	Age Class	Condition Class	Tree & Shrub Work Phase	Tree Asset Value
592	Maple-Norway	*Acer*	*platanoides*	9	Medium	Young	Good	...	$1,620.15
593	Tree of Heaven	*Ailanthus*	*altissima*	12	Medium	Young	Poor	...	$284.86
594	Tree of Heaven	*Ailanthus*	*altissima*	10	Medium	Semi-mature	Poor	1	$197.82
595	Tree of Heaven	*Ailanthus*	*altissima*	10,10	Medium	Semi-mature	Good	...	$923.16
596	Tree of Heaven	*Ailanthus*	*altissima*	8,7	Medium	Semi-mature	Fair	...	$372.56
597	Tree of Heaven	*Ailanthus*	*altissima*	11	Medium	Semi-mature	Good	...	$558.51
598	Tree of Heaven	*Ailanthus*	*altissima*	18	Medium	Semi-mature	Poor	...	$640.94
599	Tree of Heaven	*Ailanthus*	*altissima*	10	Medium	Semi-mature	Good	...	$461.58
600	Tree of Heaven	*Ailanthus*	*altissima*	11	Medium	Semi-mature	Poor	...	$239.36
601	Tree of Heaven	*Ailanthus*	*altissima*	12	Medium	Semi-mature	Fair	...	$474.77
602	Tree of Heaven	*Ailanthus*	*altissima*	15,8	Medium	Semi-mature	Poor	...	$571.70
603	Poplar-Eastern	*Populus*	*deltoides*	24	Large	Mature	Fair	...	$4,431.17
604	Tree of Heaven	*Ailanthus*	*altissima*	11	Medium	Semi-mature	Fair	...	$398.94
605	Elm-Slippery	*Ulmus*	*rubra*	11,8	Medium	Semi-mature	Fair	...	$2,236.47
606	Elm-Slippery	*Ulmus*	*rubra*	7	Medium	Young	Good	...	$829.31
607	Elm-Slippery	*Ulmus*	*rubra*	6,4	Medium	Young	Fair	...	$628.63

Tree ID	Common Name	Genus	Species	DBH	Height Class	Age Class	Condition Class	Tree & Shrub Work Phase	Tree Asset Value
608	Tree of Heaven	*Ailanthus*	*altissima*	20	Large	Mature	Fair	...	$1,318.80
609	Elm-Slippery	*Ulmus*	*rubra*	9	Medium	Semi-mature	Good	...	$1,370.89
610	Elm-Slippery	*Ulmus*	*rubra*	7	Medium	Semi-mature	Good	...	$829.31
611	Hackberry	*Celtis*	*occidentalis*	6	Medium	Semi-mature	Poor	...	$356.08
612	Poplar-Eastern	*Populus*	*deltoides*	12	Medium	Semi-mature	Fair	...	$1,107.79
613	Poplar-Eastern	*Populus*	*deltoides*	20	Large	Mature	Fair	...	$3,077.20
614	Poplar-Eastern	*Populus*	*deltoides*	18	Large	Mature	Good	...	$3,489.54
615	Elm-Slippery	*Ulmus*	*rubra*	6	Medium	Young	Good	...	$609.29
616	Poplar-Eastern	*Populus*	*deltoides*	24,13	Large	Mature	Good	...	$8,023.80
617	Poplar-Eastern	*Populus*	*deltoides*	11	Large	Semi-mature	Good	...	$1,303.19
618	Oak-Northern Red	*Quercus*	*rubra*	7	Medium	Young	Good	...	$1,432.44
619	Tree of Heaven	*Ailanthus*	*altissima*	6	Medium	Young	Fair	...	$118.69
620	Poplar-Eastern	*Populus*	*deltoides*	20,16	Large	Mature	Good	...	$7,065.25
621	Willow	*Salix*	sp.	10	Medium	Semi-mature	Fair	...	$1,538.60
622	Poplar-Eastern	*Populus*	*deltoides*	6	Medium	Young	Good	...	$387.73
623	Poplar-Eastern	*Populus*	*deltoides*	6	Medium	Young	Good	...	$387.73
624	Poplar-Eastern	*Populus*	*deltoides*	12	Medium	Young	Good	...	$1,550.91

Tree ID	Common Name	Genus	Species	DBH	Height Class	Age Class	Condition Class	Tree & Shrub Work Phase	Tree Asset Value
625	Poplar-Eastern	*Populus*	*deltoides*	11	Medium	Young	Fair	...	$930.85
626	Poplar-Eastern	*Populus*	*deltoides*	15	Large	Semi-mature	Good	...	$2,423.30
627	Poplar-Eastern	*Populus*	*deltoides*	16,11	Large	Mature	Fair	...	$2,900.26
628	Poplar-Eastern	*Populus*	*deltoides*	12,8	Large	Young	Good	...	$2,240.20
629	Oak-Northern Red	*Quercus*	*rubra*	9	Large	Young	Good	...	$2,367.91
630	Poplar-Eastern	*Populus*	*deltoides*	16	Large	Semi-mature	Fair	...	$1,969.41
631	Oak-Northern Red	*Quercus*	*rubra*	6	Medium	Young	Good	...	$1,052.40
632	Maple-Norway	*Acer*	*platanoides*	7	Medium	Young	Fair	...	$700.06
633	Oak-Pin	*Quercus*	*palustris*	21	Large	Mature	Fair	...	$8,239.20
634	Maple-Norway	*Acer*	*platanoides*	8	Medium	Young	Fair	...	$914.37
635	Oak-Northern Red	*Quercus*	*rubra*	6	Medium	Young	Good	...	$1,052.40
636	Elm-Slippery	*Ulmus*	*rubra*	7	Medium	Young	Fair	...	$592.36
637	Elm-Slippery	*Ulmus*	*rubra*	9	Medium	Young	Fair	...	$979.21
638	Elm-Slippery	*Ulmus*	*rubra*	10	Medium	Semi-mature	Fair	...	$1,208.90
639	Cherry-Flowering	*Prunus*	*serrulata*	7	Medium	Young	Good	...	$1,130.87
640	Maple-Norway	*Acer*	*platanoides*	9	Medium	Young	Good	...	$1,620.15
641	Tree of Heaven	*Ailanthus*	*altissima*	21	Medium	Mature	Poor	1	$872.39

Tree ID	Common Name	Genus	Species	DBH	Height Class	Age Class	Condition Class	Tree & Shrub Work Phase	Tree Asset Value
642	Crabapple	*Malus*	sp.	6	Medium	Semi-mature	Good	...	$775.45
643	Tree of Heaven	*Ailanthus*	*altissima*	8	Medium	Semi-mature	Poor	...	$126.60
644	Tree of Heaven	*Ailanthus*	*altissima*	6,6	Medium	Young	Good	...	$332.34
645	Maple-Norway	*Acer*	*platanoides*	11	Medium	Semi-mature	Fair	...	$1,728.73
646	Tree of Heaven	*Ailanthus*	*altissima*	9	Medium	Semi-mature	Poor	...	$160.23
647	Tree of Heaven	*Ailanthus*	*altissima*	14,14	Medium	Semi-mature	Poor	1	$775.45
648	Elm-Slippery	*Ulmus*	*rubra*	9	Medium	Young	Fair	...	$979.21
649	Maple-Norway	*Acer*	*platanoides*	14	Medium	Semi-mature	Poor	...	$1,680.15
650	Maple-Norway	*Acer*	*platanoides*	10	Medium	Semi-mature	Fair	...	$1,428.70
651	Tree of Heaven	*Ailanthus*	*altissima*	11	Medium	Semi-mature	Poor	...	$239.36
652	Elm-Slippery	*Ulmus*	*rubra*	9	Medium	Semi-mature	Fair	...	$979.21
653	Maple-Norway	*Acer*	*platanoides*	6	Medium	Young	Good	...	$720.06
654	Elm-Slippery	*Ulmus*	*rubra*	9,9	Medium	Semi-mature	Fair	...	$1,958.42
655	Tree of Heaven	*Ailanthus*	*altissima*	9	Medium	Young	Dead	...	...
656	Maple-Norway	*Acer*	*platanoides*	8	Medium	Young	Fair	...	$914.37
657	Tree of Heaven	*Ailanthus*	*altissima*	13	Medium	Semi-mature	Poor	...	$334.32
658	Tree of Heaven	*Ailanthus*	*altissima*	8	Medium	Young	Poor	...	$126.60

Tree ID	Common Name	Genus	Species	DBH	Height Class	Age Class	Condition Class	Tree & Shrub Work Phase	Tree Asset Value
659	Crabapple	*Malus*	sp.	10	Medium	Semi-mature	Poor	...	$923.16
660	Elm-Slippery	*Ulmus*	*rubra*	6	Medium	Young	Good	...	$609.29
661	Maple-Norway	*Acer*	*platanoides*	7	Medium	Young	Fair	...	$700.06
662	Crabapple	*Malus*	sp.	10,8	Medium	Mature	Fair	...	$2,523.30
663	Maple-Norway	*Acer*	*platanoides*	6	Medium	Mature	Fair	...	$514.33
664	Maple-Norway	*Acer*	*platanoides*	12	Medium	Semi-mature	Fair	...	$2,057.33
665	Poplar-Eastern	*Populus*	*deltoides*	17	Large	Semi-mature	Fair	...	$2,223.28
666	Elm-Slippery	*Ulmus*	*rubra*	11,6	Medium	Semi-mature	Good	...	$2,657.16
667	Maple-Norway	*Acer*	*platanoides*	6	Medium	Young	Poor	...	$308.60
668	Cherry-Black	*Prunus*	*serotina*	6	Medium	Young	Fair	...	$356.08
669	Ash-Green	*Fraxinus*	*pennsylvanica*	16,13,11,9,8	Medium	Mature	Poor	...	$6,834.68
670	Ash-Green	*Fraxinus*	*pennsylvanica*	7	Medium	Young	Fair	...	$807.76
671	Elm-Slippery	*Ulmus*	*rubra*	6	Medium	Young	Fair	...	$435.20
672	Elm-Slippery	*Ulmus*	*rubra*	15	Medium	Semi-mature	Good	...	$3,808.03
673	Elm-Slippery	*Ulmus*	*rubra*	7	Medium	Young	Fair	...	$592.36
674	Elm-Slippery	*Ulmus*	*rubra*	6	Medium	Young	Good	...	$609.29
675	Ash-Green	*Fraxinus*	*pennsylvanica*	23,13	Medium	Mature	Poor	...	$6,903.92
676	Linden-Littleleaf	*Tilia*	*cordata*	6	Medium	Young	Poor	...	$356.08
677	Linden-Littleleaf	*Tilia*	*cordata*	6	Medium	Young	Good	...	$830.84
678	Tree of Heaven	*Ailanthus*	*altissima*	8	Medium	Young	Dead	1	...

Tree ID	Common Name	Genus	Species	DBH	Height Class	Age Class	Condition Class	Tree & Shrub Work Phase	Tree Asset Value
679	Tree of Heaven	*Ailanthus*	*altissima*	8	Medium	Young	Fair	...	$211.01
680	Tree of Heaven	*Ailanthus*	*altissima*	8	Medium	Young	Poor	...	$126.60
681	Tree of Heaven	*Ailanthus*	*altissima*	6	Medium	Young	Fair	...	$118.69
682	Maple-Norway	*Acer*	*platanoides*	10	Medium	Semi-mature	Fair	...	$1,428.70
683	Maple-Norway	*Acer*	*platanoides*	8	Medium	Young	Poor	...	$548.62
684	Cherry-Black	*Prunus*	*serotina*	6	Medium	Young	Poor	...	$213.65
685	Willow	*Salix*	sp.	20,15	Medium	Mature	Poor	...	$5,769.75
686	Mulberry-Red	*Morus*	*rubra*	7	Medium	Young	Fair	...	$376.96
687	Tree of Heaven	*Ailanthus*	*altissima*	7	Medium	Young	Poor	...	$96.93
688	Tree of Heaven	*Ailanthus*	*altissima*	10	Medium	Semi-mature	Poor	...	$197.82
689	Mulberry-Red	*Morus*	*rubra*	14	Medium	Mature	Fair	...	$1,507.83
690	Linden-Littleleaf	*Tilia*	*cordata*	6	Medium	Young	Poor	...	$356.08
691	Mulberry-Red	*Morus*	*rubra*	8	Medium	Young	Poor	...	$295.41
692	Mulberry-Red	*Morus*	*rubra*	9	Medium	Semi-mature	Poor	...	$373.88
693	Willow	*Salix*	sp.	14,12	Medium	Mature	Poor	...	$3,138.74
694	Tree of Heaven	*Ailanthus*	*altissima*	7	Medium	Young	Poor	...	$96.93
695	Willow	*Salix*	sp.	16	Medium	Mature	Good	...	$5,514.34

Tree ID	Common Name	Genus	Species	DBH	Height Class	Age Class	Condition Class	Tree & Shrub Work Phase	Tree Asset Value
696	Oak-Pin	*Quercus*	*palustris*	7,6	Medium	Young	Good	...	$2,223.28
697	Linden-Littleleaf	*Tilia*	*cordata*	6	Medium	Young	Good	...	$830.84
698	Linden-Littleleaf	*Tilia*	*cordata*	12	Medium	Semi-mature	Good	...	$3,323.38
699	Maple-Norway	*Acer*	*platanoides*	6	Medium	Young	Good	...	$720.06
700	Tree of Heaven	*Ailanthus*	*altissima*	6	Medium	Young	Poor	...	$71.22
701	Oak-Pin	*Quercus*	*palustris*	7	Medium	Young	Good	...	$1,281.65
702	Oak-Pin	*Quercus*	*palustris*	11	Medium	Semi-mature	Good	...	$3,164.90
703	Elm-Slippery	*Ulmus*	*rubra*	17	Medium	Mature	Good	...	$4,891.21
704	Linden-Littleleaf	*Tilia*	*cordata*	7	Medium	Young	Good	...	$1,130.87
705	Tree of Heaven	*Ailanthus*	*altissima*	9,9	Medium	Semi-mature	Fair	...	$534.11
706	Linden-Littleleaf	*Tilia*	*cordata*	6	Medium	Young	Fair	...	$593.46
707	Oak-Pin	*Quercus*	*palustris*	22	Large	Mature	Good	...	$12,659.60
708	Oak-Pin	*Quercus*	*palustris*	18	Large	Mature	Good	...	$8,474.61
709	Juniper-Eastern Redcedar	*Juniperus*	*virginiana*	6	Medium	Young	Good	...	$720.06
710	Oak-Pin	*Quercus*	*palustris*	9	Medium	Young	Good	...	$2,118.65
711	Tree of Heaven	*Ailanthus*	*altissima*	7	Medium	Young	Poor	...	$96.93
712	Cherry-Flowering	*Prunus*	*serrulata*	26	Medium	Over-mature	Poor	...	$6,686.32
713	Cherry-Flowering	*Prunus*	*serrulata*	10	Medium	Young	Poor	...	$989.10

Tree ID	Common Name	Genus	Species	DBH	Height Class	Age Class	Condition Class	Tree & Shrub Work Phase	Tree Asset Value
714	Maple-Norway	*Acer*	*platanoides*	8	Medium	Young	Fair	...	$914.37
715	Cherry-Black	*Prunus*	*serotina*	18,16	Medium	Mature	Poor	...	$3,442.07
716	Oak-Pin	*Quercus*	*palustris*	21	Large	Mature	Good	...	$11,534.88
717	Maple-Norway	*Acer*	*platanoides*	8	Medium	Young	Fair	...	$914.37
718	Cherry-Flowering	*Prunus*	*serrulata*	6	Medium	Semi-mature	Poor	...	$356.08
719	Willow-Pussy	*Salix*	*discolor*	7,7,3,3,2,2	Medium	Mature	Poor	...	$1,144.72
720	Oak-Pin	*Quercus*	*palustris*	18	Large	Mature	Good	...	$8,474.61
721	Maple-Red	*Acer*	*rubrum*	15	Medium	Mature	Good	...	$5,192.77
722	Maple-Red	*Acer*	*rubrum*	6	Medium	Young	Good	...	$830.84
723	Maple-Red	*Acer*	*rubrum*	11	Medium	Semi-mature	Fair	...	$1,994.69
724	Maple-Red	*Acer*	*rubrum*	17	Medium	Mature	Good	...	$6,669.83
725	Maple-Red	*Acer*	*rubrum*	11	Medium	Semi-mature	Good	...	$2,792.56
726	Maple-Red	*Acer*	*rubrum*	11	Medium	Semi-mature	Good	...	$2,792.56
727	Maple-Red	*Acer*	*rubrum*	20	Large	Mature	Poor	1	$3,956.40
728	Willow	*Salix*	sp.	31,26,25,18,16,16	Large	Over-mature	Fair	...	$47,371.44
729	Crabapple	*Malus*	sp.	9	Medium	Semi-mature	Dead	1	...
730	Cherry-Flowering	*Prunus*	*serrulata*	10	Medium	Young	Fair	...	$1,648.50
731	Oak-Pin	*Quercus*	*palustris*	14	Large	Semi-mature	Fair	...	$3,661.87
732	Oak-Pin	*Quercus*	*palustris*	10	Medium	Young	Good	...	$2,615.62
733	Oak-Pin	*Quercus*	*palustris*	22	Large	Mature	Good	...	$12,659.60
734	Oak-Pin	*Quercus*	*palustris*	15	Large	Semi-mature	Good	...	$5,885.15
735	Tree of Heaven	*Ailanthus*	*altissima*	7,6	Medium	Young	Poor	...	$168.15
736	Tree of Heaven	*Ailanthus*	*altissima*	6	Medium	Young	Fair	...	$118.69

Tree ID	Common Name	Genus	Species	DBH	Height Class	Age Class	Condition Class	Tree & Shrub Work Phase	Tree Asset Value
737	Tree of Heaven	*Ailanthus*	*altissima*	10,9,8,7	Medium	Mature	Fair	...	$969.32
738	Tree of Heaven	*Ailanthus*	*altissima*	6	Medium	Young	Poor	...	$71.22
739	Tree of Heaven	*Ailanthus*	*altissima*	6	Medium	Young	Poor	...	$71.22
740	Tree of Heaven	*Ailanthus*	*altissima*	8	Medium	Young	Poor	...	$126.60
741	Tree of Heaven	*Ailanthus*	*altissima*	6	Medium	Young	Poor	...	$71.22
742	Cherry-Black	*Prunus*	*serotina*	6	Medium	Young	Fair	...	$356.08
743	Cherry-Black	*Prunus*	*serotina*	6	Medium	Young	Dead	1	...
744	Oak-Pin	*Quercus*	*palustris*	10	Medium	Young	Fair	...	$1,868.30
745	Maple-Red	*Acer*	*rubrum*	7	Medium	Young	Poor	...	$484.66
746	Cherry-Black	*Prunus*	*serotina*	10,9	Medium	Semi-mature	Poor	...	$1,074.16
747	Ash-Green	*Fraxinus*	*pennsylvanica*	12	Medium	Semi-mature	Fair	...	$2,373.84
748	Oak-Pin	*Quercus*	*palustris*	16	Medium	Semi-mature	Fair	...	$4,782.85
749	Pear-Callery	*Pyrus*	*calleryana*	9	Medium	Semi-mature	Fair	...	$801.17
750	Oak-Pin	*Quercus*	*palustris*	7	Medium	Young	Good	...	$1,281.65
751	Poplar-Eastern	*Populus*	*deltoides*	26	Large	Mature	Fair	...	$5,200.47
752	Poplar-Eastern	*Populus*	*deltoides*	21	Large	Mature	Fair	...	$3,392.61
753	Birch-Paper	*Betula*	*papyrifera*	8	Medium	Semi-mature	Good	...	$1,477.06
754	Poplar-Eastern	*Populus*	*deltoides*	19	Large	Mature	Poor	...	$1,666.30
755	Poplar-Eastern	*Populus*	*deltoides*	21,13	Large	Mature	Fair	...	$4,692.73
756	Poplar-Eastern	*Populus*	*deltoides*	19	Large	Mature	Good	...	$3,888.04

