



THIRD COMMUNITY FORESTRY MANAGEMENT PLAN

January 2020 – December 2024

Local Government

Jack McEvoy, Mayor, Liaison to STC
Alex Roman, Deputy Mayor
Ted Giblin, Councilman
Kevin Ryan, Councilman
Christine McGrath, Councilwoman
Matthew Cavallo, Town Manager
Glen Beckmeyer, Township Engineer
Michael DeCarlo, Engineering Manager
Chuck Molinaro, Public Works Superintendent

Shade Tree Commission

Giovanni Coppa (Chairman)
Bob Prout
Sandra Borland
Val Ryan
Teena Schwartz
Sandra Dubowski, AH #1
Michael Broadwell, AH #2

*This document was prepared with the aid of a
Green Communities Grant from the
New Jersey Department of Environmental Protection*

Written by
John D. Linson, Urban Forestry Consultant
NJ Licensed Tree Expert #198
Questions, please contact John Linson @ 973-766-2143

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Section 1 – County Information Form

Municipality Township of Verona

County Essex

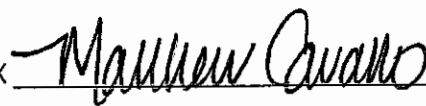
Address 600 Bloomfield Avenue
Verona, New Jersey 07044

Contact Name and Title Michael DeCarlo, Engineering Manager

Phone # (973) 239-8146

Fax # and E-mail (973) 239-7837 MDECARLO@VERONANJ.ORG

Organization Name Township of Verona

Mayor/County Freeholder's Signature X 

Date of Management Plan Submission 7/23/20


Time Period Covered in Management Plan 2020-2024

Community Stewardship Incentive Program (CSIP) Practices Identified in Management Plan:

- | | |
|--|---|
| <input checked="" type="checkbox"/> CSIP #1 Training | <input checked="" type="checkbox"/> CSIP #8 Tree Maintenance and Removals |
| <input checked="" type="checkbox"/> CSIP #2 Community Forestry Ordinance Establishment | <input checked="" type="checkbox"/> CSIP #9 Insect and Disease Management |
| <input checked="" type="checkbox"/> CSIP #3 Public Education and Awareness | <input checked="" type="checkbox"/> CSIP #10 Wildfire Protection |
| <input checked="" type="checkbox"/> CSIP #4 Arbor Day | <input checked="" type="checkbox"/> CSIP #11 Tree Planting |
| <input checked="" type="checkbox"/> CSIP #5 Tree Inventory | <input checked="" type="checkbox"/> CSIP #12 Tree Recycling |
| <input checked="" type="checkbox"/> CSIP #6 Hazard Tree Assessment | <input checked="" type="checkbox"/> CSIP #13 Sidewalk Maintenance Program |
| <input checked="" type="checkbox"/> CSIP #7 Storm Damage Assessment | <input checked="" type="checkbox"/> CSIP #14 Storm Water Management |
| | <input checked="" type="checkbox"/> CSIP #15 Other |

Office Use Only Certification

The above-named municipality/county has made formal application to the New Jersey Forest Service. I am pleased to advise you that after our review, the NJ Forest Service has concluded that this plan meets the standards set forth by the State and the NJ Community Forestry Council and is approved for the period covered.

Signed  7/30/20
 (State Forester) Approved Date

Section 2 – Introduction

A. Mission Statement

Recognizing the enhancing value that street and park trees contribute to the quality of life in the Township of Verona, it is the Township’s mission to promote a sustainable and productive community forest. The introduction of State sanctioned standards, followed by local budgetary enablement, will provide the necessary impetus to minimize Verona’s future exposure to tree-related liability while simultaneously enriching the quality of life enjoyed by its residents.

B. Goals and Objectives

The preparation and consistent implementation of a Community Forestry Management Plan helps insure that trees within the public right-of-way not only contribute to the environmental and economic vitality of the area, but also reduces potential hazards to public safety.

The Township of Verona recognizes the value of New Jersey’s Shade Tree and Community Forestry Assistance Act in providing protection from liability to communities which have properly planned and implemented a Community Forestry Management Plan. In recent years the Township of Verona has taken initiative in reducing hazardous tree and sidewalk conditions throughout the community. The introduction of State sanctioned standards, followed by local budgetary enablement, will provide the necessary focus to minimize Verona’s future exposure in these sensitive areas and will simultaneously enrich the quality of life enjoyed by its residents.

The Township of Verona Community Forestry Management Plan will enable the Township Council, the Township Manager, the Township Engineer, and the Shade Tree Commission to set attainable goals within the present budgetary constraints in meeting present and future tree maintenance needs. This management plan will set term objectives as follows:

Tree Inventory and Assessment

A Windshield Tree Survey was conducted during the Fall of 2019. Valuable data was collected that was extremely helpful in preparing this management plan.

The Town’s first comprehensive street tree inventory was conducted by Rich View Consulting, also in 2019, with Community Stewardship Incentive Program funding of \$10,000.

GOALS	OBJECTIVES
1. To maintain a current street tree database	a. Delete all trees that have been removed annually
	b. Add all new trees annually
	c. Update maintenance needs and priorities
2. Conduct a new inventory in 2029	a. Explore funding opportunities in 2028 for new inventory
	b. Proceed with new inventory project in 2029 if funding permits

Hazard Tree Identification and Management

The Township has taken a very pro-active position in identifying and promptly removing potentially hazardous trees in public right-of-way. A written Tree Removal Policy was developed to specifically define what the Town’s reasons are for removing a tree. As a point of courtesy, notification letters are sent to the immediately adjacent property owners who are encouraged to sign up for the planting of a replacement tree.

Verona has removed approximately 50 trees per year over the past 5 years. Small tree removals are conducted in-house. Larger tree removals are contracted out.

Verona’s pro-active position in promptly removing dead, diseased and structurally weak trees has greatly reduced its potential for storm damage and necessity of emergency response. The Township of Verona is equipped to handle most tree-related problems that could come its way, and most public works employees have received cross training in chainsaw and brush chipper operation. Verona has enjoyed the cooperation of PSE&G for many years. Under emergency situations, Verona has a contract with a local tree service.

It is the policy of the Township to repair sidewalks in the areas where the roots from town trees have raised or interfered with the sidewalk. All other sidewalk repairs are the responsibility of the adjacent property owner.

The sidewalk repair program has been ongoing for over 30 years. It is an ambitious program, being both re-active and pro-active. The program is funded through Verona’s Capital Budget of \$25,000 budgeted per year, and all work is contracted out. Several complete repair circuits have been made around the Township. Some individual sidewalks have been replaced on multiple occasions.

GOALS	OBJECTIVES
1. To promptly remove dead and diseased trees	a. Conduct an annual, or bi-annual, hazard tree inspection during late summer/early fall
	b. Remove all dead or diseased trees within one (1) year of identifying
	c. Budget to contract-out large tree removals
2. To continue to monitor and address hazardous sidewalk situations	a. Maintain communications with the Engineering Department
	b. Adequately fund a sidewalk maintenance budget
	c. Maintain system as pro-active
	d. Continue implementing a ten-year cycle inspection/correction program
	e. Explore alternative grant and funding options
	f. Apply for CSIP funding to conduct a walking survey of Township sidewalks
3. Maintain active training in hazard tree identification	Send Public Works employees and Shade Tree Commission members to the Hazardous Tree Identification course offered at Rutgers University each year

Tree Planting

Tree replacement is provided through the Operational Budget. Previous Windshield Tree Surveys found that the majority of Verona’s tree population was composed of Maples (Norway, Red, Hedge, Amur, Silver and Sugar). Balancing species diversity is considered one of arboriculture’s greatest management tools. Verona will endeavor to minimize the planting of Maples in the future. In co-operation with its above ground utility companies, Verona will attempt to utilize only compact growing replacement species under wires. *(Requirements for New Tree planting, staking, guying and pruning are found in the Appendix.)*

Verona is committed to a “No Net Tree Loss” Program. Tree planting is conducted by private contractors and typically goes out to bid every two to three years, with the current contract issued in 2016. \$15,000-\$25,000 has been budgeted for this purpose. Approximately 30-40 trees are planted each year. The Windshield Tree Survey identified only 60 conspicuous tree-planting vacancies. *(See Table in Section 3.)* The optimal planting seasons are from October 15th to December 1st, and March 1st to May 15th. Tree Planting Details, taken from the N.J. Department of Transportation Standard Specifications for Road and Bridge Construction, have been included in the Appendix.

GOALS	OBJECTIVES
1. Continue “No Net Tree Loss” planting program	a. Identify potential planting sites
	b. Expand communication with residents regarding availability and benefits of street trees
	c. Maintain tree planting line item
	d. Explore alternative grant and funding options
2. Continue using appropriate species diversity in tree replacement program	a. Explore availability, positive aspects, and negative aspects of new plant material
	b. Attend a seminar applicable to selection of plant material based on soil conditions and planting the right tree in the right place
	c. Network with other municipalities on species used, successes, and disappointments
	d. Utilize root barriers in high-water-table neighborhoods
3. Expand the Arbor Day and Public Awareness programs	a. Focus on different programs and activities available
	b. Increase public awareness of Arbor Day Ceremony
	c. Maintain interest of the Board of Education in pursuing availability of professional education programs
	d. Maintain contact with new residents regarding street trees via a “Welcome to Verona” letter
4. Avoid planting species that have become problematic or exceed 10% of the tree population	

Tree Maintenance and Care

Requests for pruning services are prioritized by pruning category. The management goal of any municipal shade tree program would be to prune the entire tree population on at least a 10-year rotational cycle. Verona’s tree population is estimated at 2,220 and therefore approximately 220 trees should be pruned per year. The present tree-pruning and tree-removal budget is \$125,000, which allows for the contractual pruning of approximately 70-90 trees per year.

The 2019 Windshield Tree Survey identified the following trees in need of pruning:

- Class II Pruning – 186
- Class III Pruning – 58
- Class IV Pruning – 247

GOALS	OBJECTIVES
1. Identify locations of high maintenance trees and put them on a routine maintenance schedule plan	a. Maintain a tree pruning line item for outside contracted services
	b. Maintain a ten-year pruning cycle for high maintenance trees
	c. Prune all trees identified for pruning during the Windshield Tree Survey within one (1) year
	d. Maintain a systematic, tree elevation program with DPW
	e. Explore alternative grant and funding options
2. Stay current with service requests	a. Contract out routine street tree pruning if necessary, based on DPW workload
	b. Explore alternative contractual options
	c. Explore alternative grant and funding options
	d. Explore additional interlocal service/mutual aid agreements

Other Elements

GOALS	OBJECTIVES
1. Encourage additional training and continuing education attendance for Public Works employees and volunteers	a. Attend Core Training Program to meet the requirements of NJ Community Forestry Council
	b. Explore additional training possibilities for CEU credits
2. Strengthen existing tree protection ordinances	a. Review existing ordinances from other municipalities for relevance
	b. Network with other municipalities
	c. Revise the protection ordinances as necessary

C. Liability Statement

Although street trees are an asset to the community, it is inevitable that they mature and require care, maintenance, and eventually replacement. Care and maintenance, in addition to planting “the right tree in the right place,” can help ensure that community trees not only contribute to the environmental and economic vitality of the area, but also reduce the potential hazards to public safety. Our community must work within a reasonable budget that may not be able to meet each and every need of the community forest immediately. Therefore, it is the intent of this plan to focus available resources to the greatest need, and step by step work toward a healthy forest with commensurate reduced risks to public safety.

We feel, by taking logical steps outlined in the plan, we will garner public support for plan implementation, and demonstrate the long-term benefits to the environment and public safety.

We also want to become more pro-active in the management and care of our trees. Through inventory and hazard assessment, we will position our Shade Tree Commission to take corrective action prior to structural tree failure and other hazardous tree-related conditions. It is acknowledged that not all hazardous conditions will be predicted, but it’s much like trying to predict which tooth might break next. Good maintenance and care will reduce the probability, but unexpected events will still occur.

Following this plan will demonstrate that the Township of Verona is devoting reasonable levels of resources in a planned manner to reduce the number of tree-related accidents, and thereby reduce its exposure to liabilities and increase public safety.

Section 3 – Community Overview: 15 years of progress

The Township of Verona is located in the north central portion of Essex County and is 2.79 square miles in area. The Population of Verona Township from the 2010 Census is 13,533 people. The Township currently contains 3,622 single family lots. Parks and open space uses in the Township total 296.6 acres. According to the Verona Chamber of Commerce website, Verona was originally a part of Newark, then later a part of Caldwell Township. The Borough of Verona was incorporated in 1907.

There are approximately 35 miles of Township roads, and 5 miles of State and County highway in Verona.

In 2008, Verona was ranked #1 by NJ Monthly as the best place in Essex County to live, and #3 in the state.

Suburban municipalities surrounding Verona Township include West Orange, Essex Fells, North Caldwell, Cedar Grove and Montclair.

Most of Verona is composed of single family neighborhoods with the exception of a few multi-family complexes. Commercial development follows major state and county highways. There is very little vacant land in Verona.

Verona has a long history in shade-tree management. The Shade Tree Commission was created by ordinance on June 7, 1955.

The Town's first tree protection ordinance, Section 136, was passed on March 14, 1961 and only applied to unimproved lots.

The Township Council adopted a tree protection ordinance regulating tree removal on Town Property on October 20, 1964. The ordinance was revised on April 2, 2012 and again in 2019. *(See Appendix for Chapter 136 ordinance.)*

Several ordinances regarding sidewalk maintenance were adopted by the Council on August 20, 1963 and subsequently amended as necessary.

Chapter 44 outlines the duties of the Shade Tree Commission; Chapter 171 places regulations on tree planting, tree removal, and tree protection; and a steep slope ordinance #3-16: Chapter 150, Article XXI, Regulations of Steep Slopes was passed in 2016. *(See Appendix for attached ordinances.)*

Verona's first Shade Tree Master Plan was prepared on January 1, 1982 by John P. Stone, landscape architect. Mr. Stone's comprehensive plan analyzed Verona's tree population, reviewed the responsibilities and specific objectives of the Shade Tree Commission, and created 8 tree management zones. The parameters set by Mr. Stone have largely been carried out to this day.

Verona was first designated as a Tree City, U.S.A. in 1981.

Verona Shade Tree Commission

The following is a Yearly Summary from 2005-2019 of major tree accomplishments:

YEAR	BUDGET	PRUNED	REMOVED	PLANTED
2005	\$90,000	80	54	0
2006	\$91,200	78	50	0
2007	\$91,200	93	49	38
2008	\$96,000	90	46	30
2009	\$96,000	189	45	95
2010	\$100,000	94	77	68
2011	\$120,000	130	47	52
2012	\$125,000	294	256	138
2013	\$125,000	71	71	80
2014	\$125,000	174	65	41
2015	\$124,000	87	43	29
2016	\$115,000	103	42	48
2017	\$124,900	90	54	29
2018	\$125,000	116	44	40
2019	\$125,000	82	66	40

A previous Windshield Tree Survey identified the following streets, which contain a predominance of high maintenance trees, requiring pruning on 5-7 year rotations:

ADDRESS	TREES*
Forest Avenue	27 London Plane
Hillside Avenue	51 Pin Oak
Howard Avenue	23 London Plane
Marion Road	37 London Plane
Pease Avenue	10 London Plane
Linden Avenue	80 Pin Oak
Newman Avenue	64 Pin Oak

ADDRESS	TREES*
Cliff Street	30 Pin Oak
Beach Road	19 Pin Oak
E & W Lincoln Street	52 London Plane
Derwent Avenue	10 London Plane
Crane Terrace	6 Red Oak
Overhill Road	27 Pin Oak
Approximate TOTAL	430 trees

**Quantities are approximate.*

Verona Environmental Commission

An ongoing project of the Environmental Commission is to identify what they call “Treasured Trees of Verona.” Currently there are over 20 trees on the list representing over 16 species. An attractive plaque is affixed to each tree. A copy of the “Treasured Trees of Verona” list is included in the Appendix. It is periodically updated on the Environmental Commission’s website www.Veronaec.org.

The Environmental Resource Inventory – 2018 Update was prepared by The Land Conservancy of New Jersey, 19 Boonton Avenue, Boonton, NJ 07005. The 116-page document updates the original 1999 National Resource Inventory.

The updated survey provides detailed information on Verona’s geology, soils (and in particular erodability leading to loss of vegetative cover), topography, hydrology, wetlands, vegetation, air and pollutant quality, flood hazard and flood prone areas, location of Brown Fields, and the location of historic and cultural sites.

Other Community Accomplishments and Facts

In 2016, Verona received the Bronze Certification through the Sustainable Jersey Program, and The Green Team is actively seeking higher levels.

The 2012 Digital Orthophotography compiled by the NJDEP found the following percentages of Land Use/Land Cover Mapping:

CATEGORY	ACRES	PERCENTAGE
Urban	1,481.79	82.5%
Forest	262.53	14.62%
Barren Land	12.90	0.72%
Water	19.51	1.09%
Wetlands	19.39	1.08%
TOTAL	1,796.13	100%

198.04 acres, or 11% of land mass, in Verona is personal open space.

“Connecting People with Ecosystems in the 21st Century: An Assessment of Our Nation’s Urban Forests,” published by the U.S. Department of Agriculture in 2000, lists Verona’s tree canopy coverage as 35.3% with 40% being the ideal combined coverage according to American Forests.

American Forests has published the following ideal canopy coverage for metropolitan areas east of the Mississippi:

- Average tree cover counting all zones 40%
- Suburban residential zones 50%
- Urban residential zones 25%
- Central Business Districts 15%

The 2010 Township of Verona New Jersey Hilltop Redevelopment and Master Plan Update was prepared by Kasler Associates, PA of Springfield, NJ. It was adopted March 25, 2010. Changes reflected in this plan primarily focus on the redevelopment of a 311 acre parcel known as the Hilltop Tract, which formerly housed the Essex County Jail Annex. Of the 145 acres in Verona, 89 acres will be preserved.

Site contamination, wetlands, steep slopes, and tree cover are all appropriately addressed.

Preservation of Open Space and Municipal Recreation Goals are consistent with the objectives of Verona's Community Forestry Management Plan.

The June 12, 2009 Master Plan, also prepared by Kasler Associates, PA, lists the following goals and objectives consistent with Verona's 2014-2018 Community Forestry Management Plan:

- Appropriate use and development of all lands in this Township in a manner that will promote the public health safety and general welfare
- Promote the conservation of environmental resources and the natural appearance of the Township
- Preserve the environmental resources of the Township by locating conservation parklands and easement when necessary; by limiting development in environmentally sensitive areas; by encouraging the preservation of specimen trees and general landscaping; and by preservation of the Township's natural character
- Reduce the cutting of trees on private property through tree preservation regulations
- Support the planting and maintenance of trees along public right-of-way
- Enhance and maintain attractive gateways to the Township
- Promote the maximum practicable recovery and recycling of recyclable materials from municipal solid waste

A Master Plan Re-examination is scheduled for 2020.

The Shade Tree Commission is given the opportunity to offer comments on tree removal and replacement on all applicable Land Use Applications.

Verona has received Green Communities Grants in the past. The only Community Stewardship Incentive Program Grant Verona has received is a \$10,000.00 Grant to prepare an i-Tree Street Tree Inventory in 2019.

Emerald Ash Borer has been present in Verona since 2016, when it was discovered in neighboring Montclair.

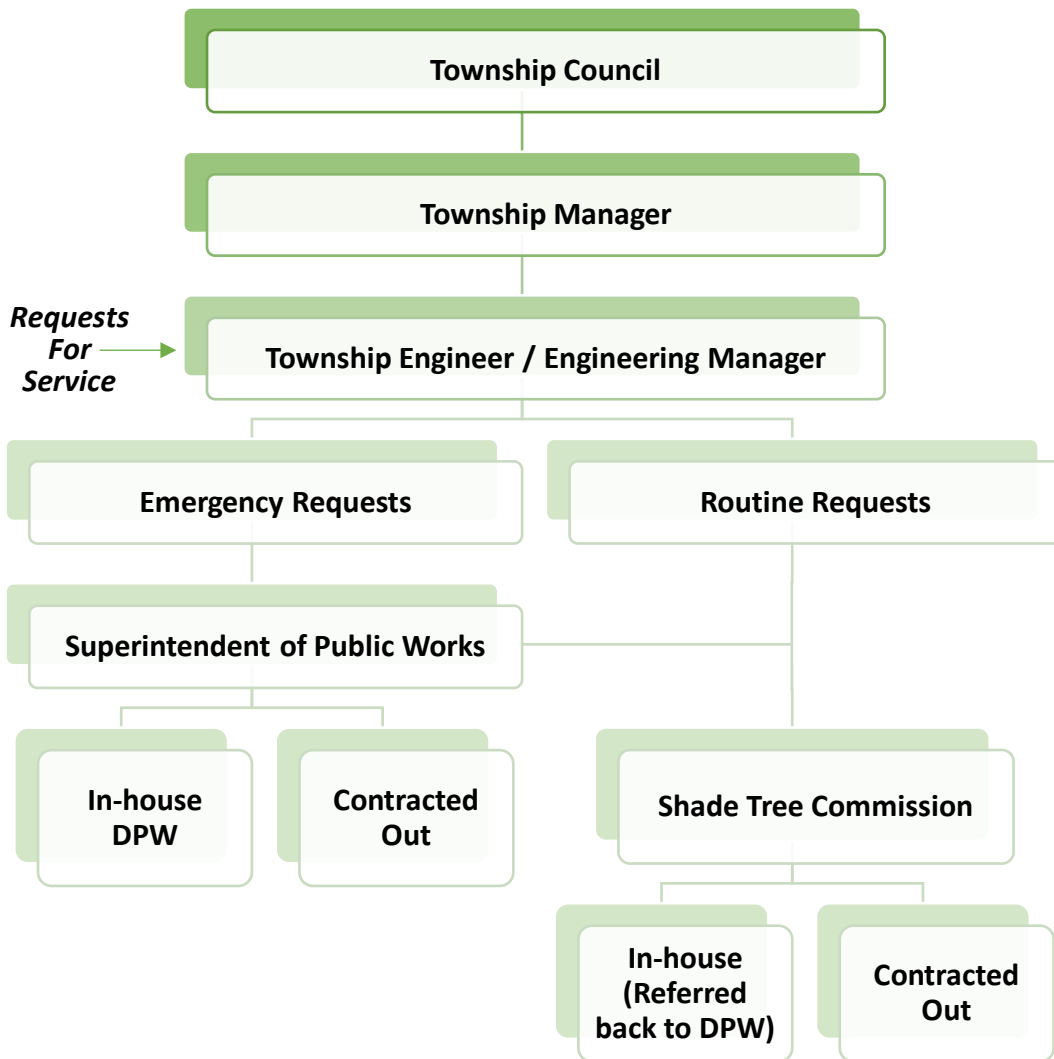
Temporary Debris Management Areas (TDMAs)

Subsequent to the significant storms sustained in New Jersey over the last decade, as part of emergency debris planning, The State of New Jersey Department of Environmental Protection Division of Solid and Hazardous Waste requires each municipality and county to have a Temporary Debris Management Area (TDMA).

A Temporary Debris Management Area (TDMA) is a site used to temporarily store debris which has been collected from the right-of-way after a debris-generating event. Use of a TDMA facilitates clearing of roads by providing an area where collected debris can be consolidated, sorted, and processed prior to transportation to a solid waste or recycling facility. TDMAs may only be operated with an approval from the Department during a declared state of emergency.

Verona does not have an approved Temporary Debris Management Area (TDMA). A goal for this management period is to apply for and get approval for a TDMA.

Section 4 – Community Forestry Administration



As you can see from the accompanying chart, all requests for these related services flow through the Township Engineer. This is an on-going system that works very well. Emergency requests that cannot be completed in-house are handled by a contractual arrangement with a private contractor.

The Public Works Department consists of 11 personnel. The superintendent has been Core-trained. Three DPW employees have been cross-trained in chainsaw safety and brush chipper operation. All in-house maintenance is conducted from the ground (no climbing).

The Shade Tree Commission formally meets monthly. An annual Tree Hazard Survey discussion is conducted in-house by commission members to help prioritize tree removal and maintenance. Contractual pruning and removal is usually deferred to the winter months.

Requests for services are plotted on Excel Spread Sheets and monitored by both the Shade Tree Commission and Department of Public Works.

Section 5 – Community Map

No significant changes since last submittal

Section 6 – Training Plan

The Township of Verona recognizes that a continuous, comprehensive training program is necessary for individuals at all levels of the Shade Tree Program to ensure effective shade tree management over the long term. Specifically, ongoing training and professional development will:

- Ensure that individuals within the Shade Tree Program have sufficient knowledge to make effective management decisions
- Ensure that all tree planting and maintenance activities are planned and completed in accordance with the latest scientific knowledge and current industry standards
- Ensure that tree inspections and evaluations follow accepted standard procedures and that the results are objective, technically correct, and consistent
- Ensure continuity in the overall level of knowledge and expertise within the Shade Tree Program as individuals leave the Program and new ones join
- Satisfy the requirements of the New Jersey Shade Tree and Community Forestry Assistance Act Training Skills and Accreditation Program

Although the Township currently meets the requirements for Core Certification, additional Shade Tree Commission Members and at least one more Department of Public Works employee should consider becoming Core Certified. Whenever possible, DPW employees are cross-trained in tree pruning, chain saw safety and tree hazard awareness.

In 2020, 2021, 2022 and 2023, the Township shall try to send at least one additional representative each year to the Core Training Program and at least one representative to the NJ Shade Tree Federation Annual Meeting for continuing education.

It is also the intention of the Township to try to send representatives, including personnel from our Department of Public Works, for training or have training conducted in-house to achieve continuing education credits in areas such as recognizing tree hazards, common insect and disease problems, and appropriate emergency response.

The training of Public Works employees is covered by the Public Works Budget, which is independent of the Shade Tree Budget.

As pro-active as the Township has been, the substantial damage and power outages from past snow, ice and wind storms have taught us that we need more training in Hazardous Tree Identification. The New Jersey Agricultural Experiment Station Office of Continuing Professional Education offers a course entitled “Hazardous Tree Identification” at Rutgers University in New Brunswick. The course is based on “A Photographic Guide to the Evaluation of Hazard Trees in Urban Environment,” published by the International Society of Arboriculture, which is the recognized standard text for tree hazard awareness. It is recommended that at least one person from Verona’s Department of Public Works and/or one person from the Shade Tree Commission attend a full-day course each year. The course is offered twice per year.

All pesticide and herbicide applications are contracted out, so no training is needed in this area at this time.

Section 7 – Public Education/Awareness/Outreach

The Township website www.veronanj.org is the primary source of Shade Tree information and is updated frequently. The website contains information on the Shade Tree Commission, tree-related ordinances, an on-line tree removal permit application, an on-line tree maintenance request form, a listing of Shade Tree Commission Members; as well as a collection of tree-related facts and benefits, tree planting specifications, and links to helpful websites.