Tree ID	Common Name	Genus	Species	DBH	Height Class	Age Class	Condition Class	Tree & Shrub Work Phase	Tree Asset Value
757	Poplar-Eastern	*Populus*	*deltoides*	13	Large	Semi-mature	Fair	...	$1,300.12
758	Poplar-Aspen	*Populus*	*tremuloides*	6	Medium	Young	Good	...	$276.95
759	Poplar-Aspen	*Populus*	*tremuloides*	7	Medium	Young	Fair	...	$269.25
760	Poplar-Aspen	*Populus*	*tremuloides*	6	Medium	Young	Good	...	$276.95
761	Poplar-Aspen	*Populus*	*tremuloides*	6	Medium	Young	Good	...	$276.95
762	Poplar-Aspen	*Populus*	*tremuloides*	6,4	Medium	Young	Good	...	$400.04
763	Poplar-Aspen	*Populus*	*tremuloides*	6	Medium	Young	Good	...	$276.95
764	Poplar-Aspen	*Populus*	*tremuloides*	6	Medium	Young	Fair	...	$197.82
765	Poplar-Eastern	*Populus*	*deltoides*	15	Medium	Semi-mature	Good	...	$2,423.29
766	Poplar-Eastern	*Populus*	*deltoides*	17,12	Medium	Semi-mature	Good	...	$4,663.50
767	Poplar-Eastern	*Populus*	*deltoides*	10	Medium	Young	Fair	...	$769.30
768	Oak-Pin	*Quercus*	*palustris*	8	Medium	Young	Good	...	$1,674.00
769	Poplar-Eastern	*Populus*	*deltoides*	11	Medium	Young	Fair	...	$930.85
770	Birch-Paper	*Betula*	*papyrifera*	6	Medium	Young	Good	...	$830.84
771	Poplar-Aspen	*Populus*	*tremuloides*	6	Medium	Young	Fair	...	$197.82
772	Poplar-Aspen	*Populus*	*tremuloides*	8	Medium	Young	Good	...	$492.35
773	Poplar-Aspen	*Populus*	*tremuloides*	8	Medium	Young	Poor	...	$211.01
774	Poplar-Aspen	*Populus*	*tremuloides*	7	Medium	Young	Good	...	$376.96
775	Poplar-Aspen	*Populus*	*tremuloides*	6	Medium	Young	Good	...	$276.95
776	Poplar-Aspen	*Populus*	*tremuloides*	6	Medium	Young	Good	...	$276.95
777	Poplar-Aspen	*Populus*	*tremuloides*	7	Medium	Young	Fair	...	$269.25
778	Poplar-Aspen	*Populus*	*tremuloides*	6	Medium	Young	Dead	...	...
779	Poplar-Aspen	*Populus*	*tremuloides*	6	Medium	Young	Dead	...	...
780	Poplar-Aspen	*Populus*	*tremuloides*	6	Medium	Young	Good	...	$276.95
781	Poplar-Aspen	*Populus*	*tremuloides*	6	Medium	Young	Good	...	$276.95

Tree ID	Common Name	Genus	Species	DBH	Height Class	Age Class	Condition Class	Tree & Shrub Work Phase	Tree Asset Value
782	Poplar-Aspen	*Populus*	*tremuloides*	6	Medium	Young	Good	...	$276.95
783	Poplar-Eastern	*Populus*	*deltoides*	21,14	Large	Mature	Good	...	$6,860.62
784	Poplar-Eastern	*Populus*	*deltoides*	14,13,7	Large	Mature	Fair	...	$3,184.90
785	Poplar-Eastern	*Populus*	*deltoides*	11,7	Large	Semi-mature	Good	...	$1,830.93
786	Poplar-Eastern	*Populus*	*deltoides*	16	Large	Semi-mature	Good	...	$2,757.17
787	Poplar-Eastern	*Populus*	*deltoides*	10	Large	Semi-mature	Fair	...	$769.30
788	Poplar-Eastern	*Populus*	*deltoides*	10	Large	Mature	Good	...	$1,077.02
789	Poplar-Eastern	*Populus*	*deltoides*	10	Large	Young	Good	...	$1,077.02
790	Poplar-Eastern	*Populus*	*deltoides*	20	Large	Mature	Good	...	$4,308.08
791	Poplar-Eastern	*Populus*	*deltoides*	21	Large	Mature	Fair	...	$3,392.61
792	Poplar-Eastern	*Populus*	*deltoides*	14,12	Large	Mature	Fair	...	$2,615.62
793	Locust-Black	*Robinia*	*pseudoacacia*	6	Medium	Young	Fair	...	$553.90
794	Elm-American	*Ulmus*	*americana*	15	Medium	Semi-mature	Fair	...	$2,720.02
795	Poplar-Eastern	*Populus*	*deltoides*	20	Large	Mature	Fair	...	$3,077.20
796	Poplar-Eastern	*Populus*	*deltoides*	16	Large	Semi-mature	Fair	...	$1,969.41
797	Poplar-Eastern	*Populus*	*deltoides*	12	Medium	Young	Fair	...	$1,107.79

Tree ID	Common Name	Genus	Species	DBH	Height Class	Age Class	Condition Class	Tree & Shrub Work Phase	Tree Asset Value
798	Maple-Norway	*Acer*	*platanoides*	6	Medium	Young	Good	...	$720.06
799	Elm-Slippery	*Ulmus*	*rubra*	8,3	Medium	Young	Good	...	$1,235.50
800	Locust-Black	*Robinia*	*pseudoacacia*	18,11,9,8	Large	Mature	Fair	...	$9,077.74
801	Poplar-Eastern	*Populus*	*deltoides*	11	Large	Semi-mature	Fair	...	$930.85
802	Poplar-Eastern	*Populus*	*deltoides*	9	Large	Semi-mature	Poor	1	$373.88
803	Poplar-Eastern	*Populus*	*deltoides*	10	Large	Semi-mature	Fair	...	$769.30
804	Poplar-Eastern	*Populus*	*deltoides*	7	Large	Young	Good	...	$527.74
805	Poplar-Eastern	*Populus*	*deltoides*	11,7	Large	Young	Good	...	$1,830.93
806	Poplar-Eastern	*Populus*	*deltoides*	6	Large	Young	Good	...	$387.73
807	Poplar-Eastern	*Populus*	*deltoides*	10	Large	Semi-mature	Fair	1	$769.30
808	Poplar-Eastern	*Populus*	*deltoides*	12	Large	Semi-mature	Good	...	$1,550.91
809	Poplar-Eastern	*Populus*	*deltoides*	15	Large	Semi-mature	Fair	1	$1,730.93
810	Poplar-Eastern	*Populus*	*deltoides*	13	Large	Semi-mature	Fair	...	$1,300.12
811	Poplar-Eastern	*Populus*	*deltoides*	9	Large	Semi-mature	Fair	...	$623.13
812	Poplar-Eastern	*Populus*	*deltoides*	24	Large	Mature	Good	...	$6,203.64
813	Poplar-Eastern	*Populus*	*deltoides*	17	Large	Semi-mature	Good	...	$3,112.59

Tree ID	Common Name	Genus	Species	DBH	Height Class	Age Class	Condition Class	Tree & Shrub Work Phase	Tree Asset Value
814	Poplar-Eastern	*Populus*	*deltoides*	15	Large	Semi-mature	Fair	...	$1,730.93
815	Poplar-Eastern	*Populus*	*deltoides*	13,11	Large	Semi-mature	Fair	...	$2,230.97
816	Elm-Slippery	*Ulmus*	*rubra*	7	Medium	Semi-mature	Fair	...	$592.36
817	Poplar-Eastern	*Populus*	*deltoides*	17	Large	Semi-mature	Good	...	$3,112.59
818	Poplar-Eastern	*Populus*	*deltoides*	11	Large	Semi-mature	Good	...	$1,303.19
819	Poplar-Eastern	*Populus*	*deltoides*	8	Medium	Semi-mature	Fair	...	$492.35
820	Poplar-Eastern	*Populus*	*deltoides*	7	Medium	Semi-mature	Fair	...	$376.96
821	Oak-Northern Red	*Quercus*	*rubra*	6	Medium	Young	Good	...	$1,052.40
822	Poplar-Eastern	*Populus*	*deltoides*	16	Large	Semi-mature	Good	...	$2,757.17
823	Poplar-Eastern	*Populus*	*deltoides*	17	Large	Semi-mature	Good	...	$3,112.59
824	Poplar-Eastern	*Populus*	*deltoides*	25	Large	Mature	Good	...	$6,731.38
825	Poplar-Eastern	*Populus*	*deltoides*	16	Large	Semi-mature	Fair	...	$1,969.41
826	Poplar-Eastern	*Populus*	*deltoides*	11	Large	Semi-mature	Fair	...	$930.85
827	Poplar-Eastern	*Populus*	*deltoides*	17,14	Large	Semi-mature	Good	...	$5,223.55
828	Poplar-Eastern	*Populus*	*deltoides*	10	Large	Semi-mature	Good	...	$1,077.02

Tree ID	Common Name	Genus	Species	DBH	Height Class	Age Class	Condition Class	Tree & Shrub Work Phase	Tree Asset Value
829	Poplar-Eastern	*Populus*	*deltoides*	8	Large	Semi-mature	Fair	...	$492.35
830	Poplar-Eastern	*Populus*	*deltoides*	8	Large	Semi-mature	Good	...	$689.29
831	Poplar-Eastern	*Populus*	*deltoides*	15,7	Large	Semi-mature	Fair	...	$2,107.88
832	Poplar-Eastern	*Populus*	*deltoides*	9	Large	Semi-mature	Fair	...	$623.13
833	Poplar-Eastern	*Populus*	*deltoides*	10,6	Large	Semi-mature	Fair	...	$1,046.25
834	Poplar-Eastern	*Populus*	*deltoides*	8	Large	Semi-mature	Good	...	$689.29
835	Poplar-Eastern	*Populus*	*deltoides*	8	Large	Semi-mature	Fair	...	$492.35
836	Poplar-Eastern	*Populus*	*deltoides*	27	Large	Mature	Good	...	$7,851.48
837	Poplar-Eastern	*Populus*	*deltoides*	16	Large	Semi-mature	Fair	...	$1,969.41
838	Poplar-Eastern	*Populus*	*deltoides*	25	Large	Mature	Good	...	$6,731.38
839	Poplar-Eastern	*Populus*	*deltoides*	14	Large	Semi-mature	Fair	...	$1,507.83
840	Poplar-Eastern	*Populus*	*deltoides*	14	Large	Semi-mature	Fair	...	$1,507.83
841	Mulberry-Red	*Morus*	*rubra*	9	Large	Semi-mature	Good	...	$872.39
842	Mulberry-Red	*Morus*	*rubra*	8	Medium	Semi-mature	Fair	...	$492.35
843	Elm-Slippery	*Ulmus*	*rubra*	14	Medium	Semi-mature	Good	...	$3,317.22
844	Elm-Slippery	*Ulmus*	*rubra*	7	Medium	Semi-mature	Good	...	$829.31

Tree ID	Common Name	Genus	Species	DBH	Height Class	Age Class	Condition Class	Tree & Shrub Work Phase	Tree Asset Value
845	Mulberry-Red	*Morus*	*rubra*	7	Medium	Semi-mature	Fair	...	$376.96
846	Oak-Pin	*Quercus*	*palustris*	13	Large	Semi-mature	Good	...	$4,420.40
847	Maple-Norway	*Acer*	*platanoides*	11	Medium	Semi-mature	Good	...	$2,420.22
848	Oak-Pin	*Quercus*	*palustris*	16	Medium	Semi-mature	Fair	...	$4,782.85
849	Mulberry-Red	*Morus*	*rubra*	8	Medium	Semi-mature	Fair	...	$492.35
850	Poplar-Eastern	*Populus*	*deltoides*	10	Large	Semi-mature	Good	...	$1,077.02
851	Poplar-Eastern	*Populus*	*deltoides*	16	Large	Semi-mature	Good	...	$2,757.17
852	Poplar-Eastern	*Populus*	*deltoides*	24,6	Large	Semi-mature	Fair	...	$4,708.12
853	Poplar-Eastern	*Populus*	*deltoides*	15	Large	Semi-mature	Good	...	$2,423.29
854	Poplar-Eastern	*Populus*	*deltoides*	30	Large	Mature	Good	...	$9,693.18
855	Poplar-Eastern	*Populus*	*deltoides*	10	Large	Semi-mature	Good	...	$1,077.02
856	Poplar-Eastern	*Populus*	*deltoides*	7	Large	Semi-mature	Good	...	$527.74
857	Poplar-Eastern	*Populus*	*deltoides*	8,6	Large	Semi-mature	Fair	...	$769.30
858	Poplar-Eastern	*Populus*	*deltoides*	9	Large	Semi-mature	Good	...	$872.39
859	Poplar-Eastern	*Populus*	*deltoides*	15,13	Large	Semi-mature	Good	...	$4,243.46
860	Poplar-Eastern	*Populus*	*deltoides*	16	Large	Semi-mature	Good	...	$2,757.17

Tree ID	Common Name	Genus	Species	DBH	Height Class	Age Class	Condition Class	Tree & Shrub Work Phase	Tree Asset Value
861	Poplar-Eastern	*Populus*	*deltoides*	18	Large	Semi-mature	Good	...	$3,489.54
862	Poplar-Eastern	*Populus*	*deltoides*	6	Medium	Young	Good	...	$387.73
863	Poplar-Eastern	*Populus*	*deltoides*	7	Medium	Young	Good	...	$527.74
864	Poplar-Eastern	*Populus*	*deltoides*	10	Large	Semi-mature	Fair	...	$769.30
865	Poplar-Eastern	*Populus*	*deltoides*	6	Medium	Young	Poor	1	$166.17
866	Poplar-Eastern	*Populus*	*deltoides*	13	Large	Semi-mature	Good	...	$1,820.16
867	Poplar-Eastern	*Populus*	*deltoides*	28	Large	Mature	Dead	1	...
868	Oak-Pin	*Quercus*	*palustris*	7	Large	Semi-mature	Fair	...	$915.47
869	Elm-Slippery	*Ulmus*	*rubra*	7	Large	Semi-mature	Fair	...	$592.36
870	Elm-Slippery	*Ulmus*	*rubra*	7	Medium	Semi-mature	Poor	1	$355.42
871	Mulberry-Red	*Morus*	*rubra*	8	Medium	Semi-mature	Good	...	$689.29
872	Oak-Pin	*Quercus*	*palustris*	8	Medium	Semi-mature	Fair	...	$1,195.71
873	Poplar-Eastern	*Populus*	*deltoides*	7	Medium	Semi-mature	Fair	...	$376.96
874	Poplar-Eastern	*Populus*	*deltoides*	12	Large	Semi-mature	Good	...	$1,550.91
875	Poplar-Eastern	*Populus*	*deltoides*	14	Large	Semi-mature	Fair	...	$1,507.83
876	Poplar-Eastern	*Populus*	*deltoides*	8	Large	Semi-mature	Good	...	$689.29
877	Oak-Pin	*Quercus*	*palustris*	8	Medium	Semi-mature	Good	...	$1,674.00
878	Elm-Slippery	*Ulmus*	*rubra*	8	Medium	Semi-mature	Dead	1	...

Tree ID	Common Name	Genus	Species	DBH	Height Class	Age Class	Condition Class	Tree & Shrub Work Phase	Tree Asset Value
879	Elm-Slippery	*Ulmus*	*rubra*	8	Medium	Semi-mature	Dead	1	...
880	Poplar-Eastern	*Populus*	*deltoides*	13	Large	Semi-mature	Good	...	$1,820.16
881	Juniper-Eastern Redcedar	*Juniperus*	*virginiana*	6	Medium	Young	Good	...	$720.06
882	Poplar-Eastern	*Populus*	*deltoides*	27	Large	Mature	Good	...	$7,851.48
883	Hackberry	*Celtis*	*occidentalis*	8	Medium	Semi-mature	Fair	...	$1,055.04
884	Elm-Slippery	*Ulmus*	*rubra*	6	Medium	Semi-mature	Poor	1	$261.12
885	Elm-Slippery	*Ulmus*	*rubra*	12	Medium	Semi-mature	Fair	...	$1,740.82
886	Poplar-Eastern	*Populus*	*deltoides*	14	Large	Semi-mature	Good	...	$2,110.96
887	Oak-Pin	*Quercus*	*palustris*	7	Medium	Semi-mature	Good	...	$1,281.65
888	Elm-Slippery	*Ulmus*	*rubra*	11	Medium	Semi-mature	Fair	...	$1,462.77
889	Elm-Slippery	*Ulmus*	*rubra*	32	Large	Mature	Poor	1	$7,277.05
890	Poplar-Eastern	*Populus*	*deltoides*	25	Large	Mature	Poor	1	$2,884.88
891	Oak-Pin	*Quercus*	*palustris*	7,5	Large	Semi-mature	Good	...	$1,935.56
892	Elm-Slippery	*Ulmus*	*rubra*	17,13	Large	Semi-mature	Fair	...	$5,536.76
893	Poplar-Eastern	*Populus*	*deltoides*	8	Large	Semi-mature	Good	...	$689.29
894	Poplar-Eastern	*Populus*	*deltoides*	8	Large	Semi-mature	Fair	...	$492.35
895	Poplar-Eastern	*Populus*	*deltoides*	9	Large	Semi-mature	Poor	1	$373.88
896	Poplar-Eastern	*Populus*	*deltoides*	15,15	Large	Semi-mature	Fair	...	$3,461.85
897	Poplar-Eastern	*Populus*	*deltoides*	8	Large	Semi-mature	Dead	1	...