The monthly Calendar publishes meeting dates and tree events, such as seedling distribution and Arbor Day information.

Other available media outlets include:

- The Verona-Cedar Grove Times
- Comcast of New Jersey – Channel 35
- Verizon FIOS – Channel 24
- www.verona.patch.com
- myveronanj.com
- <https://www.tapinto.net/towns/verona-slash-cedar-grove/>
- Sustainable Verona

In addition, there is some tree-related overlap with the Environmental Commission.

Arbor Day is the Shade Tree Commission's major public outreach. Formal Arbor Day celebrations are conducted annually by the Township. Programs are run in cooperation with the Township Schools. Such programs shall include a formal proclamation and ceremonial tree plantings.

Verona was first designated as a Tree City, U.S.A. in 1981. The Township currently meets all the requirements for accreditation.

Verona was recognized by Sustainable Jersey at the Bronze Level in 2016.

Verona also has a Tree Replacement Program which is announced through various media resources. The Township's internet website, www.veronanj.org, is routinely used to post announcements relating to the Shade Tree Program.

Verona's Shade Tree Program currently enjoys strong Township and citizen support. However, it recognizes that ongoing public education, awareness, and outreach programs are necessary to ensure continued success over the long term. Specifically, such programs will:

- Maintain and further increase interest and active support for the Shade Tree Program
- Encourage public assistance in implementing various programs, protecting public trees, and beautifying the Township
- Encourage the planting, protection, and care of trees on private property for the benefit of the entire community
- Educate all citizens in the importance of environmental stewardship

In order to promote relations with property owners, the Township uses form letters to simplify communications – such as a letter providing instructions for the maintenance and protection of newly planted street trees.

Verona plans on continuing implementation of all existing programs, policies and procedures in a manner that improves and maintains the Shade Tree Program’s visibility, and maximizes the number of people and groups that are reached. The Township will continue to review all existing public relations programs and materials, and update them as necessary. Educational materials and programs are also handled through the Department of Public Works.

Section 8 – Statement of Tree Budget

Referring back to the Table of Organization in Section 4 – Community Forestry Organization on page 13, all tree maintenance that can be conducted from the ground is conducted by the Department of Public Works. All tree maintenance that involves an aerial bucket truck is contracted out.

The Department of Public Works provides for chainsaws, pole saws, pruning loppers, the purchase and maintenance of its brush chipper, and other incidental tree-related expenses (such as training) in their annual Operational Budget. The following Statement of Tree Budget does not include those figures.

The Department of Public Works Municipal Salaries information is based upon the minimum number of hours per month devoted to tree maintenance. The figures were derived as follows:

- (2) men for (2) days per month for a total of 28 hours per month, *times*
- (12) months for a total of 336 hours per year, *times*
- \$42.70 per hour for a total of \$14,347 (which includes 10% benefits)

2019 Current Statement of Tree Budget

		CFMP Budget
Administration	Municipal Salaries (336 hours x \$42.70/hr.)	\$ 14,347.00
	Volunteer Contribution (150 hours x \$25.43/hr.)	\$ 3,814.50
	Other: Emergency Services	\$ 22,000.00
Subtotals		\$ 40,161.50
UCF Stewardship	Planting	\$ 16,000.00
	Pruning	\$ 40,000.00
	Removal	\$ 85,000.00
	Other: Sidewalk Replacement	\$ 40,000.00
Subtotals		\$ 181,000.00
Education and Outreach	Training and Education (Municipal + County Employee)	DPW Operational Budget
	Training and Education (Volunteer)	\$ 1,224.48
	Public Outreach and Beautification	\$ 2,000.00
	Other	\$
Subtotals		\$ 3,224.48
TOTALS		\$ 224,385.98

Section 9 – Statement of Plan Implementation

The Township of Verona has been pro-active in the area of its community forest for many years. The Shade Tree Commission has been in existence for years. The Township conducted a tree inventory and adopted a Community Forestry Management as far back as 1982, prior to the standards set forth by the State and the NJ Community Forestry Council.

Although Verona is fully developed, the Township must re-examine the condition of its community forest, make strategic management changes where necessary while, at the same time, maintain the various activities that the community has come to rely on.

A. Tree Inventory and Assessment

The Verona i-Tree Street Tree Inventory was conducted in 2019 with a CSIP Grant. It will be updated annually by adding trees planted and deleting trees that have been removed.

A new inventory should be conducted in 2029, thus a CSIP Grant Application should be pursued in 2028.

B. Hazard Tree Identification and Management

The Verona Shade Tree Commission has adopted a Tree Removal Policy – a copy is provided in the appendix. Trees identified as requiring removal are removed within one (1) year of identification. The majority of removals are conducted by outside contractors. There is currently a slight back log of trees that require removal.

The Township has had a pro-active sidewalk replacement program funded by a Public Works Capital Budget in selected years. Locations where tree roots have uplifted sidewalks by more than 1” are identified, prioritized and contracted out for replacement.

It is our belief that by being pro-active over the past two management plan cycles, the Township minimized the effect of recent storms on the community by promptly removing dead, diseased and dying trees identified by annual hazard tree inspections, by removing trees of marginal value in capital budget road reconstruction projects, and by replacing trees under overhead wires with compact species.

Verona’s Department of Public Works responded immediately in reopening Township roads during recent storms, allowing transportation within the Township to resume as quickly as possible. We credit this minimal damage to our effective Hazardous Tree Identification Program.

C. Tree Planting

Verona has a no-net-loss planting goal, meaning that our goal is to plant the same or more trees than we remove. From the 2019 Tree Inventory we learn the following:

- 1) The total street tree population is 2,220 trees
- 2) There are 57 species represented

The breakdown of Maple species is as follows:

- Red Maples 36.2%
- Other Maples 7.4%

The Maple genus represents **43.6%**
of the total tree population.



The composition of the total tree population is as follows:

- Large growth pattern 26.6%
- Medium growth pattern 44.4%
- Compact growth pattern 27.4%

98.4%

Callery Pear, as one species, represents 22.7% of the tree population.

The \$25,000.00 Annual Tree Planting Budget allows for the planting of approximately 60 trees per year.

The accepted guideline for species diversity in a municipal tree population is what is known as the 10/20/30 rule of thumb which calls for no more than 10% of the total population coming from any one species, 20% from any one genus, and 30% from any one family.

The introduction of Emerald Ash Borer (EAB) on shipping crates from China in 2002 has brought about the ultimate devastation of Ash as a species in North America. Fortunately, Verona’s total Ash population – 13 street trees – represents less than 1% of Verona’s total tree population; but this illustrates Verona’s vulnerability with the inflated number of Maples and Pears should problems emerge with these species.

By exceeding the 10/20/30 rule parameters, Verona has become vulnerable to the attack and infestation of insects and disease on Maples and Pears. Assuming that going forward Verona avoids planting any more Maples and Pears, and allowing for the life span of each species to take its toll, it will take decades of management to achieve a desirable tree population balance.

The Shade Tree Commission’s policy requires that permission be obtained from adjacent property owners prior to planting any new trees.

D. Tree Maintenance and Care

The goal of this category is to provide scheduled maintenance of every township tree over a prescribed 10 year period. Ideally, requests for street tree maintenance from the public would be at a minimum if the township were able to prune (either contractually or in-house) one tenth of the entire tree population every year. Budget constraints and scarcity of CSIP Grants prevent this from actually happening.

In an attempt to be as pro-active as possible, Verona has identified and targeted its large, over-mature, and high maintenance trees for scheduled pruning while, at the same time, making the most of “windows of opportunity” for DPW labor to elevate the branch level and remove small, dead trees – all work that can be done safely from the ground without climbing.

Conducting a bi-annual Windshield Tree Survey further helps to identify and prioritize needed tree maintenance. To this end, additional training by both Shade Tree Commission members and full time DPW employees is needed in Hazardous Tree Identification.

Moving away from problematic tree species such as Pin Oak, London Plane, Ash, Flowering Plum, Flowering Pear, etc., will reduce needed maintenance over the long term. Planting compact species under overhead utilities will also reduce tree maintenance headaches overtime. Recent storms with

accompanying power outages indelibly remind us of the ongoing conflict between trees and overhead wires. The replacement of large growing species with compact growing species can be accelerated during Township road construction projects by pro-actively removing and replacing over-mature trees.

A major contributing factor in the recent power outages actually came from privately owned trees – not from the Township trees. In the past, where required, the Township has put private tree owners on notice to remove potentially hazardous trees as we become aware of them. In the future, we may increase this noticing procedure.

To enable any tree to be deemed “hazardous” there must be both a tree defect and a potential “target.” Tree defects include crown dieback, excessive deadwood, lean, undermining, internal decay, decline due to insects, drought stress, lightning strikes, storm damage, grade changes, or construction injury. Any structure, vehicle, person or personal property within striking distance of a tree becomes a potential “target.” However, we attempt to manage these risks by regular inspection, and follow up with remedial action.

Private tree owners should have their trees inspected regularly by a New Jersey Licensed Tree Expert or International Society of Arboriculture Certified Arborist. Only full service tree companies employing NJ Licensed Tree Experts or ISA Certified Arborists should be used when preserving and maintaining trees. Other companies specializing in tree removal services are usually more cost-effective when it has been determined that a tree removal is necessary. Generally speaking, all trees require some form of maintenance at least once within a 7-10 year period. Tree removal and maintenance is usually 10% - 20% less expensive during the winter months (December through March) when tree companies are usually less busy.

The 2019 Windshield Tree Survey identified the present tree maintenance needs:

NEED	TARGETED COMPLETION DATE
40 stumps to be removed	1 year
60 tree planting locations	1 year
186 trees to be Class II Pruned	1 year
58 trees to be Class III Pruned	1 year
247 trees to be Class IV Pruned	1 year
87 trees to be removed	1 year
113 raised sidewalks	1 year
14 situations on private property to be abated	90 days

E. Other Elements – Training/Education/Tree Protection Ordinance

Verona has taken seriously the need for training and education for Township individuals involved with tree care. Presently only one of the Shade Tree Commission members and one member of the Verona Department of Public Works are Core-trained. All DPW employees attended a one and one-quarter hour seminar entitled “Chain Saw Safety,” provided by Stihl. In the future, the Commission will continue to encourage those individuals involved with street tree care to attend Core certification training, presentations during the NJ Shade Tree Federation Meeting, courses offered by Rutgers University (such

as Hazardous Tree Identification), presentations from the NJ Tree Federation, and other training/education offerings.

The Shade Tree Commission regularly reviews the effectiveness of the Tree Protection Ordinance and revises it accordingly.

F. 2020-2024 Time Line

Existing Programs to be Continued

- Continue implementing the administrative programs, policies and procedures already in effect. This system has worked effectively and efficiently over time.
- Continue implementing existing tree maintenance programs, policies and procedures on a regular basis.
- Whenever possible, expand the scope of the Annual Tree Pruning Program to include more trees and reduce the length of the pruning rotation.
- Continue implementing existing planting programs, policies and procedures where appropriate.
- Apply for all applicable CSIP Grants.
- Sidewalk maintenance policies and procedures will continue as they have in the past.
- Conduct a hazard tree survey of a portion of Verona's open space and parks, and expand survey to Board of Education properties.
- Continue to inform the public of the impending Emerald Ash Borer and Spotted Lantern Fly infestations, and formulate a policy on addressing the threat to Township trees.
- Celebrate Arbor Day.
- Stay current on required core and continuing education credits for in-house personnel and volunteers.
- Provide safety training for field personnel. Check for available training sessions with Division of Parks and Forestry.
- Provide an annual summary of accomplishments for New Jersey's Forestry Service.
- Maintain Tree City, U.S.A. status.
- Publish at least one article pertaining to shade tree maintenance, Community Forestry Management Plan, or tree-related issue affecting the community.
- Issue periodic news releases outlining accomplishments of Verona's tree program to heighten community awareness.

New Programs to be Implemented

2020

- Conduct an annual Windshield Tree Survey of Township trees. Utilize this information to prioritize tree maintenance.
- Prune all situations identified in the hazardous tree windshield survey within one (1) year of identification.
- Remove all trees designated for removal within one (1) year of identification.
- Prioritize work for completion in-house or by private contractors.
- Apply for a Tree City, U.S.A. Growth Award.
- Provide hazardous tree identification and safety training to field personnel. Check for available training sessions with Division of Parks and Forestry.
- Formulate a policy on addressing the threat to Township trees from the impending Emerald Ash Borer and Spotted Lantern Fly infestations.
- Concentrate on utilizing alternative replacement tree species other than Maple and Pear.
- Increase tree pruning activity. Request additional funding.
- Update i-Tree Street Tree Inventory. Delete trees removed and add trees planted.
- Obtain certification for a Temporary Debris Management Area (TDMA).

2021

- Update i-Tree Street Tree Inventory. Delete trees removed and add trees planted.
- Conduct an annual Windshield Tree Survey of Township trees. Utilize this information to prioritize tree maintenance.
- Prune all situations identified in the hazardous tree windshield survey within one (1) year of identification.
- Remove all trees designated for removal within one (1) year of identification.
- Provide adequate budgeting to contract out for the pruning of high maintenance trees.
- Prioritize work for completion in-house or by private contractors.
- Apply for a Tree City, U.S.A. Growth Award.
- Increase tree planting line item budget to enable the “No Net Tree Loss” Policy to be continued.
- Provide hazardous tree identification and safety training to field personnel. Check for available training sessions with Division of Parks and Forestry.

2022

- Conduct an annual Windshield Tree Survey of Township trees. Utilize this information to prioritize tree maintenance.

- Seek CSIP #8 tree maintenance funding.
- Prune all situations identified in the hazardous tree windshield survey within one (1) year of identification.
- Remove all trees designated for removal within one (1) year of identification.
- Provide adequate budgeting to contract out for the pruning of high maintenance trees.
- Maintain a systematic pruning of trees (10 year cycle) around town.
- Prioritize work for completion in-house or by private contractors.
- Apply for a Tree City, U.S.A. Growth Award.
- Continue increasing tree planting line item budget to enable the “No Net Tree Loss” Policy to be continued.
- Review present steep slope and tree preservation ordinances.
- Compare existing and proposed ordinances with ordinances of other municipalities.
- Provide hazardous tree identification and safety training to field personnel. Check for available training sessions with Division of Parks and Forestry.
- Initiate a hazard tree survey of open space and parks.
- Update i-Tree Street Tree Inventory. Delete trees removed and add trees planted.
- Continue unfulfilled goals outlined above.

2023

- Conduct an annual Windshield Tree Survey of Township trees. Utilize this information to prioritize tree maintenance.
- Prune all situations identified in the hazardous tree windshield survey within one (1) year of identification.
- Remove all trees designated for removal within one (1) year of identification.
- Provide adequate budgeting to contract out for the pruning of high maintenance trees.
- Maintain a systematic pruning of trees (10 year cycle) around town.
- Prioritize work for completion in-house or by private contractors.
- Apply for a Tree City, U.S.A. Growth Award.
- Maintain or increase tree planting line item budget to enable the “No Net Tree Loss” Policy to be continued.
- Provide hazardous tree identification and safety training to field personnel. Check for available training sessions with Division of Parks and Forestry.
- Seek CSIP #8 Tree Maintenance Funding.
- Update i-Tree Street Tree Inventory. Delete trees removed and add trees planted.
- Continue unfulfilled goals outlined above.

2024

- Conduct an annual Windshield Tree Survey of Township trees. Utilize this information to prioritize tree maintenance.
- Prune all situations identified in the hazardous tree windshield survey within one (1) year of identification.
- Remove all trees designated for removal within one (1) year of identification.
- Provide adequate budgeting to contract out for the pruning of high maintenance trees.
- Maintain a systematic pruning of trees (10 year cycle) around town.
- Prioritize work for completion in-house or by private contractors.
- Apply for a Tree City, U.S.A. Growth Award.
- Maintain or increase tree planting line item budget to enable a “No Net Tree Loss” Policy to be implemented.
- Provide hazardous tree identification and safety training to field personnel. Check for available training sessions with Division of Parks and Forestry.
- Apply for a Green Communities Grant to re-write the Community Forestry Management Plan for 2025-2029.
- Seek CSIP #8 Tree Maintenance Funding.
- Update i-Tree Street Tree Inventory. Delete trees removed and add trees planted.
- Continue unfulfilled goals outlined above.

Section 10 – Community Stewardship Incentive Program (5 Years)

CSIP #1 Training

The training of volunteers, employees or public officials is adequately provided for in the Verona's Department of Public Works Operational Budget.

For more details on training goals, you can see Section 2B on page 7, Section 6 on page 15, and Section 9E on pages 21-22.

CSIP #2 Community Forestry Ordinance Establishment

The Township of Verona adopted a comprehensive Tree Protection and Removal ordinance which was recently updated. Funding is provided in the Municipal Budget.

For more information relating to Verona's tree ordinance, you can see Section 2B on page 7, Section 3 on page 9, and Section 9E on page 22. You can also find a website version of the Section 136 Tree Ordinance in the Appendix.

CSIP #3 Public Education and Awareness

Verona has adequate resources to cover public education and awareness.

See Section 7 on pages 16-17 for more details on this subject.

CSIP #4 Arbor Day

It is unlikely that Verona would pursue a grant in this category.

For more about Verona's current Arbor Day, see Section 2B on page 6, and Section 7 on page 16.

CSIP #5 Tree Inventory

Verona's comprehensive tree inventory was conducted in 2019. CSIP Funds to conduct a new tree inventory are requested for 2028.

For tree inventory information, see Section 2B on page 4, and Section 9A on page 19.

CSIP #6 Hazard Tree Assessment

The goal of this plan is to have at least one member of Verona's Shade Tree Commission or Department of Public Works attend the Hazardous Tree Identification course offered at Rutgers University each year.

Members of the Commission as well as members of Verona's Department of Public Works would benefit from the knowledge provided in that course. Application of the knowledge gained would make Verona safer and less susceptible to storm damage. Verona has adequate resources to provide for Hazardous Tree training.

See Section 2B on page 5, and Section 9E on pages 21-22 for more about the Rutgers' training course.

CSIP #7 Storm Damage Assessment

Even during recent storms, Verona has been fortunate to have avoided the extent of tree damage sustained by surrounding municipalities. The existing Emergency and Storm response is taken care of by Verona's in-house labor, or assigned to an outside contractor on an emergency (no bid) basis. It is unlikely that Verona would pursue a CSIP Grant in this category.

CSIP #8 Tree Maintenance and Removals

Street tree maintenance continues to be the biggest challenge for Verona, especially in light of recent storms. A CSIP Grant intended to provide alternate funding to supplement the annual tree maintenance budget would be appreciated.

For more information relating to tree maintenance in Verona, see Section 2B on pages 5 and 7, Section 3 on page 10, Section 9B on page 19, and section 9D on pages 20-21.

CSIP #9 Insect and Disease Management

Integrated Pest Management education for Shade Tree Commission members and Department of Public Works employees would be funded by the DPW Operational Budget. Verona most likely would not apply for a grant in this category.

CSIP #10 Wildfire Protection

Sources of wildfire in Verona would be along Pompton Avenue (Route 23) or Essex County Parkland. Verona has an excellent fire department. Therefore, Verona most likely would not look for funding in this category.

CSIP #11 Tree Planting

A CSIP Grant would be welcome to assist in planting on Verona's public properties and right-of-way.

For more information about planting trees in Verona, see Section 2B on page 6, and Section 9C on pages 19-20.

CSIP #12 Tree Recycling

The Verona Department of Public Works recycles wood waste from its in-house pruning and removal programs. Vendors are encouraged to do the same in the contracted pruning and removals. It is unlikely that Verona would seek CSIP assistance in this area.

CSIP #13 Sidewalk Maintenance Program

Verona currently has an annual budget to replace sidewalks uplifted by Township trees.

Sidewalk maintenance is mentioned in Section 2B on page 5, and Section 9B on page 19.

CSIP #14 Storm Water Management

CSIP funding could be used by Verona's Department of Public Works to improve the Township's leaf collection and catch basin cleaning equipment, and waterway de-snagging. This would be a possible use of CSIP funding.

CSIP #15 Other

CSIP funding could be utilized to hire a grants person to explore regionalization of services or alternate maintenance funding sources.

APPENDIX

- ❖ 2019 Windshield Tree Survey
- ❖ Section 136 – Tree Preservation Ordinance
- ❖ Chapter 44 – Shade Tree Commission
- ❖ Chapter 171 – Shade Trees and Shrubs
- ❖ Chapter 150, Article XXI –Ordinance to Regulate Steep Slopes
- ❖ Tree Policies:
 - Tree Removal
 - Tree Maintenance
 - Tree Planting
 - Nuisance Tree
 - Sewer Lateral/Tree Root
 - Sidewalk
 - Maintenance of Curbs and Sidewalks
- ❖ Treasured Trees of Verona
- ❖ Tree Removal Permit Notice and Application
- ❖ Tree Maintenance Request Form
- ❖ Shade Tree Commission Information
- ❖ Environmental Commission Information
- ❖ I-Tree Street Tree Inventory:
 - Complete Population of All Trees
 - Species Distribution of All Trees
 - Relative Performance Index for All Trees
 - Sidewalk Heave Conflicts by Species for All Trees
 - Structural (Woody) Condition of All Trees by Species
- ❖ Recommended Tree Species to Plant
- ❖ Tree Planting Details
 - Quality Requirements for New Trees
 - Deciduous Tree Planting
 - Coniferous Tree Planting
 - Additional Tree Planting
 - Guying and Pruning
- ❖ International Society of Arboriculture (ISA) Individual Tree Risk Assessment Flow Chart
- ❖ International Society of Arboriculture (ISA) Guidelines for Systematic Assessment



Windshield Tree Survey

October 2019

Township of Verona

Conducted by

John Linson

New Jersey Licensed Tree Expert #198

973-766-2143

theshadetreedepartment@live.com

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Tree Removals

Address	Diameter/Species	Comments
89 Sunset Avenue	24" Elm	Stick PSE&G span guy pole 60098
Afterglow Avenue Opposite 40 Sunset Avenue position 1	15" Red Maple	PSE&G Consider removing
Afterglow Avenue Opposite 40 Sunset Avenue position 2	20" Ash	Remove (declining)
36 Sunset Avenue	36" Ash	Covered with Ivy Beginning to decline Remove
360 Bloomfield Avenue on Sunset Road opposite #24	10" Norway Maple	Recommend PSE&G Remove
79 Afterglow Avenue opposite Gordon Place	12" Ash	Remove
Gordon Place on Afterglow Avenue	14" Ash	Remove
11 Robert Court	10" Norway Maple	Remove
9 Robert Court	11" Norway Maple	Remove
Kips Castle on Crestmont Road	19" Linden	Remove
Top of Nassau Road	17" Linden	Remove
24 N Nassau Road	8" Pear	Remove Dead
12 Vincent Place	15" Norway Maple	Remove
4 Vincent Place	17" Pear	Remove
Claremont Avenue at Beacon Hill by hydrant	2" Maple	Dead Remove
63 Fairway Avenue position 1	8" Red Maple	Remove
48 Gerdes Avenue position 2	5" Ash	Remove
78 Gerdes Avenue	4" AND 3" Plum	Remove
32 Hillside Avenue	14" Norway Maple	Remove
119 Morningside Road	16" Sugar Maple	Remove
Opposite 120 Sunset Avenue	(2) 36" Silver Maple	Remove By pole 61019
Opposite 124 Sunset Avenue	36" Silver Maple	Remove Pole 61018
Robert David Jewelers on Bloomfield Avenue	20" Ash	Deadwood Consider removing

42 Forest Avenue	17" Crimson King Norway Maple	Remove
37 South Prospect Street	40" Red Maple	Remove
56-58 South Prospect Street	25" Norway Maple	Remove
101 Forest Avenue on Marion Road	2" Red Maple	Remove
45 Marion Road position 1	32" London Plane	Remove
33 Oakridge Road on Chestnut Road	6" Pear	Remove
Gray stone house mid-block on Peters Lane (west side)	22" Norway Maple	Remove
Corner of South Prospect Street and Harrison Street	19" Norway Maple	Remove
33 Chestnut Street on corner of Harrison Street	16" Ash	Remove
260 Grove Avenue on Hemlock Drive	15" Norway Maple	Remove
167 Franklin Street position 1	12" Ash	Remove
167 Franklin Street position 2	19" Norway Maple	Remove
52 Lynwood Road	12" Compact Maple	Remove
166 Grove Avenue on Dodd Terrace	17" Pear	Split crotch Remove
88 Personette Avenue	36" Ash	Declining C3P and inject for EAB or remove
Parkhurst cul-de-sac	(2) Clump Black Locusts	Leaning into street Remove
Corner of Depot Street and Personette Avenue	18" Pear	Remove
Liberty Field upper parking lot	Ash trees	Dead in woods Remove
95 Franklin Avenue	14" Compact Maple	Remove
Terry's Municipal Parking Lot behind Park Avenue	17" Elm	Remove ***
Terry's Municipal Parking Lot behind Park Avenue	19" Ash	Remove ***
Terry's Municipal Parking Lot behind Park Avenue	20" Ash	Remove ***
Gould Street at School	(2) 10" Pears	Remove
15 Crane Terrace	24" Red Oak	Dead Remove
67 Woodland Avenue	33" Pin Oak	Remove
23 Woodland Avenue	5" Compact Maple	Remove

64 Linden Avenue	18" Pin Oak	Remove
116 Linden Avenue	13" Honey Locust	Remove (PSE&G)
96 Claremont Avenue	24" Sugar Maple	On the line? Remove
Westview Road at Ballfield	22" Ash	Remove
Westview Road at Ballfield	20" Norway Maple	Remove
16-18 Elmwood Road position 1	30" Red Maple	Remove
17 Hillcrest Terrace position 1	17" Red Maple	Remove
17 Hillcrest Terrace position 2	24" Red Maple	Remove
19 Hillcrest Terrace	18" Linden	Remove
25 Church Street	24" Norway Maple	Remove
56 Cumberland Avenue	7" Compact Maple	Remove
76 Newman Avenue	22" Pin Oak	Remove
74 Newman Avenue	24" Pin Oak	Remove
72 Newman Avenue	19" Pin Oak	Remove
71 Newman Avenue	26" Pin Oak	Remove
70 Newman Avenue	22" Pin Oak	Remove
68 Newman Avenue	20" Pin Oak	Remove
69 Newman Avenue	30" Pin Oak	Remove
66 Newman Avenue	33" Pin Oak (Stick)	Remove Verizon span guy to pole 60956
57 Newman Avenue	25" Pin Oak	Remove
27 Newman on Wilton Terrace position 3	6" Pear	Remove
19 Newman Avenue (Grey House)	24" Pin Oak	Remove
11 Newman Avenue	26" Pin Oak	Remove
6 Beach Road	36" Pin Oak	Remove
8 Overhill Road	19" Pin Oak	Remove
17? (Brick wall) Cliff Street position 1	18" Pin Oak	Remove
24 Cliff Street	30" Pin Oak	Remove
115 Elmwood Road	32" Pin Oak	Remove
85 Elmwood Road position 1	33" Ash	Remove
85 Elmwood Road position 2	36" Ash	Remove
76 Elmwood Road	16" Norway Maple	Remove
11 Dodd Terrace	(3) Norway Maples	Not looking good. Remove

*** Priority

Tree Pruning C2P

Address	Diameter/Species	Comments
54 Sunset Avenue position 1	7" Pear	C2P
54 Sunset Avenue position 2	7" Pear	C2P
50 Sunset Avenue	8" Pear	C2P
6 Robert Court	4" Plum	Black knot Remove
16 North Nassau Road	17" Pear	C2P Reshape
Hillside Avenue (from Forest Avenue to dead end)	(33) Pin Oaks	C2P
100 Morningside Road	7" Pear	C2P
103 Pease Avenue	14" x 15" Cherry	C2P
48 Montrose Avenue	18" Pear	C2P
100 Hillwood Terrace	(17) Flowering Pear	C2P
132 Franklin Street	16" Pear	Cut back over extended branches C2P
124 Franklin Street	14" Pear	Cut back over extended branches C2P
87 Lynwood Road	16" Pear	C2P
91 Lynwood Road	12" Pear	C2P
89 Lynwood Road	12" Pear	C2P
93 Lynwood Road	10" Pear	C2P
101 Lynwood Road	3" Red Maple	C2P
37 Kenwood Avenue	17" Pear	C2P
35 Kenwood Avenue	17" Pear	C2P
250 Linden Avenue	18" Linden	C2P
257 Linden Avenue position 1	20" Red Maple	C2P
257 Linden Avenue position 2	34" Red Maple	C2P Reduce crown
82 Personette Avenue	16" Linden	C2P
First Presbyterian Church on Pine Street position 1	17" Pear	C2P
First Presbyterian Church on Pine Street position 2	9" Pear	C2P
First Presbyterian Church on Pine Street position 3	9" Pear	C2P
First Presbyterian Church on Pine Street position 4	9" Pear	C2P

56 Pine Street on Parkhurst position 1	12" Pear	C2P
Parkhurst Place	(9) Flowering Pear 10"-14" diameter	C2P
? Grove Avenue on Linden Avenue position 1	14" Pear	C2P
? Grove Avenue on Linden Avenue position 2	14" Pear	C2P
223 Linden Avenue	6" x 6" Pear	C2P
216 Linden Avenue	10" Pear	C2P
22 Brookside Terrace	(2) 10" Pear	C2P
16 Brookside Terrace	(2) 10" Pear	C2P
14 Brookside Terrace	(2) 10" Pear	C2P
6 Brookside Terrace	(2) 12" Pear	C2P
48 Gould Street	18" Linden	C2P
49 Gould Street on Est Reid Place	12" Pear	C2P
85 Woodland Avenue	17" Pear	C2P Cut back over extended branches
66 Woodland Avenue	17" Pear	C2P
55 Woodland Avenue	17" Pear	C2P
45 Linden Avenue position 1	26" Pin Oak	C2P
45 Linden Avenue position 2	26" Pin Oak	C2P
46 Linden Avenue position 1	22" Pin Oak	C2P
46 Linden Avenue position 2	22" Pin Oak	C2P
47 Linden Avenue	20" Pin Oak	C2P
53 Linden Avenue	23" Pin Oak	C2P
56 Linden Avenue	26" Pin Oak	C2P
55 Linden Avenue	32" Pin Oak	C2P
58 Linden Avenue	26" Pin Oak	C2P
59 Linden Avenue	33" Pin Oak	C2P
60 Linden Avenue	33" Pin Oak	C2P
61 Linden Avenue	24" Pin Oak	C2P
63 Linden Avenue	28" Pin Oak	C2P
65 Linden Avenue	17" Pin Oak	C2P
75 Linden Avenue position 1	21" Pin Oak	C2P
75 Linden Avenue position 2	16" Pin Oak	C2P

Corner of Otsego Road on Linden Avenue position 1	23" Pin Oak	C2P
Corner of Otsego Road on Linden Avenue position 2	26" Pin Oak	C2P
83 Linden Avenue position 1	25" Pin Oak	C2P
83 Linden Avenue position 2	20" Pin Oak	C2P
84 Linden Avenue	18" Pin Oak	C2P
86 Linden Avenue	20" Pin Oak	C2P
117 Linden Avenue	22" Honey Locust	C2P
105 Cumberland Avenue on Linden Avenue	22" Pin Oak	C2P
37 Malvern Place position 2	22" Pear	C2P Cut back from house
26 Hillcrest Terrace	8" Pear	C2P
79 Cumberland Avenue on Newman Avenue position 1	30" Pin Oak	C2P
79 Cumberland Avenue on Newman Avenue position 2	21" Pin Oak	C2P
79 Cumberland Avenue on Newman Avenue position 3	32" Pin Oak	C2P
75 Cumberland Avenue position 1	18" Pin Oak	C2P
75 Cumberland Avenue position 2	24" Pin Oak	C2P
75 Cumberland Avenue position 3	24" Pin Oak	C2P
75 Cumberland Avenue position 4	32" Pin Oak	C2P
75 Cumberland Avenue position 5	19" Pin Oak	C2P
79 Newman Avenue	21" Pin Oak	C2P
78 Newman Avenue	22" Pin Oak	C2P
67 Newman Avenue	23" Pin Oak	C2P
64 Newman Avenue	20" Pin Oak	C2P
65 Newman Avenue	30" Pin Oak	C2P
59 Newman Avenue	24" Pin Oak	C2P
48 Newman Avenue	32" Pin Oak	C2P
41 Newman Avenue	32" Pin Oak	C2P
31 Newman Avenue position 1	36" Pin Oak	C2P

31 Newman Avenue position 2	20" Pin Oak	C2P
29 Newman Avenue	32" Pin Oak	C2P
27 Newman Avenue	30" Pin Oak	C2P
22 Newman Avenue	22" Pin Oak	C2P
20 Wilton Terrace	12" Pear	C2P
7 Newman Avenue position 1	25" Pin Oak	C2P
7 Newman Avenue position 2	30" Pin Oak	C2P
4 Newman Avenue	28" Pin Oak	C2P
91 Elmwood Road on Beach Road	33" Pin Oak	C2P
26 Beach Road position 1	30" Pin Oak	C2P
26 Beach Road position 2	28" Pin Oak	C2P
15 Beach Road position 1	32" Pin Oak	C2P
15 Beach Road position 2	24" Pin Oak	C2P
11 Beach Road	25" Pin Oak	C2P
1 Cliff Street on Beach Road position 2	24" Pin Oak	C2P
1 Cliff Street on Beach Road position 1	38" Pin Oak	C2P
5 Beach Road	36" Pin Oak	C2P
36 Martin Road on Beach Road	30" Pin Oak	C2P
10 Otsego Road	12" Pear	C2P
28 Otsego Road	7" Compact Maple	C2P
42 Otsego Road	12" Pear	C2P
44 Otsego Road	(2) 14" Pear	C2P
48 Otsego Road	9" Pear	C2P
53 Otsego Road	28" Pin Oak	C2P
73 Otsego Road position 1	24" Pin Oak	C2P
73 Otsego Road position 2	30" Pin Oak	C2P
75 Otsego Road position 1	32" Pin Oak	C2P
75 Otsego Road position 2	28" Pin Oak	C2P
83 Linden Avenue on Otsego Road position 1	24" Pin Oak	C2P

83 Linden Avenue on Otsego Road position 2	24" Pin Oak	C2P
75 Linden Avenue on Otsego Road	30" Pin Oak	C2P
60 Otsego Road on Brentwood Drive position 1	25" Pin Oak	C2P
60 Otsego Road on Brentwood Drive position 2	32" Pin Oak	C2P
14 Martin Road on Overhill Road position 2	32" Pin Oak	C2P
14 Martin Road on Overhill Road position 1	28" Pin Oak	C2P
3 Overhill Road	30" Pin Oak	C2P
9 Overhill Road	25" Pin Oak	C2P
11 Overhill Road position 2	19" Pin Oak	C2P
11 Overhill Road position 1	32" Pin Oak	C2P
Highland Terrace	8" Pear	C2P Planting too close to driveways
36 Linden Avenue position 2	21" Pin Oak	C2P
7 Dodd Terrace	11" Pear	C2P

Tree Pruning C3P

Address	Diameter/Species	Comments
47 Afterglow Way	48" Red Oak	C3P
125 Forest Avenue	20" Zelkova	C3P
31 West Lincoln Street position 2	30" London Plane	C3P
30 Pease Avenue position 1	18" Red Maple	C3P
14 Mountain Road	22" White Oak	C3P *** ASAP
8 Valley View	20" Red Maple	C3P
10 Lynwood Road	30" Pin Oak	C3P
249 Linden Avenue	22" Norway Maple	C3P
88 Personette Avenue	36" Ash	Declining C3P and inject for EAB
56 Pine Street on Parkhurst position 2	30" Norway Maple	C3P
90 Fairview Avenue on Arnold Way	38" Scarlet Oak	C3P
24 Ann Street	20" Honey Locust	C3P
41 Willow Terrace	18" Honey Locust	C3P
86 Derwent Avenue	30" London Plane	C3P
19 Linden Avenue	21" Pin Oak	C3P
36 Linden Avenue position 1	32" Pin Oak	C3P
41 Linden Avenue position 1	23" Pin Oak	C3P
41 Linden Avenue position 2	23" Pin Oak	C3P
43 Linden Avenue	28" Pin Oak	C3P
44 Linden Avenue position 1	24" Pin Oak	C3P
44 Linden Avenue position 2	24" Pin Oak	C3P
95 Linden Avenue	17" Honey Locust	C3P
Westview Road at Ballfield	17" Striped Maple	C3P
21 Newman Avenue	26" Pin Oak	C3P
20 Newman Avenue	30" Pin Oak	C3P
6 Newman Avenue	25" Pin Oak	C3P Not looking good
5 Newman Avenue	23" Pin Oak	C3P Not looking good
139 Linden Avenue on Wildwood Terrace	15" Sweetgum	C3P

Elmwood Road on Overhill Road position 1	22" Pin Oak	C3P
Elmwood Road on Overhill Road position 2	28" Pin Oak	C3P
12 Cliff Street	30" Pin Oak	C3P
14 Cliff Street	33" Pin Oak	C3P
17? (brick wall) Cliff Street position 2	22" Pin Oak	C3P
17? (brick wall) Cliff Street position 3	26" Pin Oak	C3P
17? (brick wall) Cliff Street position 4	26" Pin Oak	C3P
22 Cliff Street position 1	32" Pin Oak	C3P
22 Cliff Street position 2	26" Pin Oak	C3P
22 Cliff Street position 3	25" Pin Oak	C3P
21 Cliff Street position 1	21" Pin Oak	C3P
21 Cliff Street position 2	24" Pin Oak	C3P
21 Cliff Street position 3	25" Pin Oak	C3P
21 Cliff Street position 4	25" Pin Oak	C3P
25 Cliff Street	25" Pin Oak	C3P
26 Cliff Street	28" Pin Oak	C3P
30 Cliff Street	32" Pin Oak	C3P
29 Cliff Street	18" Pin Oak	C3P
32 Cliff Street	27" Pin Oak	C3P
31 Cliff Street	32" Pin Oak	C3P
33 Cliff Street	32" Pin Oak	C3P
19 Linden Avenue on Cliff Street position 1	21" Pin Oak	C3P
19 Linden Avenue on Cliff Street position 2	30" Pin Oak	C3P
19 Linden Avenue on Cliff Street position 3	25" Pin Oak	C3P
19 Linden Avenue on Cliff Street position 4	25" Pin Oak	C3P

34 Linden Avenue on Elmwood Road	32" Pin Oak	C3P Dead branch over road
112 Elmwood Road	21" Pin Oak	C3P
111 Elmwood Road	21" Pin Oak	C3P
94 Elmwood Road	33" Pin Oak	C3P
82 Elmwood Road position 2	25" Pin Oak	C3P

*** Priority

Tree Pruning C4P

Address	Diameter/Species	Comments
4 Summit Road	6" Comact Maple	C4P
1 Summit Road	7" Pear	C4P
76 Sunset Avenue position 1	4" Compact maple	C4P
70 Sunset Avenue	6" Red Maple	C4P
68 Sunset Avenue	6" Red Maple	C4P
48 Sunset Avenue	4" Swamp White Oak	C4P
24 Sunset Avenue	10" Red Maple	C4P
51 Afterglow Avenue	5" Red Maple	C4P
55 Afterglow Avenue	7" Red Maple	C4P
5 Ravine Road	17" Red Maple	C4P
9 Ravine Road position 2	8" Red Maple	C4P
20 North Nassau road	24" Pear	C4P
60 Fairway Avenue position 1	6" Maple	C4P
60 Fairway Avenue position 2	7" Red Maple	C4P
58 Fairway Avenue position 1	6" Maple	C4P
58 Fairway Avenue position 2	6" Maple	C4P
61 Fairway Avenue position 1	6" Maple	C4P
61 Fairway Avenue position 2	6" Maple	C4P
66 Fairway Avenue	6" Red Maple	C4P
72 Fairway Avenue	6" Red Maple	C4P
75 Fairway Avenue	6" Red Maple	C4P under wires
79 Fairway Avenue	6" Red Maple	C4P under wires
112 Fairway Avenue	6" Red Maple	C4P
104 Fairway Avenue position 2	18" Linden	C4P
104 Fairway Avenue position 1	17" Norway Maple	C4P
40 Howell Drive	6" Red Maple	C4P
61 Gerdes Avenue position 2	19" Linden	C4P
63 Gerdes Avenue	8" Red Maple	C4P
64 Gerdes Avenue	18" Linden	C4P
65 Gerdes Avenue	6" Red Maple	C4P
67 Gerdes Avenue	6" Red Maple	C4P

69 Gerdes Avenue	6" Red Maple	C4P
70 Gerdes Avenue	6" Red Maple	C4P
122 Morningside Road	5" Red Maple	C4P
104 Morningside Road	6" Red Maple	C4P
102 Morningside Road	6" Red Maple	C4P
92 Morningside Road	6" Red Maple	C4P
71 Morningside Road	4" Red Maple	C4P
68 Morningside Road	5" Red Maple	C4P
67 Morningside Road	5" Red Maple	C4P
63 Morningside Road	5" Red Maple	C4P
58 Morningside Road	5" Red Maple	C4P
51 Morningside Road	5" Red Maple	C4P
22 Morningside Road	4" Red Maple	C4P
26 Morningside Road	4" Red Maple	C4P
9 Morningside Road	5" Red Maple	C4P
8 Morningside Road	5" Red Maple	C4P
10 Morningside Road	5" Red Maple	C4P
22 Douglas Place	6" Pear	C4P
44 Park Avenue	8" Red Maple	C4P
42 Park Avenue	8" Red Maple	C4P
15 Wayland Drive	8" Red Maple	C4P
14 Wayland Drive	7" Red Maple	C4P
21 Wayland Drive	(2) 4" Red Maple	C4P
23 Wayland Drive	5" Red Maple	C4P
25 Wayland Drive	4" Red Maple	C4P
27 Wayland Drive	(2) 4" Red Maple	C4P
31 Wayland Drive	6" Red Maple	C4P
39 Wayland Drive	6" Red Maple	C4P
41 Wayland Drive	6" Red Maple	C4P
9 Sylvan Road	8" Red Maple	C4P
27 Sutton Place on Sutton Place	4" Red Maple	C4P
4 Sylvan Place	4" Red Maple	C4P
30 Sutton Place	7" Red Maple	C4P
27 Sutton Place	4" Red Maple	C4P
25 Sutton Place	6" Red Maple	C4P
21 Sutton Place	7" Red Maple	C4P
15 Sutton Place	5" Red Maple	C4P
25 Sutton Place	10" Red Maple	C4P
152 Forest Avenue	5" Red Maple	C4P
132 Forest Avenue	5" Red Maple	C4P
68 Forest Avenue	10" Red Maple	C4P
67 Forest Avenue	5" Red Maple	C4P
30 Forest Avenue	(2) 4" Red Maple	C4P
26 Forest Avenue	5" Red Maple	C4P
23 West Lincoln Street	4" Red Maple	C4P

28 West Lincoln Street	4" Red Maple	C4P
99 West Lincoln Street	4" Red Maple	C4P
113 West Lincoln Street	5" Red Maple	C4P
119 West Lincoln Street	4" Red Maple	C4P
20 West Lincoln Street	5" Red Maple	C4P
17 West Lincoln Street	5" Red Maple	C4P
15 West Lincoln Street	5" Red Maple	C4P
11 West Lincoln Street	5" Red Maple	C4P
116 South Prospect Street on Maple Terrace	5" Red Maple	C4P
4 Marion Road	6" Red Maple	C4P
2 Pease Avenue	3" Red Maple	C4P
9 Morningside Road	6" Red Maple	C4P
10 Morningside Road	6" Red Maple	C4P
49 Morningside Road	6" Red Maple	C4P
51 Morningside Road	6" Red Maple	C4P
57 Morningside Road	7" Red Maple	C4P
63 Morningside Road	7" Red Maple	C4P
67 Morningside Road	5" Red Maple	C4P
87 Morningside Road	5" Red Maple	C4P
90 Morningside Road	6" Red Maple	C4P
92 Morningside Road	6" Red Maple	C4P
103 Morningside Road	10" Red Maple	C4P
102 Morningside Road	5" Red Maple	C4P
104 Morningside Road	5" Red Maple	C4P
141 Morningside Road position 1	4" Pear	C4P
141 Morningside Road position 2	4" Pear	C4P
7 Oakridge Road	6" Red Maple	C4P
16 Upland Road	6" Red Maple	C4P Clear wires
22 Upland Road	6" Red Maple	C4P
15 Beechwood Road	3" Red Maple	C4P
60 Chestnut Road	8" Red Maple	C4P
4 Balston Drive	6" Red Maple	C4P
4 Whitney Terrace position 1	5" Red Maple	C4P
4 Whitney Terrace position 2	5" Red Maple	C4P
2 Whitney Terrace position 1	5" Red Maple	C4P
2 Whitney Terrace position 2	7" Red Maple	C4P
2 Windemere Road	4" Red Maple	C4P
57 Montrose Avenue	9" Pear	C4P

53 Montrose Avenue	9" Pear	C4P
50 Montrose Avenue	14" Pear	C4P
51 Montrose Avenue	8" Pear	C4P
46 Montrose Avenue	8" Pear	C4P
41 Montrose Avenue	8" Pear	C4P
35 Montrose Avenue	8" Pear	C4P
31 Montrose Avenue	9" Pear	C4P
11 Hill Street	8" Red Maple	C4P
16 Meadow Lane	12" Red Maple	C4P
98 Harrison Street	5" Red Maple	C4P
100 Harrison Street	7" Red Maple	C4P
17 Hemlock Drive	18" Linden	C4P
8 Hemlock Drive	7" Red Maple	C4P
10 Hemlock Drive	7" Red Maple	C4P
15 Hemlock Drive	7" Red Maple	C4P
5 Hemlock Drive position 1	6" Red Maple	C4P
5 Hemlock Drive position 2	6" Red Maple	C4P
14 Laurel Court position 1	6" Red Maple	C4P
14 Laurel Court position 2	5" Red Maple	C4P
16 Laurel Court position 1	7" Red Maple	C4P
16 Laurel Court position 2	7" Red Maple	C4P
26 Laurel Court	7" Red Maple	C4P
17 Durrell Street	5" Red Maple	C4P
75 Durrell Street position 1	9" Compact Maple	C4P (Ruby Slippers)
75 Durrell Street position 2	9" Red Maple	C4P
12 Valley View	20" Red Maple	C4P
20 Valley View	6" Red Maple	C4P
8 Crest Hill Road	10" Compact Maple	C4P
16 Crest Hill Road	5" Compact Maple	C4P
21 Crest Hill Road position 1	5" Red Maple	C4P
21 Crest Hill Road position 2	3" Red Maple	C4P
19 Crest Hill Road	6" Red Maple	C4P
17 Crest Hill Road	7" Red Maple	C4P
160 Franklin Street	5" Red Maple	C4P
146 Franklin Street	8" Compact Maple	C4P
1 Lynwood Road	3" Silver Maple	C4P

6 Lynwood Road position 1	8" Red Maple	C4P
6 Lynwood Road position 2	4" Red Maple	C4P
30 Lynwood Road	3" Red Maple	C4P
43 Lynwood Road	3" Silver Maple	C4P
45 Lynwood Road	3" Silver Maple	C4P
69 Lynwood Road	10" Hedge Maple	C4P
78 Lynwood Road	6" Red Maple	C4P
86 Lynwood Road	5" Red Maple	C4P
96 Lynwood Road	6" Red Maple	C4P
1 Dodd Terrace	4" Red Maple	C4P
4 Dodd Terrace	7" Red Maple	C4P
6 Dodd Terrace	5" Compact Maple	C4P
14 Dodd Terrace	5" Red Maple	C4P
22 Dodd Terrace	5" Compact Maple	C4P
24 Dodd Terrace	9" Pear	C4P Clear stop sign
17 Kenwood Avenue	3" Red Maple	C4P
255 Linden Avenue	2" Red Maple	C4P
265 Linden Avenue	4" Red Maple	C4P
273 Linden Avenue	10" Red Maple	C4P
89 Personette Avenue	3" Red Maple	C4P
86 Personette Avenue	9" Red Maple	C4P
78 Personette Avenue	4" Red Maple	C4P
25 Rockland Terrace	6" Red Maple	C4P
3 Orchard Street	5" Red Maple	C4P
8 Orchard Street	7" Red Maple	C4P
9 Orchard Street	3" Red Maple	C4P
14 Sunney Side Place	4" Compact Maple	C4P
10 Sunney Side Place position 1	5" Compact Maple	C4P
10 Sunney Side Place position 2	9" Pear	C4P
28 Ann Street	6" Red Maple	C4P
21 Ann Street	6" Compact Maple	C4P
13 Willow Terrace	6" Red Maple	C4P
11 Willow Terrace	6" Red Maple	C4P
6 Midwood Avenue	6" Red Maple	C4P
12 Midwood Avenue	5" Red Maple	C4P
195 Linden Avenue	3" Red Maple	C4P
61 Brookside Terrace	3" Red Maple	C4P
28 Brookside Terrace	7" Compact Maple	C4P
54 Derwent Avenue	6" Compact Maple	C4P
52 Derwent Avenue	6" Compact Maple	C4P
37 Derwent Avenue	7" Red Maple	C4P

35 Derwent Avenue	7" Red Maple	C4P
36 Derwent Avenue	6" Red Maple	C4P
34 Derwent Avenue	6" Red Maple	C4P
25 Derwent Avenue	6" Red Maple	C4P
21 Derwent Avenue	6" Red Maple	C4P
7 Oak Lane	6" Red Maple	C4P
9 Oak Lane	7" Compact Maple	C4P
25 Oak Lane	7" Compact Maple	C4P
36 Oak Lane	6" Red Maple	C4P
37 Oak Lane	6" Red Maple	C4P
45 Oak Lane	18" Pear	C4P
Gould Street at Episcopal Church	10" Red Maple	C4P
182 Woodland Avenue	5" Red Maple	C4P
176 Woodland Avenue	6" Red Maple	C4P
150 Woodland Avenue	7" Red Maple	C4P
104 Woodland Avenue	6" Red Maple	C4P
101 Woodland Avenue	9" Red Maple	C4P
84 Woodland Avenue	28" Pin Oak	C4P
83 Woodland Avenue	6" Red Maple	C4P
80 Woodland Avenue	4" Red Maple	C4P
62 Woodland Avenue	9" Red Maple	C4P
58 Woodland Avenue	8" Red Maple	C4P
22 Woodland Avenue	7" Red Maple	C4P
17 Woodland Avenue	5" Compact Maple	C4P
15 Woodland Avenue	4" Red Maple	C4P
14 Woodland Avenue	4" Red Maple	C4P
7 Linden Avenue	26" Pin Oak	C4P
16 Linden Avenue	5" Red Maple	C4P
98 Linden Avenue	5" Red Maple	C4P
104 Linden Avenue	3" Red Maple	C4P
109 Linden Avenue	8" Red Maple	C4P
123 Linden Avenue position 1	5" Red Maple	C4P
123 Linden Avenue position 2	5" Red Maple	C4P
125 Linden Avenue position 1	4" Red Maple	C4P
125 Linden Avenue position 2	5" Red Maple	C4P
146 Linden Avenue	5" Red Maple	C4P
148 Linden Avenue	5" Red Maple	C4P
87 Cumberland Avenue	8" Red Maple	C4P
52 Cumberland Avenue	7" Red Maple	C4P
23 Montclair Avenue	5" Red Maple	C4P
37 Malvern Place position 1	5" Red Maple	C4P

20 Hillcrest Terrace	7" Red Maple	C4P
23 Hillcrest Terrace	7" x 4" Red Maple	C4P
27 Hillcrest Terrace	6" x 7" Red Maple	C4P
Claremont Avenue on Hillcrest Terrace	7" Red Maple	C4P
9 Wilton Terrace	9" Compact Maple	C4P
92 Elmwood Road on Elk Road position 2	3" Red Maple	C4P
93 Cumberland Avenue on Brentwood Drive	15" Silver Maple	C4P
7 Brentwood Drive	5" Red Maple	C4P
62 Elmwood Road	4" Red Maple	C4P
33 Hamilton Road	6" Red Maple	C4P
25 Hamilton Road	6" Red Maple	C4P
23 Hamilton Road	6" Red Maple	C4P

Tree Stumps

Address	Comments
10 Afterglow Avenue position 1	Stump
Top of Nassau Road	Stump
17 Cambridge Road	Stump
15 Cambridge Road	Stump
134 Fairway Avenue	Stump
102 Fairway Avenue	Stump
69 Fairway Avenue	Stump
109 Hillside Avenue	Stump
136 Sunset Avenue	Stump
Opposite 140 Sunset Avenue	(2) stumps
21 Brookdale Court	Stump
4 Valhalla Way	Stump
48-50 Park Avenue	Stump
23 Mountainview Road	Stump
8 Marion Road	Stump
42 Marion Road	Stump
112 Forest Avenue	Stump
15 Balston Drive	Stump
10 Whitney Terrace on Peters Lane	Stump
Hill Street at Meadow Lane	Stump
12 Laurel Court	Stump
8 Durrell Street	Stump
Swimming pool exit driveway	Stump
100 Hillwood Terrace	Stump
12 Dodd Terrace	Stump
18 Dodd Terrace	Stump
20 Dodd Terrace	Stump
274 Linden Avenue	Stump
95 Personette Avenue	Stump
15 Willow Terrace	Stump
115 Grove Avenue on Franklin Avenue	Stump
11 Crane Terrace on Peckman Court	Stump
20 Malvern Place	Stump
93 Cumberland Avenue on Brentwood Drive	Stump
3 Overhill Road	Stump
1 Cliff Street	Stump
18 Cliff Street	Stump
Lanning Road at School	Stump
53 Cypress Avenue	Stump