Tree ID	Common Name	Genus	Species	DBH	Height Class	Age Class	Condition Class	Tree & Shrub Work Phase	Tree Asset Value
898	Poplar-Eastern	*Populus*	*deltoides*	13	Large	Semi-mature	Dead	1	...
899	Maple-Boxelder	*Acer*	*negundo*	8	Medium	Semi-mature	Fair	...	$492.35
900	Poplar-Eastern	*Populus*	*deltoides*	15	Large	Semi-mature	Fair	...	$1,730.93
901	Poplar-Eastern	*Populus*	*deltoides*	13	Large	Semi-mature	Fair	...	$1,300.12
902	Poplar-Aspen	*Populus*	*tremuloides*	8	Large	Semi-mature	Good	...	$492.35
903	Poplar-Aspen	*Populus*	*tremuloides*	7	Large	Semi-mature	Good	...	$376.96
904	Poplar-Aspen	*Populus*	*tremuloides*	9	Large	Semi-mature	Fair	...	$445.10
905	Poplar-Aspen	*Populus*	*tremuloides*	8	Large	Semi-mature	Fair	...	$351.68
906	Poplar-Eastern	*Populus*	*deltoides*	12	Large	Semi-mature	Poor	...	$664.68
907	Poplar-Eastern	*Populus*	*deltoides*	17	Large	Semi-mature	Good	...	$3,112.59
908	Poplar-Eastern	*Populus*	*deltoides*	13	Large	Semi-mature	Good	...	$1,820.16
909	Poplar-Eastern	*Populus*	*deltoides*	8	Large	Semi-mature	Poor	...	$295.41
910	Poplar-Aspen	*Populus*	*tremuloides*	8	Large	Semi-mature	Dead	...	...
911	Poplar-Aspen	*Populus*	*tremuloides*	7	Large	Semi-mature	Poor	1	$161.55
912	Poplar-Aspen	*Populus*	*tremuloides*	7	Large	Semi-mature	Poor	1	$161.55
913	Locust-Black	*Robinia*	*pseudoacacia*	10	Large	Semi-mature	Poor	1	$923.16
914	Poplar-Eastern	*Populus*	*deltoides*	22	Large	Mature	Good	...	$5,212.78
915	Maple-Norway	*Acer*	*platanoides*	8	Large	Semi-mature	Good	...	$1,280.12
916	Poplar-Eastern	*Populus*	*deltoides*	18	Large	Mature	Good	...	$3,489.54

Tree ID	Common Name	Genus	Species	DBH	Height Class	Age Class	Condition Class	Tree & Shrub Work Phase	Tree Asset Value
917	Poplar-Eastern	*Populus*	*deltoides*	1,10	Large	Semi-mature	Good	...	$1,087.79
918	Oak-Pin	*Quercus*	*palustris*	22	Large	Semi-mature	Fair	...	$9,042.57
919	Maple-Norway	*Acer*	*platanoides*	7	Medium	Semi-mature	Fair	...	$700.06
920	Elm-Slippery	*Ulmus*	*rubra*	6	Medium	Semi-mature	Fair	...	$435.20
921	Poplar-Eastern	*Populus*	*deltoides*	14	Large	Semi-mature	Fair	...	$1,507.83
922	Locust-Black	*Robinia*	*pseudoacacia*	10	Large	Semi-mature	Fair	...	$1,538.60
923	Locust-Black	*Robinia*	*pseudoacacia*	17	Large	Semi-mature	Poor	1	$2,667.93
924	Locust-Black	*Robinia*	*pseudoacacia*	16	Large	Semi-mature	Fair	...	$3,938.82
925	Maple-Norway	*Acer*	*platanoides*	6	Medium	Young	Good	...	$720.06
926	Maple-Norway	*Acer*	*platanoides*	15	Large	Semi-mature	Good	...	$4,500.40
927	Maple-Norway	*Acer*	*platanoides*	8	Large	Semi-mature	Good	...	$1,280.12
928	Maple-Norway	*Acer*	*platanoides*	6	Large	Semi-mature	Dead	1	...
929	Maple-Norway	*Acer*	*platanoides*	6	Large	Semi-mature	Good	...	$720.06
930	Locust-Black	*Robinia*	*pseudoacacia*	26	Large	Mature	Poor	1	$6,240.56
931	Poplar-Eastern	*Populus*	*deltoides*	24	Large	Mature	Good	...	$6,203.64
932	Tree of Heaven	*Ailanthus*	*altissima*	12	Large	Semi-mature	Poor	...	$284.86
933	Poplar-Eastern	*Populus*	*deltoides*	6	Large	Semi-mature	Poor	1	$166.17
934	Locust-Black	*Robinia*	*pseudoacacia*	6	Large	Young	Fair	...	$553.90

Tree ID	Common Name	Genus	Species	DBH	Height Class	Age Class	Condition Class	Tree & Shrub Work Phase	Tree Asset Value
935	Poplar-Eastern	*Populus*	*deltoides*	16	Large	Semi-mature	Fair	...	$1,969.41
936	Poplar-Eastern	*Populus*	*deltoides*	18	Large	Semi-mature	Poor	1	$1,495.52
937	Poplar-Eastern	*Populus*	*deltoides*	12,8	Large	Semi-mature	Good	...	$2,240.20
938	Poplar-Eastern	*Populus*	*deltoides*	6	Large	Young	Good	...	$387.73
939	Poplar-Eastern	*Populus*	*deltoides*	6	Large	Young	Fair	...	$276.95
940	Poplar-Eastern	*Populus*	*deltoides*	9	Large	Semi-mature	Fair	...	$623.13
941	Poplar-Eastern	*Populus*	*deltoides*	7	Large	Semi-mature	Good	...	$527.74
942	Poplar-Eastern	*Populus*	*deltoides*	8	Large	Semi-mature	Good	...	$689.29
943	Poplar-Eastern	*Populus*	*deltoides*	11	Large	Semi-mature	Good	...	$1,303.19
944	Poplar-Eastern	*Populus*	*deltoides*	16	Large	Semi-mature	Fair	...	$1,969.41
945	Poplar-Eastern	*Populus*	*deltoides*	22	Large	Mature	Good	...	$5,212.78
946	Poplar-Eastern	*Populus*	*deltoides*	7	Medium	Young	Poor	1	$226.17
947	Poplar-Eastern	*Populus*	*deltoides*	10	Large	Semi-mature	Good	...	$1,077.02
948	Poplar-Eastern	*Populus*	*deltoides*	9	Large	Semi-mature	Fair	...	$623.13
949	Poplar-Eastern	*Populus*	*deltoides*	8	Large	Semi-mature	Fair	...	$492.35

Tree ID	Common Name	Genus	Species	DBH	Height Class	Age Class	Condition Class	Tree & Shrub Work Phase	Tree Asset Value
950	Poplar-Eastern	*Populus*	*deltoides*	8	Large	Semi-mature	Fair	...	$492.35
951	Poplar-Eastern	*Populus*	*deltoides*	7	Medium	Semi-mature	Fair	...	$376.96
952	Oak-Northern Red	*Quercus*	*rubra*	6	Medium	Young	Good	...	$1,052.40
953	Poplar-Eastern	*Populus*	*deltoides*	10	Large	Semi-mature	Good	...	$1,077.02
954	Poplar-Eastern	*Populus*	*deltoides*	15	Large	Semi-mature	Good	...	$2,423.29
955	Poplar-Eastern	*Populus*	*deltoides*	11	Large	Semi-mature	Good	...	$1,303.19
956	Poplar-Eastern	*Populus*	*deltoides*	12	Large	Semi-mature	Fair	...	$1,107.79
957	Poplar-Eastern	*Populus*	*deltoides*	8	Large	Semi-mature	Poor	1	$295.41
958	Poplar-Eastern	*Populus*	*deltoides*	10	Large	Semi-mature	Good	...	$1,077.02
959	Poplar-Eastern	*Populus*	*deltoides*	6	Large	Young	Fair	...	$276.95
960	Poplar-Eastern	*Populus*	*deltoides*	6	Large	Young	Good	...	$387.73
961	Poplar-Eastern	*Populus*	*deltoides*	9	Large	Semi-mature	Good	...	$872.39
962	Poplar-Eastern	*Populus*	*deltoides*	6	Large	Young	Good	...	$387.73
963	Poplar-Eastern	*Populus*	*deltoides*	9	Large	Semi-mature	Good	...	$872.39
964	Oak-Northern Red	*Quercus*	*rubra*	6	Medium	Young	Good	...	$1,052.40

Tree ID	Common Name	Genus	Species	DBH	Height Class	Age Class	Condition Class	Tree & Shrub Work Phase	Tree Asset Value
965	Poplar-Eastern	*Populus*	*deltoides*	8	Large	Young	Good	...	$689.29
966	Poplar-Eastern	*Populus*	*deltoides*	17	Large	Semi-mature	Good	1	$3,112.59
967	Poplar-Eastern	*Populus*	*deltoides*	15	Large	Semi-mature	Good	...	$2,423.29
968	Poplar-Eastern	*Populus*	*deltoides*	7	Large	Semi-mature	Fair	...	$376.96
969	Poplar-Eastern	*Populus*	*deltoides*	7,4	Large	Semi-mature	Fair	...	$500.05
970	Poplar-Eastern	*Populus*	*deltoides*	8	Large	Semi-mature	Good	...	$689.29
971	Poplar-Eastern	*Populus*	*deltoides*	9	Large	Semi-mature	Good	...	$872.39
972	Poplar-Eastern	*Populus*	*deltoides*	9	Large	Semi-mature	Good	...	$872.39
973	Poplar-Eastern	*Populus*	*deltoides*	9	Large	Semi-mature	Good	...	$872.39
974	Poplar-Eastern	*Populus*	*deltoides*	10	Large	Semi-mature	Good	...	$1,077.02
975	Poplar-Eastern	*Populus*	*deltoides*	10	Large	Semi-mature	Good	...	$1,077.02
976	Poplar-Eastern	*Populus*	*deltoides*	8	Large	Semi-mature	Fair	...	$492.35
977	Poplar-Eastern	*Populus*	*deltoides*	8	Large	Semi-mature	Good	...	$689.29
978	Poplar-Eastern	*Populus*	*deltoides*	10,4	Large	Semi-mature	Fair	...	$892.39
979	Poplar-Eastern	*Populus*	*deltoides*	13	Large	Semi-mature	Good	...	$1,820.16

Tree ID	Common Name	Genus	Species	DBH	Height Class	Age Class	Condition Class	Tree & Shrub Work Phase	Tree Asset Value
980	Poplar-Eastern	*Populus*	*deltoides*	7	Large	Semi-mature	Fair	...	$376.96
981	Poplar-Eastern	*Populus*	*deltoides*	8	Large	Semi-mature	Poor	1	$295.41
982	Poplar-Eastern	*Populus*	*deltoides*	8	Large	Semi-mature	Good	...	$689.29
983	Elm-Slippery	*Ulmus*	*rubra*	7	Medium	Semi-mature	Fair	...	$592.36
984	Poplar-Eastern	*Populus*	*deltoides*	7	Medium	Semi-mature	Poor	1	$226.17
985	Poplar-Eastern	*Populus*	*deltoides*	9	Large	Semi-mature	Fair	...	$623.13
986	Poplar-Eastern	*Populus*	*deltoides*	13	Large	Semi-mature	Fair	...	$1,300.12
987	Poplar-Eastern	*Populus*	*deltoides*	8	Large	Semi-mature	Good	...	$689.29
988	Poplar-Eastern	*Populus*	*deltoides*	13	Large	Semi-mature	Good	...	$1,820.16
989	Poplar-Eastern	*Populus*	*deltoides*	15	Large	Semi-mature	Good	...	$2,423.29
990	Poplar-Eastern	*Populus*	*deltoides*	7	Medium	Young	Good	...	$527.74
991	Locust-Black	*Robinia*	*pseudoacacia*	14	Large	Semi-mature	Poor	1	$1,809.39
992	Tree of Heaven	*Ailanthus*	*altissima*	12	Medium	Semi-mature	Poor	1	$284.86
993	Locust-Black	*Robinia*	*pseudoacacia*	10	Large	Semi-mature	Poor	...	$923.16
994	Poplar-Eastern	*Populus*	*deltoides*	15	Large	Semi-mature	Good	...	$2,423.29
995	Locust-Black	*Robinia*	*pseudoacacia*	10	Large	Semi-mature	Fair	...	$1,538.60
996	Poplar-Eastern	*Populus*	*deltoides*	19	Large	Mature	Good	...	$3,888.04

Tree ID	Common Name	Genus	Species	DBH	Height Class	Age Class	Condition Class	Tree & Shrub Work Phase	Tree Asset Value
997	Poplar-Eastern	*Populus*	*deltoides*	18	Large	Mature	Good	...	$3,489.54
998	Poplar-Eastern	*Populus*	*deltoides*	8	Large	Semi-mature	Fair	...	$492.35
999	Maple-Boxelder	*Acer*	*negundo*	8	Medium	Semi-mature	Good	...	$689.29
1000	Oak-Pin	*Quercus*	*palustris*	8	Medium	Semi-mature	Good	...	$1,674.00
1101	Locust-Black	*Robinia*	*pseudoacacia*	7	Medium	Young	Good	...	$1,055.48
1102	Maple-Norway	*Acer*	*platanoides*	8	Medium	Young	Poor	...	$548.62
1103	Locust-Black	*Robinia*	*pseudoacacia*	7	Medium	Young	Fair	...	$753.91
1104	Locust-Black	*Robinia*	*pseudoacacia*	8	Medium	Young	Good	...	$1,378.59
1105	Locust-Black	*Robinia*	*pseudoacacia*	8	Medium	Young	Good	...	$1,378.59
1106	Locust-Black	*Robinia*	*pseudoacacia*	6	Medium	Young	Good	...	$775.45
1107	Locust-Black	*Robinia*	*pseudoacacia*	6	Medium	Young	Good	...	$775.45
1108	Planetree-London	*Platanus*	x *acerifolia*	12	Medium	Young	Poor	1	$1,424.30
1109	Planetree-London	*Platanus*	x *acerifolia*	18	Medium	Semi-mature	Poor	...	$3,204.68
1110	Locust-Black	*Robinia*	*pseudoacacia*	10	Medium	Young	Good	...	$2,154.04
1111	Locust-Black	*Robinia*	*pseudoacacia*	6	Medium	Young	Good	...	$775.45
1112	Locust-Black	*Robinia*	*pseudoacacia*	8	Medium	Young	Good	...	$1,378.59
1113	Locust-Black	*Robinia*	*pseudoacacia*	7	Medium	Young	Poor	...	$452.35
1114	Locust-Black	*Robinia*	*pseudoacacia*	12	Medium	Young	Fair	...	$2,215.58
1115	Locust-Black	*Robinia*	*pseudoacacia*	10	Medium	Young	Poor	...	$923.16
1116	Locust-Black	*Robinia*	*pseudoacacia*	6	Medium	Young	Poor	...	$332.34
1117	Locust-Black	*Robinia*	*pseudoacacia*	11	Medium	Semi-mature	Fair	...	$1,861.71
1118	Locust-Black	*Robinia*	*pseudoacacia*	12	Medium	Semi-mature	Poor	...	$1,329.35
1119	Locust-Black	*Robinia*	*pseudoacacia*	7	Medium	Young	Poor	...	$452.35
1120	Locust-Black	*Robinia*	*pseudoacacia*	9	Medium	Young	Poor	...	$747.76

Tree ID	Common Name	Genus	Species	DBH	Height Class	Age Class	Condition Class	Tree & Shrub Work Phase	Tree Asset Value
1121	Locust-Black	*Robinia*	*pseudoacacia*	8	Medium	Young	Fair	...	$984.70
1122	Locust-Black	*Robinia*	*pseudoacacia*	6	Medium	Young	Fair	...	$553.90
1123	Locust-Black	*Robinia*	*pseudoacacia*	8	Medium	Young	Good	...	$1,378.59
1124	Locust-Black	*Robinia*	*pseudoacacia*	7	Medium	Young	Good	...	$1,055.48
1125	Locust-Black	*Robinia*	*pseudoacacia*	7	Medium	Young	Good	...	$1,055.48
1126	Locust-Black	*Robinia*	*pseudoacacia*	6	Medium	Young	Good	...	$775.45
1127	Planetree-London	*Platanus*	x *acerifolia*	10	Medium	Young	Dead	1	...
1128	Locust-Black	*Robinia*	*pseudoacacia*	7	Medium	Young	Good	...	$1,055.48
1129	Locust-Black	*Robinia*	*pseudoacacia*	8	Medium	Young	Good	...	$1,378.59
1130	Elm-Slippery	*Ulmus*	*rubra*	10	Medium	Young	Fair	...	$1,208.90
1131	Planetree-London	*Platanus*	x *acerifolia*	13	Medium	Semi-mature	Good	...	$3,900.35
1132	Locust-Black	*Robinia*	*pseudoacacia*	6	Medium	Young	Fair	...	$553.90
1133	Locust-Black	*Robinia*	*pseudoacacia*	9	Medium	Young	Good	...	$1,744.77
1134	Locust-Black	*Robinia*	*pseudoacacia*	7	Medium	Young	Good	...	$1,055.48
1135	Locust-Black	*Robinia*	*pseudoacacia*	7	Medium	Young	Good	...	$1,055.48
1136	Locust-Black	*Robinia*	*pseudoacacia*	6	Medium	Young	Fair	...	$553.90
1137	Locust-Black	*Robinia*	*pseudoacacia*	8	Medium	Young	Good	...	$1,378.59
1138	Locust-Black	*Robinia*	*pseudoacacia*	8	Medium	Young	Good	...	$1,378.59
1139	Locust-Black	*Robinia*	*pseudoacacia*	8	Medium	Young	Good	...	$1,378.59
1140	Poplar-Aspen	*Populus*	*tremuloides*	6	Medium	Young	Dead	...	...

APPENDIX

ADDITIONAL RESOURCES

Bartlett publishes a variety of tree-resource documents, including technical reports, plant health care recommendations, and service brochures. The following technical reports may be pertinent to your inventory. To access these documents and view the complete Bartlett Resource Library online, please follow this URL:

https://www.bartlett.com/resourcelist.cfm

Girdling Roots

Maintenance Pruning Program

Monitor IPM Program

Mulch Application Guidelines

Tree Risk Assessments

Tree Structure Evaluation

GLOSSARY OF TERMS

air pollution removal: removal of pollutants from the air by plants through natural processes

arborist: 1. An individual engaged in the profession of arboriculture who, through experience, education and related training, possesses the competence to provide for, or supervise the management of, trees and other woody ornamentals. [ANSI A300 (Part 1, 2, 4, 5, 6)] 2. An individual engaged in the profession of arboriculture. [ANSI Z133.1-2000 Safety Requirements for Arboricultural Operations]

bracing: The installation of lag-thread screw or threaded-steel rods in limbs, leaders, or trunks to provide supplemental support. [ANSI A300 (Part 3)-2000 Support Systems]

branch: An outgrowing shoot, stem or twig that grows from the main stem or trunk. [ANSI Z60.1-2004 Nursery Stock]

buttress roots: Lateral surface roots that aid in stabilizing the tree.

cable: 1) Zinc coated strand per ASTM A-475 for dead-end grip applications. 2) Wire rope or strand for general applications. 3) Synthetic-fiber rope or synthetic-fiber webbing for general applications. [ANSI A300 (Part 3)-2000 Support Systems]

cabling: The installation of a steel wire rope, steel strand, or synthetic-fiber system within a tree between limbs or leaders to limit movement and provide supplemental support. [ANSI A300 (Part 3)-2000 Support Systems]

canopy: collective branches and foliage of a tree or group of trees' crowns

carbon sequestration: removal of carbon from the air by plants through natural processes

carbon storage: storage of carbon removed from the air in plant tissues

cation exchange capacity (CEC): The ability of soil to absorb nutrients.

cavity: An open wound characterized by the presence of decay and resulting in a hollow.

cleaning: Selective pruning to remove one or more of the following parts: dead, diseased, and/ or broken branches (5.6.1). [ANSI A300 (Part 1)-2001 Pruning]

co-dominant branches: Equal in size and importance, usually associated with either the trunks, stems, or scaffold limbs.

conk: fruiting body or non-fruiting body of a fungus. Often associated with decay.

critical root zone (CRZ): area of soil around a tree trunk where roots are located that provide stability and uptake of water and minerals required for tree survival.

crown: 1. The leaves and branches of a tree measured from the lowest branch on the trunk to the top of the tree. [ANSI A300 (Part 1)-2001 Pruning] [ANSI A300 (Part 6)-2005 Transplanting] 2. The portion of a tree comprising the branches. [ANSI Z60.1-2004 Nursery Stock]

D.B.H. [diameter at breast height]: Measurement of trunk diameter taken at 4.5 feet (1.4 m) off the ground. [ANSI A300 (Part 6)-2005 Transplanting]

decay: The degradation of woody tissue caused by microorganisms. [ANSI A300 (Part 1)-2001 Pruning]

Geographic Information System (GIS): is any system for capturing, storing, analyzing and managing data and associated attributes which are spatially referenced to earth.

girdling root: A root that may impede proper development of other roots, trunk flare, and/or trunk. [ANSI A300 (Part 6)-2005 Transplanting]

Global Positioning System (GPS): A constellation of at least 24 Medium Earth Orbit satellites that transmit precise microwave signals, the system enables a GPS receiver to determine its location, speed, direction, and time.