Planting Locations

Address	Comments
1 Glen Road on Sunset Avenue	Plant on lawn With wires
37 Cambridge Road	Plant 48" belt width With wires
29 Cambridge Road	Plant 48" belt width With wires
25 Cambridge Road	Plant 48" belt width With wires
12 Witherspoon Road	Plant 30" belt width With wires
10 Witherspoon Road	Plant 30" belt width With wires
43-45 Gerdes Avenue	Plant on lawn No wires
80 Hillside Avenue	Plant 36" belt width With wires
37 Morningside Road	Plant 36" belt width With wires
8 Birdseye Glen	Plant On lawn With wires
6 Valhalla Way	Plant 30" belt width With wires
11 Hathaway Lane	Plant on lawn No wires
2 Howard Street	Plant 30" belt width With wires
6 Morningside Road	Plant 36" belt width No wires
8 Morningside Road	Plant 36" belt width No wires
14 Morningside Road	Plant 36" belt width No wires
24 Mountain Road	Plant 30" belt width No wires
6 Windemere Road	Plant 30" belt width With wires
14 Hemlock Drive	Plant 30" belt width No wires
11 Hemlock Drive	Plant 30" belt width No wires
7 Durrell Street	Plant 30" belt width No wires
58 Durrell Street	Plant on lawn With wires

14 Lynwood Road	Plant 30" belt width No wires
32 Lynwood Road	Plant 30" belt width No wires
34 Lynwood Road	Plant 30" belt width No wires
33 Lynwood Road	Plant 30" belt width With wires
37 Lynwood Road	Plant 30" belt width With wires
38 Kenwood Avenue	Plant on lawn No wires
28-30 Kenwood Avenue	Plant on lawn House service
14 Kenwood Avenue	Plant on lawn No wires
11 Kenwood Avenue	Plant 36" belt width With wires
74 Personette Avenue	Plant 48" belt width No wires
72 Personette Avenue	Plant 48" belt width No wires
67 Personette Avenue	Plant 48" belt width With wires
56 Grove Avenue on Personette Avenue	Plant (2) 48" belt width With wires
27 Ann Street	Plant 30" belt width With wires
29 Ann Street	Plant 30" belt width With wires
20 Steven avenue on Ann Street	Plant (2) 36" belt width No wires
12 Ann Street	Plant 30" belt width No wires
33 Cypress Avenue	Plant 30" belt width No wires
45 Cypress Avenue	Plant 30" belt width No wires
49 Cypress Avenue	Plant 30" belt width No wires
3 Willow Terrace	Plant 30" belt width With wires
21 Midwood Avenue	Plant 30" belt width With wires
15 Midwood Avenue	Plant 30" belt width With wires
209 Linden Avenue	Plant 30" belt width No wires

207 Linden Avenue	Plant 30" belt width No wires
80 Derwent Avenue	Plant 30" belt width No wires
3 Spruce Street	Plant 30" belt width With wires
91 Linden Avenue	Plant 30" belt width No wires
15 Newman Avenue	Plant 30" belt width No wires
17 Newman Avenue	Plant 30" belt width No wires
Elk Road at School	Plant (4) 30" belt width No wires
188 Claremont Avenue on Otsego Road	Plant (2) 36" belt width No wires
49 Brentwood Drive	Plant 30" belt width No wires
29 Brentwood Drive	Plant 30" belt width No wires

Sidewalk Issues

Address	Comments
9 Summit Road	Tree related sidewalk issue
7 Ravine Road	Sidewalk
4 Robert Court	Sidewalk, position 1 and 2
8 Robert Court	Sidewalk
10 Robert Court	Sidewalk
9 Robert Court	Sidewalk
7 Robert Court	Sidewalk
7 Belleclaire Place	Sidewalk
9 Belleclaire Place	Sidewalk
25 Cambridge Road	Sidewalk
17 Cambridge Road	Sidewalk
37 Forest Avenue	Sidewalk
6 Marion Road	Sidewalk
32 Marion Road	Sidewalk
110 Forest Avenue	Sidewalk on Marion Road
8 Howard Street	Sidewalk
16 Howard Street	Sidewalk
38 Howard Street	Sidewalk
43 Howard Street	Sidewalk
73 Pease Avenue	Sidewalk
55 Pease Avenue	Sidewalk
22 Morningside Avenue	Sidewalk
27 Morningside Avenue	Sidewalk
68 Morningside Avenue	Sidewalk
106 Morningside Avenue	Sidewalk
115 Morningside Avenue	Sidewalk
117 Morningside Avenue	Sidewalk
11 Beechwood Road	Sidewalk
7 Beechwood Road	Sidewalk
56 Chestnut Road	Sidewalk
99 Hillside Avenue	Sidewalk
101 Hillside Avenue	Sidewalk
15 Balston Drive	Sidewalk
11 Whitney Terrace	Sidewalk
3 Windemere Road	Sidewalk
10 Windemere Road	Sidewalk
12 Windemere Road	Sidewalk
11 Windemere Road	Sidewalk
13 Windemere Road	Sidewalk
15 Meadow Lane	Sidewalk
16 Laurel Court	Sidewalk
15 Crest Hill Road	Sidewalk
11 Crest Hill Road	Sidewalk

64 Lynwood Road	Sidewalk
82 Lynwood Road	Sidewalk
1 Clover Lane	(2) sidewalk issues
10 Lynwood Road	Sidewalk
11 Dodd Terrace	(3) sidewalk situations
27 Kenwood Avenue	Sidewalk
23 Kenwood Avenue	Sidewalk
20 Steven Avenue	Sidewalk
22 Steven Avenue	Sidewalk
24 Ann Street	Sidewalk
32 Ann Street	Sidewalk
42 Ann Street	Sidewalk
38 Ann Street	Sidewalk
36 Ann Street	Sidewalk
30 Ann Street	Sidewalk
10 Ann Street	Sidewalk
4 Ann Street	Sidewalk
2 Ann Street	Sidewalk
6 Cypress Avenue	Sidewalk
21 Cypress Avenue	Sidewalk
27 Cypress Avenue	Sidewalk
30 Cypress Avenue	Sidewalk
34 Cypress Avenue	Sidewalk
43 Cypress Avenue	Sidewalk
47 Cypress Avenue	Sidewalk
9 Willow Terrace	Sidewalk
8 Willow Terrace	Sidewalk
31 Willow Terrace	Sidewalk (2) locations
115 Grove Avenue on Franklin Avenue	Sidewalk
85 Franklin Avenue	Sidewalk
77 Franklin Avenue	Sidewalk
48 Brookside Terrace	Sidewalk
38 Brookside Terrace	Sidewalk
69 Derwent Avenue	Sidewalk
70 Derwent Avenue	Sidewalk
37 Franklin Street	Sidewalk
39 Franklin Street	Sidewalk
32 Franklin Street	Sidewalk
1 Spruce Street	Sidewalk
11 Crane Terrace	Sidewalk
11 Oak Lane	Sidewalk
149 Woodland Avenue	Sidewalk
71 Woodland Avenue	Sidewalk
39 Woodland Avenue	Sidewalk

799 Bloomfield Avenue on Chestnut Road	Sidewalk
18 Linden Avenue	Sidewalk
20 Linden Avenue	Sidewalk
117 Linden Avenue	Sidewalk
31 or 33 Hillcrest Terrace	Sidewalk
75 Newman Avenue	Sidewalk
79 Newman Avenue	Sidewalk
76 Newman Avenue	Sidewalk
69 Newman Avenue	Sidewalk
20 Wilton Terrace	Sidewalk
7 Newman Avenue	Sidewalk
4 Newman Avenue	Sidewalk
Elk Road at School	Sidewalk
91 Elmwood Road on Beach Road	Sidewalk
15 Beach Road	Sidewalk
75 Otsego Road	(2) sidewalks
139 Linden Avenue on Wildwood Terrace	Sidewalk
19 Brentwood Drive	Sidewalk
14 Highland Terrace	Sidewalk
21 Cliff Street	Sidewalk
31 Cliff Street	Sidewalk

Private Tree Issues

Address	Diameter/Species	Comments
Behind billboards on Claremont Avenue and Bloomfield Avenue		Dead Ash trees
21-23 Claremont Avenue at Beacon Hill		Large dead Ash between driveways
Sunset Avenue at Golf Course		Poison Ivy
Essex County Parks Opposite 135 Park Avenue	24" White Oak	Remove Pole 61093 Single phase primary
Essex County Parks 114 Park Avenue and Porcello Lane	30" Pin Oak	Remove tree trunk
19? Oakridge Road (corner of Chestnut Road)	16" Cherry	Notice to remove
23 Durrell Street	8" Dogwood	Notice to remove
57 Depot Street	40" Scarlet Oak	Notice to prune and cut back over-extended branches over street
Essex County	Yellow Poplar	Dead Near 100 Fairview Drive
41 Willow Terrace	20" Elm	Dead On front lawn Notice to remove
19 Derwent Avenue	19" Wild Cherry	On front lawn Notice to remove
1 Spruce Street	8" x 8" Red Maple	Hangers over sidewalk
118 Claremont Avenue	33" Sugar Maple	Notice to remove
Former Chase Bank at Claremont Avenue and Pompton Avenue		9" dead tree

Notes:

- 66 Newman Avenue
 - Pole #60956
 - Contact Verizon and PSE&G to remove span guy
- Summit Road
 - 6 large Ash trees
 - Are you interested in injecting to protect against EAB?
- On sidewalk replacements, always use expansion joints on each slab in the vicinity of a large tree.
- Plant further back from the curb. No more Pears. No more Red Maples.
- Planting too close to corner (Fellswood Drive and Oakridge Road)
- Schedule to remove guys and stakes.
- Branch elevation. Leaving stubs. Most cuts are good.
- Planting too close to driveways.
- Planting too close to utility poles.
- Maintain round over technique on Pears beneath wires.
- Planting too close to an intersection.
- 2 Redbuds on Personette Avenue!
- Bloomfield Avenue on Sunset Avenue
 - (3) 12" Pin Oaks
 - Suspect BLS
 - Bacterial Leaf Scorch is beginning to take its toll
- 799 Bloomfield Avenue
 - On Chestnut
 - Sidewalk

Chapter 136

TREES

GENERAL REFERENCES

Land use procedures — See Ch. 30.

Park rules and regulations — See Ch. 100.

Shade Tree Commission — See Ch. 44.

Property maintenance — See Ch. 107.

Flood control — See Ch. 77.

Shade trees and shrubs — See Ch. 171.

§ 136-1. Purpose.

The Borough of Verona finds that the unregulated and uncontrolled destruction and removal of trees upon lots and tracts of lands within the Borough of Verona has resulted in increased soil erosion, has decreased fertility of the soil, has created dust and mosquito breeding places, has caused depreciation in property values and has impaired the stability and value of real estate, with the result that there has been and will be in the future a detriment to the public health and welfare which requires the passage of this chapter.

§ 136-2. Definitions.

Definitions. The terms used in this chapter shall be deemed and construed to have the following meanings:

PERSON — Any individual, firm, association, partnership or corporation or any group of two (2) or more of the foregoing.

OWNER — Any person having title to any lot, plot, piece or parcel of land.

TENANT — Any person in possession of any lot, piece or parcel of land, with or without a lease, but with the permission of the owner.

UNIMPROVED LOT — Any clearly defined piece of land, the location, dimensions and boundaries of which are determined by the latest official record, upon which no structure permanently affixed to the land, with a roof, and intended for shelter, housing or enclosure, has been constructed.

§ 136-3. Destruction of trees restricted.

No person or persons shall destroy and remove two (2) or more trees with a diameter in excess of four (4) inches, measured one (1) foot above the ground, growing upon any unimproved lot or tract of land within the Borough of Verona, County of Essex, unless said destruction or removal is accomplished in accordance with the provisions of this chapter.

§ 136-4. Application procedure.

Any person or persons desiring to remove or destroy any such trees in excess of the sizes referred to in § 136-3 above shall file an application therefor with the Borough Engineer on the forms provided for such purpose. Said application shall identify the lot or tract of land upon which the trees are located, disclose the name and address of the owner, tenant or duly authorized agent of said owner and tenant and shall show the exact location of the trees sought to be destroyed or removed.

§ 136-5. Inspection by Borough Engineer.

If said application, together with any previous application or applications, discloses that two (2) or more trees in excess of the size referred to in § 136-3 of this chapter, are to be destroyed or removed from said unimproved lot or tract of land, the Borough Engineer shall examine into the matter by personal inspection of the premises referred to in the application, by inspecting the trees referred to therein and by observing the drainage condition and topographical condition existing upon said lands and the vicinity thereof.

§ 136-6. Basis for determination by Borough Engineer.

After completing his examination, the Borough Engineer shall make a determination with respect to whether or not the permit applied for should be granted. The Borough Engineer shall, at all times, follow the intent of this chapter, which is to preserve trees wherever this can be accomplished, and he shall not make a favorable determination with respect to the aforesaid application unless he finds that one (1) or more of the following conditions exist:

- A. The area where such tree is located will be occupied by a building or structure, a driveway or recreation area, a roadway, a drainage right-of-way or a sewer line, or the area where such tree is located within fifteen (15) feet of any of the foregoing.
- B. The area where such tree is located has a depression or fill of land which is deemed injurious or dangerous to said tree or other trees located nearby.
- C. The presence of said tree is likely to cause hardship or will endanger the public or an adjoining property owner by reason of it being diseased or dead or for some other adequate reason within the intent of this chapter.

§ 136-7. Issuance of permit; refusal.

If the determination of the Borough Engineer is favorable, he shall issue the permit applied for. If said determination is unfavorable, the Borough Engineer shall promptly notify the applicant in writing with respect thereto and shall not issue said permit.

§ 136-8. Violations and penalties.¹

Any person who violates any of the provisions of this chapter shall, upon conviction thereof, be subject to a fine not exceeding five hundred dollars (\$500.) or imprisonment in the county jail for a period not exceeding ninety (90) days, or both.

1. Editor's Note: Amended at time of adoption of Code; see Ch. 1, General Provisions, Art. I.

Chapter 44

SHADE TREE COMMISSION

GENERAL REFERENCES

Land use procedures — See Ch. 30.

Trees — Ch. 136.

Property maintenance — See Ch. 107.

As to legislation adopted by the Shade Tree Commission, consult Part IV of this Code.

§ 44-1. Creation; composition.

Pursuant to provisions of N.J.S.A. 40:64-1, there is hereby created a Shade Tree Commission of and for the Borough of Verona, which shall consist of three (3) members who shall be residents of the Borough of Verona and shall serve without compensation, except as hereinafter provided.

§ 44-2. Appointments; terms; vacancies.

- A. The members of the Shade Tree Commission shall be appointed by the Mayor of the Borough of Verona and each shall be appointed for a full five-year term to take effect January 1.
- B. Any vacancy occurring by reason of the death, resignation or removal of any Commissioner shall be filled for the unexpired term.

§ 44-3. Annual reorganization.

The Commission shall organize within thirty (30) days after the appointment of its members and thereafter annually by the election of one (1) of its members as President and the appointment of a Secretary who may or may not be a member of the Shade Tree Commission.

§ 44-4. Powers and duties.

The Commission shall be vested with such powers and shall be charged with such duties as is or may hereinafter be provided by law.

§ 44-5. Statutory authority for actions and appointments.

All actions heretofore performed by the Shade Tree Commission and the appointments of the present members of the Shade Tree Commission are hereby preserved pursuant to N.J.S.A. 40:64-7.

Chapter 171

SHADE TREES AND SHRUBS

GENERAL REFERENCES

Land use procedures — See Ch. 30.

Park rules and regulations — See Ch. 100.

Shade Tree Commission — See Ch. 44.

Property maintenance — See Ch. 107.

Flood control — See Ch. 77.

Trees — See Ch. 136.

§ 171-1. Definitions.

As used in this chapter, the following terms shall have the meanings indicated:

PERSON — Every person, firm, association, partnership, corporation and individual.

SHADE TREE — Shade and ornamental trees and shrubbery now located or which may hereafter be planted in any public highway, park or parkway or area between sidewalk and curbs of public streets in the Township, except those located or planted on county highways, parks and parkways and state highways.

SHADE TREE COMMISSION — The Shade Tree Commission of the Township of Verona and its duly authorized representatives.

STREET — All streets, roads, roadways, public highways, parks or parkways, public alleys, public places in the Township, except county parks, parkways and highways and state highways.

§ 171-2. Permission required for certain acts.

A. No person, firm, corporation or individual connected with such firm or corporation shall do or cause to be done by others to any tree, shrub or plant on a public highway or place, either purposely, carelessly or negligently, without the permission of the Shade Tree Commission, any of the following acts:

- (1) Cut, prune, climb with spikes, break, damage or remove.
- (2) Cut, disturb or interfere in any way with any root.
- (3) Spray with any chemical.
- (4) Fasten any rope, wire, sign or other device.
- (5) Remove or damage any guard or device placed to protect any tree or shrub.

- B. Nothing herein shall prevent any governmental agency from tying a public notice upon a tree in connection with administering governmental affairs.

§ 171-3. Open space required at base of tree.

- A. No person or corporation shall, without the permission of the Shade Tree Commission, place or maintain or cause to be placed or maintained upon the ground in any public highway or place any stone, cement or other sidewalks or any stone, cement or other substance which shall impede the free access of air and water to the roots of any tree or shrub in any public highway or place.
- B. An open space of not less than two feet outside the trunks of trees at their bases on all sides must be maintained on all trees on public highways except where limited by curb and/or sidewalk.

§ 171-4. Placement of substances injurious to trees.

- A. No person shall place salt, brine, oil or other substances injurious to plant growth in any public highway or place in such a manner as to injure any tree or shrub growing thereon.
- B. No person shall build any fire or station any tar kettle, road roller or other engine in any public highway in such a manner that the heat vapors or fumes therefrom may injure any tree or shrub growing thereon.

§ 171-5. Construction of sidewalks and streets in conflict with trees.

No person, firm or corporation is permitted to lay any sidewalk along or to open, construct, curb or pave any street or do any like act so as to interfere with or do injury to any highway shade tree without the consent of the Shade Tree Commission.

§ 171-6. General construction and excavation regulations.

- A. In the erection, altering or repairing of any building or structure, the owner or contractor thereof shall place such guards around all nearby trees in public highways or places as will effectually prevent injury to such trees.
- B. No person, firm or corporation shall do any excavating within two feet of any tree or shrub without the permission of the Shade Tree Commission.
- C. Shovels and all other implements, machines and tools shall be used or operated in such a manner as not to damage or destroy any tree, shrub or plant in any public highway place.
- D. Where in authorized excavations it becomes necessary to expose or cut roots more than one inch in diameter, it shall be the duty of the

contractor to protect such roots under advice from the Shade Tree Commission.

§ 171-7. Written approval required for removal; determination of cost; deposit.

Any person requesting the removal or transplanting of any shade tree must obtain written approval from the Shade Tree Commission, which removal or transplanting, in the opinion of the Commission, is of no advantage to the general public but to said person requesting the work, then such person shall pay the cost of such work, said costs to be determined by the Shade Tree Commission. Said cost of removal or transplanting of a shade tree shall be based upon the size and condition of the tree. A deposit sufficient to cover the cost of said work shall be made before the work is started.

§ 171-8. Removal of dangerous trees; notification of owner.

The Shade Tree Commission may move or require the removal of any tree or part thereof dangerous to public safety at the expense of the owner of such tree, upon first serving written notice to the owner of said tree that same will be removed unless the owner removes same within one week from the date of said notice.

§ 171-9. Planting in public highways.

No shade or ornamental tree or shrub shall be planted by anyone but a representative of the Shade Tree Commission in any of the public highways of this Township.

§ 171-10. Plantings: written request; replacements; type and selection.

- A. The Shade Tree Commission, in its discretion, will plant a tree for the property owner upon written request, provided that there is sufficient distance for the future growth of said tree.
- B. Trees replacing trees heretofore planted by the Shade Tree Commission that have been removed because of disease, storm damage, accidents or natural causes will, at the discretion of the Commission, be replaced by the Shade Tree Commission at no charge to the property owner, provided that there is a minimum width of 50 feet between the trunks of standing trees on the same side of the street and a minimum width of two feet for the planting strip which is the distance between the sidewalk and the curb. **[Amended 4-2-2012 by Ord. No. 1-12]**
- C. The type and selection of trees to be planted will be determined by the Shade Tree Commission.

§ 171-11. Noninterference with Commission.

No person shall prevent, delay or in any manner interfere with the Shade Tree Commission or its authorized agents or representatives in the performance of their lawful duties.

§ 171-12. Statutory powers.

In addition to the foregoing powers, the Shade Tree Commission shall have any and all such powers granted to it by N.J.S.A. 40:64-1 through 40:64-14.

§ 171-13. Electric and telephone wires.

- A. Every person, firm or corporation having or maintaining any electric, telephone, telegraph or other wires running through a public highway shall securely fasten and maintain such wires in such a manner as will safeguard the trees and shrubs against any damage therefrom and shall make periodical adjustments whenever necessary to prevent damage to trees and shrubs growing in any public highway or place.
- B. No person, firm or corporation shall, without permission of the Shade Tree Commission, attach or fasten any wire, insulator or other device for holding any wire to any tree or shrub in any public highway or place.
- C. Any public utility or its agents may upon receiving permission from the Shade Tree Commission at least 24 hours prior to the start of work, prune or remove trees for line clearance of utility wires in non-emergency situations pursuant to a line clearance program. **[Amended 4-2-2012 by Ord. No. 1-12]**
- D. Any public utility or its agent may undertake emergency tree work to restore electrical service or spot work to prevent an interruption of electrical, telephone, telegraph or other wire services. In such an event, the utility will notify the Verona Department of Public Works and the Shade Tree Commission of the nature and location of said work within 24 hours of its beginning. **[Added 4-2-2012 by Ord. No. 1-12]**

§ 171-14. Application for permission.

Where the permission, consent or approval of the Shade Tree Commission is required by the provisions of this chapter, any person, firm or corporation required to obtain such permission, consent or approval shall first make application therefor to the Shade Tree Commission, Township of Verona, County of Essex.

§ 171-15. Violations and penalties. [Amended 4-2-2012 by Ord. No. 1-12]

Any person who violates any of the provisions of this chapter or who fails to comply with the terms and provisions of any permit issued pursuant hereto shall, upon conviction in municipal court thereof, pay a fine of not less than

\$200 or a fine not to exceed \$1,500 at the discretion of the court. Each day that a violation shall continue shall constitute a separate offense.

§ 171-16. Restitution. [Added 4-2-2012 by Ord. No. 1-12]

In addition to the penalties authorized by § 171-15 of this chapter, the Shade Tree Commission may require a person who removes or otherwise destroys a tree in violation of a municipal ordinance to pay a replacement assessment to the municipality. The replacement assessment shall be the value of the tree as determined by the appraisal of a trained forester or certified tree expert retained by the Shade Tree Commission for that purpose. In lieu of an appraisal, the Commission may adopt a formula and schedule based upon the number of square inches contained in a cross section of the trunk of the tree multiplied by a predetermined value per square inch, not to exceed \$27 per square inch. The square inch cross section shall be calculated from the diameter at breast height and, if there is a multiple stem tree, then each trunk shall be measured and an average shall be determined for the tree. For purposes of this chapter, "diameter at breast height" shall mean the diameter of the tree taken at a point 4 1/2 feet above ground level. The Shade Tree Commission shall modify the value of the tree based upon its species, variety, location and its condition at the time of removal or destruction.

TOWNSHIP OF VERONA

ORDINANCE #3-16

AN ORDINANCE TO REGULATE STEEP SLOPES IN THE TOWNSHIP OF
VERONA

The following Article XXI titled "Regulation of Steep Slopes" is added to Chapter 150 of the Code of the Township of Verona as follows:

150-21.1 PURPOSE The purpose of this article is to regulate the degree of disturbance of areas of steeply sloping terrain in order to limit soil loss, erosion, excessive stormwater runoff, the degradation of surface water and to maintain the natural topography and drainage patterns of land.

150-21.2 BACKGROUND Disturbance of steep slopes results in accelerated erosion processes from stormwater runoff, soil loss, changes in natural topography and drainage patterns, increased flooding potential, further fragmentation of forest and habitat areas, and compromised aesthetic values. The Township Council desires to regulate the disturbance of steep slopes to ensure against the adverse consequences of such disturbances.

150-21.3 APPLICABILITY The governing body of the Township of Verona recognizes that the Township is almost fully developed and that most of the lots in the higher density residential zones are developed and that the impact of disturbance of steep slopes on or otherwise developing and redeveloping such lots, whether currently developed or not, will not have the same adverse consequences as disturbance of previously undeveloped larger lots or of redevelopment of larger lots. As such, all properties in the following zones are exempt from the provisions of this Article XXI:

R-40 (Very High Density Single Family); R-50 High Density Single Family);
R-50B (Medium/High Density Single Family); R-60 (Medium Density
Single Family); P (Public); T(Transportation)

Despite anything contained herein to the contrary, this Article XXI shall not apply to an application for a minor subdivision that seeks only to modify an existing lot line without creating a disturbance.

Except as otherwise specifically set forth, this ordinance shall apply to new development, redevelopment or land disturbance on a steep slope on all properties within the Township of Verona. The Planning Board or Zoning Board of Adjustment shall review all plans submitted under this ordinance as part of any application for a construction permit, site plan approval, or subdivision approval. The Township Engineer, in all cases, shall review all applications for compliance with this ordinance. Applicability of the ordinance may be contested by demonstration to the satisfaction of the Township Engineer that no area on the subject property (or proposed or future subdivision thereof) meets the criteria for the presence of a 15 percent or greater slope. Once demonstrated, the subject property, or subdivision thereof, shall be considered to be exempt from the requirements set forth herein.

150-21.4 DEFINITIONS

The following words shall have the following meanings as used in this Article XXI and for purposes of this Article XXI:

CUT - a location where a slope has been steepened by an excavation.

De MINIMUS DISTURBANCE - any new disturbance less than 500 square feet.

DISTURBANCE - the placement of impervious surface, the construction of a structure, the exposure or movement of soil or bedrock, or the clearing, cutting, or removing of vegetation. The planting of any vegetation in and of itself shall not be considered a disturbance.

IMPERVIOUS SURFACE - any structure, surface, or improvement that reduces or prevents absorption of stormwater into land, and includes porous paving, paver blocks, gravel, crushed stone, decks, patios, elevated structures, and other similar structures, surfaces, or improvements, and water features.

MAJOR DISTURBANCE - any disturbance of 1000 square feet or greater.