Global Positioning System receiver (GPSr): A receiver that receives its input from GPS satellites to determine location, speed, direction, and time.

heading: cutting a shoot back to a bud or cutting branches back to buds, stubs, or lateral branches not large enough to assume apical dominance. Cutting an older branch or stem back to meet a structural objective

integrated pest management (IPM): A pest control strategy that uses an array of complementary methods: mechanical devices, physical devices, genetic, biological, legal, cultural management, and chemical management. These methods are done in three stages of prevention, Observation, and finally Intervention. It is an ecological approach that has its main goal is to significantly reduce or eliminate the use of pesticides.

lateral branch: A shoot or stem growing from a parent branch or stem. [ANSI A300 (Part 1)-2001 Pruning]

leader: A dominant or co-dominant, upright stem. [ANSI A300 (Part 1)-2001 Pruning]

lean: Departure from vertical of the stem, beginning at or near the base of the trunk.

limb: A large, prominent branch. [ANSI A300 (Part 1)-2001 Pruning]

lion's tailing: The removal of an excessive number of inner, lateral branches from parent branches. Lion's tailing is not an acceptable pruning practice (5.5.7). [ANSI A300 (Part 1)-2001 Pruning]

macronutrient: Nutrient required in relatively large amounts by plants, such as nitrogen (N), phosphorus (P), potassium (K), and sulfur (S). [ANSI A300 (Part 2)-2004 Fertilization]

micronutrient: Nutrient required in relatively small amounts by plants, such as iron (Fe), manganese (Mn), zinc (Zn), copper (Cu), and boron (B). [ANSI A300 (Part 2)-2004 Fertilization]

noise attenuation: reducing sound levels via materials, structures, plants, etc.

nutrient: Element or compound required for growth, reproduction or development of a plant. [ANSI A300 (Part 2)-2004 Fertilization]

organic matter: material derived from the growth (and death) of living organisms. The organic components of soil.

parent branch or stem: A tree trunk, limb, or prominent branch from which shoots or stems grow. [ANSI A300 (Part 1)-2001 Pruning]

pH: unit of measurement that describes the alkalinity or acidity of a solution. Measured on a scale of 0 to 14. Greater than 7 Is alkaline, less than 7 is acid, and 7 is neutral (pure water).

pruning: The selective removal of plant parts to meet specific goals and objectives. [ANSI A300 (Part 1)-2001 Pruning]

qualified arborist: An individual who, by possession of a recognized degree, certification, or professional standing, or through related training and on-the-job experience, is familiar with the equipment and hazards involved in arboricultural operations and who has demonstrated ability in the performance of the special techniques involved. [ANSI Z133.1-2000 Safety Requirements for Arboricultural Operations]

raising: Selective pruning to provide vertical clearance (5.6.3). [ANSI A300 (Part 1)-2001 Pruning]

reduction: Selective pruning to decrease height and/or spread (5.6.4). [ANSI A300 (Part 1)-2001 Pruning]

risk assessment: process of evaluating what unexpected things could happen, how likely it is, and what the likely outcomes are. In tree management, the systematic process to determine the level of risk posed by a tree, tree part, or group of trees.

root collar: 1. The transition zone between the trunk and the root system. [ANSI A300

(Part 6)-2005 Transplanting] 2. See COLLAR. [ANSI Z60.1-2004 Nursery Stock]

root flare or trunk flare: The area at the base of the plant's stem or trunk where the stem or trunk broadens to form roots; the area of transition between the root system and the stem or trunk. [ANSI Z60.1-2004 Nursery Stock] [ANSI A300 (Part 6)-2005 Transplanting]

root zone: The volume of soil containing the roots of a plant. [ANSI A300 (Part 5)-2005 Management]

secondary nutrient: Nutrient required in moderate amounts by plants, such as calcium (Ca) and magnesium (Mg). [ANSI A300 (Part 2)-2004 Fertilization]

seam: Vertical line that appears where two edges of wound wood or callus ridge meet.

soil amendment: Any material added to soil to alter its composition and structure, such as sand, fertilizer, or organic matter. [ANSI A300 (Part6)-2005 Transplanting]

soil pH: A measure of the acidity or alkalinity of the soil.

stormwater runoff: water (generally from rain or snow melt) that flows over the ground after storm events.

structural support system: hardware installed in tree, may be; cables, braces, or guys, to provide supplemental support.

sweep: Departure from vertical of the stem, beginning above the base of the trunk.

thinning: Selective pruning to reduce density of live branches (5.6.2). [ANSI A300 (Part 1)-2001 Pruning]

tree risk assessment: Closer inspection of visibly damaged, dead, defected, diseased, leaning or dying tree to determine management needs.

topping: The reduction of a tree's size using heading cuts that shorten limbs or branches back to a predetermined crown limit. Topping is not acceptable pruning practice. (5.5.7). [ANSI A300 (Part 1)-2001 Pruning]

tree inventory: A comprehensive list of individual trees providing descriptive information on all or a portion of the project area. [ANSI A300 (Part 5)-2005 Management during site planning, site development, and construction]

tree protection zone: A space above and belowground within which trees are to be retained and protected. [ANSI A300 (Part 5)-2005 Management during site planning, site development, and construction]

trunk: That portion of a stem or stems of a tree before branching occurs. [ANSA Z60.1-

2004 Nursery Stock]

vigor: Overall health. Capacity to grow and resist stress. [ISA Municipal Specialist Certification Study Guide 2008]

wound: An opening that is created when the bark of a living branch or stem is penetrated, cut, or removed. [ANSI A300 (Part 1)-2001 Pruning]

APPENDIX D: Tree Protection Plan

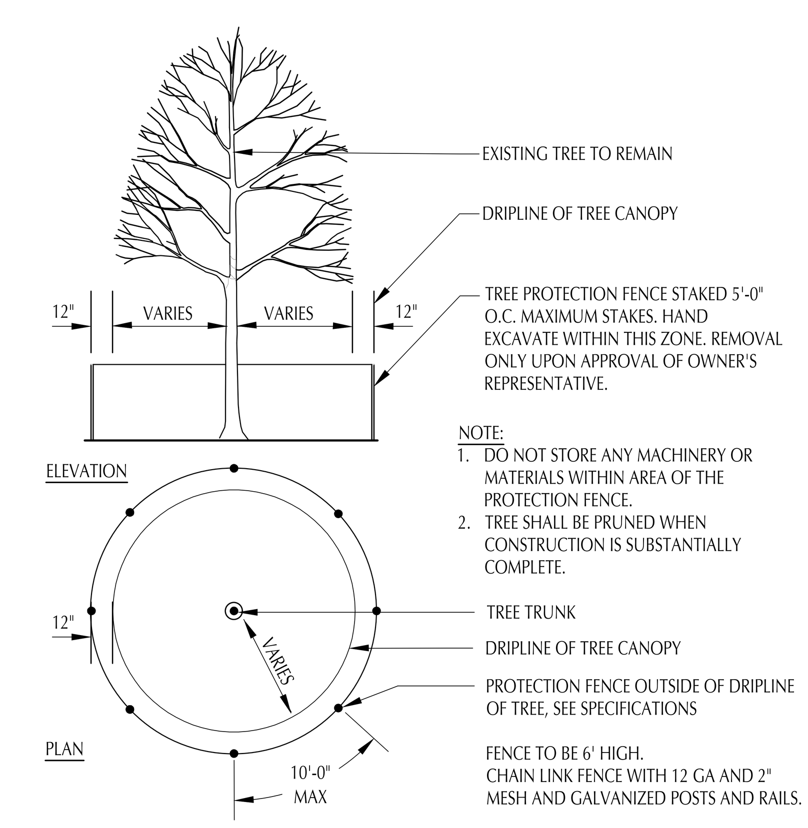
TREE REMOVAL & PROTECTION NOTES:

1. THE FOLLOWING NOTES APPLY TO ALL EXISTING TREES TO REMAIN. INSTALL TREE PROTECTION FENCE AROUND THE ENTIRE PERIMETER OF CANOPY DRIP LINE WITHIN THE SITE BEFORE ANY OTHER PROJECT WORK COMMENCES IN THE AREA. DO NO WORK UNDER TREE CANOPY AND / OR DRIP LINE UNLESS AREA IS PROTECTED. DO NOT DRIVE OR PARK UNDER TREES. DO NOT PLACE OR STORE ANY MATERIALS UNDER TREES.
2. TREE PROTECTION SHALL BE PER DETAIL. ALL EXISTING TREES TO REMAIN SHALL BE PROTECTED THROUGHOUT THE TIME OF CONSTRUCTION, AS SPECIFIED AND DIRECTED BY THE OWNER'S REPRESENTATIVE.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR ROOT PRUNING EXISTING TREES TO REMAIN WHOSE ROOTS WILL LIKELY INTERFERE WITH CONSTRUCTION ACTIVITIES.
4. FOR SPECIFIC INFORMATION ON INDIVIDUAL TREES REFER TO THE PROJECT "TREE INVENTORY & MANAGEMENT PLAN", 2021, BY BARTLETT TREE EXPERTS.

LEGEND

SYMBOL	DESCRIPTION
	EXISTING TREE TO REMAIN
	EXISTING TREE TO BE REMOVED
	TREE PROTECTION FENCE

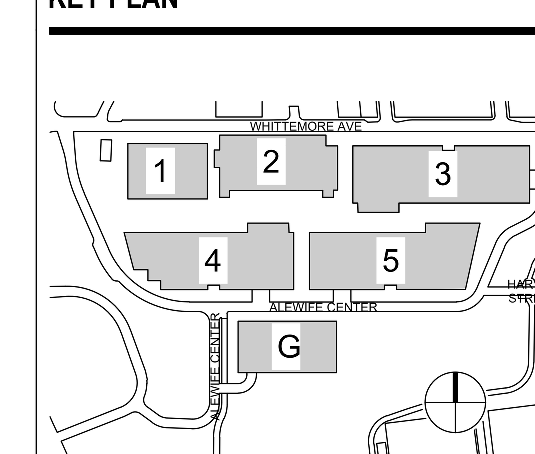
SOUTHWEST CORNER OF JERRY'S POND



1 TREE PROTECTION DETAIL

SCALE: NOT TO SCALE

KEY PLAN



IQHQ

Cambridge, MA 02140

Gensler

One Beacon Street
Third Floor
Boston, MA 02108
United States
Tel (617) 619-5700
Fax (617) 619-5701

Structural Engineer
McNamara Salvia
101 Federal Street
Suite 1100
Boston, MA 02110
Tel (617) 737-0040

Civil Engineer
Vanasse Hanen Brustlin, Inc.
99 High Street - 10th Floor
Boston, MA 02110
Tel (617) 728-7777

MEP & Fire Protection
R.W. Sullivan Engineering
529 Main Street - Suite 203
Boston, MA 02129
Tel (617) 523-8227

Building Enclosures
Simpson Gumpertz & Heger
480 Totten Pond Road
Waltham, MA 02451
Tel (781) 907-9000

Geotechnical Engineer
Haley & Aldrich, Inc.
70 Blanchard Road, Suite 204
Burlington, MA 01803
Tel (617) 886-7400

Life Safety
Code Red
154 Turnpike Road - Suite 200
Southborough, MA 01772
Tel (617) 500-7633

Landscape Architect
Shadley Associates
1730 Massachusetts Avenue
Lexington, MA 02420
Tel (781) 652-8809

Parking Garage

Garage Structural Engineer
Simon Design Engineering
49 Walnut Park, Building #2
Wellesley, MA 02481
Tel (781) 237-2226

Garage MEP & FP
e3i Engineers
137A Lewis Wharf
Boston, MA 02110
Tel (617) 530-1104

△ Date	Description
09/01/2021	CONSTRUCTION DOCUMENTS ISSUANCE

Seal / Signature

IQHQ Alewife Park
Alewife Park - IQHQ

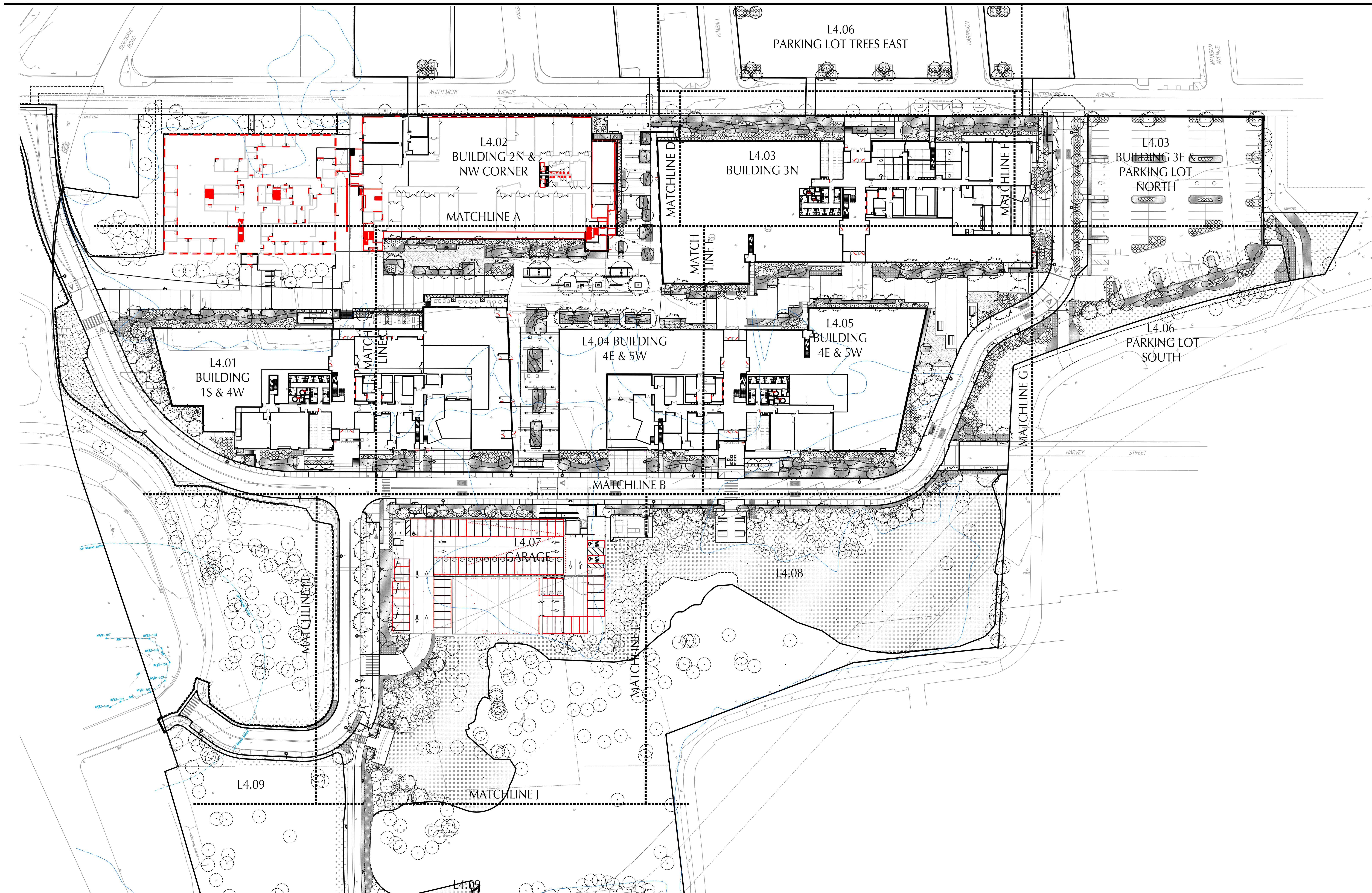
20143
20143.00

Description
TREE REMOVAL & PROTECTION PLAN

Scale
1" = 40'-0"

Building ID	Sheet
SITE	L0.01

APPENDIX E: Planting Plans



PLANTING SCHEDULE

SYM	QTY	BOTANICAL NAME	COMMON NAME	SIZE	COMMENTS
DECIDUOUS SHADE TREES (257 TOTAL)					
AF	17	Acer x freemanii 'Autumn Blaze'	Autumn Blaze Freeman Maple	4" - 4 1/2" CAL.	7' LOWEST BRANCH, SPRING PLANT
AR	9	Acer rubrum 'October Glory'	October Glory Red Maple (oval)	3" - 3 1/2" CAL.	7' LOWEST BRANCH, SPRING PLANT
AR1	36	Acer rubrum 'Armstrong'	Armstrong Red Maple (upright)	3" - 3 1/2" CAL.	7' LOWEST BRANCH, SPRING PLANT
AR2	6	Acer rubrum 'Armstrong'	Armstrong Red Maple (upright)	1" - 1 1/2" CAL.	
CO	6	Carya ovata	Shagbark Hickory	1" - 1 1/2" CAL.	
FGR2	3	Fagus grandifolia	American Beech	1" - 1 1/2" CAL.	SPRING PLANT
GB	15	Ginkgo biloba 'Princeton Sentry'	Princeton Sentry Maidenhair Tree	3" - 3 1/2" CAL.	7' LOWEST BRANCH
GT	22	Gleditsia triacanthos var. inermis 'Draves'	Street Keeper Honeylocust (upright)	4" - 4 1/2" CAL.	7' LOWEST BRANCH
LST	8	Liquidambar styraciflua	Sweetgum	3" - 3 1/2" CAL.	7' LOWEST BRANCH
NS	6	Nyssa sylvatica 'Wildfire'	Wildfire Tupelo	3" - 3 1/2" CAL.	7' LOWEST BRANCH
NS 2	25	Nyssa sylvatica 'Wildfire'	Wildfire Tupelo	1" - 1 1/2" CAL.	
QA	3	Quercus alba	White Oak	3" - 3 1/2" CAL.	
QB	4	Quercus bicolor	Swamp White Oak	3 1/2" - 4" CAL.	7' LOWEST BRANCH
QP	23	Quercus palustris	Pin Oak	3 1/2" - 4" CAL.	7' LOWEST BRANCH
QP2	10	Quercus palustris	Pin Oak	1" - 1 1/2" CAL.	
QR	7	Quercus rubra	Northern Red Oak	3 1/2" - 4" CAL.	7' LOWEST BRANCH
TA	8	Tilia americana	American Linden	3" - 3 1/2" CAL.	7' LOWEST BRANCH
ORNAMENTAL TREES (349 TOTAL)					
AP	2	Acer palmatum 'Pixie'	Pixie Japanese Maple	5'-6' HT.	B & B
AG	27	Amelanchier x grandiflora 'Autumn Brilliance'	Autumn Brilliance Serviceberry	10'-12' HT.	3 TRUNKS MIN. / 5 MAX.
AG2	34	Amelanchier x grandiflora 'Autumn Brilliance'	Autumn Brilliance Serviceberry	1" - 1 1/2" CAL.	
BN	43	Betula nigra 'Heritage'	Heritage River Birch	12'-14' HT.	3 TRUNKS MIN. / 5 MAX. SPRING PLANT
BP	24	Betula pendula	Silver Birch	3" - 3 1/2" CAL.	SINGLE STEM, SPRING PLANT
CC	19	Cercis canadensis 'Tennessee Pink'	Tennessee Pink Eastern Redbud	2" - 2 1/2" CAL.	SINGLE STEM, SPRING PLANT
CC2	40	Cercis canadensis 'Tennessee Pink'	Tennessee Pink Eastern Redbud	1" - 1 1/2" CAL.	SINGLE STEM, SPRING PLANT
CCA	10	Carpinus caroliniana	American Hornbeam	2 1/2" - 3" CAL.	SINGLE STEM, SPRING PLANT
CF	15	Cornus florida	Flowering Dogwood	2" - 2 1/2" CAL.	SINGLE STEM, SPRING PLANT
CFR	9	Cornus florida var. rubra	Flowering Red Dogwood	2" - 2 1/2" CAL.	SINGLE STEM, SPRING PLANT
PP2	24	Prunus pensylvanica	Pin Cherry	1" - 1 1/2" CAL.	SINGLE STEM, SPRING PLANT
PK	2	Prunus serrulata 'Kwanzan'	Kwanzan Flowering Cherry	8" CAL.	7' LOWEST BRANCH, SPRING PLANT
SR	12	Syringa reticulata 'Ivory Silk'	Ivory Silk Japanese Tree Lilac	2" - 2 1/2" CAL.	SINGLE STEM, UPRIGHT FORM

SYM	QTY	BOTANICAL NAME	COMMON NAME	SIZE	COMMENTS
SHRUBS (2,577 TOTAL)					
AM	96	Aronia melanocarpa 'Morton'	Iroquois Beauty Chokeberry (dwarf)	18"-24" HT	36" O.C. SPACING
CA	274	Clethra alnifolia 'Hummingbird'	Hummingbird Summersweet	24" - 30" HT	36" O.C. SPACING
CS	24	Cornus sericea 'Arctic Fire'	Arctic Fire Redosier Dogwood	24" - 30" HT	36" O.C. SPACING
FG	8	Fothergilla gardenii	Dwarf Witch-alder	12"-18" HT	36" O.C. SPACING
HV	9	Hamamelis virginiana	Common Witchhazel	5' - 6' HT.	
HQ	128	Hydrangea quercifolia 'Ruby Slippers'	Ruby Slippers Oakleaf Hydrangea	3' - 4' HT.	48" O.C. SPACING
IG	467	Ilex glabra 'Shamrock'	Shamrock Inkberry	24" - 30" HT.	36" O.C. SPACING
IV1	107	Ilex verticillata 'Red Sprite'	Red Sprite Winterberry (female)	24" - 30" HT.	36" O.C. SPACING
IV2	17	Ilex verticillata 'Jim Dandy'	Jim Dandy Winterberry (male)	24" - 30" HT.	36" O.C. SPACING
IVH	69	Itea virginica 'Henry's Garnet'	Henry's Garnet Sweetspire	18"-24" HT	36" O.C. SPACING
KL	128	Kalmia latifolia 'Hoffman's Pink'	Hoffman's Pink Mountain Laurel	30"-36" HT	48" O.C. SPACING
LB	75	Lindera benzoin	Spicebush	3 - 4' HT.	48" O.C. SPACING
LF	56	Leucothoe fontanesiana	Drooping Leucothoe	24" - 30" HT.	36" O.C. SPACING
MP	53	Myrica pensylvanica	Northern Bayberry	3 - 4' HT.	5' O.C. SPACING
RA	727	Rhus aromatica 'Gro-low'	Gro-Low Fragrant Sumac	12" - 15" HT.	36" O.C. SPACING
RV	89	Rosa virginiana	Virginia Rose	18"-24" HT	36" O.C. SPACING
RVI	78	Rhododendron viscosum	Swamp Azalea	3 - 4' HT.	48" O.C. SPACING
SC	59	Sambucus canadensis	American Elderberry	4' - 5' HT.	48" O.C. SPACING
VC	24	Vaccinium corymbosum	Highbush Blueberry	24" - 30" HT.	36" O.C. SPACING
VD	89	Viburnum dentatum	Arrowwood Viburnum	3' - 4' HT.	48" O.C. SPACING

SYM	QTY	BOTANICAL NAME	COMMON NAME	SIZE	COMMENTS
PERENNIALS, ORNAMENTAL GRASSES, GROUNDCOVER & VINES (15,1931 TOTAL)					
AGE	170	Andropogon gerardii	Big Bluestem	2 GAL.	36" O.C.
AI	169	Asclepias incarnata	Swamp Milkweed	1 GAL.	24" O.C.
CG	479	Chelone glabra	White Turtlehead	1 GAL.	24" O.C.
CP	739	Comptonia peregrina	Sweet Fern	1 GAL.	24" O.C.
DP	3,367	Dennstaedtia punctilobula	Hay-scented Fern	1 GAL.	18" O.C.
EP	231	Echinacea purpurea 'Kim's Knee High'	Kim's Knee High Purple Coneflower	1 GAL.	24" O.C.
ES	2,725	Eragrostis spectabilis	Purple Lovegrass	1 GAL.	24" O.C.
HM	3,628	Hakonechloa macra	Japanese Forest Grass	1 GAL.	18" O.C.
JC	489	Juniperus communis var. depressa 'AmiDak'	Blueberry Delight Common Juniper	15 - 18" SPR.	24" O.C.
LS	223	Liatris spicata 'Kobold's Original'	Kobold's Original Blazing Star	1 GAL.	24" O.C.
MD	170	Monarda didyma 'Coral Reef'	Coral Reef Beebalm	1 GAL.	24" O.C.
OS	90	Onoclea sensibilis	Sensitive Fern	1 GAL.	24" O.C.
MS	450	Metteuccea struthiopteris	Ostrich Fern	2 GAL.	24" O.C.
PV	291	Panicum virgatum 'Shenandoah'	Shenandoah Switch Grass	2 GAL.	36-48" O.C.
PA	2,142	Pennisetum alopecuroides 'Little Bunny'	Little Bunny Fountain Grass	1 GAL.	18" O.C.
PTR	25	Parthenocissus tricuspidata	Boston Ivy	1 GAL.	30" O.C.
SS	915	Schizachyrium scoparium 'Carousel'	Carousel Little Bluestem	1 GAL.	24" O.C.
SH	228	Sporobolus heterolepis	Prairie Dropseed	1 GAL.	24" O.C.

NOTE:

IN ADDITION TO THE TREES LISTED IN THE PLANT LIST 150 SMALL BARE ROOT TREES, RANGING IN SIZE FROM 2'-4' TALL, WILL BE PLANTED UNDER THE 1.5" CALIPER TREES, OR AS LOCATED IN THE FIELD BY THE CLIENT'S REPRESENTATIVE, WITHIN THE 4-ACRE AREA SOUTH AND EAST OF THE GARAGE. SPECIES WILL BE SELECTED AT A LATER DATE AS DETERMINED BY AVAILABILITY, BUT ARE TO BE LIMITED TO NATIVE TREES, AS SELECTED BY LANDSCAPE ARCHITECT.

PLANTING LEGEND

SYMBOL	DESCRIPTION
	EXISTING TREE TO REMAIN - SEE SHEET L0.01
	DECIDUOUS SHADE OR UPRIGHT / COLUMNAR TREE
	EVERGREEN TREE
	MULTISTEM ORNAMENTAL TREE
	FLOWERING ORNAMENTAL TREE
	1 1/2" CALIPER TREE
	SYNTHETIC TURF
	TURF GRASS
	MEADOW SEED MIX
	WOODLAND SEED MIX
	WET MEADOW SEED MIX

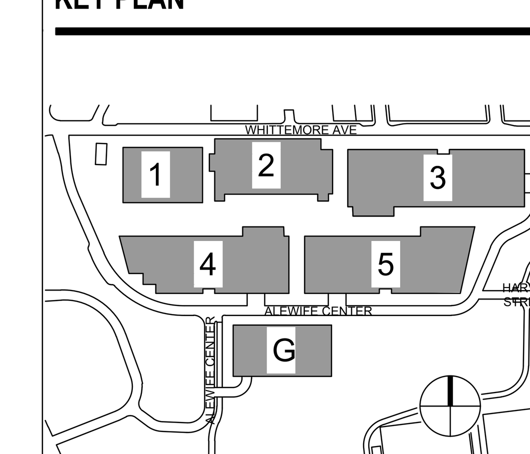
SHEET NOTES

PLANTING NOTES

1. IF DISCREPANCIES EXIST BETWEEN THE NUMBER OF PLANTS DRAWN ON THE PLANTING PLAN AND THE NUMBER OF PLANTS IN THE PLANT LIST, THE PLANTING PLAN SHALL GOVERN.
2. ALL NEW PLANT MATERIAL SHALL CONFORM TO THE MINIMUM GUIDELINES ESTABLISHED FOR NURSERY STOCK PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC. IN ADDITION, ALL NEW PLANT MATERIAL FOR THE PROJECT SHALL BE OF SPECIMEN QUALITY.
3. ALL NEW PLANTS TO BE BALLED AND BURLAPPED OR CONTAINER-GROWN, UNLESS OTHERWISE NOTED ON THE PLANT LIST.
4. THE CONTRACTOR SHALL SUPPLY ALL NEW PLANT MATERIAL IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING SHOWN ON THE DRAWINGS.
5. ANY PROPOSED SUBSTITUTIONS OF PLANT SPECIES SHALL BE MADE WITH PLANTS OF EQUIVALENT OVERALL FORM, HEIGHT, BRANCHING HABIT, FLOWER, LEAF, COLOR, FRUIT AND CULTURE, AND ONLY AFTER WRITTEN APPROVAL OF THE LANDSCAPE ARCHITECT.
6. ALL NEW PLANTS SHALL BE TAGGED AND APPROVED BY THE LANDSCAPE ARCHITECT AT THE NURSERY PRIOR TO DIGGING OR DELIVERY TO THE SITE.
7. CONTRACTOR SHALL LOCATE AND VERIFY ALL EXISTING UTILITY LINES PRIOR TO PLANTING AND SHALL REPORT ANY CONFLICTS TO THE LANDSCAPE ARCHITECT.
8. STAKE LOCATION OF ALL PROPOSED PLANTING FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO THE COMMENCEMENT OF PLANTING.
9. ALL PLANT BEDS TO RECEIVE TWO INCHES (2") OF BARK MULCH AS PER SPECIFICATIONS.
10. CONTRACTOR SHALL PROVIDE FULL DEPTHS OF LOAM AS NOTED ON DETAILS AND AS SPECIFIED, FOR ALL PROPOSED PLANTING. SEE SHEET L7.20 AND SPECIFICATIONS FOR SOIL DEPTHS AND PLANT INSTALLATION.
11. ALL PROPOSED PLANTING AREAS ARE TO RECEIVE IRRIGATION APPROPRIATE FOR PLANT TYPE. DESIGN AND LAYOUT TO BE DETERMINED BY IRRIGATION CONSULTANT IN DESIGN DEVELOPMENT PHASE.

GENERAL NOTES

KEY PLAN



IQHQ

Cambridge, MA 02140

Gensler

One Beacon Street
Third Floor
Boston, MA 02108
United States

Tel (617) 619-5700
Fax (617) 619-5701

Structural Engineer
McNamara Salvia
101 Federal Street
Suite 1100
Boston, MA 02110
Tel (617) 737-0040

Civil Engineer
Vanasse Hanen Brustlin, Inc.
99 High Street - 10th Floor
Boston, MA 02110
Tel (617) 728-7777

MEP & Fire Protection
R.W. Sullivan Engineering
529 Main Street - Suite 203
Boston, MA 02129
Tel (617) 523-8227

Building Enclosures
Simpson Gumpertz & Heger
480 Totten Pond Road
Waltham, MA 02451
Tel (781) 907-9000

Geotechnical Engineer
Haley & Aldrich, Inc.
70 Blanchard Road, Suite 204
Burlington, MA 01803
Tel (617) 886-7400

Life Safety
Code Red
154 Turnpike Road - Suite 200
Southborough, MA 01772
Tel (617) 500-7633

Landscape Architect
Shadley Associates
1730 Massachusetts Avenue
Lexington, MA 02420
Tel (781) 652-8809

Parking Garage

Garage Structural Engineer
Simon Design Engineering
49 Walnut Park, Building #2
Wellesley, MA 02481
Tel (781) 237-2226

Garage MEP & FP
e3i Engineers
137A Lewis Wharf
Boston, MA 02110
Tel (617) 530-1104

△ Date	Description
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IQHQ Alewife Park

Alewife Park - IQHQ

20143

20143.00

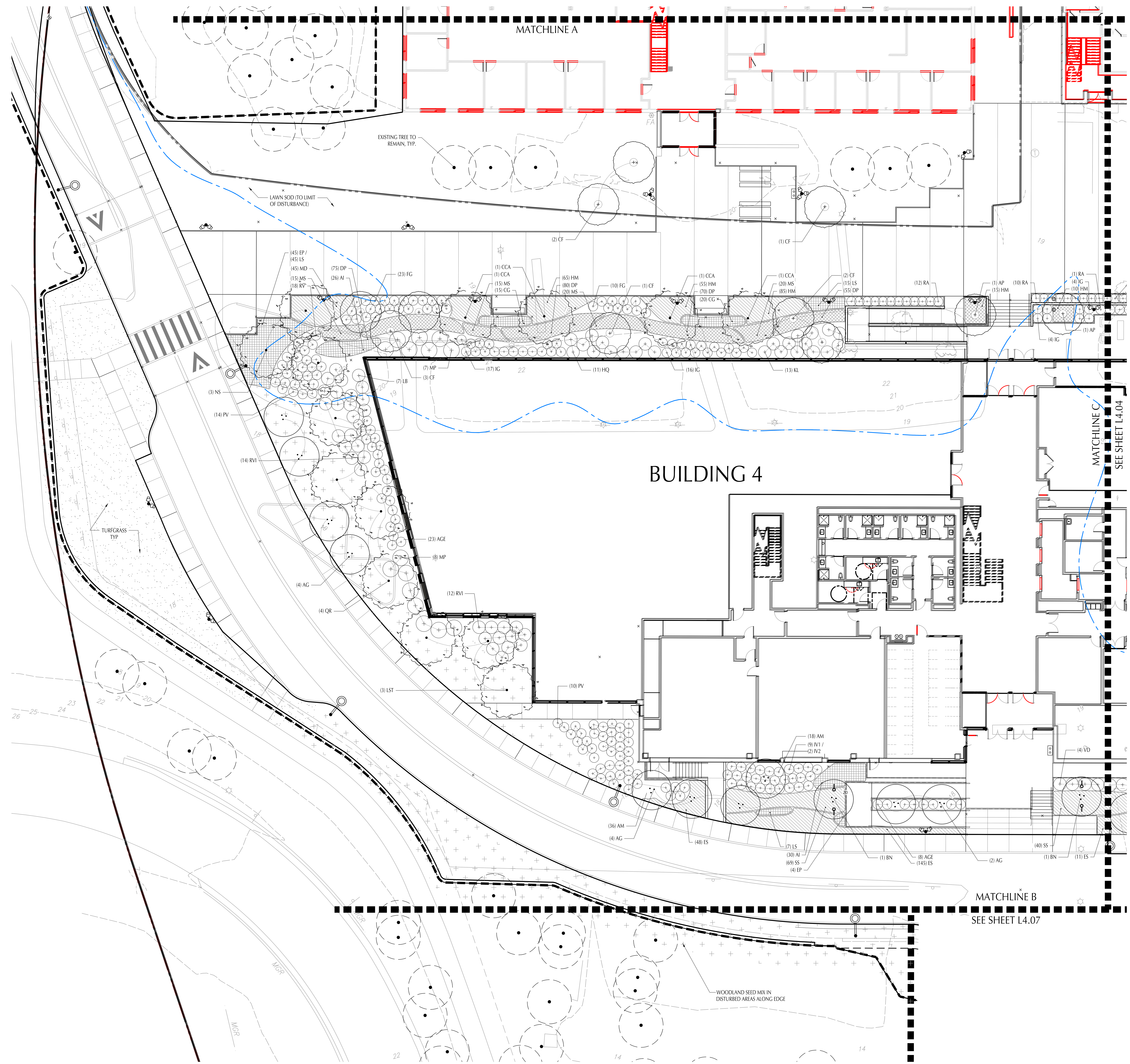
Description

OVERALL PLANTING PLAN

Scale 1" = 40'-0"

0 20' 40' 80' 120'

Building ID	Sheet
SITE	L4.00

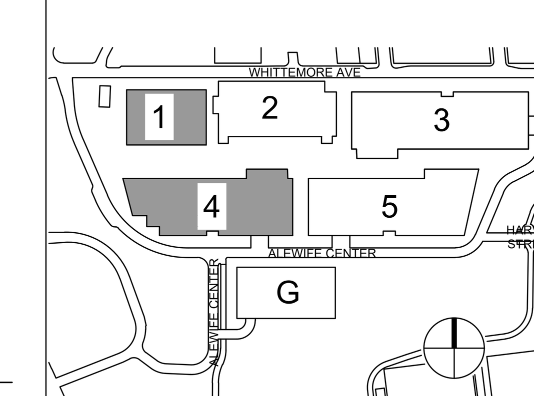


1 PROMENADE WEST
SCALE: 1" = 10'-0"

SHEET NOTES

GENERAL NOTES

KEY PLAN



IQHQ

Cambridge, MA 02140

Gensler

One Beacon Street
Third Floor
Boston, MA 02108
United States

Tel (617) 619-5700
Fax (617) 619-5701

Structural Engineer
McNamara Salvia
101 Federal Street
Suite 1100
Boston, MA 02110
Tel (617) 737-0040

Civil Engineer
Vanasse Hanen Brustlin, Inc.
99 High Street - 10th Floor
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R.W. Sullivan Engineering
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Simpson Gumpertz & Heger
480 Totten Pond Road
Waltham, MA 02451
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Burlington, MA 01803
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Life Safety
Code Red
154 Turnpike Road - Suite 200
Southborough, MA 01772
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Simon Design Engineering
49 Walnut Park, Building #2
Wellesley, MA 02481
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e3i Engineers
137A Lewis Wharf
Boston, MA 02110
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IQHQ Alewife Park
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11.7592.000

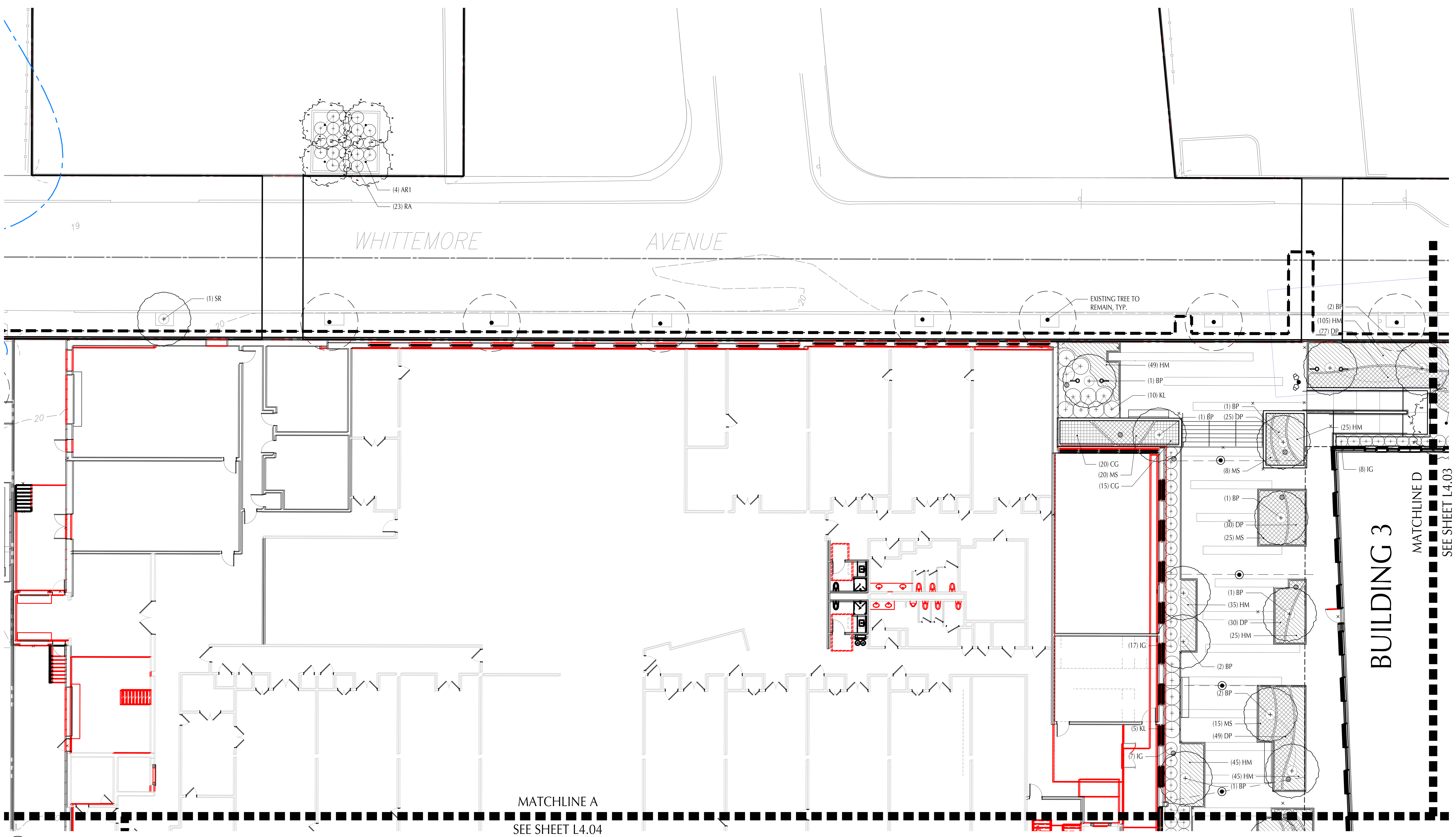
Description
PLANTING PLAN

Scale
1" = 10'-0"

Building ID	Sheet
SITE	L4.01

SHEET NOTES

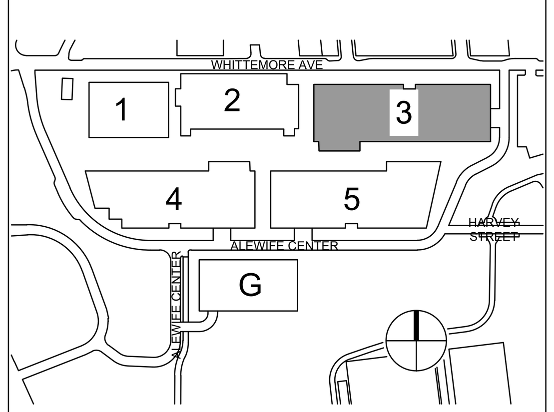
GENERAL NOTES



1 CAMPUS CENTER NORTH

SCALE: 1" = 10'-0"