MINOR DISTURBANCE - any disturbance equal to or greater than 500 square feet, but less than 1000 square feet.

PERCENT SLOPE - the rise in feet divided by horizontal distance in feet, with the result multiplied by 100.

PRECAUTIONARY SLOPE - any slope of 15 percent or greater but less than 25 percent.

PROHIBITIVE SLOPE - any slope of 25 percent or greater.

REDEVELOPMENT - the construction of structures or improvements on areas which previously contained structures or other improvements.

STEEP SLOPE - any slope equal to or greater than 15 percent as measured over any minimum run of 10 feet, perpendicular to the contour of the slope, based on contour intervals of two feet or less.

150:21.5 DESIGNATION OF AREAS Steep slope areas shall be designated or excluded based on site-specific topographic mapping to be prepared by a land surveyor licensed in the State of New Jersey, or utilizing best available topographic information as determined by the Township Engineer. The percent of slope (rise in feet per horizontal distance in feet) shall be established by measurement of distance perpendicular to the contour of the slope for the disturbed area. The percent of slope shall be calculated for each two-foot contour interval. For example, any location on the site where there is a 1.0-foot rise over a 10.0-foot horizontal run constitutes a 10 percent slope; a 1.5-foot rise over a 10.0-foot horizontal run constitutes a 15 percent slope; and a 2.5 foot rise over a 10.0-foot horizontal run constitutes a 25 percent slope. Previously existing artificially created landscaping features or construction elevation changes, such as but not limited to, retaining walls, garden mounds or the transitions between terraces, or the creation of a railroad bed, shall be exempt from consideration in calculating slopes for designation of areas under this ordinance. However, if the nominal slope of the land supporting such a feature meets the definition of a steep slope, irrespective of the existence of the feature, it shall be included as a designated area. Land development plans which received planning or zoning board approval prior to the adoption date of this ordinance shall be exempt. Proof of exemption eligibility shall be determined by the Construction Official.

150-21.6 STEEP SLOPE DISTURBANCE LIMITS For designated steep slope areas, any non-exempt disturbance shall require a permit under this ordinance, except as provided below as confirmed by the Township Engineer:

Redevelopment (or rebuilding after a disaster) within the limits of existing impervious surfaces;

Addition to an existing single-family home where new disturbance to a precautionary slope area is less than 500 square feet (i.e., a de minimis disturbance);

New disturbance necessary to protect public health, safety or welfare, such as necessary linear development with no feasible alternative, or to provide an environmental benefit, such as remediation of a contaminated site.

150-21.7 APPLICATION PROCEDURE Applicants for a construction permit, site plan approval, or subdivision approval shall submit to the Construction Office all information and documents required by this ordinance in the same form as applications for subdivision approval or site plan approval.

150-21.8 INFORMATION REQUIRED For all subdivisions and site plans regulated under this ordinance (minor and major) the following exhibits shall be submitted:

- A.
 1. A topographic map, prepared, signed and sealed by a New Jersey licensed land surveyor showing existing contours at two (2) foot intervals.
 2. Areas clearly identified on the topographic map showing the following slopes as measured between two (2) foot contour lines designated as Areas 1 through 3: a) Area 1. 0 to 14.9 percent (non-regulated slopes); b) Area 2. 15 to 24.9 percent (precautionary slopes); c) Area 3. 25 percent or greater (prohibitive slopes).
 3. Calculations, in square feet and acres, of amount of area in the various slope categories listed above.
- B. Where development is proposed on steep slopes (i.e., equal to or greater than 15 percent) as part of preliminary subdivision approval, or preliminary site plan approval the following additional exhibits, prepared, signed and sealed by a New Jersey licensed professional engineer shall be submitted.

For all minor and major disturbances (≥ 500 square feet):

1. Type and location of construction activity, including the amount of site grading.
2. Location of construction access roads.

Additionally, for major disturbances (≥ 1000 square feet):

1. Erodibility potential of exposed soils.
2. Length, steepness and surface roughness of exposed slopes.
3. Resistance of soil to compaction and stability of soil aggregates.
4. High-water table, water infiltration capacity and capacity of soil profile.
5. Any other engineering data which shall be deemed reasonably necessary by the Township Engineer to determine compliance with this section.

150-21.9 SPECIAL DEVELOPMENT REQUIREMENTS

A. No soil shall be excavated, removed, deposited, or disturbed within an area of steep slopes except as a result of and in accordance with a site plan or subdivision approved under the terms of this ordinance and consistent with Chapter 150 "Land Use" and Chapter 121 "Soil Removal" of this Code and the Hudson Essex Passaic Soil Conservation rules and regulations. Proposed disturbances of soil shall be for purposes consistent with the intent of this chapter and it shall be executed in a manner consistent with Chapter 150 "Land Use" and Chapter 121 "Soil Removal" of this Code and the Hudson Essex Passaic Soil Conservation rules and regulations.

B. Provisions shall be made for the proper disposition of surface water runoff so that it will be in a manner consistent with Chapter 150 "Land Use" and Chapter 121 "Soil Removal" of this Code and the Hudson Essex Passaic Soil Conservation rules and regulations. Appropriate temporary and permanent storm drainage facilities shall be constructed to adequately protect downstream properties.

C. Any proposed vehicular facilities including roads, drives, or parking areas shall be so designed that any land disturbances shall be in compliance with Chapter 150 "Land Use" and Chapter 121 "Soil Removal" of this Code and the Hudson Essex Passaic Soil Conservation rules and regulations. Both the vertical and horizontal alignment of vehicular facilities shall be so designed that hazardous circulation conditions will not be created. Existing grades along the centerline of any proposed driveway shall not exceed fifteen (15) percent. The connection of any driveway to a street shall be by a vertical curve of sufficient radius to provide a smooth transition. The horizontal angle of intersection of a driveway with a street shall not be less than sixty (60°) degrees.

D. Fill shall be "clean" and when placed on the lot shall be properly stabilized and when found necessary, depending upon existing sloped and soil types, supported by retaining walls or other appropriate structures as approved by the Township Engineer.

E. All cuts shall be supported by retaining walls or other appropriate structures when, depending upon the nature of the soil characteristics, such structures are found necessary by the Township Engineer to prevent erosion.

F. Walkway slopes shall not be in excess of six (6) percent unless the construction of a ramp is required and steps are provided.

G. Compaction of Fill. Fill material shall not consist of or include organic material, nor rocks greater than eight (8) inches in diameter. Fill material shall be compacted at least ninety (90) percent of the maximum density.

H. Vegetation and Revegetation. For major disturbances, the permittee shall submit a stabilization and revegetation plan prepared, signed and sealed by a New Jersey licensed professional engineer which shall include a complete description of the existing vegetation, the vegetation to be planted, and slope stabilization measures to be installed. The revegetation and slope stabilization plan shall be submitted with the grading plan. Every effort shall be made to conserve topsoil which is removed during construction for later use on areas requiring vegetation or landscaping, e.g., cut and fill slopes. All disturbed soil surfaces shall be

stabilized pursuant to Chapter 150 "Land Use" and Chapter 121 "Soil Removal" of this Code and the Hudson Essex Passaic Soil Conservation rules and regulations.

Every effort shall be made to preserve the maximum number of trees and other existing vegetation on the site and to avoid disturbance of the critical upland forest areas, and to preserve the unique and predominant views.

It shall be presumed that upon compliance with all of the requirements set forth in this section, de minimus and minor disturbances shall be permitted on all steep slopes.

It shall be presumed that upon compliance with all of the requirements set forth in this section, major disturbances shall be permitted on no more than fifty (50%) percent of an area identified as a Precautionary Slope.

It shall be presumed that upon compliance with all of the requirements set forth in this section, major disturbances shall be permitted on no more than five (5%) percent of an area identified as a Prohibitive Slope.

Major Disturbances on more than five (5%) of a prohibitive slope shall not be permitted *unless* the Applicant can demonstrate to the Planning Board or the Zoning Board of Adjustment as the case might be, that some disturbance is necessary otherwise the Applicant will have no ability to utilize the property on which the slope is located for any purpose permitted within the zone in which the property is located. By way of example and not limitation, should a major disturbance of a prohibitive slope be necessary to allow ingress/egress to a property, and should failure to allow disturbance of a prohibitive slope effectively prohibit all reasonable development on a property otherwise developable in accordance with other sections of this Code, including those developments that require variances and/or waivers herein, the Planning Board or Zoning Board shall allow such disturbance provided that the Applicant meets all of the requirements set forth in this Section 150-21.9. No exception to a prohibition against building on a prohibitive slope in accordance with this paragraph shall be granted if the property owner can create or build upon the lot on which the prohibitive slope is located without the benefit of such exception.

150-21.10. C VARIANCES

All variances relating to this ordinance are deemed to be "C" variances. It is the intent and purpose of this ordinance to provide bulk limitations which may be deviated from only in accordance with "C" variance standards.

150-21.11 CONFLICTS AND SEVERABILITY

A. Conflicts: All other ordinances, parts of ordinances, or other local requirements that are inconsistent or in conflict with this ordinance at the time of the passage of this ordinance are hereby superseded to the extent of any inconsistency or conflict, and the provisions of this ordinance apply.

B. Severability: 1. Interpretation: This Ordinance shall be so construed as not to conflict with any provision of New Jersey or Federal law. 2. Despite that any provision of this Ordinance is held to be invalid or unconstitutional by a court of competent jurisdiction, all remaining provisions of the Ordinance shall continue

to be of full force and effect. 3. The provisions of this Ordinance shall be cumulative with, and not in substitution for, all other applicable zoning, planning and land use regulations.

150-21.12 ENFORCEMENT, VIOLATION AND PENALTIES The requirements of this ordinance shall be enforced by the Township Engineer or his designee who shall conduct investigations when any person or entity is believed to be in violation hereof. Any person or entity that violates any provision of this ordinance shall, upon conviction thereof, be punished by a fine not exceeding \$2000 and shall be ordered to stabilize the disturbed area and return the disturbed area to it previously existing condition. The violation of any section or subsection of this Ordinance shall constitute a separate and distinct offense independent of the violation of any other section or subsection, or of any order issued pursuant to this Ordinance. Each day a violation continues shall be considered a separate offense.

150-21.13. MAINTENANCE The owner of the property, all successors and any other person or agent in control of the property shall properly maintain in good condition and promptly repair and restore all improvements permitted under this Ordinance.

150-21.14 TOWNSHIP ENGINEER APPROVAL Following completion of construction or other activity, the owner shall apply for approval by the Township Engineer or his designee. Such approval shall not be issued until the Township Engineer or his designee certifies that all matters are in compliance with the plans submitted pursuant to this Ordinance.

Except as hereby amended, the Code of the Township of Verona shall remain in full force and effect.

This Ordinance shall take effect upon final passage and twenty days from publication in accordance with the law.

INTRODUCTION: February 1, 2016

PUBLIC HEARING: April 4, 2016

ADOPTED: April 4, 2016



Jennifer Kiernan
Jennifer Kiernan, RMC
Municipal Clerk

Township of Verona

Tree Removal Policy

The following criteria are used in making tree removal determinations:

- 1.) The tree is dead.
- 2.) 20-30% of the tree crown has declined and it is aesthetically unattractive.
- 3.) The tree has structural deficiencies
- 4.) The tree has been repeatedly cut back by Public Service Electric and Gas line clearance crew, rendering it unattractive.
- 5.) Sidewalk, driveway apron or curbing improvements necessitate the removal of an excessive amount of roots, thus making the tree unstable or bringing about its premature demise.
- 6.) The presence of the tree in some way compromises Public health safety or general welfare.

A notification letter is sent out to each resident adjacent to a tree designated for removal informing them that the tree will be removed over the next few months and that they should call the Department of Public Works if they are interested in having a replacement tree installed.

The actual number of trees marked for removal fluctuates from year to year, but usually is between 1-2% of the total tree population. The presence of environmental stress such as a severe winter or drought or an insect or disease infestation can significantly increase tree mortality.

The Verona Shade Tree Commission recognizes A Photographic Guide to the Evaluation of Hazard Trees in Urban Areas published the International Society of Arboriculture as its official standard for identifying structural deficiencies in street trees.

Township of Verona

Tree Maintenance Policies

The following criteria are used in making tree maintenance determination:

1. That residents be provided with watering instructions for new plantings during the first year.
2. That life threatening insect and disease problems be controlled as necessary.
3. That biological or non-toxic pest control is used wherever possible.
4. That residential, commercial, and municipal historic and specimen trees be preserved wherever possible.
5. That an inventory of Township street trees be maintained for management purposes.
6. That work is scheduled by priority.

a) **Top Priority** shall include the following:

- The removal of potentially dangerous dead, dying, diseased or structurally weak trees or crown reduction some to make them safe.
- The removal of large, dangerous, broken and or hanging branches.
- The removal of low branches, which create a visibility, traffic or pedestrian hazard.
- The correction of hazardous root conditions.

b) **Medium Priority** shall include the following:

- The pruning and removal of deadwood conditions.
- Spraying for insect and disease problems.
- The removal of sticks and stumps
- The pruning of branches interfering with streetlights, above ground utilities, structures, etc...

c) **Low Priority** shall include the following:

- Pruning for aesthetic reasons.
- Non-safety related tree removals, pruning and stump removals, etc...

Township of Verona

Tree Planting Policy

The following criteria are used in making tree planting determinations:

- 1.) That wherever possible, tree removals will be replaced.
- 2.) That it is recognized that promoting species diversity is a control for epidemics of insects and disease and that monoculture planting be avoided.
- 3.) That such plant site constraints as planting belt width, overhead and underground utilities, sidewalks, curbs soil and moisture conditions, setbacks, traffic visibility, spatial arrangement, signage, awnings, etc., be considered in all planting selections and that the following standards be followed:
 - No planting within 35' of a stop sign
 - No planting within 25' of an intersection.
 - No planting within 50' of another tree.
 - No planting if the planting strip is less than 24''.
 - No planting within 10' of an underground utility.
 - No planting within 12' of a driveway apron or utility pole.
 - Aggressive species exceeding 25' in height at maturity shall not be planted under above ground utilities.
 - Trees for New Jersey Streets published by N.J. Shade Tree Federation shall be the standard for determining species suitability for planting belt widths.
- 4.) That wherever possible, replacement species shall be selected to maintain the existing character of the neighborhood.
- 5.) That all plantings conform to The American Association of Nurserymen's Plantings Standards.
- 6.) That wherever possible consideration be given to residents' preference in the species selection and planting location of replacement trees.

Township of Verona

Nuisance Tree Policy

Trees are a part of the infrastructure of our public right-of-way. Similar to asphalt paving, curbing, or storm or sanitation lines, they have associated maintenance costs and ultimately a useful life span.

Unlike other items of infrastructure, trees are alive. Sometimes interference can occur between trees and other infrastructure components especially if these components have structural or design deficiencies.

Subsequent to frost heaving, tree roots will displace sidewalk slabs and curbing. Tree roots also will intrude leaking sewer laterals. Frequently the low oxygen levels in high water tables or compacted soils force tree roots to grow at or near the soil surface. In such situations, trees could be considered a nuisance.

It is the policy of the Township of Verona to only remove trees that meet the following criteria:

- 1.) The tree is dead.
- 2.) 20-30% of the tree crown has declined and it is aesthetically unattractive.
- 3.) The tree has structural deficiencies.
- 4.) The tree has been repeatedly cut back by Public Service Electric & Gas line clearance crews, rendering it unattractive or unsustainable.
- 5.) Sidewalk, driveway apron or curbing improvements necessitate the removal of an excessive amount of roots, thus making the tree unstable or bringing about its premature demise.
- 6.) The presence of the tree in some way compromises public health, safety or general welfare.

In situations where individuals strongly desire the removal of trees which are not dead, dying or unsafe, the following policy shall follow:

- In all nuisance cases, the Township retains the right to determine whether a tree can or cannot be considered for removal.
- The property owner shall direct a letter to the Township Engineer requesting permission to remove the tree and stump. The situation will be reviewed and a decision will be rendered at the next scheduled meeting date.

Upon receiving written authorization from the Verona Township Shade Tree Commission, the owner may proceed with the tree removal pursuant to the following conditions:

- 1.) The property owner will be responsible for the full cost of tree, stump and debris removal.
- 2.) The Township of Verona is to be held harmless from any damage that could possibly be sustained by the tree removal.

- 3.) Tree removal must be conducted by a full insured Tree Removal Contractor. Certification of Insurance must be attached to a Hold Harmless Statement.
- 4.) The Tree Removal Contractor shall comply with all state, A.N.S.I., O.S.H.A. and line clearance standards.
- 5.) The Tree Removal Contractor shall notify the Verona Police Department prior to the temporary closing of any Township street required for the safe removal of a Township tree.
- 6.) The property owner shall compensate the township for the current market value for a replacement tree. The species, size and location shall be determined by the Engineering Department

Township of Verona
Sewer Lateral/ Tree Root Policy

It is the responsibility of each property owner to maintain sanitary sewer laterals from their buildings out to the T-connection in the street with the main trunk line.

Sewer laterals were formerly constructed of clay tile or cast iron pipe.

Unlike the plastic sewer pipe used today, joints of clay tile or cast iron pipe typically leak and are prone to ground water and root intrusion.

It is the policy of the Township of Verona that sewer blockage occurs because of a collapsed pipe, wrong pitch or an accumulation and intrusion of tree roots in an out dated sewer lateral.

The Township encourages property owners to replace defective sewer laterals, as that is the only permanent solution to these problems.

Township trees will only be removed as an absolute last resort when a property owner provides the sewer supervisor with a sewer lateral, replacement contract and it is apparent to Township Public Works Director and the Shade Tree Commission that the removal of tree roots in conjunction with the sewer lateral replacement will cause the death or instability of the tree.

The following policy applies to all other situations where property owners are not inclined to the replacement of their defective sewer line:

The Department of Public Works recommends that property owners use an approved aquatic herbicide on an annual basis to kill roots and inhibit their growth for one-year period.

Township of Verona

Sidewalk Policy

Tripping hazards and the liabilities caused by uplifted sidewalks and driveway aprons in public right-of-way involving township trees are of great concern to the Township of Verona. With this in mind, the following shall apply:

- 1.) The Township shall provide replacement or repair of uplifted sidewalk slabs or driveway aprons on an annual basis through Community Development Block Grant or Capital Budget funding.
- 2.) Repairs and replacements will be conducted from April through November.
- 3.) Sidewalks or driveway aprons must be displaced more than ¾” in order to qualify.
- 4.) Shaving and grinding of roots, replacement of sidewalks and driveway aprons under this program shall be done by a private contractor pursuant to Township specifications.
- 5.) Upon written notification, the township shall provide for the repair or replacement of the affected area within one (1) calendar year of notification.
- 6.) Property owners shall have the opportunity to have additional sidewalk slabs repaired or replaced at their own expense at the same unit cost as bid to township.
- 7.) Trees will only be removed as a last resort when it is apparent to the Director of Public Works, Township Engineer, and the Shade Tree Commission that:
 - a.) The tree(s) in question is /are in a weakened condition and would not survive the pruning of roots necessary to correct the situation.
 - b.) The extent of root shaving or pruning necessary will cause the tree(s) to become unstable.
 - c.) The tree species is intolerant of root pruning or severance and would most likely die as a result of the necessary root treatment.

Note: In situations where property owners wish to replace sidewalks, curbs or driveway aprons at their own expense and Township trees are involved, the following shall apply:

- 1.) The property owner shall first obtain permit through the Engineering Department.
- 2.) The property owner shall make an appointment with the Superintendent of Public Works for the offending roots to be pruned or shaved.
- 3.) The property owner or designated contractor shall remove the sidewalk, apron or curbing to be replaced and shall expose the roots to be pruned or shaved at the appointed time.
- 4.) The Superintendent of Public Works or Shade Tree Commission shall have the authority to determine which root job is pruned or shaved and to direct the property owner or contractor to contour the replacement sidewalk around the existing tree to be preserved.

Township of Verona
Maintenance of Curbs and Sidewalks

The responsibility for the repair or replacement of curbs and sidewalks displaced by Township tree roots (i.e. trees growing within township right-of-way) falls on the Township of Verona.

Funding for the repairs and replacements comes from an annual capital budget expenditures.

Occasionally these repairs and replacements are included in road reconstruction projects of entire streets.

The Public Works Department pro-actively inspects and replaces sidewalks on an as needed basis. However, Property owners who have observed sidewalks uplifted more than 3” – 4” of an inch by tree roots or who have received notices from their insurance company in regard to hazardous sidewalk conditions, should contact the Superintendent of Public Works at 973-857-4806 to be included in the next sidewalk replacement cycle.

Treasured Trees of Verona

www.Veronaec.org

- Sycamore; 132 Sunset Avenue, Verona, NJ
- Red Oak; Forest Avenue School, 118 Forest Avenue, Verona, NJ
- Pin Oak; 11 Stonewood Parkway, Verona, NJ
- Norwegian Spruce; 10 Fairview Avenue, Verona, NJ
- American Beech; 22 Chestnut Road, Verona, NJ
- Ornamental Cherry; F.N. Brown School, 14 Brookdale Court, Verona, NJ
- Ornamental Cherry; Brookdale School, 14 Brookdale Court, Verona, NJ
- White Oak; 92 Pease Avenue, Verona, NJ
- Pin Oak; 320 Bloomfield Avenue, Brookdale Court, Verona, NJ
- Red Oak; 42 Martin Road, Verona, NJ
- Douglas Fir; 243 Fairview Avenue, Verona, NJ
- American Black Walnut; 14 Manor, Verona, NJ
- Japanese Maple; 82 Morning Road, Verona, NJ
- Norway Spruce; 151 Fairview Avenue, Verona, NJ
- Horse Chestnut; 10 South Prospect Street, Verona, NJ
- Willow Oak; 66 Oakridge Road, Verona, NJ
- Scarlet Oak; 44 Mountain Road, Verona, NJ
- Bur Oak; 51 Afterglow Avenue, Verona, NJ
- American Sweetgum; 26 Montrose Avenue, Verona, NJ

MAYOR
JACK McEVOY
DEPUTY MAYOR
ALEX ROMAN
COUNCILMEMBERS
KEVIN J. RYAN
EDWARD GIBLIN
CHRISTINE McGRATH

TOWNSHIP OF VERONA
COUNTY OF ESSEX, NEW JERSEY



TOWNSHIP MANAGER
MATTHEW CAVALLO
TOWNSHIP CLERK
JENNIFER KIERNAN
TOWNSHIP ATTORNEY
BRIAN J. ALOIA, ESQ.

VERONA COMMUNITY CENTER
880 BLOOMFIELD AVENUE
VERONA, NEW JERSEY 07044

MUNICIPAL BUILDING
600 BLOOMFIELD AVENUE
VERONA, NEW JERSEY 07044

(973) 239-3220
WWW.VERONANJ.ORG

DEPARTMENT OF PUBLIC WORKS
10 COMMERCE COURT
VERONA, NEW JERSEY 07044

Tree Removal Permit Notice

In accordance with the Township of Verona Ordinance No. 2019-34 prior to the removal of any tree either dead or alive, with limited exceptions, a permit must be obtained from the Township of Verona Zoning Office for each tree which is to be removed. No more than two (2) healthy trees shall be permitted for removal on any property per calendar year.

Tree Removal Permit Applications can be downloaded at the Township of Verona website www.veronanj.org or picked up in person at the Township Engineer/Zoning Offices located at 10 Commerce Court, Verona, New Jersey on Monday through Friday from 7:30 a.m. to 3:00 p.m. each week excluding holidays. All completed applications forms must be returned back to the Engineer/Zoning Offices for review. Once the permit is deemed complete and the necessary fees are attached a permit shall be issued or denied within twenty (20) business days of submission of a complete application. Tree removal permits issued shall be valid for twelve (12) months. Permits may be renewed for an additional six-months for a fee.

A fully completed Tree Removal Permit Application must include the following:

1. A completed Tree Removal Permit Application.
2. A check made payable to the Township of Verona for the necessary fees.

A-175 Schedule of Fees:

§136 Tree Protection, Removal and Replacement

- Tree removal permit application fee (up to two trees) = \$50.00
- A permit renewal fee per tree to be removed per six-month renewal period = \$10.00
- Permit fee for dead, diseased or hazardous tree removal = \$0.00
- Tree Replacement Fund payment per replacement = \$400.00

§136-14 Violations and penalties.

Any person, firm, partnership, corporation, association or other legal entity violating any of the provisions of Chapter 136 shall, upon conviction of such violation, be punished by a fine not less than \$200 and not to exceed \$2,000 for each offense, in addition to the required mitigation for each tree illegally removed. Each illegally removed or damaged tree shall constitute a separate offense.

Any questions regarding the Tree Protection, Removal and Replacement Permit should be directed to the Office of the Township Engineer/Zoning Official. (973) 857-4804

MAYOR
JACK MCEVOY
DEPUTY MAYOR
ALEX ROMAN
COUNCILMEMBERS
KEVIN J. RYAN
EDWARD GIBLIN
CHRISTINE MCGRATH

TOWNSHIP OF VERONA
COUNTY OF ESSEX, NEW JERSEY



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10 COMMERCE COURT
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Tree Protection, Removal and Replacement Permit Application

Identifying Information

1. Date of Application: _____
2. Name and Address of the owner of the property from which the trees are to be removed:

3. Tax Block No. _____ Tax Lot Number(s) _____
4. The number of trees requested to be removed _____
5. The reason for removal _____
6. Name(s), address, Telephone Number and email address of Applicant's Tree Removal Contractor

7. The Planned Date of Removal _____
8. Provide a copy of the Tree Removal Contractor(s) proof of liability insurance.
9. A tree removal permit for dead or diseased trees to be removed pursuant to the ordinance shall be accompanied by a certification from a licensed tree expert, hired by the applicant, verifying that any tree to be removed qualifies under the provisions of the ordinance. Has that been submitted? Yes _____ No _____
(If no please explain why) _____

10. Does the site contain any environmentally sensitive areas including but not limited to:

- a) Floodplains: Yes _____ No _____
- b) Riparian Zones, Streams, Brooks, Swales: Yes _____ No _____
- c) Steep Slopes: Yes _____ No _____ (Refer to Verona Steep Slope Ord. 3-16 for locations by zone)
- d) Wetlands or Wetland Transition Areas (Buffer): Yes _____ No _____

Tree Removal Plan

11. A tree removal plan (on separate sheet) consisting of a map drawn to scale showing the following information:

- The shape and dimensions of the lot or parcel, including the location of all easements.
- The limits of all existing and proposed tree line limits.
- The identification and location of all trees to be removed, specifically by an assigned number, species, and the DPM of each tree.
- The installation and limits of a temporary existing tree protection fence along the limit of proposed tree removal.
- The location of all existing and proposed structures on the property, along with the distance that the trees proposed to be removed are located from such structures and from property lines. A reproduction of the Tax Map or an existing survey modified to provide this information would be acceptable.
- Tree removal and replacement plan shall include specific information regarding the disposal of the removed trees in a manner to avoid spreading disease or pests harbored in the wood.
- Any other information which may reasonably be required to enable the application to be properly evaluated, including but not limited to a description of the purpose for which this application is to be made; e.g., clearing land for agricultural use, fire protection, private parks, scenic improvements, hardship, danger to adjacent properties, removal of diseased or damaged trees, transplanting or removal in a growing condition to other locations, installation of utilities, or drainage of surface water.
- A list of the number, species and DPM of all trees on the property.
- Location of all environmentally sensitive areas including but not limited to floodplains, riparian zones, steep slopes, transition zones, and wetlands.