KEY PLAN



IQHQ

Cambridge, MA 02140

Gensler

One Beacon Street
Third Floor
Boston, MA 02108
United States

Tel (617) 619-5700
Fax (617) 619-5701

Structural Engineer
McNamara Salvia
101 Federal Street
Suite 1100
Boston, MA 02110
Tel (617) 737-0040

Civil Engineer
Vanasse Hanen Brustlin, Inc.
99 High Street - 10th Floor
Boston, MA 02110
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MEP & Fire Protection
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Boston, MA 02129
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480 Totten Pond Road
Waltham, MA 02451
Tel (781) 907-9000

Geotechnical Engineer
Haley & Aldrich, Inc.
70 Blanchard Road, Suite 204
Burlington, MA 01803
Tel (617) 886-7400

Life Safety
Code Red
154 Turnpike Road - Suite 200
Southborough, MA 01772
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Shadley Associates
1730 Massachusetts Avenue
Lexington, MA 02420
Tel (781) 652-8809

Parking Garage

Garage Structural Engineer
Simon Design Engineering
49 Walnut Park, Building #2
Wellesley, MA 02481
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Garage MEP & FP
e3i Engineers
137A Lewis Wharf
Boston, MA 02110
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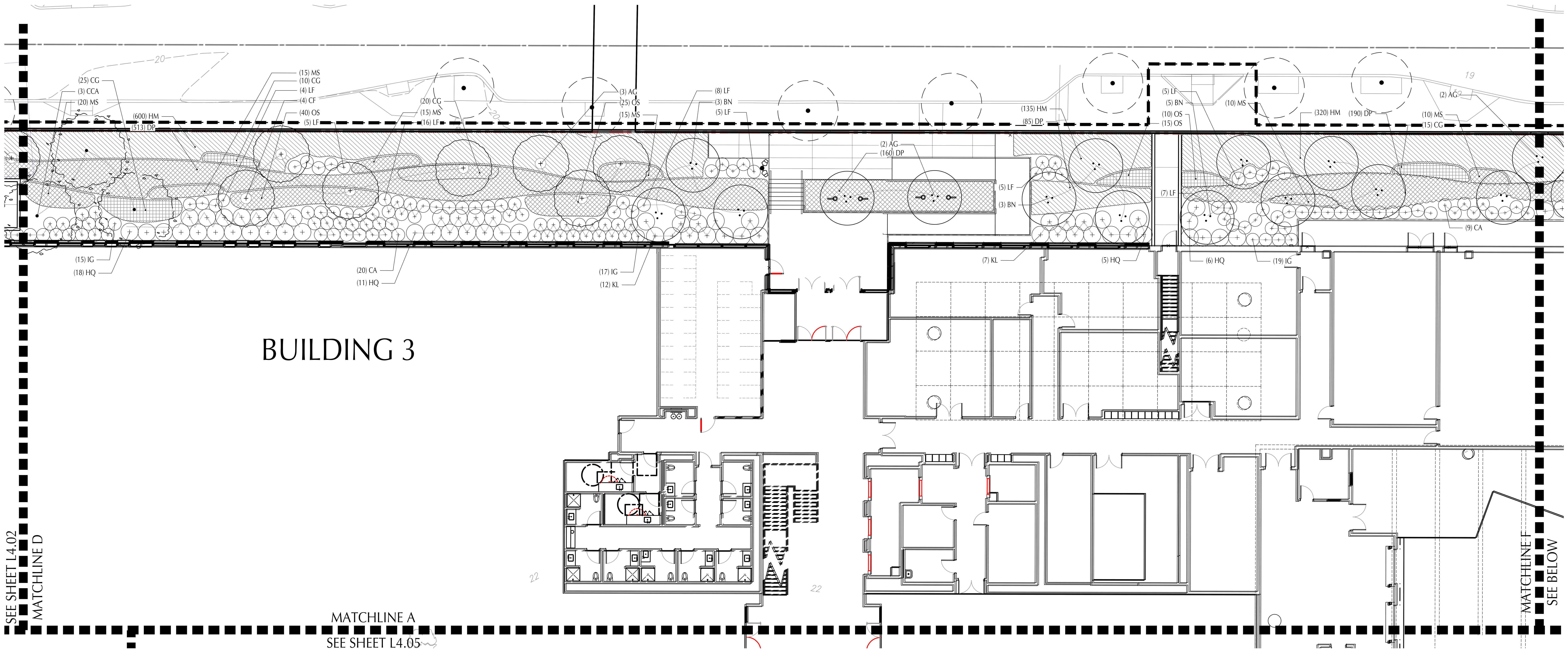
Description
PLANTING PLAN

Scale
1" = 10'-0"

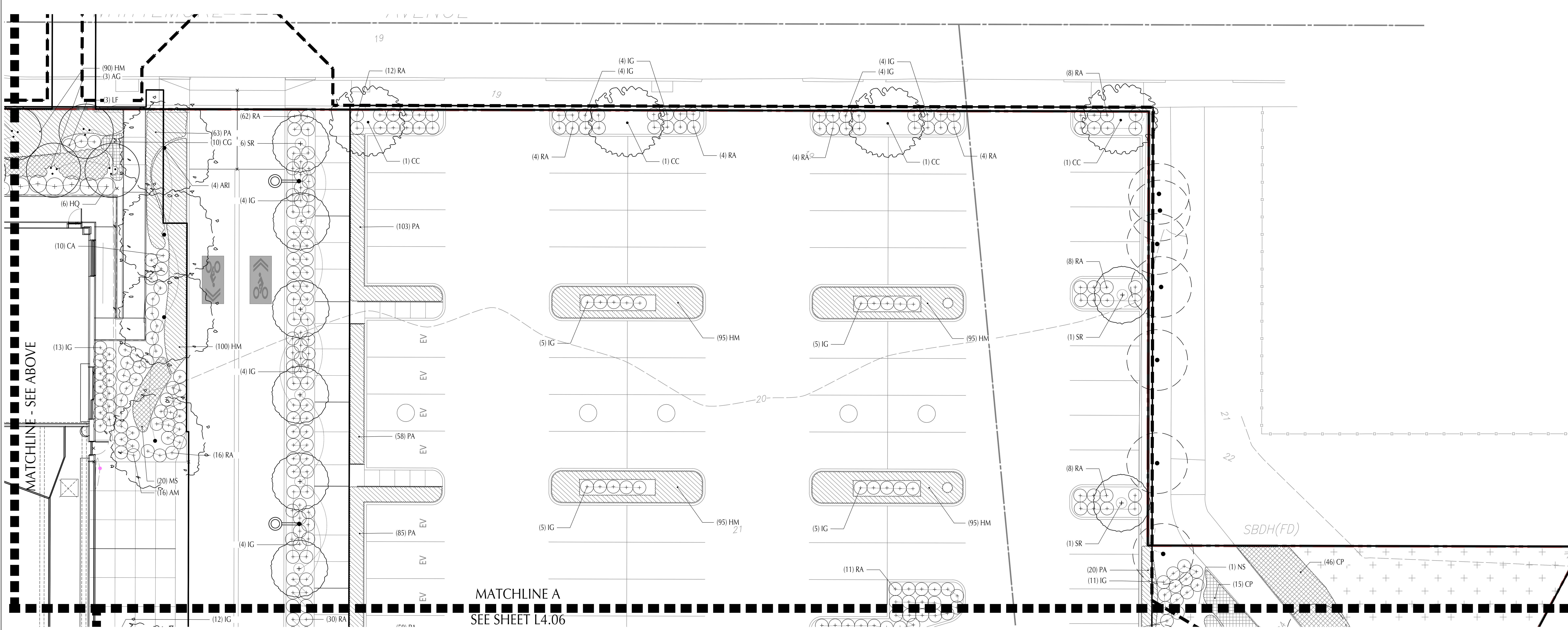
Building ID	Sheet
SITE	L4.02

SHEET NOTES



1 WHITTEMORE AVENUE - BUILDING 3 NORTH

SCALE: 1" = 10'-0"

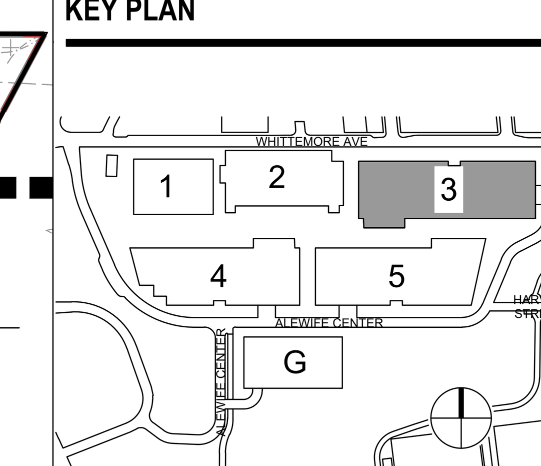


1 BUILDING 3 & PARKING LOT NORTH

SCALE: 1" = 10'-0"

GENERAL NOTES

KEY PLAN



IQHQ

Cambridge, MA 02140

Gensler

One Beacon Street
Third Floor
Boston, MA 02108
United States

Tel (617) 619-5700
Fax (617) 619-5701

Structural Engineer
McNamara Salvia
101 Federal Street
Suite 1100
Boston, MA 02110
Tel (617) 737-0040

Civil Engineer
Vanasse Hanen Brustlin, Inc.
99 High Street - 10th Floor
Boston, MA 02110
Tel (617) 728-7777

MEP & Fire Protection
R.W. Sullivan Engineering
529 Main Street - Suite 203
Boston, MA 02129
Tel (617) 523-8227

Building Enclosures
Simpson Gumpertz & Heger
480 Totten Pond Road
Waltham, MA 02451
Tel (781) 907-9000

Geotechnical Engineer
Haley & Aldrich, Inc.
70 Blanchard Road, Suite 204
Burlington, MA 01803
Tel (617) 886-7400

Life Safety
Code Red
154 Turnpike Road - Suite 200
Southborough, MA 01772
Tel (617) 500-7633

Landscape Architect
Shadley Associates
1730 Massachusetts Avenue
Lexington, MA 02420
Tel (781) 652-8809

Parking Garage

Garage Structural Engineer
Simon Design Engineering
49 Walnut Park, Building #2
Wellesley, MA 02481
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Garage MEP & FP
e3i Engineers
137A Lewis Wharf
Boston, MA 02110
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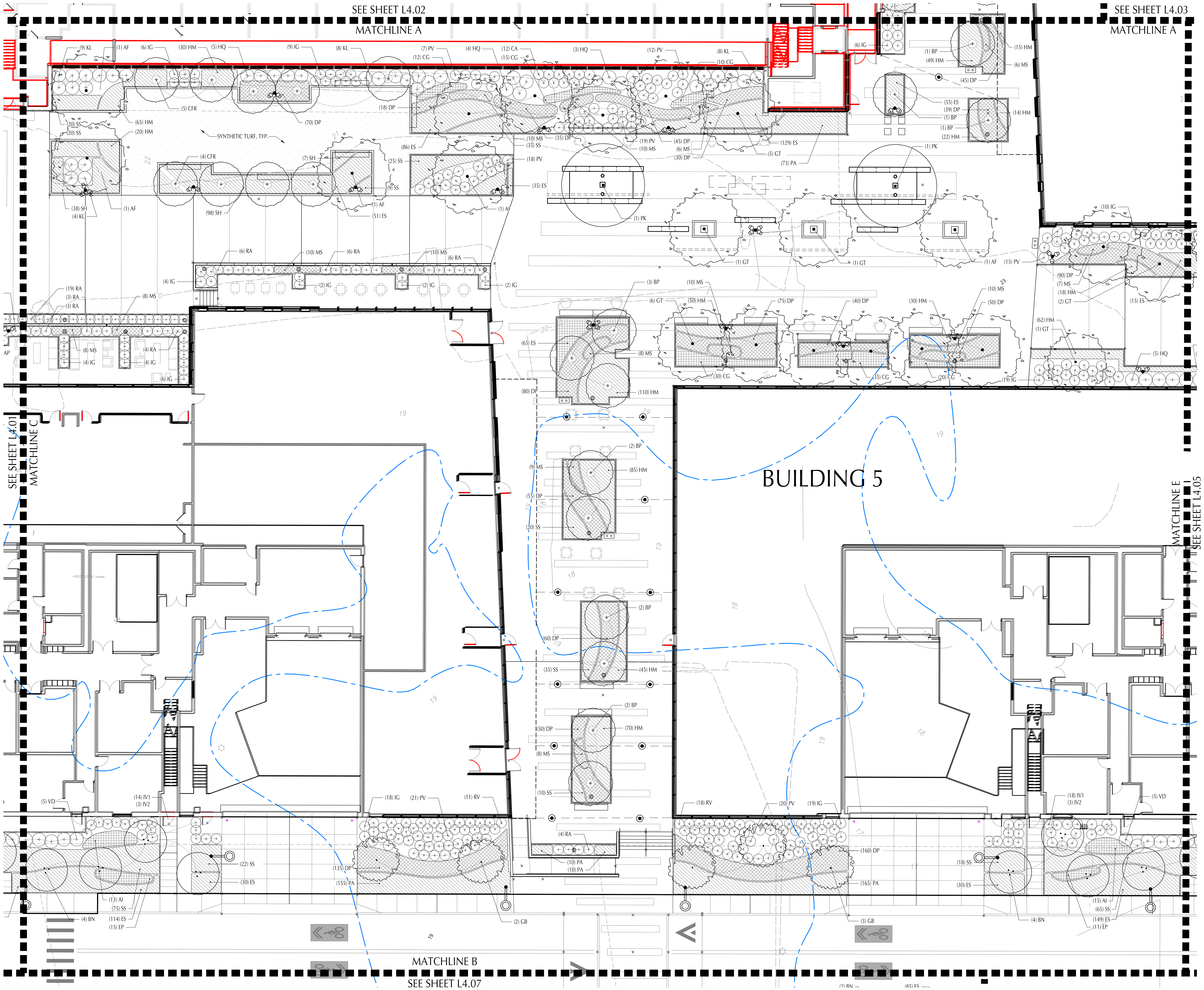
Description
PLANTING PLAN

Scale
1" = 10'-0"

Building ID	Sheet
SITE	L4.03

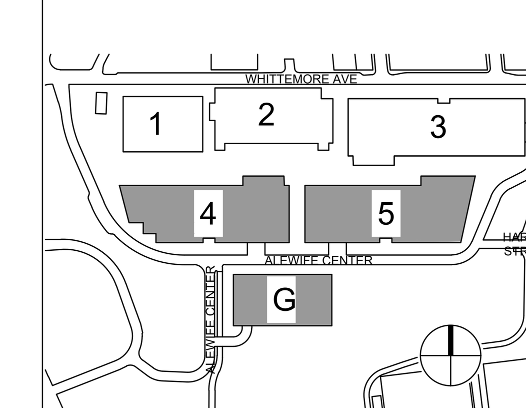


SHEET NOTES

GENERAL NOTES

1. SEE LEGEND L0.00 FOR ALL MATERIAL & PRODUCT INFORMATION.

KEY PLAN



IQHQ

Cambridge, MA 02140

Gensler

One Beacon Street
Third Floor
Boston, MA 02108
United States

Tel (617) 619-5700
Fax (617) 619-5701

Structural Engineer
McNamara Salvia
101 Federal Street
Suite 1100
Boston, MA 02110
Tel (617) 737-0040

Civil Engineer
Vanasse Hanen Brustlin, Inc.
99 High Street - 10th Floor
Boston, MA 02110
Tel (617) 728-7777

MEP & Fire Protection
R.W. Sullivan Engineering
529 Main Street - Suite 203
Boston, MA 02129
Tel (617) 523-8227

Building Enclosures
Simpson Gumpertz & Heger
480 Totten Pond Road
Waltham, MA 02451
Tel (781) 907-9000

Geotechnical Engineer
Haley & Aldrich, Inc.
70 Blanchard Road, Suite 204
Burlington, MA 01803
Tel (617) 886-7400

Life Safety
Code Red
154 Turnpike Road - Suite 200
Southborough, MA 01772
Tel (617) 500-7633

Landscape Architect
Shadley Associates
1730 Massachusetts Avenue
Lexington, MA 02420
Tel (781) 652-8809

Parking Garage

Garage Structural Engineer
Simon Design Engineering
49 Walnut Park, Building #2
Wellesley, MA 02481
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Garage MEP & FP
e3i Engineers
137A Lewis Wharf
Boston, MA 02110
Tel (617) 530-1104

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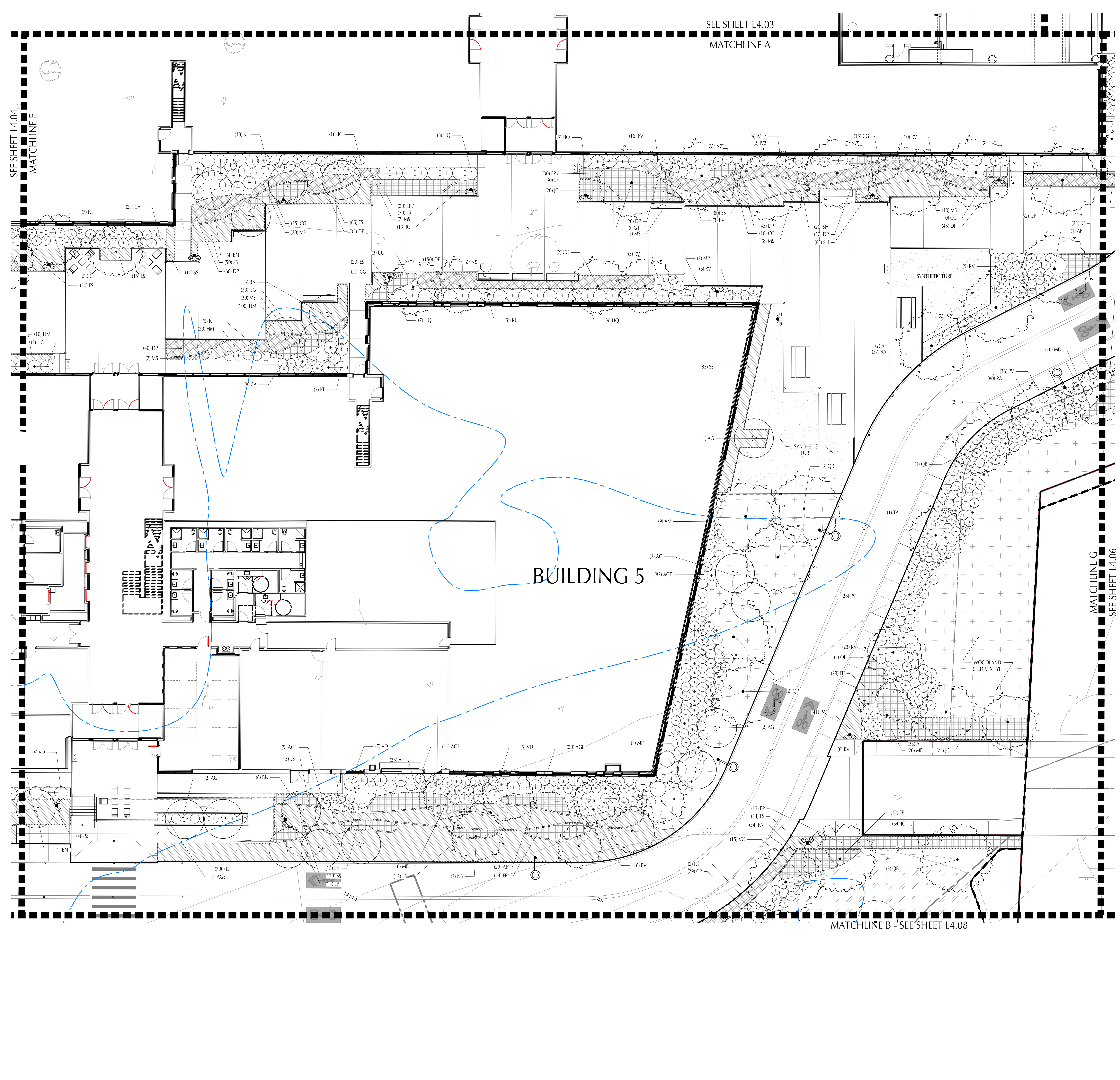
Description
PLANTING PLAN