Tree Replacement Plan

12. A tree replacement plan showing the location of all trees to be planted, the species of such trees and their caliper or size as required.

13. Number of Tree(s) being replanted on Applicant's property: _____

14. Species of Tree(s) being replanted: _____

15. Planned date of Replanting: _____

16. Cost of Replanting: _____

17. Name(s), address, Telephone Number and email address of Applicant's Tree Replanting Contractor.

18. In lieu of Replanting on Applicant's Property, a check in the amount of \$ _____ made payable to the Township of Verona Tree Replacement Fund as permitted under §136-1. (Refer to Tree Protection, Removal and Replacement Ordinance, §136-10 for Replacement Tree Requirements)

Performance Bond

19. Whenever trees are replaced pursuant to this Chapter, the applicant shall post with the Township Clerk a performance bond for one year in an amount to be determined by the Township, but in no event to exceed the amount per tree specified in Chapter §A175 of the Municipal Code. The performance bond may be either in the form of a cashiers' check or certified check made payable to the Township or in the form of a corporate surety performance bond issued by a New Jersey corporation. No performance bond shall be released except on certification of the Zoning Official that the replacement tree(s) remain healthy one year after planting. If they are found at that time by Zoning Official or its agents to be healthy and capable of surviving, and other performance requirements have been met, then the Zoning Official shall order the bond returned. If any trees are not at that point healthy, the tree(s) shall be replaced.

20. Will a Performance Bond be submitted? Yes _____ No _____

Certification

I certify that the answers to the above-referenced questions and any statements made on this application and survey/plot plan are true and complete to the best of my knowledge. I understand that this permit does not exempt bearer of responsibility to secure a Building Permit, Engineering Permits, or other permits as required by municipal, county, state or federal agencies. Any incorrect or falsified information will render this application and any approvals based on it void. Any changes to this approval or plans must be resubmitted for review prior to the installation.

Applicant Signature	Date	Owner Signature	Date
---------------------	------	-----------------	------

*****For Office Use Only *****

Permit No. _____	Fee Calculation: Permit Fee	\$ _____	
Date Issued: _____	Renewal Fee	\$ _____	
Date Completed: _____	Tree Replacement Fund Fee	\$ _____	
Initial Site Inspection: _____	Total Fee Collected	\$ _____	
Final Site Inspection: _____	Received By	_____	

List of tree(s) to be removed

Living/Healthy Trees

Number	Species	Diameter

Dead/Diseased Trees

Number	Species	Diameter

List of tree(s) to be replanted

Trees to be replanted

Number	Species	Diameter

Note:

Once a completed tree removal permit has been submitted, reviewed and if approved then the applicant shall place a one-inch wide red, yellow or blue ribbon around the tree which was approved by permit. The ribbon shall include the tree number and species as indicated on the tree removal plan which was submitted.

Twitter (https://www.twitter.com/veronatownship) Facebook (https://www.facebook.com/townshipofverona)

LinkedIn (https://www.linkedin.com/company/township-of-verona) Search icon



Navigation



Related Pages



Tree Maintenance Request Form

Please use this form if you would like to request a new tree or for tree maintenance and questions. Please note, this is only for trees that are on town property and not for trees located on private property.

***Date of Request**

***First Name**

***Last Name**

***Email Address**

***Phone**

Address

Request

File Upload

Choose File No file chosen

I'm not a robot reCAPTCHA Privacy - Terms

Submit

The Township of
Verona
NEW JERSEY

Shade Tree Commission

Contact Shade Tree Commission

The Verona Shade Tree Commission is responsible for the care of our public trees, shrubs, and landscapes. The commission is comprised of volunteers who are residents designated by the Township Manager. Read more about the Shade Tree Commission [HERE](#)

Meeting Information:

Public Shade Tree Commission meetings are held the 2nd Monday of each month at 5:00 p.m. in the Verona Community Center Conference Room, 880 Bloomfield Avenue, Verona, New Jersey.

2020 Meeting Dates:

- Jan 20, 2020 (Monday, from 5pm – 7pm)
- Feb 10, 2020 (Monday, from 5pm – 7pm)
- March 9, 2020 (Monday, from 5pm – 7pm)
- April 13, 2020 (Monday, from 5pm – 7pm)
- May 11, 2020 (Monday, from 5pm – 7pm)
- June 8, 2020 (Monday, from 5pm – 7pm)

Agendas:

- [January 20, 2020](#)

Request for Township planting, pruning, removal, stump removal and tree related emergencies should be made by calling Public Works at 973-857-4804 or online here:

[Tree Maintenance & Request Form](#)

Which trees are Township Trees?

All trees planted in the grass curb strips along most streets are township trees. Township trees can also be found in public recreation areas, rights of way and in a few specific locations just inside the sidewalk. Trees planted along Bloomfield, Grove, Fairview, Pompton, Lakeside and Mt. Prospect avenues are Essex County and State trees. Verona has been a [Tree City](#) for 30 plus consecutive years. This program, sponsored by the Arbor Day Foundation in cooperation with the USDA Forest Service and the National Association of State Foresters, provides assistance, public attention, and national recognition for urban and community forestry programs.

What can you do to help Township trees?

What can you do to help Verona's trees? The most important thing you can do for newly planted trees in the curb strip or on your property is to give them a drink during the summer dry spells. Because of paved streets, sidewalks, and the compacted soil around them, these trees need extra water and care to stay healthy.

- Be careful when weed whacking or mowing your lawn, any damage inflicted is detrimental to young trees.
- Report any limbs that are dead or show signs of rot.
- Report any trees damaged from storms or accidents. DO NOT attempt to trim, treat or repair a tree yourself.
- Do not paint wounds on trees.
- Consult the Shade Tree Commission for guidance if you are planning to plant a tree that may be near a Township tree.
- Be sure to water new trees planted at your home weekly for a least the first year.

Do not place mulch against the tree trunk; keep mulch about 4 inches from the trunk and no more than 3 inches deep. If mulch is placed against the tree bark then disease, rot, unhealthy root growth and rodent or insect injury may result.

During home improvements/construction, residents and contractors are asked to take protective precautions and to be respectful of the Township's trees. Trees should be protected from machine damage to limbs and bark while soil around the base of the tree should not be driven over, thus causing it to become compacted. Also be careful not to damage young trees with lawnmowers and string trimmers.

Benefits of trees

The trees can become your friend if you get to know them. Look at its bark and its leaves to recognize them. Be Friendly to trees!

- Trees improve air quality through photosynthesis.
- Trees provide shade and reduce utility costs.
- Trees prevent erosion of soil.
- Trees enhance privacy.
- Trees reduce noise pollution.
- Trees increase property values as they soften and compliment architecture.
- Add beauty to the environment.
- Reduce human stress.
- Improved neighborhood health and safety.

Getting to know your trees can be fun. Look at the leaves, twigs and bark to recognize the species.

Remember be respectful of our township trees!

Members:

- Giovanni Coppa - Chairperson - Term Ends 12/31/2024
- Bob Prout - Term Ends 12/31/2022
- Sandra Borland - Term Ends 12/31/2021
- Val Ryan - Term Ends 12/31/2021
- Teena Schwartz - Term Ends 12/31/2023
- Sandra Dubowski - Alternate #1 - Term Ends 12/31/2021
- Michael Broadwell - Alternate #2 - Term Ends 12/31/2020
- Jack McEvoy - Council Representative - Term Ends 6/30/2019

The Township of
Verona
NEW JERSEY

Verona Environmental Commission

Contact information

Contact the Environmental Commission

Website: www.veronaec.org

Facebook: www.facebook.com/veronaenvironmental

Twitter: [@GreenVeronaNJ](https://twitter.com/GreenVeronaNJ)

Mailing Address: 600 Bloomfield Ave., Verona, NJ 07044

The Verona Environmental Commission (VEC) was established by Ordinance No. 9-92 in 1992, consistent with state laws creating environmental commissions. The Commission is comprised of seven members (one of whom is also a member of the Planning Board) plus two alternates. All VEC members are Verona residents and serve without compensation. The chairperson and regular members are appointed by the Town Manager, and Alternates are appointed by the governing body. In addition, a member of the Town Council attends commission meetings and acts as a liaison between the Commission and the Council.

Read more about the Environmental Commission here: <https://ecode360.com/12271111>

Public Meetings

VEC public meetings are held on the second Wednesday of each month (except August) from 7:00 pm to 9:00 pm in the Conference Room of the Verona Community Center, 880 Bloomfield Avenue. The public is welcomed to attend. The Commission keeps records of its meetings and activities and makes an annual report to the township governing body.

VEC Meeting Minutes:

- [Visit the VEC Minutes Page](#)

What the VEC does?

The role of the Commission is to study, evaluate and make recommendations to the Township Council and the Planning Board regarding local environmental issues, including (but not limited to) preservation and use of parks and other open spaces; clean water resources; stormwater

management; air, noise, and light pollution; solid waste management and recycling; energy conservation and renewable energy resources; transportation and circulation planning; and protection of flora, fauna, soil and landscape throughout the Township.

The Commission reviews all applications sent to the Planning Board and the Board of Adjustment to evaluate their impact on the environment. The VEC also provides environmental information and programs for residents; coordinates activities of unofficial bodies organized for similar purposes; and recruits and manages volunteerism and professional expertise. The VEC may, subject to the approval of the governing body, acquire and administer property in the name of the township. The Verona Environmental Commission is committed to sustainability. It is expected that implementing sustainability programs and projects in Verona will result in long-term cost savings, improved health for residents and municipal employees, preservation of property values, energy conservation to reduce our town's contribution to climate change, plus additional quality of life benefits.

VEC Accomplishments

- Received Environmental Achievement Awards from the Association of N.J. Environmental Commissions (ANJEC) in 2009, 2012 and 2014 & 2016.
- Was presented the 2010 Community Service Recognition at the Verona Mayor's Annual Charity Affair.
- Sponsored annual poster contests on idling and sustainability at all Verona's public schools.
- Organized annual Peckman River cleanups and won an open space grant from ANJEC to preserve the Peckman trail in 2014.
- Joined forces with the Junior Woman's Club of Verona and Verona Historical Society to create Grove Park in 2015.
- Hosted a tree seedling giveaway at Grove Park, as part of the 2016 New Jersey Tree Recovery Campaign.
- Participated in Verona's Fair in the Square, Volunteer Night and Green Fair.
- At the VEC encouragement the Town Council joined the program Sustainable Jersey in 2014; adopted an Anti Idling resolution in 2015; and approved a Steep Slope Ordinance in 2016.

Environmental Commission Members

- Jessica Pearson - Chairperson - 6/30/2021
- Sean DiBartolo - 6/30/2022
- Frank Ceccacci - 6/30/2021
- Michael Auteri - 6/30/2022
- Sarah Yauch O'Farrell - 6/30/2020
- Kari Baureis - 6/30/2020
- Martin Golan - 6/30/2020
- Fuad Dahan - 6/30/2020
- Christine McGrath - Council Representative - 6/30/2020

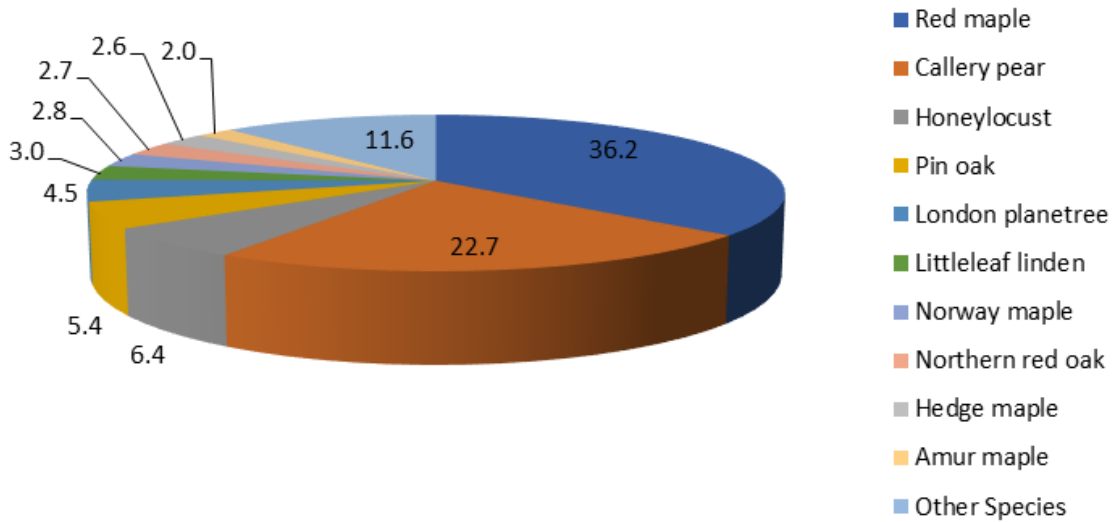
Complete Population of All Trees

9/24/2019

Species	DBH Class (in)								Total Standard Error	
	0-3	3-6	6-12	12-18	18-24	24-30	30-36	36-42		> 42
Conifer Evergreen Large (CEL)										
Eastern white pine	0	1	3	1	1	1	0	0	0	7 (±0)
Douglas fir	0	0	1	1	2	0	0	0	0	4 (±0)
Spruce	0	0	0	0	1	1	0	0	0	2 (±0)
Japanese red cedar	0	1	0	0	0	0	0	0	0	1 (±0)
Deodar cedar	0	0	0	0	1	0	0	0	0	1 (±0)
Total	0	2	4	2	5	2	0	0	0	15 (±0)
Conifer Evergreen Medium (CEM)										
Eastern red cedar	0	0	1	0	0	0	0	0	0	1 (±0)
Total	0	0	1	0	0	0	0	0	0	1 (±0)
Palm Evergreen Medium (PEM)										
Cabbage palmetto	0	1	2	2	0	0	0	0	0	5 (±0)
Total	0	1	2	2	0	0	0	0	0	5 (±0)
Grand Total	119	425	699	307	307	181	104	52	26	2,220 (±0)

Species Distribution of All Trees

9/24/2019



Species	Percent
Red maple	36.2
Callery pear	22.7
Honeylocust	6.4
Pin oak	5.4
London planetree	4.5
Littleleaf linden	3.0
Norway maple	2.8
Northern red oak	2.7
Hedge maple	2.6
Amur maple	2.0
Other Species	11.6
Total	100.0

Verona

Relative Performance Index for All Trees

9/24/2019

Species	Dead or Dying	Poor	Fair	Good	RPI	# of Standard Trees Error	% of All
Red maple	0.75	6.60	30.64	62.02	1.09	803 (N/A)	36.17
Callery pear	2.38	14.65	58.61	24.36	0.91	505 (N/A)	22.75
Honeylocust	0.00	4.93	83.80	11.27	0.92	142 (N/A)	6.40
Pin oak	2.50	9.17	45.00	43.33	1.00	120 (N/A)	5.41
London planetree	0.00	7.00	22.00	71.00	1.12	100 (N/A)	4.50
Littleleaf linden	1.52	21.21	46.97	30.30	0.92	66 (N/A)	2.97
Norway maple	6.45	45.16	45.16	3.23	0.69	62 (N/A)	2.79
Northern red oak	1.64	11.48	77.05	9.84	0.87	61 (N/A)	2.75
Hedge maple	3.45	6.90	24.14	65.52	1.09	58 (N/A)	2.61
Amur maple	0.00	20.00	26.67	53.33	1.03	45 (N/A)	2.03
Oak	0.00	0.00	7.41	92.59	1.04	27 (N/A)	1.22
Greenspire littleleaf linden	0.00	20.83	54.17	25.00	0.92	24 (N/A)	1.08
Sweetgum	0.00	10.00	80.00	10.00	0.87	20 (N/A)	0.90
Trident maple	0.00	5.00	20.00	75.00	1.16	20 (N/A)	0.90
Kwanzan cherry	5.88	29.41	35.29	29.41	0.85	17 (N/A)	0.77
Ash	0.00	15.38	23.08	61.54	1.05	13 (N/A)	0.59
Dogwood	0.00	27.27	18.18	54.55	0.97	11 (N/A)	0.50
Silver maple	0.00	0.00	70.00	30.00	0.98	10 (N/A)	0.45
Red horsechestnut	0.00	30.00	30.00	40.00	0.94	10 (N/A)	0.45
Holly	0.00	0.00	0.00	100.00	1.28	10 (N/A)	0.45
Japanese pagoda tree	0.00	12.50	87.50	0.00	0.86	8 (N/A)	0.36
Maple	0.00	0.00	14.29	85.71	1.23	7 (N/A)	0.32
Zelkova	0.00	14.29	28.57	57.14	1.06	7 (N/A)	0.32
Eastern white pine	0.00	14.29	57.14	28.57	0.96	7 (N/A)	0.32
Cabbage palmetto	0.00	40.00	60.00	0.00	0.75	5 (N/A)	0.23
Japanese hornbeam	0.00	60.00	0.00	40.00	0.83	5 (N/A)	0.23
Douglas fir	25.00	25.00	25.00	25.00	0.72	4 (N/A)	0.18
October glory red maple	0.00	66.67	0.00	33.33	0.78	3 (N/A)	0.14
Flowering plum	0.00	0.00	66.67	33.33	1.03	3 (N/A)	0.14
Sycamore maple	0.00	0.00	33.33	66.67	1.15	3 (N/A)	0.14
Sugar maple	0.00	66.67	33.33	0.00	0.65	3 (N/A)	0.14
Horsechestnut	0.00	33.33	66.67	0.00	0.78	3 (N/A)	0.14
Eastern redbud	0.00	0.00	0.00	100.00	1.20	3 (N/A)	0.14
White ash	33.33	33.33	33.33	0.00	0.53	3 (N/A)	0.14
Plum	0.00	0.00	66.67	33.33	1.03	3 (N/A)	0.14
Lombardy poplar	0.00	0.00	0.00	100.00	1.19	2 (N/A)	0.09
American sycamore	0.00	50.00	0.00	50.00	0.90	2 (N/A)	0.09
Magnolia	0.00	0.00	50.00	50.00	1.09	2 (N/A)	0.09
White oak	0.00	0.00	50.00	50.00	1.09	2 (N/A)	0.09
Crimson king maple	0.00	50.00	50.00	0.00	0.72	2 (N/A)	0.09
Spruce	0.00	0.00	100.00	0.00	0.90	2 (N/A)	0.09
River birch	0.00	0.00	50.00	50.00	1.09	2 (N/A)	0.09
Eastern red cedar	0.00	0.00	0.00	100.00	1.09	1 (N/A)	0.05
Black cherry	0.00	0.00	100.00	0.00	0.90	1 (N/A)	0.05
Sawtooth oak	0.00	0.00	0.00	100.00	1.28	1 (N/A)	0.05
Flowering dogwood	0.00	0.00	100.00	0.00	0.90	1 (N/A)	0.05
Ginkgo	0.00	0.00	0.00	100.00	1.28	1 (N/A)	0.05
Elm	0.00	0.00	100.00	0.00	0.90	1 (N/A)	0.05
Deodar cedar	0.00	0.00	100.00	0.00	0.90	1 (N/A)	0.05
Japanese red cedar	0.00	0.00	0.00	100.00	1.28	1 (N/A)	0.05
Yoshino flowering cherry	0.00	0.00	0.00	100.00	1.28	1 (N/A)	0.05
Japanese snowbell	0.00	0.00	100.00	0.00	0.90	1 (N/A)	0.05
European white birch	100.00	0.00	0.00	0.00	0.15	1 (N/A)	0.05
Black walnut	0.00	0.00	100.00	0.00	0.90	1 (N/A)	0.05
Bitternut hickory	0.00	0.00	100.00	0.00	0.90	1 (N/A)	0.05
Northern catalpa	0.00	0.00	100.00	0.00	0.90	1 (N/A)	0.05
Swamp white oak	0.00	0.00	0.00	100.00	1.28	1 (N/A)	0.05

Relative Performance Index for All Trees

9/24/2019

Species	Dead or Dying	Poor	Fair	Good	RPI	# of Standard Trees Error	% of All
Citywide	1.49	11.35	43.51	43.65	1.00	2,220 (N/A)	100.00

Sidewalk Heave Conflicts by Species for All Trees

9/24/2019

Species	Conflict	Tree Count	Standard Error	% of Species	% of All Trees
American sycamore	0 - 3/4 inches	0	(N/A)	0.00	0.00
	3/4 - 1 1/2 inches	0	(N/A)	0.00	0.00
	>1 1/2 inches	0	(N/A)	0.00	0.00
	Total	0	(N/A)	0.00	0.00
Amur maple	0 - 3/4 inches	28	(N/A)	62.22	1.26
	3/4 - 1 1/2 inches	8	(N/A)	17.78	0.36
	>1 1/2 inches	2	(N/A)	4.44	0.09
	Total	38	(N/A)	84.44	1.71
Ash	0 - 3/4 inches	3	(N/A)	23.08	0.14
	3/4 - 1 1/2 inches	1	(N/A)	7.69	0.05
	>1 1/2 inches	0	(N/A)	0.00	0.00
	Total	4	(N/A)	30.77	0.18
Bitternut hickory	0 - 3/4 inches	0	(N/A)	0.00	0.00
	3/4 - 1 1/2 inches	0	(N/A)	0.00	0.00
	>1 1/2 inches	0	(N/A)	0.00	0.00
	Total	0	(N/A)	0.00	0.00
Black cherry	0 - 3/4 inches	1	(N/A)	100.00	0.05
	3/4 - 1 1/2 inches	0	(N/A)	0.00	0.00
	>1 1/2 inches	0	(N/A)	0.00	0.00
	Total	1	(N/A)	100.00	0.05
Black walnut	0 - 3/4 inches	0	(N/A)	0.00	0.00
	3/4 - 1 1/2 inches	0	(N/A)	0.00	0.00
	>1 1/2 inches	0	(N/A)	0.00	0.00
	Total	0	(N/A)	0.00	0.00
Cabbage palmetto	0 - 3/4 inches	1	(N/A)	20.00	0.05
	3/4 - 1 1/2 inches	2	(N/A)	40.00	0.09
	>1 1/2 inches	2	(N/A)	40.00	0.09
	Total	5	(N/A)	100.00	0.23
Callery pear	0 - 3/4 inches	271	(N/A)	53.66	12.21
	3/4 - 1 1/2 inches	62	(N/A)	12.28	2.79
	>1 1/2 inches	37	(N/A)	7.33	1.67
	Total	370	(N/A)	73.27	16.67
Crimson king maple	0 - 3/4 inches	0	(N/A)	0.00	0.00
	3/4 - 1 1/2 inches	0	(N/A)	0.00	0.00
	>1 1/2 inches	1	(N/A)	50.00	0.05
	Total	1	(N/A)	50.00	0.05
Deodar cedar	0 - 3/4 inches	0	(N/A)	0.00	0.00
	3/4 - 1 1/2 inches	0	(N/A)	0.00	0.00
	>1 1/2 inches	0	(N/A)	0.00	0.00
	Total	0	(N/A)	0.00	0.00
Dogwood	0 - 3/4 inches	6	(N/A)	54.55	0.27
	3/4 - 1 1/2 inches	1	(N/A)	9.09	0.05
	>1 1/2 inches	1	(N/A)	9.09	0.05
	Total	8	(N/A)	72.73	0.36
Douglas fir	0 - 3/4 inches	0	(N/A)	0.00	0.00
	3/4 - 1 1/2 inches	1	(N/A)	25.00	0.05
	>1 1/2 inches	0	(N/A)	0.00	0.00
	Total	1	(N/A)	25.00	0.05
Eastern red cedar	0 - 3/4 inches	1	(N/A)	100.00	0.05
	3/4 - 1 1/2 inches	0	(N/A)	0.00	0.00
	>1 1/2 inches	0	(N/A)	0.00	0.00
	Total	1	(N/A)	100.00	0.05
Eastern redbud	0 - 3/4 inches	0	(N/A)	0.00	0.00
	3/4 - 1 1/2 inches	0	(N/A)	0.00	0.00
	>1 1/2 inches	0	(N/A)	0.00	0.00
	Total	0	(N/A)	0.00	0.00

Sidewalk Heave Conflicts by Species for All Trees

9/24/2019

Species	Conflict	Tree Count	Standard Error	% of Species	% of All Trees
Eastern white pine	0 - 3/4 inches	0	(N/A)	0.00	0.00
	3/4 - 1 1/2 inches	0	(N/A)	0.00	0.00
	>1 1/2 inches	0	(N/A)	0.00	0.00
	Total	0	(N/A)	0.00	0.00
Elm	0 - 3/4 inches	1	(N/A)	100.00	0.05
	3/4 - 1 1/2 inches	0	(N/A)	0.00	0.00
	>1 1/2 inches	0	(N/A)	0.00	0.00
	Total	1	(N/A)	100.00	0.05
European white birch	0 - 3/4 inches	0	(N/A)	0.00	0.00
	3/4 - 1 1/2 inches	0	(N/A)	0.00	0.00
	>1 1/2 inches	0	(N/A)	0.00	0.00
	Total	0	(N/A)	0.00	0.00
Flowering dogwood	0 - 3/4 inches	1	(N/A)	100.00	0.05
	3/4 - 1 1/2 inches	0	(N/A)	0.00	0.00
	>1 1/2 inches	0	(N/A)	0.00	0.00
	Total	1	(N/A)	100.00	0.05
Flowering plum	0 - 3/4 inches	2	(N/A)	66.67	0.09
	3/4 - 1 1/2 inches	0	(N/A)	0.00	0.00
	>1 1/2 inches	0	(N/A)	0.00	0.00
	Total	2	(N/A)	66.67	0.09
Ginkgo	0 - 3/4 inches	1	(N/A)	100.00	0.05
	3/4 - 1 1/2 inches	0	(N/A)	0.00	0.00
	>1 1/2 inches	0	(N/A)	0.00	0.00
	Total	1	(N/A)	100.00	0.05
Greenspire littleleaf linden	0 - 3/4 inches	8	(N/A)	33.33	0.36
	3/4 - 1 1/2 inches	10	(N/A)	41.67	0.45
	>1 1/2 inches	2	(N/A)	8.33	0.09
	Total	20	(N/A)	83.33	0.90
Hedge maple	0 - 3/4 inches	40	(N/A)	68.97	1.80
	3/4 - 1 1/2 inches	6	(N/A)	10.34	0.27
	>1 1/2 inches	2	(N/A)	3.45	0.09
	Total	48	(N/A)	82.76	2.16
Holly	0 - 3/4 inches	0	(N/A)	0.00	0.00
	3/4 - 1 1/2 inches	0	(N/A)	0.00	0.00
	>1 1/2 inches	0	(N/A)	0.00	0.00
	Total	0	(N/A)	0.00	0.00
Honeylocust	0 - 3/4 inches	32	(N/A)	22.54	1.44
	3/4 - 1 1/2 inches	46	(N/A)	32.39	2.07
	>1 1/2 inches	57	(N/A)	40.14	2.57
	Total	135	(N/A)	95.07	6.08
Horsechestnut	0 - 3/4 inches	2	(N/A)	66.67	0.09
	3/4 - 1 1/2 inches	0	(N/A)	0.00	0.00
	>1 1/2 inches	0	(N/A)	0.00	0.00
	Total	2	(N/A)	66.67	0.09
Japanese hornbeam	0 - 3/4 inches	0	(N/A)	0.00	0.00
	3/4 - 1 1/2 inches	0	(N/A)	0.00	0.00
	>1 1/2 inches	0	(N/A)	0.00	0.00
	Total	0	(N/A)	0.00	0.00
Japanese pagoda tree	0 - 3/4 inches	3	(N/A)	37.50	0.14
	3/4 - 1 1/2 inches	2	(N/A)	25.00	0.09
	>1 1/2 inches	2	(N/A)	25.00	0.09
	Total	7	(N/A)	87.50	0.32
Japanese red cedar	0 - 3/4 inches	0	(N/A)	0.00	0.00
	3/4 - 1 1/2 inches	0	(N/A)	0.00	0.00
	>1 1/2 inches	0	(N/A)	0.00	0.00
	Total	0	(N/A)	0.00	0.00