Scale
1" = 10'-0"

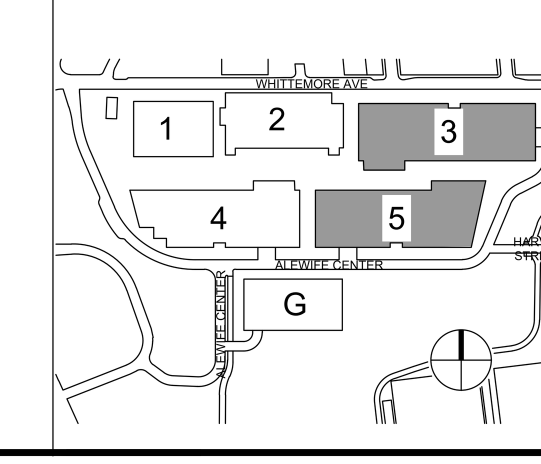
Building ID	Sheet
SITE	**L4.04**



SHEET NOTES

GENERAL NOTES

KEY PLAN



IQHQ

Cambridge, MA 02140

Gensler

One Beacon Street
Third Floor
Boston, MA 02108
United States

Tel (617) 619-5700
Fax (617) 619-5701

Structural Engineer
McNamara Salvia
101 Federal Street
Suite 1100
Boston, MA 02110
Tel (617) 737-0040

Civil Engineer
Vanasse Hanen Brustlin, Inc.
99 High Street - 10th Floor
Boston, MA 02110
Tel (617) 728-7777

MEP & Fire Protection
R.W. Sullivan Engineering
529 Main Street - Suite 203
Boston, MA 02129
Tel (617) 523-8227

Building Enclosures
Simpson Gumpertz & Heger
480 Totten Pond Road
Waltham, MA 02451
Tel (781) 907-9000

Geotechnical Engineer
Haley & Aldrich, Inc.
70 Blanchard Road, Suite 204
Burlington, MA 01803
Tel (617) 886-7400

Life Safety
Code Red
154 Turnpike Road - Suite 200
Southborough, MA 01772
Tel (617) 500-7633

Landscape Architect
Shadley Associates
1730 Massachusetts Avenue
Lexington, MA 02420
Tel (781) 652-8809

Parking Garage

Garage Structural Engineer
Simon Design Engineering
49 Walnut Park, Building #2
Wellesley, MA 02481
Tel (781) 237-2226

Garage MEP & FP
e3i Engineers
137A Lewis Wharf
Boston, MA 02110
Tel (617) 530-1104

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09/01/2021	CONSTRUCTION DOCUMENTS ISSUANCE

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Description
PLANTING PLAN

Scale
1" = 10'-0"

Building ID	Sheet
SITE	L4.05

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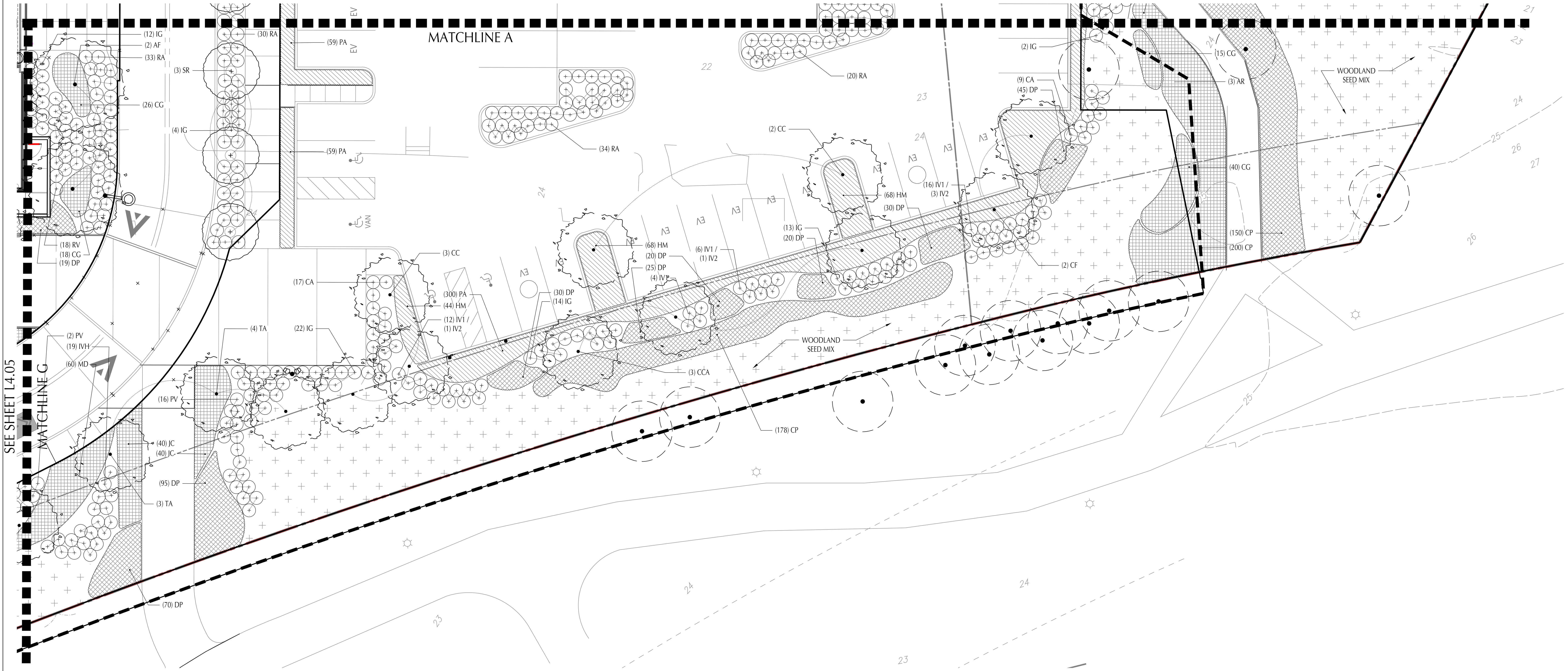
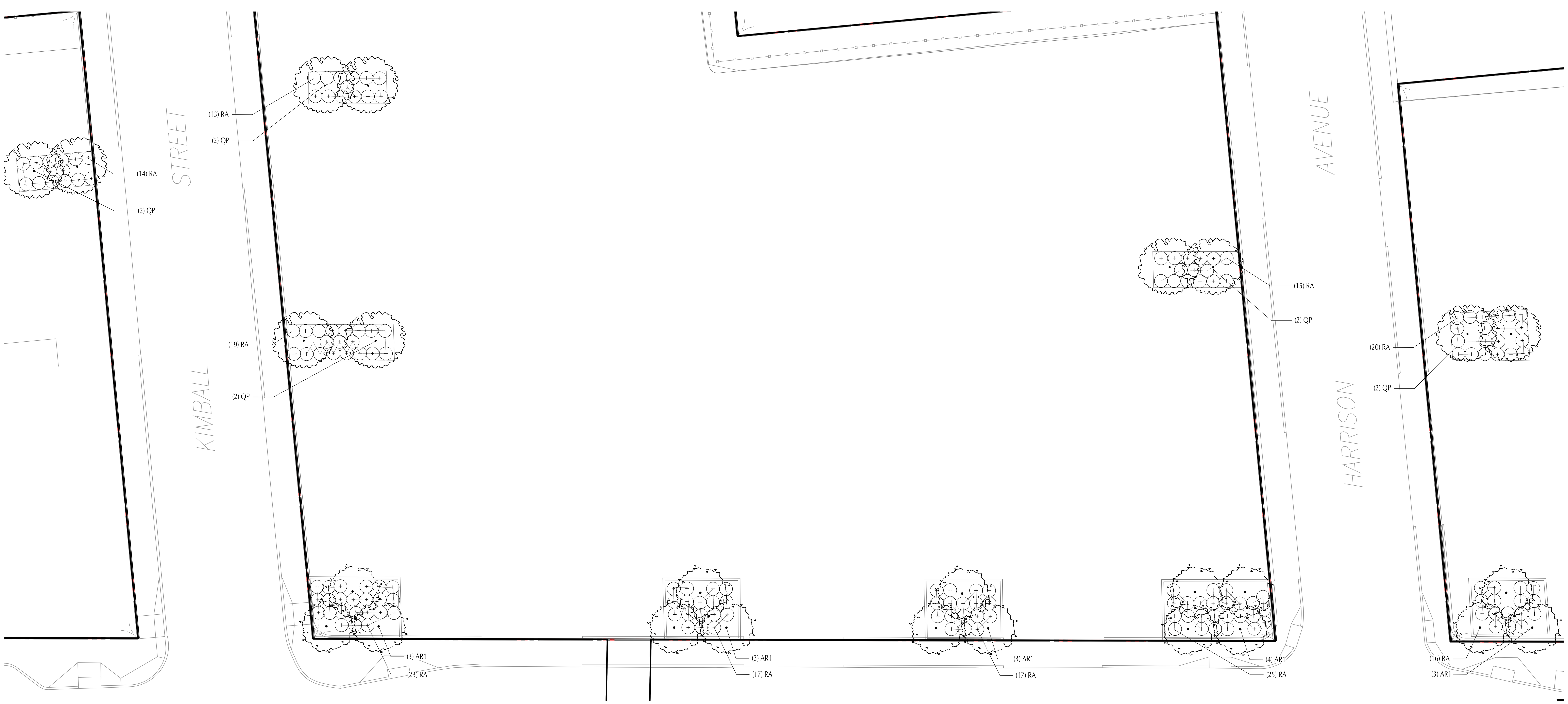
SHEET NOTES



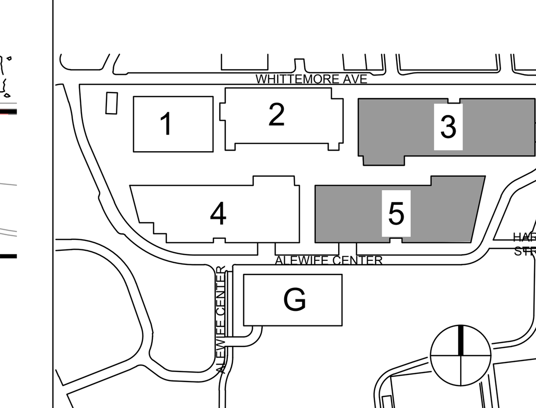
1 PARKING LOT SOUTH
SCALE: 1" = 10'-0"



2 EXISTING PARKING LOT NEW TREES EAST
SCALE: 1" = 10'-0"

GENERAL NOTES

KEY PLAN



IQHQ

Cambridge, MA 02140

Gensler

One Beacon Street
Third Floor
Boston, MA 02108
United States
Tel (617) 619-5700
Fax (617) 619-5701

Structural Engineer
McNamara Salvia
101 Federal Street
Suite 1100
Boston, MA 02110
Tel (617) 737-0040

Civil Engineer
Vanasse Hanen Brustlin, Inc.
99 High Street - 10th Floor
Boston, MA 02110
Tel (617) 728-7777

MEP & Fire Protection
R.W. Sullivan Engineering
529 Main Street - Suite 203
Boston, MA 02129
Tel (617) 523-8227

Building Enclosures
Simpson Gumpertz & Heger
480 Totten Pond Road
Waltham, MA 02451
Tel (781) 907-9000

Geotechnical Engineer
Haley & Aldrich, Inc.
70 Blanchard Road, Suite 204
Burlington, MA 01803
Tel (617) 886-7400

Life Safety
Code Red
154 Turnpike Road - Suite 200
Southborough, MA 01772
Tel (617) 500-7633

Landscape Architect
Shadley Associates
1730 Massachusetts Avenue
Lexington, MA 02420
Tel (781) 652-8809

Parking Garage

Garage Structural Engineer
Simon Design Engineering
49 Walnut Park, Building #2
Wellesley, MA 02481
Tel (781) 237-2226

Garage MEP & FP
e3i Engineers
137A Lewis Wharf
Boston, MA 02110
Tel (617) 530-1104

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Description
PLANTING PLAN

Scale
1" = 10'-0"

Building ID	Sheet
SITE	L4.06

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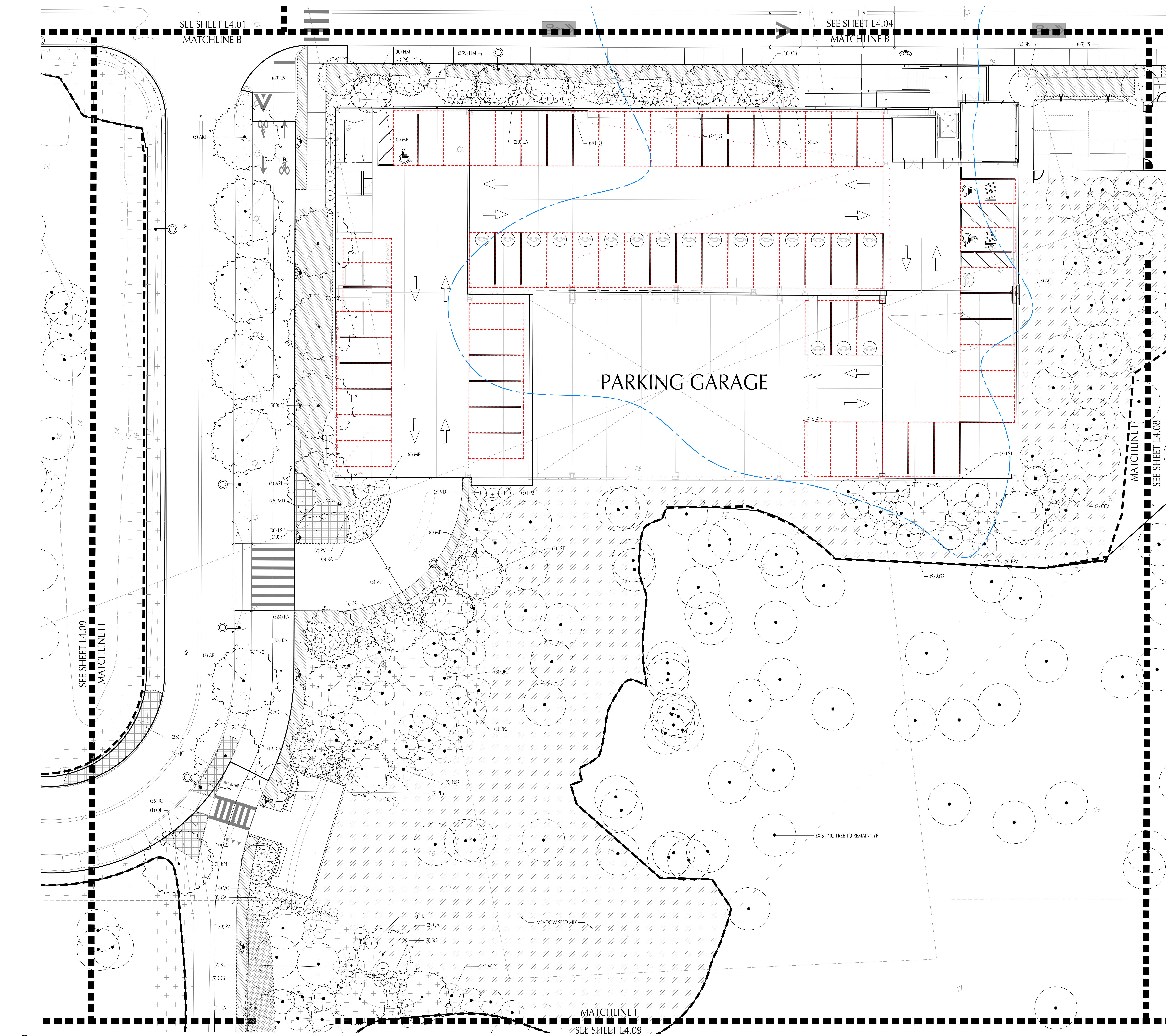

1 PARKING GARAGE
SCALE: 1" = 10'-0"

IQHQ

Cambridge, MA 02140

Gensler
One Beacon Street
Third Floor
Boston, MA 02108
United States
Tel (617) 619-5700
Fax (617) 619-5701

Structural Engineer
McNamara Salvia
101 Federal Street
Suite 1100
Boston, MA 02110
Tel (617) 737-0040

Civil Engineer
Vanasse Hanen Brustlin, Inc.
99 High Street - 10th Floor
Boston, MA 02110
Tel (617) 728-7777

MEP & Fire Protection
R.W. Sullivan Engineering
529 Main Street - Suite 203
Boston, MA 02129
Tel (617) 523-8227

Building Enclosures
Simpson Gumpertz & Heger
480 Totten Pond Road
Waltham, MA 02451
Tel (781) 907-9000

Geotechnical Engineer
Haley & Aldrich, Inc.
70 Blanchard Road, Suite 204
Burlington, MA 01803
Tel (617) 886-7400

Life Safety
Code Red
154 Turnpike Road - Suite 200
Southborough, MA 01772
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Landscape Architect
Shadley Associates
1730 Massachusetts Avenue
Lexington, MA 02420
Tel (781) 652-8809

Parking Garage

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Simon Design Engineering
49 Walnut Park, Building #2
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Garage MEP & FP
e3i Engineers
137A Lewis Wharf
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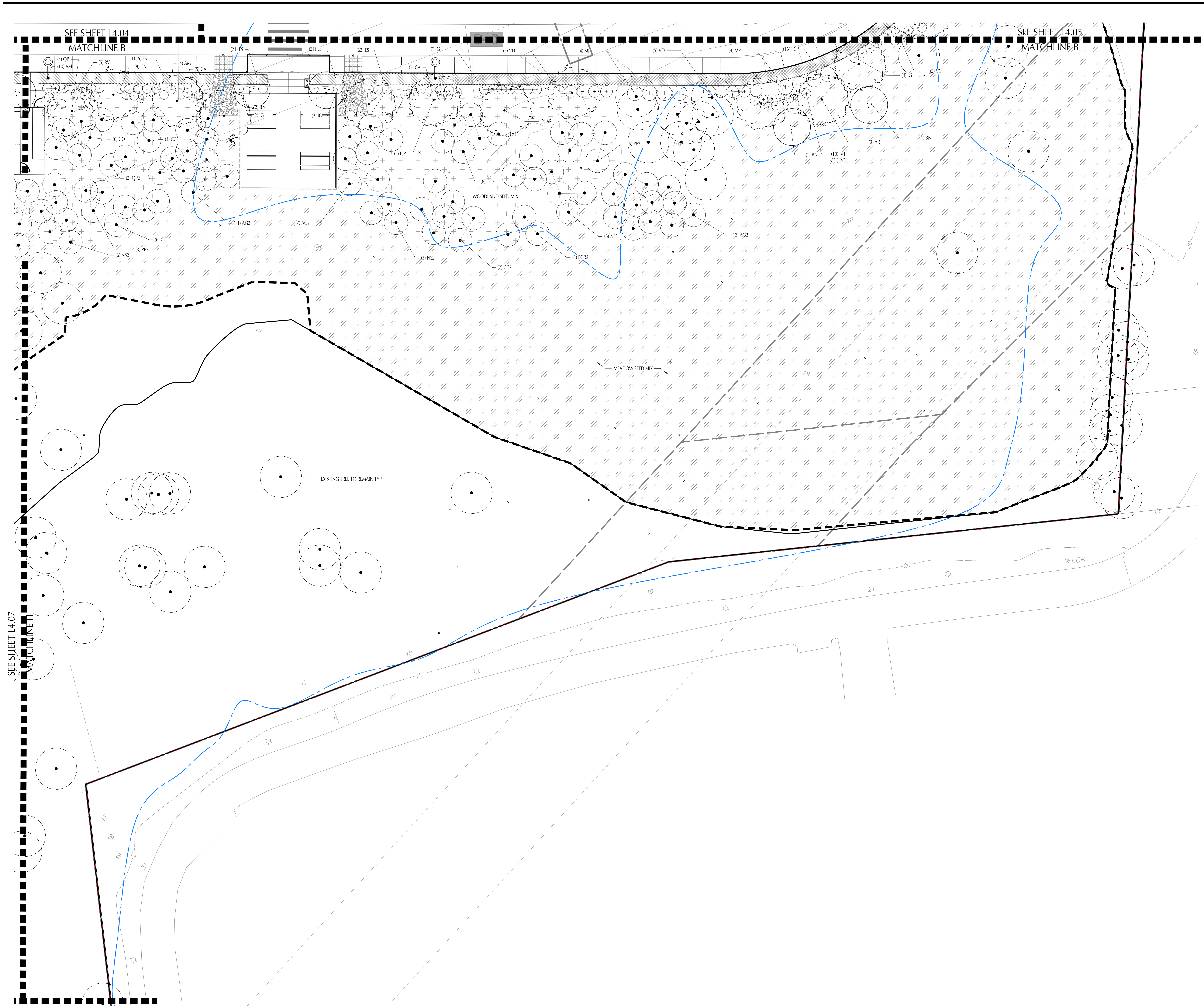
Description
PLANTING PLAN

Scale
1" = 10'-0"

Building ID	Sheet
SITE	L4.07



1 PARKING GARAGE EAST

SCALE: 1" = 10'-0"

IQHQ

Cambridge, MA 02140

Gensler

One Beacon Street
Third Floor
Boston, MA 02108
United States

Tel (617) 619-5700
Fax (617) 619-5701

Structural Engineer
McNamara Salvia
101 Federal Street
Suite 1100
Boston, MA 02110
Tel (617) 737-0040

Civil Engineer
Vanasse Hanen Brustlin, Inc.
99 High Street - 10th Floor
Boston, MA 02110
Tel (617) 728-7777

MEP & Fire Protection
R.W. Sullivan Engineering
529 Main Street - Suite 203
Boston, MA 02129
Tel (617) 523-8227

Building Enclosures
Simpson Gumpertz & Heger
480 Totten Pond Road
Waltham, MA 02451
Tel (781) 907-9000

Geotechnical Engineer
Haley & Aldrich, Inc.
70 Blanchard Road, Suite 204
Burlington, MA 01803
Tel (617) 886-7400

Life Safety
Code Red
154 Turnpike Road - Suite 200
Southborough, MA 01772
Tel (617) 500-7633

Landscape Architect
Shadley Associates
1730 Massachusetts Avenue
Lexington, MA 02420
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Parking Garage

Garage Structural Engineer
Simon Design Engineering
49 Walnut Park, Building #2
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Tel (781) 237-2226

Garage MEP & FP
e3i Engineers
137A Lewis Wharf
Boston, MA 02110
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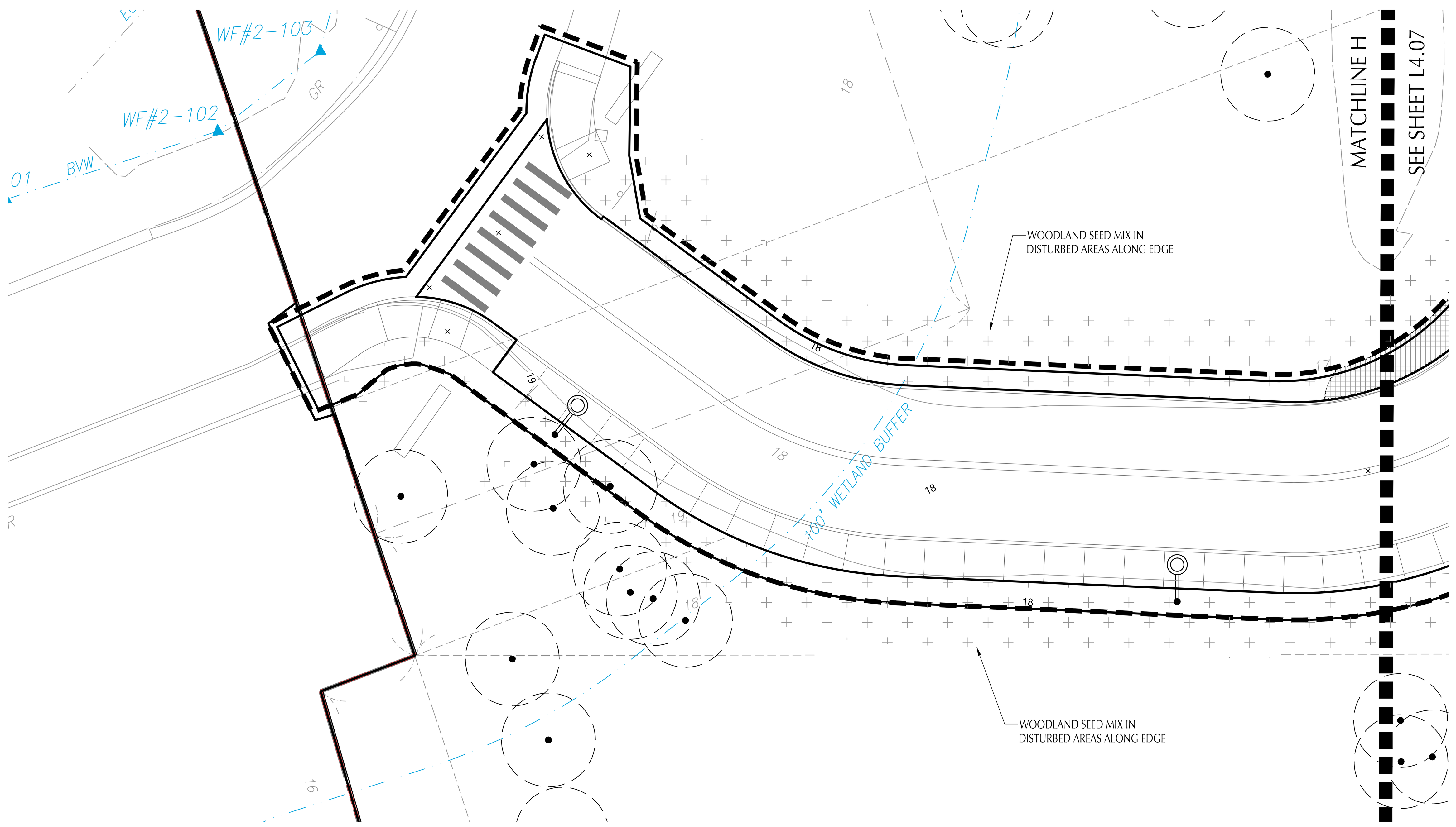
Description

PLANTING PLAN

Scale

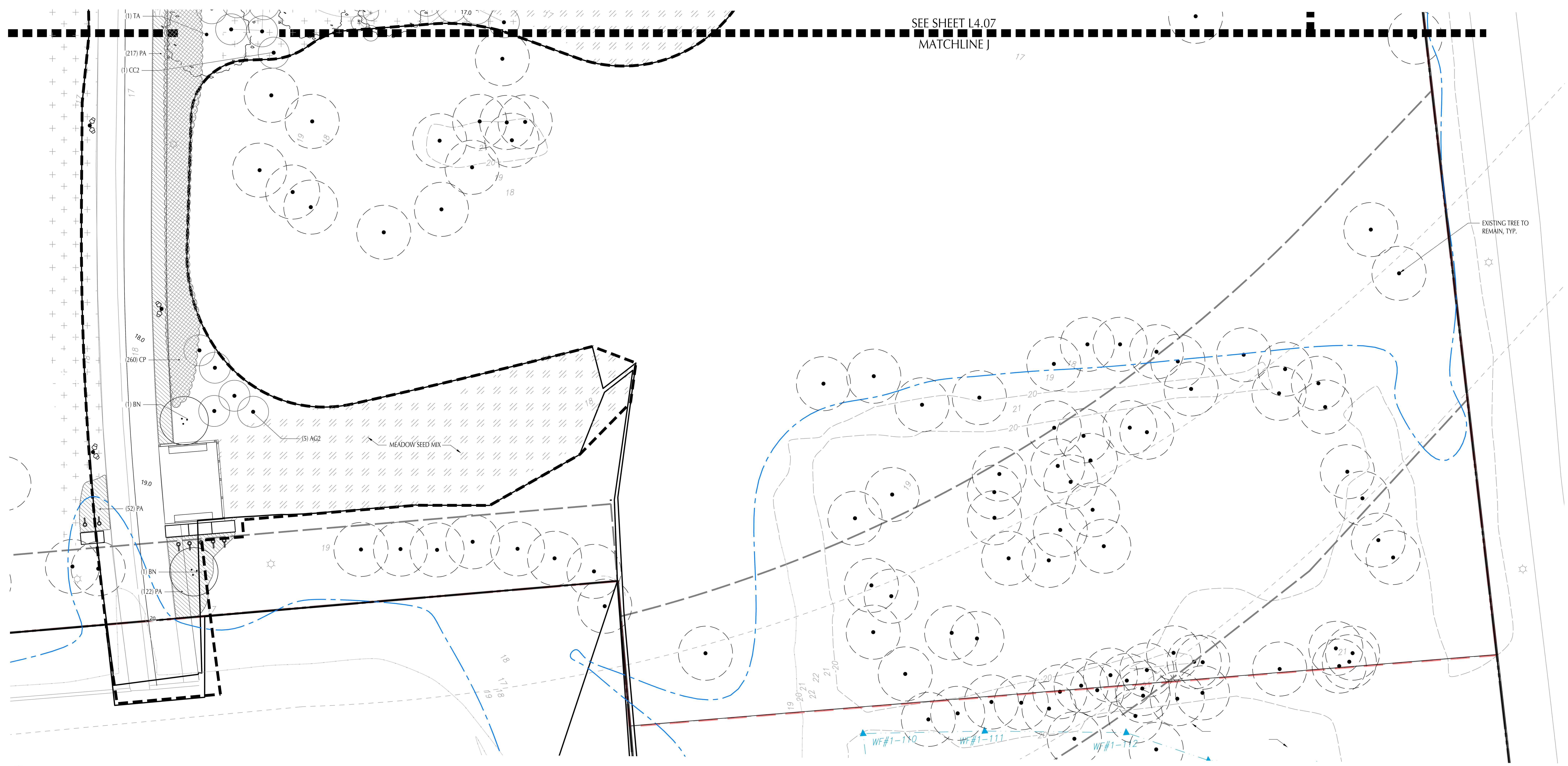
1" = 10'-0"

Building ID	Sheet
SITE	L4.08



2 SOUTHWEST CONNECTOR DRIVE - WEST OF PARKING GARAGE

SCALE: 1" = 10'-0"



1 SOUTH SITE ENTRY - SOUTH OF PARKING GARAGE

SCALE: 1" = 10'-0"

IQHQ

Cambridge, MA 02140

Gensler

One Beacon Street
Third Floor
Boston, MA 02108
United States

Tel (617) 619-5700
Fax (617) 619-5701

Structural Engineer
McNamara Salvia
101 Federal Street
Suite 1100
Boston, MA 02110
Tel (617) 737-0040

Civil Engineer
Vanasse Hanen Brustlin, Inc.
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Simon Design Engineering
49 Walnut Park, Building #2
Wellesley, MA 02481
Tel (781) 237-2226

Garage MEP & FP
e3i Engineers
137A Lewis Wharf
Boston, MA 02110
Tel (617) 530-1104

△ Date	Description
09/01/2021	CONSTRUCTION DOCUMENTS ISSUANCE

Seal / Signature

IQHQ Alewife Park
Alewife Park - IQHQ

20143
11.7592.000

Description
PLANTING PLAN

Scale
1" = 10'-0"

Building ID	Sheet
SITE	L4.09

ALEWIFE PROPOSED TREES

PROPOSED TREES OUTSIDE WETLANDS JURISDICTION

SYMBOL	BOTANICAL NAME	COMMON NAME		SIZE	PLANT COUNTS L4.01	L4.02	L4.03	L4.04	L4.05	L4.06	L4.07	L4.08	L4.09	TOTAL		CALIPER TOTALS
DECIDUOUS SHADE TREES																
AF	Acer x freemanii 'Autumn Blaze'	Autumn Blaze Freeman Maple	4.25	4"-4.5" cal.				5	10	2				17		72.25
AR	Acer rubrum 'October Glory'	October Glory Red Maple (3.25")	3.25	3"-3.5" cal.								5		5		16.25
AR1	Acer rubrum 'Armstrong'	Armstrong Red Maple (upright) (3.25)	3.25	3"-3.5" cal.		4	4			17	5			30		97.5
FGR2	Fagus grandifolia	American Beech	1.25	1"-1.5" cal.								3		3		3.75
GB	Ginkgo biloba 'Princeton Sentry'	Princeton Sentry Maidenhair Tree (3.25")	3.25	3"-3.5" cal.				5			10			15		48.75
GT	Gleditsia triacanthos var. inermis 'Draves'	Street Keeper Thornless Honeylocust (3.25")	4.25	4"-4.5" cal.				16	6					22		93.5
LST	Liquidambar styraciflua	Sweetgum (3.25")	3.25	3"-3.5" cal.	3						2			5		16.25
NS	Nyssa sylvatica 'Wildfire'	Wildfire Tupelo	3.25	3"-3.5" cal.	3				3					6		19.5
NS2	Nyssa sylvatica 'Wildfire'	Wildfire Tupelo	1.25	1"-1.5" cal.								10		10		12.5
QB	Quercus bicolor	Swamp White Oak	3.75	3.5"-4" cal.					4					4		15
QP	Quercus palustris	Pin Oak (3.75")	3.75	3.5"-4" cal.					6	10		2		18		67.5
QR	Quercus rubra	Northern Red Oak	3.75	3.5"-4" cal.	4				3					7		26.25
TA	Tilia americana	American Linden (3.25")	3.25	3"-3.5" cal.					3	3				6	**SUB TOTAL**	19.5
															148	
ORNAMENTAL TREES																
AP	Acer palmatum 'Pixie'	Pixie Japanese Maple	2.25	5'-6' ht.	2									2		4.5
AG	Amelanchier x grandifolia 'Autumn Brilliance'	Autumn Brilliance Serviceberry (6")	3	10'-12' ht.	10		10		7					27		81
AG2	Amelanchier x grandifolia 'Autumn Brilliance'	Autumn Brilliance Serviceberry (6")	1.25									7		7		8.75
BN	Betula nigra 'Heritage'	Heritage Riverbirch (7.5")	4.25	12'-14' ht.	2		11	8	14		2	4	1	42		178.5
BP	Betula pendula	Silver Birch (3.25")	3.25	3"-3.5" cal.		12		12						24		78
CC	Cercis canadensis 'Tennessee Pink'	Tennessee Pink Eastern Redbud	2.25	2"-2.5" cal.			4		10	5				19		42.75
CC2	Cercis canadensis 'Tennessee Pink'	Tennessee Pink Eastern Redbud	1.25									13		13		16.25
CCA	Carpinus caroliniana	American Hornbeam	2.75	2.5"-3" cal.	4		3			3				10		27.5
CF	Cornus florida	Flowering Dogwood	2.25	2"-2.5" cal.	9		4			2				15		33.75
CFR	Cornus florida var. rubra	Flowering Red Dogwood	2.25	2"-2.5" cal.				9						9		20.25
PP2	Prunus pensylvanica	Pin Cherry	1.25								5	5		10		12.5
PK	Prunus serullata 'Kwanzan'	Kwanzan Flowering Cherry	8	8" cal.				2						2		16
PVI	Prunus virginiana	Chokecherry	2.25	2"-2.5" cal.										0		0
SR	Syringa reticulata 'Ivory Silk'	Ivory Silk Japanese Tree Lilac (2.25")	2.25	2"-2.5" cal.			8			3				11	**TOTAL**	24.75
															339	
EVERGREEN TREES																
PS	Pinus strobus	Eastern White Pine	3.25	8'-10' ht.										0	**TOTAL**	0
															0	

TOTAL TREES OUTSIDE WETLANDS JURISDICTION **339** **CALIPER INCHES** **1053**

PROPOSED TREES WITHIN WETLANDS JURISDICTION

SYMBOL	BOTANICAL NAME	COMMON NAME		SIZE	PLANT COUNTS L4.01	L4.02	L4.03	L4.04	L4.05	L4.06	L4.07	L4.08	L4.09	TOTAL	CALIPER TOTALS
DECIDUOUS SHADE TREES															
AR	Acer rubrum 'October Glory'	October Glory Red Maple (3.25")	3.25	3"-3.5" cal.							4			4	13
AR1	Acer rubrum 'Armstrong'	Armstrong Red Maple (upright) (3.25)	3.25	3"-3.5" cal.							6			6	19.5
AR2	Acer rubrum 'Armstrong'	Armstrong Red Maple (upright)	1.25	1"-1.5" cal.							6			6	7.5
CO	Carya ovata	Shagbark Hickory	1.25	1"-1.5"								6		6	7.5

LST	Liquidambar styraciflua	Sweetgum (3.25")	3.25	3"-3.5" cal.							3			3		9.75
NS2	Nyssa sylvatica 'Wildfire'	Wildfire Tupelo	1.25	1"-1.5" cal.							9	6		15		18.75
QA	Quercus alba	White Oak	3.25	3"-3.5" cal.							3			3		9.75
QP	Quercus palustris	Pin Oak (3.75")	3.75	3.5"-4" cal.							1	4		5		18.75
QP2	Quercus palustris	Pin Oak	1.25	1"-1.5" cal.							8	2		10		12.5
TA	Tilia americana	American Linden (3.25")	3.25	3"-3.5" cal.							1		1	2	**SUB TOTAL**	6.5
															60	
ORNAMENTAL TREES																
AG2	Amelanchier x grandifolia 'Autumn Brilliance'	Autumn Brilliance Serviceberry (6")	1.25								24	23	5	52		65
BN	Betula nigra 'Heritage'	Heritage Riverbirch	4.25	12'-14' ht.							2		1	3		12.75
CC2	Cercis canadensis 'Tennessee Pink'	Tennessee Pink Eastern Redbud	1.25								17	9	1	27		33.75
PP2	Prunus pensylvanica	Pin Cherry	1.25								11	3		14		17.5
															156	

TOTAL TREES WITHIN WETLANDS JURISDICTION **156** **CALIPER INCHES** **252.5**

NATIVE WHIPS

Native, 1/2" caliper species to be planted within Habitat Area. Species selection to be determined by availability at time of planting.	0.5	1/2"	**TOTAL NATIVE WHIPS**	**150**	**CALIPER INCHES**	**75**

PROPOSED TREES ON PRIVATE PROPERTY OUTSIDE DEVELOPMENT AREA

SYMBOL	BOTANICAL NAME	COMMON NAME		SIZE	PLANT COUNTS									TOTAL		CALIPER TOTALS
AR	Acer rubrum 'October Glory'	October Glory Red Maple (3.25")	3.25	3"-3.5" cal.										3	Rindge Ave	9.75
BN	Betula nigra 'Heritage'	Heritage Riverbirch (7.5")	4.25	12'-14' ht.										4	Rindge Ave	17
QP	Quercus palustris	Pin Oak (3.75")	3.25	3.5"-4" cal.										4	Rindge Ave	13
										TOTAL				**11**	**CALIPER INCHES**	**39.75**

TOTAL PROPOSED TREES FOR MITIGATION	**656**
TOTAL PROPOSED MITIGATION CALIPER INCHES	**1420.25**

PROPOSED TREES ON PUBLIC PROPERTY OUTSIDE DEVELOPMENT AREA

SYMBOL	BOTANICAL NAME	COMMON NAME		SIZE	PLANT COUNTS									TOTAL		CALIPER TOTALS
QP	Quercus palustris	Pin Oak	3.25	3"-3.5" cal.										9	Rindge Ave (south)	29.25
SR	Syringa reticulata 'Ivory Silk'	Ivory Silk Japanese Tree Lilac (2.25")	2.25	2"-2.5" cal.		1								1	Whittemore Ave	2.25
										TOTAL				**10**	**CALIPER INCHES**	**31.5**