Sidewalk Heave Conflicts by Species for All Trees

9/24/2019

Species	Conflict	Tree Count	Standard Error	% of Species	% of All Trees
Japanese snowbell	0 - 3/4 inches	0	(N/A)	0.00	0.00
	3/4 - 1 1/2 inches	0	(N/A)	0.00	0.00
	>1 1/2 inches	0	(N/A)	0.00	0.00
	Total	0	(N/A)	0.00	0.00
Kwanzan cherry	0 - 3/4 inches	7	(N/A)	41.18	0.32
	3/4 - 1 1/2 inches	3	(N/A)	17.65	0.14
	>1 1/2 inches	1	(N/A)	5.88	0.05
	Total	11	(N/A)	64.71	0.50
Littleleaf linden	0 - 3/4 inches	12	(N/A)	18.18	0.54
	3/4 - 1 1/2 inches	14	(N/A)	21.21	0.63
	>1 1/2 inches	12	(N/A)	18.18	0.54
	Total	38	(N/A)	57.58	1.71
Lombardy poplar	0 - 3/4 inches	1	(N/A)	50.00	0.05
	3/4 - 1 1/2 inches	1	(N/A)	50.00	0.05
	>1 1/2 inches	0	(N/A)	0.00	0.00
	Total	2	(N/A)	100.00	0.09
London planetree	0 - 3/4 inches	51	(N/A)	51.00	2.30
	3/4 - 1 1/2 inches	22	(N/A)	22.00	0.99
	>1 1/2 inches	4	(N/A)	4.00	0.18
	Total	77	(N/A)	77.00	3.47
Magnolia	0 - 3/4 inches	0	(N/A)	0.00	0.00
	3/4 - 1 1/2 inches	0	(N/A)	0.00	0.00
	>1 1/2 inches	0	(N/A)	0.00	0.00
	Total	0	(N/A)	0.00	0.00
Maple	0 - 3/4 inches	2	(N/A)	28.57	0.09
	3/4 - 1 1/2 inches	0	(N/A)	0.00	0.00
	>1 1/2 inches	0	(N/A)	0.00	0.00
	Total	2	(N/A)	28.57	0.09
Northern catalpa	0 - 3/4 inches	0	(N/A)	0.00	0.00
	3/4 - 1 1/2 inches	0	(N/A)	0.00	0.00
	>1 1/2 inches	0	(N/A)	0.00	0.00
	Total	0	(N/A)	0.00	0.00
Northern red oak	0 - 3/4 inches	24	(N/A)	39.34	1.08
	3/4 - 1 1/2 inches	16	(N/A)	26.23	0.72
	>1 1/2 inches	20	(N/A)	32.79	0.90
	Total	60	(N/A)	98.36	2.70
Norway maple	0 - 3/4 inches	22	(N/A)	35.48	0.99
	3/4 - 1 1/2 inches	7	(N/A)	11.29	0.32
	>1 1/2 inches	3	(N/A)	4.84	0.14
	Total	32	(N/A)	51.61	1.44
Oak	0 - 3/4 inches	3	(N/A)	11.11	0.14
	3/4 - 1 1/2 inches	3	(N/A)	11.11	0.14
	>1 1/2 inches	2	(N/A)	7.41	0.09
	Total	8	(N/A)	29.63	0.36
October glory red maple	0 - 3/4 inches	2	(N/A)	66.67	0.09
	3/4 - 1 1/2 inches	0	(N/A)	0.00	0.00
	>1 1/2 inches	0	(N/A)	0.00	0.00
	Total	2	(N/A)	66.67	0.09
Pin oak	0 - 3/4 inches	30	(N/A)	25.00	1.35
	3/4 - 1 1/2 inches	40	(N/A)	33.33	1.80
	>1 1/2 inches	41	(N/A)	34.17	1.85
	Total	111	(N/A)	92.50	5.00
Plum	0 - 3/4 inches	0	(N/A)	0.00	0.00
	3/4 - 1 1/2 inches	0	(N/A)	0.00	0.00
	>1 1/2 inches	0	(N/A)	0.00	0.00
	Total	0	(N/A)	0.00	0.00

Sidewalk Heave Conflicts by Species for All Trees

9/24/2019

Species	Conflict	Tree Count	Standard Error	% of Species	% of All Trees
Red horsechestnut	0 - 3/4 inches	8	(N/A)	80.00	0.36
	3/4 - 1 1/2 inches	0	(N/A)	0.00	0.00
	>1 1/2 inches	1	(N/A)	10.00	0.05
	Total	9	(N/A)	90.00	0.41
Red maple	0 - 3/4 inches	402	(N/A)	50.06	18.11
	3/4 - 1 1/2 inches	114	(N/A)	14.20	5.14
	>1 1/2 inches	46	(N/A)	5.73	2.07
	Total	562	(N/A)	69.99	25.32
River birch	0 - 3/4 inches	0	(N/A)	0.00	0.00
	3/4 - 1 1/2 inches	0	(N/A)	0.00	0.00
	>1 1/2 inches	0	(N/A)	0.00	0.00
	Total	0	(N/A)	0.00	0.00
Sawtooth oak	0 - 3/4 inches	1	(N/A)	100.00	0.05
	3/4 - 1 1/2 inches	0	(N/A)	0.00	0.00
	>1 1/2 inches	0	(N/A)	0.00	0.00
	Total	1	(N/A)	100.00	0.05
Silver maple	0 - 3/4 inches	7	(N/A)	70.00	0.32
	3/4 - 1 1/2 inches	1	(N/A)	10.00	0.05
	>1 1/2 inches	0	(N/A)	0.00	0.00
	Total	8	(N/A)	80.00	0.36
Spruce	0 - 3/4 inches	0	(N/A)	0.00	0.00
	3/4 - 1 1/2 inches	0	(N/A)	0.00	0.00
	>1 1/2 inches	0	(N/A)	0.00	0.00
	Total	0	(N/A)	0.00	0.00
Sugar maple	0 - 3/4 inches	2	(N/A)	66.67	0.09
	3/4 - 1 1/2 inches	0	(N/A)	0.00	0.00
	>1 1/2 inches	0	(N/A)	0.00	0.00
	Total	2	(N/A)	66.67	0.09
Swamp white oak	0 - 3/4 inches	0	(N/A)	0.00	0.00
	3/4 - 1 1/2 inches	0	(N/A)	0.00	0.00
	>1 1/2 inches	0	(N/A)	0.00	0.00
	Total	0	(N/A)	0.00	0.00
Sweetgum	0 - 3/4 inches	4	(N/A)	20.00	0.18
	3/4 - 1 1/2 inches	3	(N/A)	15.00	0.14
	>1 1/2 inches	8	(N/A)	40.00	0.36
	Total	15	(N/A)	75.00	0.68
Sycamore maple	0 - 3/4 inches	1	(N/A)	33.33	0.05
	3/4 - 1 1/2 inches	0	(N/A)	0.00	0.00
	>1 1/2 inches	0	(N/A)	0.00	0.00
	Total	1	(N/A)	33.33	0.05
Trident maple	0 - 3/4 inches	10	(N/A)	50.00	0.45
	3/4 - 1 1/2 inches	6	(N/A)	30.00	0.27
	>1 1/2 inches	2	(N/A)	10.00	0.09
	Total	18	(N/A)	90.00	0.81
White ash	0 - 3/4 inches	0	(N/A)	0.00	0.00
	3/4 - 1 1/2 inches	2	(N/A)	66.67	0.09
	>1 1/2 inches	1	(N/A)	33.33	0.05
	Total	3	(N/A)	100.00	0.14
White oak	0 - 3/4 inches	0	(N/A)	0.00	0.00
	3/4 - 1 1/2 inches	0	(N/A)	0.00	0.00
	>1 1/2 inches	0	(N/A)	0.00	0.00
	Total	0	(N/A)	0.00	0.00
Yoshino flowering cherry	0 - 3/4 inches	0	(N/A)	0.00	0.00
	3/4 - 1 1/2 inches	0	(N/A)	0.00	0.00
	>1 1/2 inches	0	(N/A)	0.00	0.00
	Total	0	(N/A)	0.00	0.00

Sidewalk Heave Conflicts by Species for All Trees

9/24/2019

Species	Conflict	Tree Count	Standard Error	% of Species	% of All Trees
Zelkova	0 - 3/4 inches	2	(N/A)	28.57	0.09
	3/4 - 1 1/2 inches	0	(N/A)	0.00	0.00
	>1 1/2 inches	1	(N/A)	14.29	0.05
	Total	3	(N/A)	42.86	0.14

Structural (Woody) Condition of All Trees by Species

9/24/2019

Species	Condition	Tree Count	Standard Error	% of Species	% of All Trees
American sycamore	Dead or Dying	0	(N/A)	0.00	0.00
	Poor	1	(N/A)	50.00	0.05
	Fair	0	(N/A)	0.00	0.00
	Good	1	(N/A)	50.00	0.05
	Total	2	(N/A)	100.00	0.09
Amur maple	Dead or Dying	0	(N/A)	0.00	0.00
	Poor	9	(N/A)	20.00	0.41
	Fair	12	(N/A)	26.67	0.54
	Good	24	(N/A)	53.33	1.08
	Total	45	(N/A)	100.00	2.03
Ash	Dead or Dying	0	(N/A)	0.00	0.00
	Poor	2	(N/A)	15.38	0.09
	Fair	3	(N/A)	23.08	0.14
	Good	7	(N/A)	53.85	0.32
	Total	12	(N/A)	92.31	0.54
Bitternut hickory	Dead or Dying	0	(N/A)	0.00	0.00
	Poor	0	(N/A)	0.00	0.00
	Fair	1	(N/A)	100.00	0.05
	Good	0	(N/A)	0.00	0.00
	Total	1	(N/A)	100.00	0.05
Black cherry	Dead or Dying	0	(N/A)	0.00	0.00
	Poor	1	(N/A)	100.00	0.05
	Fair	0	(N/A)	0.00	0.00
	Good	0	(N/A)	0.00	0.00
	Total	1	(N/A)	100.00	0.05
Black walnut	Dead or Dying	0	(N/A)	0.00	0.00
	Poor	0	(N/A)	0.00	0.00
	Fair	1	(N/A)	100.00	0.05
	Good	0	(N/A)	0.00	0.00
	Total	1	(N/A)	100.00	0.05
Cabbage palmetto	Dead or Dying	0	(N/A)	0.00	0.00
	Poor	2	(N/A)	40.00	0.09
	Fair	3	(N/A)	60.00	0.14
	Good	0	(N/A)	0.00	0.00
	Total	5	(N/A)	100.00	0.23
Callery pear	Dead or Dying	12	(N/A)	2.38	0.54
	Poor	83	(N/A)	16.44	3.74
	Fair	295	(N/A)	58.42	13.29
	Good	102	(N/A)	20.20	4.59
	Total	492	(N/A)	97.43	22.16
Crimson king maple	Dead or Dying	0	(N/A)	0.00	0.00
	Poor	1	(N/A)	50.00	0.05
	Fair	1	(N/A)	50.00	0.05
	Good	0	(N/A)	0.00	0.00
	Total	2	(N/A)	100.00	0.09
Deodar cedar	Dead or Dying	0	(N/A)	0.00	0.00
	Poor	0	(N/A)	0.00	0.00
	Fair	1	(N/A)	100.00	0.05
	Good	0	(N/A)	0.00	0.00
	Total	1	(N/A)	100.00	0.05
Dogwood	Dead or Dying	1	(N/A)	9.09	0.05
	Poor	2	(N/A)	18.18	0.09
	Fair	3	(N/A)	27.27	0.14
	Good	5	(N/A)	45.45	0.23
	Total	11	(N/A)	100.00	0.50

Structural (Woody) Condition of All Trees by Species

9/24/2019

Species	Condition	Tree Count	Standard Error	% of Species	% of All Trees
Douglas fir	Dead or Dying	1	(N/A)	25.00	0.05
	Poor	1	(N/A)	25.00	0.05
	Fair	1	(N/A)	25.00	0.05
	Good	1	(N/A)	25.00	0.05
	Total	4	(N/A)	100.00	0.18
Eastern red cedar	Dead or Dying	0	(N/A)	0.00	0.00
	Poor	0	(N/A)	0.00	0.00
	Fair	1	(N/A)	100.00	0.05
	Good	0	(N/A)	0.00	0.00
	Total	1	(N/A)	100.00	0.05
Eastern redbud	Dead or Dying	0	(N/A)	0.00	0.00
	Poor	0	(N/A)	0.00	0.00
	Fair	0	(N/A)	0.00	0.00
	Good	2	(N/A)	66.67	0.09
	Total	2	(N/A)	66.67	0.09
Eastern white pine	Dead or Dying	0	(N/A)	0.00	0.00
	Poor	1	(N/A)	14.29	0.05
	Fair	4	(N/A)	57.14	0.18
	Good	2	(N/A)	28.57	0.09
	Total	7	(N/A)	100.00	0.32
Elm	Dead or Dying	0	(N/A)	0.00	0.00
	Poor	0	(N/A)	0.00	0.00
	Fair	1	(N/A)	100.00	0.05
	Good	0	(N/A)	0.00	0.00
	Total	1	(N/A)	100.00	0.05
European white birch	Dead or Dying	1	(N/A)	100.00	0.05
	Poor	0	(N/A)	0.00	0.00
	Fair	0	(N/A)	0.00	0.00
	Good	0	(N/A)	0.00	0.00
	Total	1	(N/A)	100.00	0.05
Flowering dogwood	Dead or Dying	0	(N/A)	0.00	0.00
	Poor	0	(N/A)	0.00	0.00
	Fair	0	(N/A)	0.00	0.00
	Good	1	(N/A)	100.00	0.05
	Total	1	(N/A)	100.00	0.05
Flowering plum	Dead or Dying	0	(N/A)	0.00	0.00
	Poor	1	(N/A)	33.33	0.05
	Fair	1	(N/A)	33.33	0.05
	Good	1	(N/A)	33.33	0.05
	Total	3	(N/A)	100.00	0.14
Ginkgo	Dead or Dying	0	(N/A)	0.00	0.00
	Poor	0	(N/A)	0.00	0.00
	Fair	0	(N/A)	0.00	0.00
	Good	1	(N/A)	100.00	0.05
	Total	1	(N/A)	100.00	0.05
Greenspire littleleaf linden	Dead or Dying	0	(N/A)	0.00	0.00
	Poor	5	(N/A)	20.83	0.23
	Fair	13	(N/A)	54.17	0.59
	Good	6	(N/A)	25.00	0.27
	Total	24	(N/A)	100.00	1.08
Hedge maple	Dead or Dying	2	(N/A)	3.45	0.09
	Poor	5	(N/A)	8.62	0.23
	Fair	13	(N/A)	22.41	0.59
	Good	37	(N/A)	63.79	1.67
	Total	57	(N/A)	98.28	2.57

Structural (Woody) Condition of All Trees by Species

9/24/2019

Species	Condition	Tree Count	Standard Error	% of Species	% of All Trees
Holly	Dead or Dying	0	(N/A)	0.00	0.00
	Poor	0	(N/A)	0.00	0.00
	Fair	0	(N/A)	0.00	0.00
	Good	10	(N/A)	100.00	0.45
	Total	10	(N/A)	100.00	0.45
Honeylocust	Dead or Dying	0	(N/A)	0.00	0.00
	Poor	7	(N/A)	4.93	0.32
	Fair	120	(N/A)	84.51	5.41
	Good	12	(N/A)	8.45	0.54
	Total	139	(N/A)	97.89	6.26
Horsechestnut	Dead or Dying	0	(N/A)	0.00	0.00
	Poor	1	(N/A)	33.33	0.05
	Fair	2	(N/A)	66.67	0.09
	Good	0	(N/A)	0.00	0.00
	Total	3	(N/A)	100.00	0.14
Japanese hornbeam	Dead or Dying	0	(N/A)	0.00	0.00
	Poor	3	(N/A)	60.00	0.14
	Fair	0	(N/A)	0.00	0.00
	Good	2	(N/A)	40.00	0.09
	Total	5	(N/A)	100.00	0.23
Japanese pagoda tree	Dead or Dying	0	(N/A)	0.00	0.00
	Poor	1	(N/A)	12.50	0.05
	Fair	7	(N/A)	87.50	0.32
	Good	0	(N/A)	0.00	0.00
	Total	8	(N/A)	100.00	0.36
Japanese red cedar	Dead or Dying	0	(N/A)	0.00	0.00
	Poor	0	(N/A)	0.00	0.00
	Fair	0	(N/A)	0.00	0.00
	Good	1	(N/A)	100.00	0.05
	Total	1	(N/A)	100.00	0.05
Japanese snowbell	Dead or Dying	0	(N/A)	0.00	0.00
	Poor	0	(N/A)	0.00	0.00
	Fair	1	(N/A)	100.00	0.05
	Good	0	(N/A)	0.00	0.00
	Total	1	(N/A)	100.00	0.05
Kwanzan cherry	Dead or Dying	1	(N/A)	5.88	0.05
	Poor	5	(N/A)	29.41	0.23
	Fair	7	(N/A)	41.18	0.32
	Good	4	(N/A)	23.53	0.18
	Total	17	(N/A)	100.00	0.77
Littleleaf linden	Dead or Dying	1	(N/A)	1.52	0.05
	Poor	15	(N/A)	22.73	0.68
	Fair	31	(N/A)	46.97	1.40
	Good	19	(N/A)	28.79	0.86
	Total	66	(N/A)	100.00	2.97
Lombardy poplar	Dead or Dying	0	(N/A)	0.00	0.00
	Poor	0	(N/A)	0.00	0.00
	Fair	1	(N/A)	50.00	0.05
	Good	1	(N/A)	50.00	0.05
	Total	2	(N/A)	100.00	0.09
London planetree	Dead or Dying	0	(N/A)	0.00	0.00
	Poor	11	(N/A)	11.00	0.50
	Fair	24	(N/A)	24.00	1.08
	Good	65	(N/A)	65.00	2.93
	Total	100	(N/A)	100.00	4.50

Structural (Woody) Condition of All Trees by Species

9/24/2019

Species	Condition	Tree Count	Standard Error	% of Species	% of All Trees
Magnolia	Dead or Dying	0	(N/A)	0.00	0.00
	Poor	0	(N/A)	0.00	0.00
	Fair	1	(N/A)	50.00	0.05
	Good	1	(N/A)	50.00	0.05
	Total	2	(N/A)	100.00	0.09
Maple	Dead or Dying	0	(N/A)	0.00	0.00
	Poor	0	(N/A)	0.00	0.00
	Fair	1	(N/A)	14.29	0.05
	Good	6	(N/A)	85.71	0.27
	Total	7	(N/A)	100.00	0.32
Northern catalpa	Dead or Dying	0	(N/A)	0.00	0.00
	Poor	0	(N/A)	0.00	0.00
	Fair	1	(N/A)	100.00	0.05
	Good	0	(N/A)	0.00	0.00
	Total	1	(N/A)	100.00	0.05
Northern red oak	Dead or Dying	1	(N/A)	1.64	0.05
	Poor	7	(N/A)	11.48	0.32
	Fair	48	(N/A)	78.69	2.16
	Good	2	(N/A)	3.28	0.09
	Total	58	(N/A)	95.08	2.61
Norway maple	Dead or Dying	4	(N/A)	6.45	0.18
	Poor	30	(N/A)	48.39	1.35
	Fair	27	(N/A)	43.55	1.22
	Good	1	(N/A)	1.61	0.05
	Total	62	(N/A)	100.00	2.79
Oak	Dead or Dying	0	(N/A)	0.00	0.00
	Poor	0	(N/A)	0.00	0.00
	Fair	2	(N/A)	7.41	0.09
	Good	0	(N/A)	0.00	0.00
	Total	2	(N/A)	7.41	0.09
October glory red maple	Dead or Dying	0	(N/A)	0.00	0.00
	Poor	2	(N/A)	66.67	0.09
	Fair	0	(N/A)	0.00	0.00
	Good	1	(N/A)	33.33	0.05
	Total	3	(N/A)	100.00	0.14
Pin oak	Dead or Dying	3	(N/A)	2.50	0.14
	Poor	12	(N/A)	10.00	0.54
	Fair	54	(N/A)	45.00	2.43
	Good	47	(N/A)	39.17	2.12
	Total	116	(N/A)	96.67	5.23
Plum	Dead or Dying	0	(N/A)	0.00	0.00
	Poor	0	(N/A)	0.00	0.00
	Fair	2	(N/A)	66.67	0.09
	Good	1	(N/A)	33.33	0.05
	Total	3	(N/A)	100.00	0.14
Red horsechestnut	Dead or Dying	0	(N/A)	0.00	0.00
	Poor	3	(N/A)	30.00	0.14
	Fair	3	(N/A)	30.00	0.14
	Good	3	(N/A)	30.00	0.14
	Total	9	(N/A)	90.00	0.41
Red maple	Dead or Dying	8	(N/A)	1.00	0.36
	Poor	62	(N/A)	7.72	2.79
	Fair	249	(N/A)	31.01	11.22
	Good	469	(N/A)	58.41	21.13
	Total	788	(N/A)	98.13	35.50

Structural (Woody) Condition of All Trees by Species

9/24/2019

Species	Condition	Tree Count	Standard Error	% of Species	% of All Trees
River birch	Dead or Dying	0	(N/A)	0.00	0.00
	Poor	0	(N/A)	0.00	0.00
	Fair	1	(N/A)	50.00	0.05
	Good	1	(N/A)	50.00	0.05
	Total	2	(N/A)	100.00	0.09
Sawtooth oak	Dead or Dying	0	(N/A)	0.00	0.00
	Poor	0	(N/A)	0.00	0.00
	Fair	0	(N/A)	0.00	0.00
	Good	1	(N/A)	100.00	0.05
	Total	1	(N/A)	100.00	0.05
Silver maple	Dead or Dying	0	(N/A)	0.00	0.00
	Poor	4	(N/A)	40.00	0.18
	Fair	5	(N/A)	50.00	0.23
	Good	1	(N/A)	10.00	0.05
	Total	10	(N/A)	100.00	0.45
Spruce	Dead or Dying	0	(N/A)	0.00	0.00
	Poor	0	(N/A)	0.00	0.00
	Fair	2	(N/A)	100.00	0.09
	Good	0	(N/A)	0.00	0.00
	Total	2	(N/A)	100.00	0.09
Sugar maple	Dead or Dying	0	(N/A)	0.00	0.00
	Poor	2	(N/A)	66.67	0.09
	Fair	1	(N/A)	33.33	0.05
	Good	0	(N/A)	0.00	0.00
	Total	3	(N/A)	100.00	0.14
Swamp white oak	Dead or Dying	0	(N/A)	0.00	0.00
	Poor	0	(N/A)	0.00	0.00
	Fair	0	(N/A)	0.00	0.00
	Good	1	(N/A)	100.00	0.05
	Total	1	(N/A)	100.00	0.05
Sweetgum	Dead or Dying	0	(N/A)	0.00	0.00
	Poor	4	(N/A)	20.00	0.18
	Fair	14	(N/A)	70.00	0.63
	Good	2	(N/A)	10.00	0.09
	Total	20	(N/A)	100.00	0.90
Sycamore maple	Dead or Dying	0	(N/A)	0.00	0.00
	Poor	0	(N/A)	0.00	0.00
	Fair	1	(N/A)	33.33	0.05
	Good	2	(N/A)	66.67	0.09
	Total	3	(N/A)	100.00	0.14
Trident maple	Dead or Dying	0	(N/A)	0.00	0.00
	Poor	1	(N/A)	5.00	0.05
	Fair	4	(N/A)	20.00	0.18
	Good	14	(N/A)	70.00	0.63
	Total	19	(N/A)	95.00	0.86
White ash	Dead or Dying	1	(N/A)	33.33	0.05
	Poor	1	(N/A)	33.33	0.05
	Fair	1	(N/A)	33.33	0.05
	Good	0	(N/A)	0.00	0.00
	Total	3	(N/A)	100.00	0.14
White oak	Dead or Dying	0	(N/A)	0.00	0.00
	Poor	0	(N/A)	0.00	0.00
	Fair	1	(N/A)	50.00	0.05
	Good	1	(N/A)	50.00	0.05
	Total	2	(N/A)	100.00	0.09

Structural (Woody) Condition of All Trees by Species

9/24/2019

Species	Condition	Tree Count	Standard Error	% of Species	% of All Trees
Yoshino flowering cherry	Dead or Dying	0	(N/A)	0.00	0.00
	Poor	0	(N/A)	0.00	0.00
	Fair	0	(N/A)	0.00	0.00
	Good	1	(N/A)	100.00	0.05
	Total		1	(N/A)	100.00
Zelkova	Dead or Dying	0	(N/A)	0.00	0.00
	Poor	1	(N/A)	14.29	0.05
	Fair	1	(N/A)	14.29	0.05
	Good	4	(N/A)	57.14	0.18
	Total		6	(N/A)	85.71

Recommended Tree Species to Plant

Large – 48"+ planting belt width or no sidewalk or wires

Non-Flowering

Hardy Rubber Tree
Swamp White Oak
Princeton Sentry
Ginkgo
Hackberry
Katsura

Flowering

Skyline
Littleleaf Linden
Honeylocust –
*(shallow roots, avoid
high water table areas)*

Medium – 30"- 48" planting belt widths

Non-Flowering

Heritage River Birch – single stem
Lacebark Elm
Kentucky Coffee Tree
Maackia
Parrotia
Rotundiloba Sweetgum
Black Gum (Pepperidge)
Slim Silhouette Sweetgum

Flowering

Yellowwood
Summer Sprite Linden
Golden Rain Tree

Compact – narrow planting belts and under wires

Non-Flowering

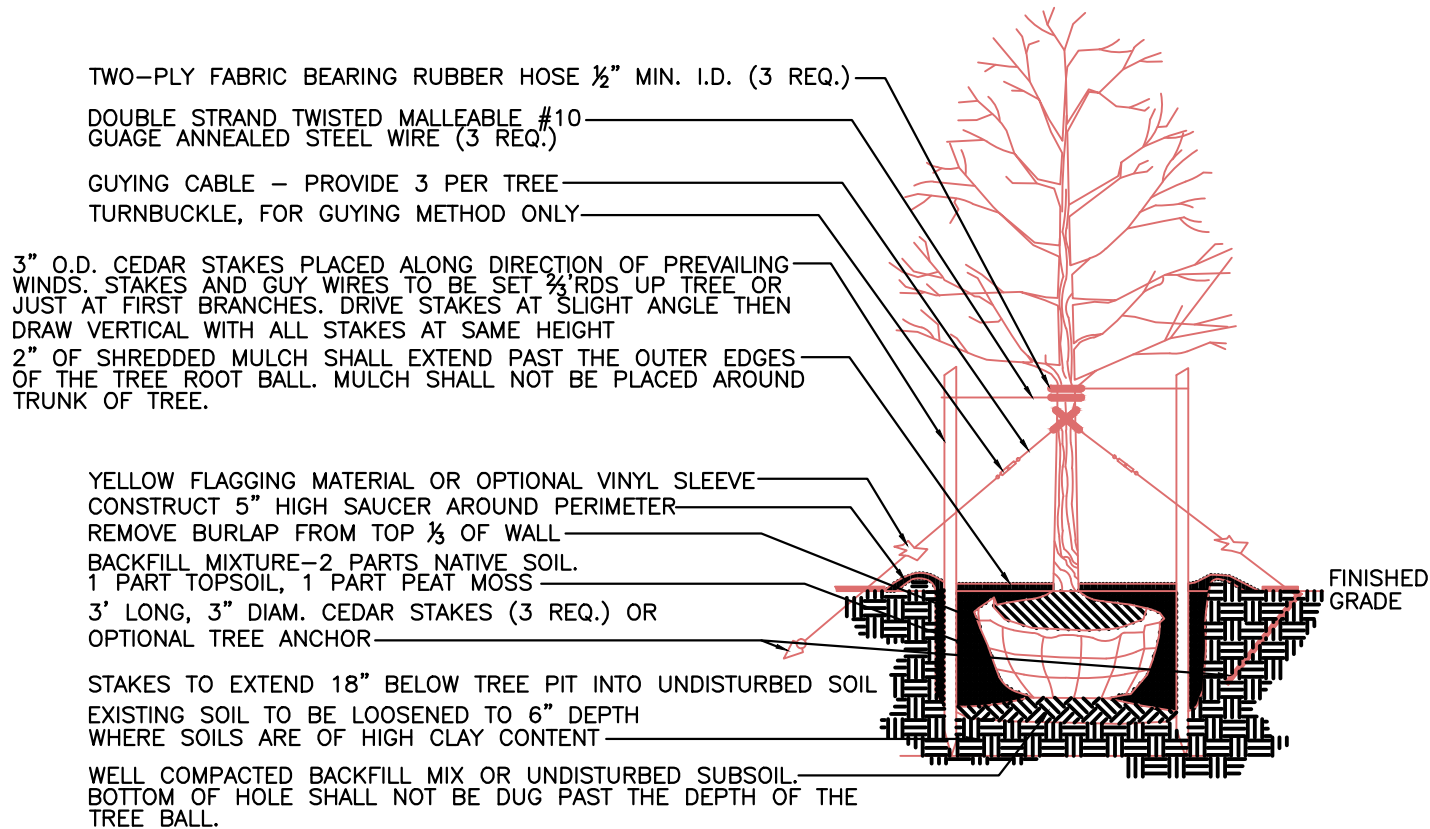
Pyramidal European Hornbeam
American Hornbeam
Hophornbeam

Flowering

Japanese Tree Lilac
Merrill Magnolia
Rutgers Hybrid Dogwoods
Ruby Red Horsechestnut
Crabapple
Cornelian Cherry
Merlot Redbud
Kwanzan Cherry
Columnar Sargeant Cherry
Robin Hill Shadblow
Silverbell
Japanese Snowbell
Amanogawa Cherry
Crusader Hawthorn
Kousa Dogwood

QUALITY REQUIREMENTS FOR NEW TREES

- OPTIMAL PLANTING SEASONS ARE FROM OCTOBER 15TH TO DECEMBER 1ST, AND MARCH 1ST TO MAY 15TH.
- NO PLANTING SHALL BE DONE DURING ABNORMALLY HOT WEATHER OR WHEN THE GROUND IS FROZEN.
- DIAMETER OF ALL PLANT PITS SHALL BE AT LEAST TWO THIRDS GREATER THAN BALL DIAMETER.
- SOIL BENEATH ROOTS MUST BE TAMPED PRIOR TO TREE INSTALLATION.
- ALL PLASTIC MATERIAL, INCLUDING SYNTHETIC BURLAP, STRING AND CONTAINERS, SHALL BE REMOVED AT TIME OF PLANTING.
- WIRE BASKETS AND PLASTIC LINERS MUST BE COMPLETELY REMOVED.

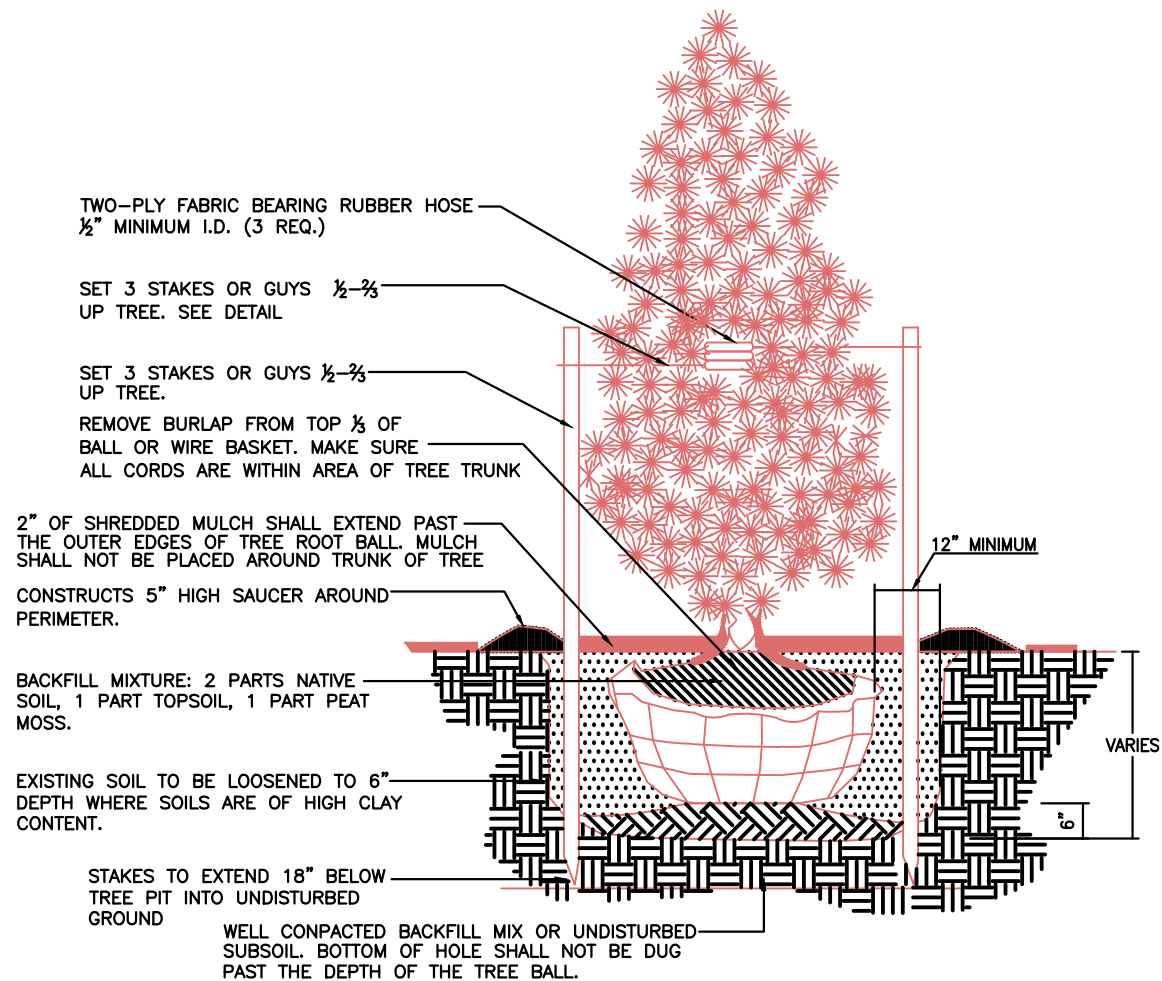


NOTES:

1. ALL TREES UNDER 3" IN CALIPER SHALL BE STAKED.
2. ALL TREES 3" IN CALIPER AND GREATER SHALL BE GUYED.
3. ALL TREES SHALL BE PRUNED TO THIN AND SHAPE CANOPY LEADER OF TREE SHALL NEVER BE CUT.
4. TREE SHALL BEAR SAME RELATION TO FINISHED GRADE AS IT BORE TO PREVIOUS GRADE IN THE NURSERY.
5. WHEN TREE IS PLANTED, CARE SHALL BE TAKEN TO INSURE THAT THE TOP MOST ROOT IS SLIGHTLY ABOVE FINISHED GRADE.

DECIDUOUS TREE PLANTING DETAIL

NOT TO SCALE

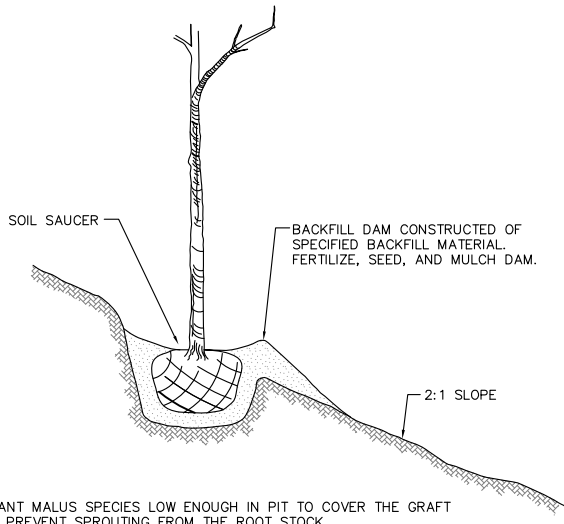


NOTES:

1. STAKE ALL EVERGREEN TREES UNDER 8 FT. WITH ONE STAKE. GUY TREES 8 FT. AND OVER AS SPECIFIED FOR DECIDUOUS TREE.
2. TREE SHALL BEAR SAME RELATION TO FINISHED GRADE AS IT BORE TO PREVIOUS GRADE IN THE NURSERY.
3. PRUNE ONLY TO REMOVE DAMAGED OR BROKEN BRANCHES. LEADER OF TREE SHALL NEVER BE CUT.
4. WHEN TREE IS PLANTED, CARE SHALL BE TAKEN TO INSURE THAT THE TOP MOST ROOT IS SLIGHTLY ABOVE FINISHED GRADE.

EVERGREEN TREE PLANTING DETAIL

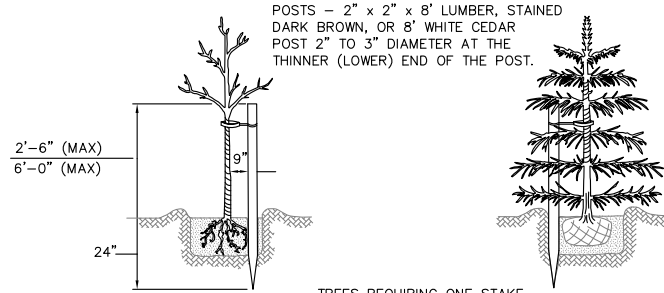
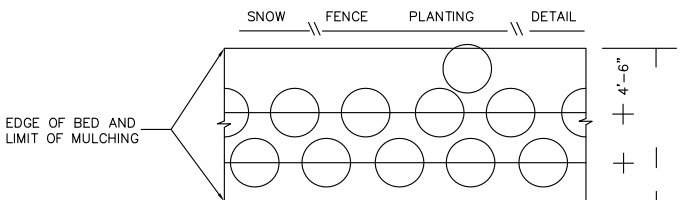
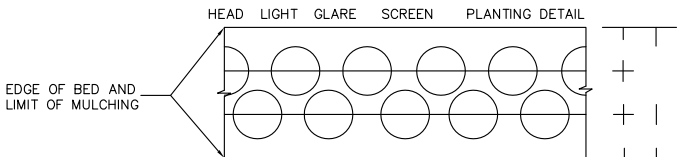
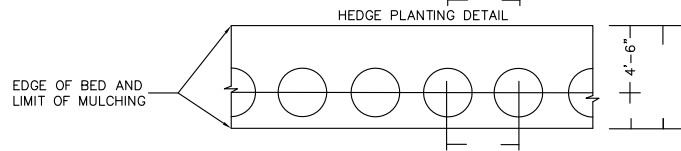
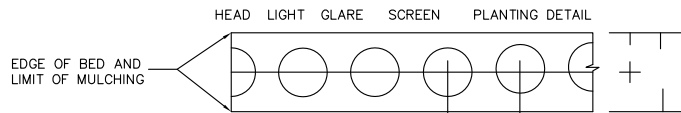
NOT TO SCALE



PLANT MALUS SPECIES LOW ENOUGH IN PIT TO COVER THE GRAFT TO PREVENT SPROUTING FROM THE ROOT STOCK.

TREE PLANTING— 2:1 SLOPE

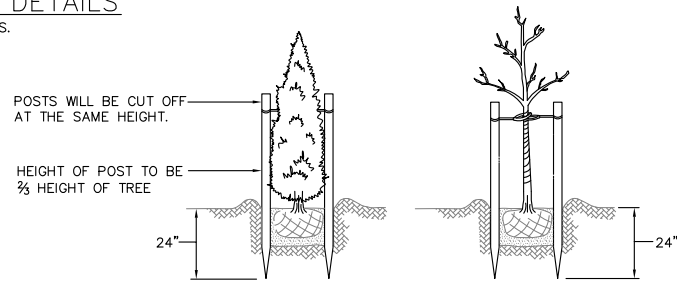
N.T.S.



TREES REQUIRING ONE STAKE.
 DECIDUOUS TREES (EXCEPT SALIX) 1" TO 1½" CALIPER, INCLUSIVE.
 CONE TYPE (PYRAMIDAL) TREES 3' TO 5' HIGH AND COLUMNAR
 EVERGREEN TREES 4' TO 7' HIGH, INCLUSIVE.

STAKING DETAILS

N.T.S.



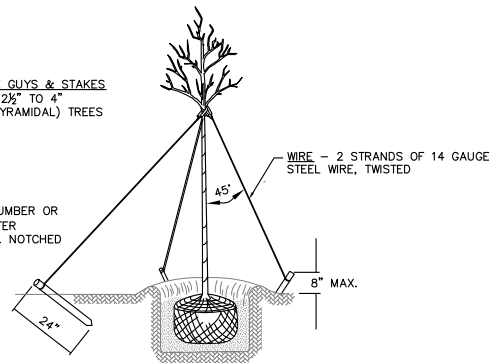
TREES REQUIRING TWO STAKES
 DECIDUOUS TREES OVER 1" TO 1½" CALIPER, INCLUSIVE.
 ALL SALIX, REGARDLESS OF HEIGHT, CALIPER, BARE ROOT OR
 BALLED AND BURLAPPED. CONE TYPE (PYRAMIDAL) TREES
 5' TO 7' HIGH AND COLUMNAR EVERGREEN TREES 7' TO
 9' HIGH, INCLUSIVE.

HEDGE PLANTING DETAIL

N.T.S.

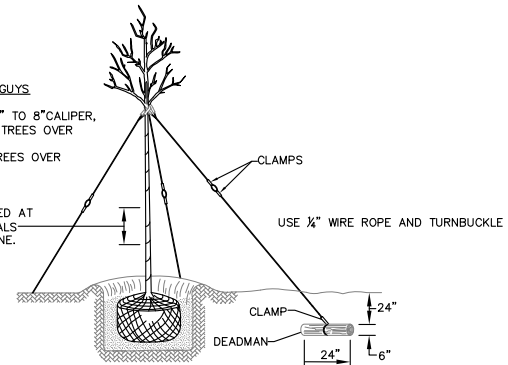
TREES REQUIRING THREE GUYS & STAKES
 DECIDUOUS TREES OVER 2½" TO 4"
 CALIPER, CONE TYPE (PYRAMIDAL) TREES
 OVER 7" HIGH.

STAKES — 2" x 4" x 24" LUMBER OR
 WHITE CEDAR, 2½" DIAMETER
 AT THINNER (LOWER) END. NOTCHED
 4" FROM TOP.



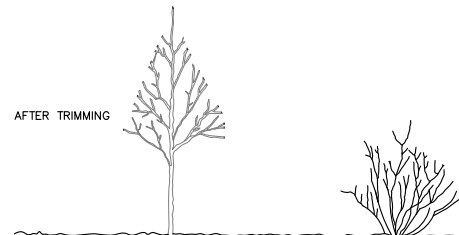
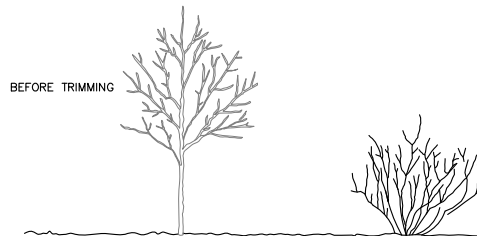
TREES REQUIRING THREE GUYS
 & DEADMEN
 DECIDUOUS TREES OVER 4" TO 8" CALIPER,
 CONE TYPE (PYRAMIDAL) TREES OVER
 4' TO 8" CALIPER.
 COLUMNAR EVERGREEN TREES OVER
 9' HIGH.

BURLAP WRAPPING TIED AT
 MAXIMUM 24" INTERVALS
 WITH 2 PLY JUTE TWINE.



GUYING DETAILS

N.T.S.



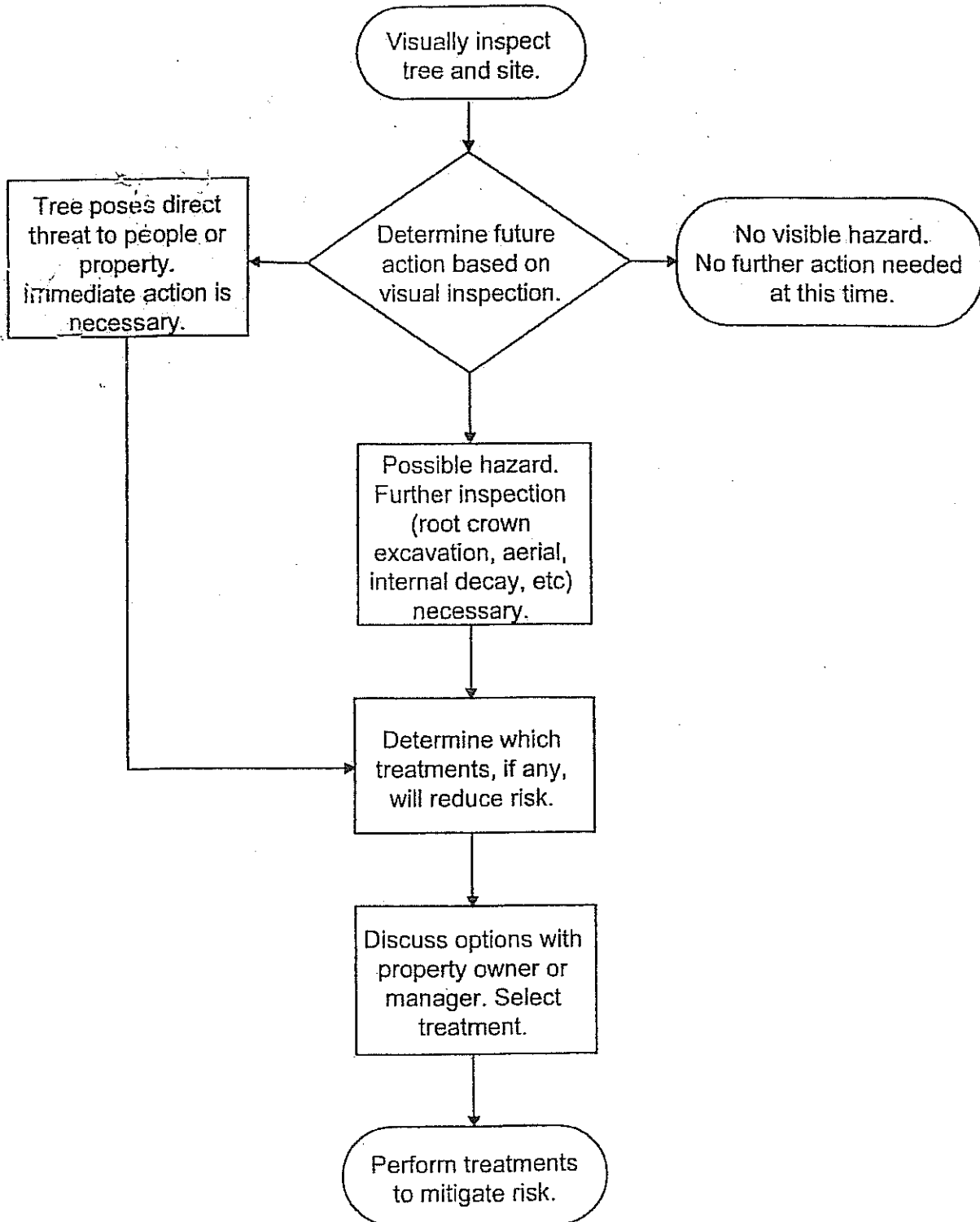
PRUNING TREES WHEN PLANTING

DAMAGED BRANCHES SHALL BE TRIMMED OFF BELOW THE POINT OF INJURY.
 THE CENTRAL TRUNK OR "LEADER" SHOULD BE LEFT INTACT AND THE SIDE BRANCHES
 SHOULD BE SHORTENED BY APPROXIMATELY ½ TO ⅔ PREVIOUS SEASONS GROWTH.
 BROKEN ROOTS SHALL BE CUT OFF ABOVE THE BREAK AND BRUISED ENDS CUT
 OFF CLEANLY.

WHEN PLANTING A YOUNG SHRUB, THIN TOP GROWTH BY ⅓ TO BALANCE THE TOP
 WITH THE ROOTS. PRUNE JUST ABOVE A BUD AND RETAIN THE NATURAL SHAPE OF
 THE SHRUB.



Individual Tree Risk Assessment Flow Chart





Guidelines for Systematic Assessment

Many factors must be considered when performing a tree risk assessment. Use this sheet as a reference for performing systematic and comprehensive inspections.

Tree characteristics

- age
- species
- size
- live crown ratio
- pruning history
- tree/crown form
- environmental/ecological/historical significance

Tree health

- foliage color/density
- growth rate/vigor
- general decline/dieback
- pest infestation/disease

Structural Defect

- poor taper
- broken/hanging branches
- excessive end weight
- cracks or splits
- codominant/multiple stems
- dead limbs
- decay/cavities
- lean
- root loss/root rot
- weak attachment
- wounds/seams
- asymmetric form
- previous failure bow

Potential targets

- buildings
- people
- picnic/sitting areas
- utilities
- other structures or landscape features
- vehicles

Size of defective part

- small (small branches)
- medium (large branches)
- large (dominant leaders, main scaffold branches)
- whole tree (trunk, root flare, roots)

Site use

- no use
- occasional
- moderate
- constant use

Site conditions

- above/below ground utilities
- compacted soil
- poor drainage
- excessive irrigation
- soil type
- shallow soil
- restricted root area
- wind exposure
- potential for ice/snow loading
- site history
- recent disturbance
- construction activity

Section 1 – County Information Form

Municipality Township of Verona

County Essex

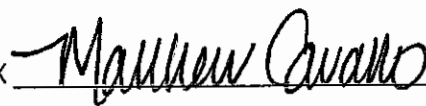
Address 600 Bloomfield Avenue
Verona, New Jersey 07044

Contact Name and Title Michael DeCarlo, Engineering Manager

Phone # (973) 239-8146

Fax # and E-mail (973) 239-7837 MDECARLO@VERONANJ.ORG

Organization Name Township of Verona

Mayor/County Freeholder's Signature X 

Date of Management Plan Submission 7/23/20


Time Period Covered in Management Plan 2020-2024

Community Stewardship Incentive Program (CSIP) Practices Identified in Management Plan:

- | | |
|--|---|
| <input checked="" type="checkbox"/> CSIP #1 Training | <input checked="" type="checkbox"/> CSIP #8 Tree Maintenance and Removals |
| <input checked="" type="checkbox"/> CSIP #2 Community Forestry Ordinance Establishment | <input checked="" type="checkbox"/> CSIP #9 Insect and Disease Management |
| <input checked="" type="checkbox"/> CSIP #3 Public Education and Awareness | <input checked="" type="checkbox"/> CSIP #10 Wildfire Protection |
| <input checked="" type="checkbox"/> CSIP #4 Arbor Day | <input checked="" type="checkbox"/> CSIP #11 Tree Planting |
| <input checked="" type="checkbox"/> CSIP #5 Tree Inventory | <input checked="" type="checkbox"/> CSIP #12 Tree Recycling |
| <input checked="" type="checkbox"/> CSIP #6 Hazard Tree Assessment | <input checked="" type="checkbox"/> CSIP #13 Sidewalk Maintenance Program |
| <input checked="" type="checkbox"/> CSIP #7 Storm Damage Assessment | <input checked="" type="checkbox"/> CSIP #14 Storm Water Management |
| | <input checked="" type="checkbox"/> CSIP #15 Other |

Office Use Only Certification

The above-named municipality/county has made formal application to the New Jersey Forest Service. I am pleased to advise you that after our review, the NJ Forest Service has concluded that this plan meets the standards set forth by the State and the NJ Community Forestry Council and is approved for the period covered.

Signed  7/30/20
 (State Forester) Approved Date